

MMM North Troy 2013 Monitoring Report

All volumes are in acre-feet

	Total Groundwater Entering PH	Total Stormwater Entering PH	Total PH Stormwater Diverted	Total PH Water Diverted	PH Water Sent To Holding Basin	Groundwater Augmentation	Streamwater Augmentation	Consumptive Use of PH Water	Streamwater Pumped From Mill Creek	Groundwater Pumped From Wells	Total Annual Groundwater Allocation, Ac-R
January-13	127.55	4.90	4.90	130.28	47.05	48.41	42.23	4.39	0.00	0.00	594.72
February-13	111.70	16.71	16.71	110.55	32.13	49.51	51.82	4.66	0.00	0.00	594.72
March-13	138.29	7.32	7.32	143.14	0.00	152.64	0.00	7.01	0.00	0.12	594.72
1st QTR Totals	375.54	28.93	28.93	383.86	79.18	249.56	93.82	16.06	0.00	0.12	N/A
April-13	134.72	9.39	9.39	128.77	0.00	138.18	0.00	7.15	0.00	0.00	594.72
May-13	130.37	58.76	58.76	129.41	48.80	148.66	0.00	6.65	0.00	0.00	594.72
June-13	150.01	22.82	22.82	149.90	0.00	187.27	0.00	10.30	0.00	0.17	594.72
2nd QTR Totals	415.10	90.97	90.97	407.98	48.80	462.28	0.00	24.11	0.00	0.17	N/A
July-13	149.98	30.98	30.98	158.64	35.02	154.81	0.00	10.45	0.00	0.00	594.72
August-13	155.18	7.48	7.48	158.43	0.00	161.82	0.00	9.18	0.00	0.00	594.72
September-13	163.87	5.53	5.53	152.48	0.00	157.90	0.00	9.98	0.00	0.09	594.72
3rd QTR Totals	499.00	43.97	43.97	467.54	35.02	474.42	0.00	29.81	0.00	0.09	N/A
October-13	151.62	18.83	18.83	148.74	0.00	168.18	0.00	6.05	0.00	0.00	594.72
November-13	163.05	12.84	12.84	158.37	0.00	171.31	0.00	4.28	0.00	0.00	594.72
December-13	154.07	17.26	17.26	167.30	0.00	184.56	0.00	3.33	0.00	0.00	594.72
4th QTR Totals	488.74	49.03	49.03	474.41	0.00	522.09	0.00	11.87	0.00	0.00	N/A
2013 Totals	1718.38	212.90	212.90	1733.98	169.99	1726.29	63.82	63.44	0.00	0.38	594.72

Mill Creek 2013 Augmentation and Gage Data

Start Date	Start Time	Stop Date	Stop Time	Begin Reading	End Reading	Ac-ft Pumped	Mill Creek Stream Gage Reading	Time Read	Stream Height	Stream Flow	
1/1/2013	12:30pm	1/2/2013	4:30pm	2,142,370,000	2,148,620,000	13.04	USGS 7331200	1:30 PM CST	5.82 P	1.4 P	
1/3/2013	7:30am	1/3/2013	3:00pm	2,148,020,000	2,148,020,000	4.30	USGS 7331200	7:30 AM CST	5.98 P	3.5 P	
1/5/2013	8:05am	1/5/2013	4:37pm	2,148,020,000	2,149,390,000	4.20	USGS 7331200	8:00 AM CST	5.83 P	1.8 P	
1/7/2013	8:10am	1/8/2013	2:00pm	2,148,390,000	2,154,180,000	14.64	USGS 7331200	8:00 AM CST	5.81 P	1.4 P	
1/28/2013	11:45am	1/28/2013	3:40pm	2,182,970,000	2,183,370,000	1.23	USGS 7331200	1/27/13 12:30 AM CST	5.75 P	0.86 P	
Note: Data was not recorded for 1/28/13. Data shown is for 1/27/13 and 1/29/13							USGS	7331200	1/29/13 7:00 PM CST	5.87 P	2 P
1/29/2013	7:30am	1/29/2013	2:15pm	2,183,370,000	2,184,070,000	2.15	USGS 7331200	7:00 PM CST	5.87 P	2 P	
1/30/2013	7:05am	1/30/2013	3:35pm	2,184,070,000	2,184,930,000	2.64	USGS 7331200	1/30/2013 1:30 CST	5.87 P	2 P	
Note: Data was not recorded for 1/30/13 @ 7:00am. Data shown is for 1:30am and 11:00pm							USGS	7331200	1/30/2013 23:00 CST	5.78 P	1.1 P
2/3/2013	Start time not logged, app 7:30am	2/5/2013	3:40pm	2,187,890,000	2,193,810,000	17.55	USGS 7331200	8:30 AM CST	5.73 P	0.73 P	
							USGS 7331200	8:30 AM CST	5.74 P	0.79 P	
							USGS 7331200	8:30 AM CST	5.73 P	0.73 P	
2/6/2013	8:40am	2/6/2013	3:40pm	2,193,810,000	2,194,560,000	2.92	USGS 7331200	8:30 AM CST	5.88 P	2.2 P	
2/7/2013	8:00am	2/7/2013	3:40pm	2,194,560,000	2,195,890,000	3.47	USGS 7331200	8:00 AM CST	5.93 P	2.9 P	
2/8/2013	8:20am	2/8/2013	Stop time not logged, app 3:40pm	2,195,890,000	2,197,230,000	4.73	USGS 7331200	6:00 AM CST	5.89 P	2.3 P	
2/8/2013	10:37am	2/9/2013	3:26pm	2,197,230,000	2,198,050,000	2.52	USGS 7331200	10:30 AM CST	5.85 P	1.8 P	
2/11/2013	Start time not logged, app 7:30am	2/12/2013	4:37pm	2,198,050,000	2,203,180,000	15.74	USGS 7331200	2/11/2013 7:30 CST	5.79 P	1.2 P	
2/13/2013	8:45am	2/13/2013	4:40pm	2,203,180,000	2,204,710,000	4.70	USGS 7331200	2/12/2013 7:30 CST	8 P	4.4 P	
4/1/2013	NO AUGMENTATION THIS MONTH										
5/1/2013	NO AUGMENTATION THIS MONTH										
6/1/2013	NO AUGMENTATION THIS MONTH										
7/1/2013	NO AUGMENTATION THIS MONTH										
8/1/2013	NO AUGMENTATION THIS MONTH										
9/1/2013	NO AUGMENTATION THIS MONTH										
10/1/2013	NO AUGMENTATION THIS MONTH										
11/1/2013	NO AUGMENTATION THIS MONTH										
12/1/2013	NO AUGMENTATION THIS MONTH										

Monthly Water Data - ac-ft

	Water Diverted From PS	Storm Water Entering Pit	Net Sump Volume Change	Groundwater Sent To Holding Basin	Groundwater Sent To Infiltration Area	Groundwater Used For Stream Augmentation	Evaporation	Months Content of Product Shipped	Water Truck Usage	Misc PH Water Use On Site	Misc PH Water Use Off Site	Production Well Perm# 2802402	North Well Perm# 20060001A
January-13	135.15	4.90		47.09	43.91	42.20	1.43	2.95	0.00	0.00	0.00	0.00	0.00
February-13	127.27	16.71		33.13	43.57	51.67	1.89	2.77	0.00	0.00	0.00	0.00	0.00
March-13	150.47	7.32		0.00	150.47	0.00	2.60	3.54	0.55	0.00	0.00	0.12	0.00
April-13	158.16	9.39		0.00	139.19	0.00	3.37	3.63	0.00	0.00	0.00	0.00	0.00
May-13	183.65	64.24		46.80	148.95	0.00	4.18	2.28	0.22	0.00	0.00	0.00	0.00
June-13	197.27	47.47		0.00	197.27	0.00	6.46	3.32	0.11	0.00	0.00	0.17	0.00
July-13	189.63	30.84		38.02	154.81	0.00	7.31	2.63	0.73	0.00	0.00	0.00	0.00
August-13	161.82	6.35		0.00	161.82	0.00	5.48	3.35	0.34	0.00	0.00	0.00	0.00
September-13	157.99	5.53		0.00	157.99	0.00	4.47	4.95	0.65	0.00	0.00	0.09	0.00
October-13	166.18	17.44		0.00	166.18	0.00	2.18	3.46	0.06	0.00	0.00	0.09	0.00
November-13	177.31	12.94		0.00	177.31	0.00	1.80	2.33	0.06	0.00	0.00	0.00	0.00
December-13	184.35	17.26		0.00	184.35	0.00	1.30	1.94	0.08	0.00	0.00	0.00	0.00

PH Sump Volumes

	Month End Depth-to-Water, Ft	West Sump				PH Sump				New Freshwater Pond				Total Evaporation, ac-ft	
		Width, Ft	Length, Ft	Sump Volume Change, Ac-ft	Evaporation, ac-ft	Month End Depth-to-Water, Ft	Width, Ft	Length, Ft	Sump Volume Change, Ac-ft	Evaporation, ac-ft	Month End Depth-to-Water, Ft	Width, Ft	Length, Ft		Final Volume Change, Ac-ft
January-13	5.518	125	325			4	50	50			4.702	475	750		
February-13	4.289	125	325			4	50	50			3.609	475	750		
March-13	11.641	125	325			4	50	50			3.817	475	750		
April-13	5.243	125	325			4	50	50			7.444	475	750		
May-13	4.227	125	325			4	50	50			2.924	475	750		
June-13	4.005	125	325			4	50	50			4.81	475	750		
July-13	13.32	125	325			4	50	50			2.971	475	750		
August-13	14.664	125	325			4	50	50			2.12	475	750		
September-13	13.158	125	325			4	50	50			3.743	475	750		
October-13	10.063	125	325			4	50	50				475	750		
November-13	5.945	125	325			4	50	50				475	750		
December-13	19.735	125	325			4	50	50				475	750		

transducer being replaced

October Shipments			November Shipments			December Shipments		
	Tons Shipped	Ac-ft of water shipped		Tons Shipped	Ac-ft of water shipped		Tons Shipped	Ac-ft of water shipped
Base Products	44,233	1.083	Base Products	40,895	1.001	Base Products	16,295	0.399
Coarse Aggregates	143,114	1.720	Coarse Aggregates	97,335	1.170	Coarse Aggregates	94,613	1.137
Fine Aggregates	18,910	0.501	Fine Aggregates	4,938	0.157	Fine Aggregates	13,982	0.444
	206,257	3.404		143,168	2.328		124,890	1.980