



# TRANSMITTAL

Mr. Randi Wille  
Regional Manager - Environmental & Land Services  
Aggregate Industries US  
Meyer Material Company  
1819 North Dot Street  
McHenry, IL 60050

June 22, 2015

Re: Chelsea Plant – 2015 Second Quarter Water Level Data

Project No. G06088B

- FOR REVIEW
- FOR YOUR USE
- AS REQUESTED

Sent By: Todd C. Campbell, CPG/lkj



COPIES	DATE	DESCRIPTION
1	06/22/2015	Monitoring Well and Surface Water Hydrograph (pdf® format)
1	06/22/2015	Table 1 – Groundwater and Surface Water Elevation Data (pdf® format)

## COMMENTS

As requested, attached is your 2015 Second Quarter water level data. If you have any questions or require additional information, please contact me at 269.544.6948 or [tccampbell@ftch.com](mailto:tccampbell@ftch.com).

By email

Monitoring Well & Surface Water Hydrograph  
 Aggregate Industries, Inc. - Chelsea Plant  
 Part 301 Permit No. 12-38-0010-P

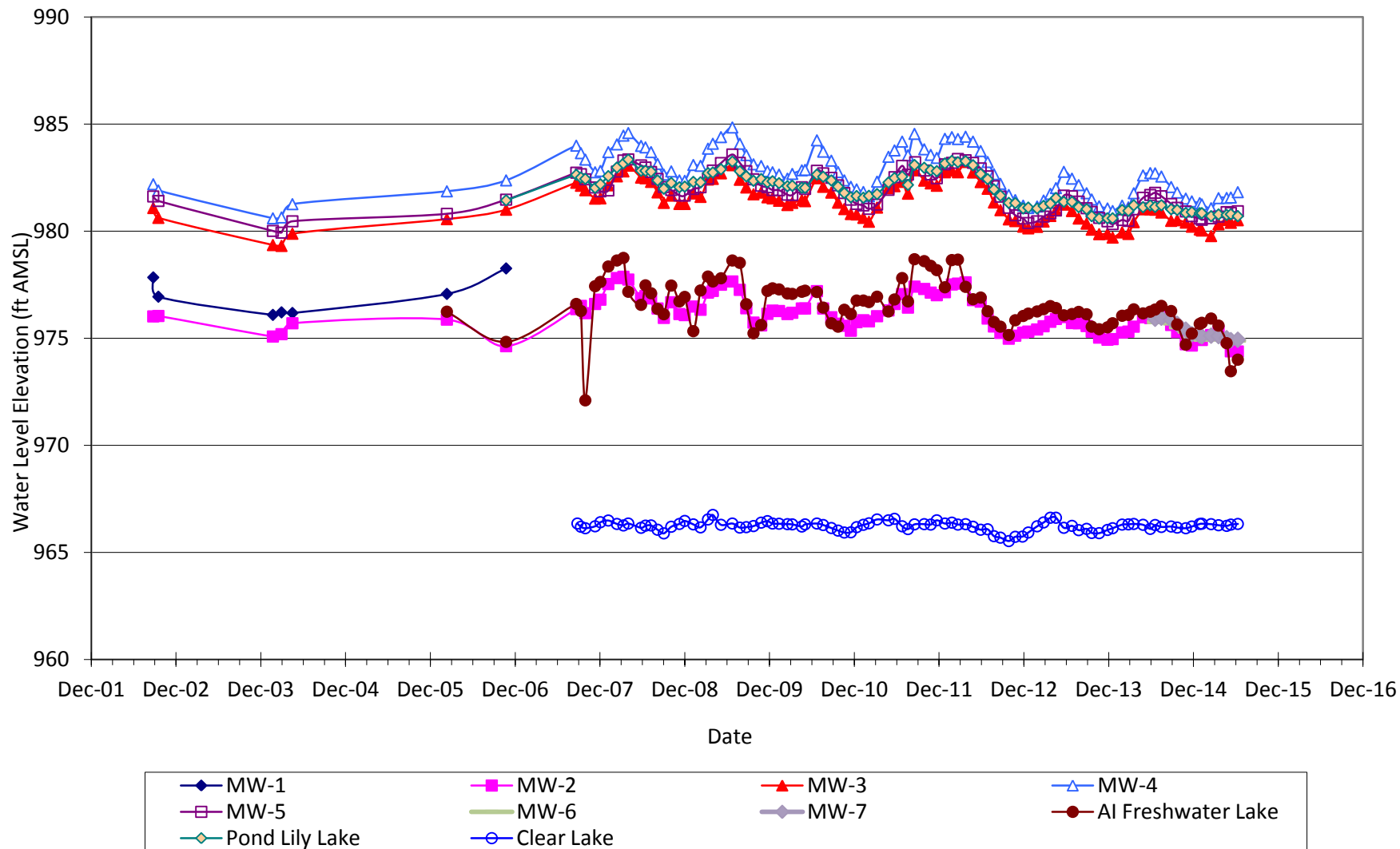


Table 1 - Groundwater and Surface Water Elevation Data - Part 301 Permit No. 12-38-0010-P

Aggregate Industries -- Chelsea Operations  
Waterloo Township, Jackson County, Michigan

Location	Coordinates		Well Depth (ft bgs)	Screen Depth (ft bgs)	Top of Casing (ft amsl)	Date	Surface Water Elevation (ft amsl)	Depth to Water (ft bgs)	Static Water Level Elevation (ft amsl)	Comments
	Northing	Easting								
MW-1	N42.32649	W084.13039	25	15-25	987.90	08/29/02	977.84	10.06	977.84	ASTI
						09/20/02	976.94	10.96	976.94	ASTI
						01/26/04	976.09	11.81	976.09	ASTI
						03/03/04	976.21	11.69	976.21	ASTI
						04/19/04	976.18	11.72	976.18	ASTI
						02/13/06	977.07	10.83	977.07	FTC&H Begins Monitoring
						10/26/06	978.26	9.64	978.26	
						11/02/06				Well Abandoned
MW-2	N42.32887	W084.13489	30	20-30	990.10	08/29/02	976.02	14.08	976.02	ASTI
						09/20/02	976.04	14.06	976.04	ASTI
						01/26/04	975.08	15.02	975.08	ASTI
						03/03/04	975.19	14.91	975.19	ASTI
						04/19/04	975.70	14.40	975.70	ASTI
						02/13/06	975.87	14.23	975.87	FTC&H Begins Monitoring
						10/26/06	974.63	15.47	974.63	
						08/24/07	976.36	13.74	976.36	
						09/13/07	976.51	13.59	976.51	
						10/02/07	976.17	13.93	976.17	
						11/13/07	976.60	13.50	976.60	
						12/06/07	976.80	13.30	976.80	
						01/09/08	977.53	12.57	977.53	
						02/15/08	977.81	12.29	977.81	
						03/14/08	977.87	12.23	977.87	
						04/04/08	977.74	12.36	977.74	
						05/29/08	976.87	13.23	976.87	
						06/17/08	976.97	13.13	976.97	
						07/11/08	976.86	13.24	976.86	
						08/08/08	976.39	13.71	976.39	
						09/04/08	975.95	14.15	975.95	
						10/06/08	976.68	13.42	976.68	Large/many rain events in September 2008
						11/10/08	976.13	13.97	976.13	
						12/03/08	976.08	14.02	976.08	
						01/09/09	976.48	13.62	976.48	
						02/09/09	976.33	13.77	976.33	
						03/13/09	977.13	12.97	977.13	
						04/03/09	977.21	12.89	977.21	
						05/08/09	977.50	12.60	977.50	
						06/26/09	977.65	12.45	977.65	
						07/28/09	977.26	12.84	977.26	
						08/25/09	976.40	13.70	976.40	
						09/25/09	975.73	14.37	975.73	
						10/28/09	975.60	14.50	975.60	
						11/24/09	976.14	13.96	976.14	
						12/16/09	976.29	13.81	976.29	
						01/13/10	976.27	13.83	976.27	
						02/18/10	976.13	13.97	976.13	
						03/11/10	976.19	13.91	976.19	
						04/21/10	976.39	13.71	976.39	
						05/05/10	976.39	13.71	976.39	
						06/25/10	977.20	12.90	977.20	Large/many rain events in June 2010
						07/22/10	976.39	13.71	976.39	
						08/26/10	975.98	14.12	975.98	
						09/24/10	975.68	14.42	975.68	
						10/21/10	975.58	14.52	975.58	
						11/18/10	975.35	14.75	975.35	
12/13/10	975.75	14.35	975.75							
01/11/11	975.84	14.26	975.84							
02/04/11	975.79	14.31	975.79							
03/11/11	976.03	14.07	976.03							
04/29/11	976.30	13.80	976.30							
05/25/11	976.60	13.50	976.60							
06/27/11	977.06	13.04	977.06							
07/22/11	976.43	13.67	976.43							
08/19/11	977.41	12.69	977.41							
09/30/11	977.30	12.80	977.30							
10/28/11	977.13	12.97	977.13							
11/23/11	977.01	13.09	977.01							
12/28/11	977.15	12.95	977.15							
01/27/12	977.51	12.59	977.51							
02/22/12	977.55	12.55	977.55							
03/26/12	977.61	12.49	977.61							
04/27/12	976.78	13.32	976.78							
05/30/12	976.71	13.39	976.71							
06/29/12	975.92	14.18	975.92							
07/26/12	975.55	14.55	975.55							
08/23/12	975.25	14.85	975.25							
09/28/12	974.98	15.12	974.98							
10/26/12	975.12	14.98	975.12							
11/29/12	975.26	14.84	975.26							
12/21/12	975.31	14.79	975.31							
01/28/13	975.41	14.69	975.41							
02/25/13	975.56	14.54	975.56							

MW-2 (continued)



Table 1 - Groundwater and Surface Water Elevation Data - Part 301 Permit No. 12-38-0010-P  
 Aggregate Industries -- Chelsea Operations  
 Waterloo Township, Jackson County, Michigan

Location	Coordinates		Well Depth (ft bgs)	Screen Depth (ft bgs)	Top of Casing (ft amsl)	Date	Surface Water Elevation (ft amsl)	Depth to Water (ft bgs)	Static Water Level Elevation (ft amsl)	Comments					
	Northing	Easting													
						03/26/13	14.33	975.77							
						04/19/13	14.20	975.90							
						05/23/13	14.11	975.99							
						06/27/13	14.39	975.71							
						07/26/13	14.40	975.70							
						08/29/13	14.53	975.57							
						09/20/13	14.79	975.31							
						10/22/13	15.07	975.03							
						11/27/13	15.17	974.93							
						12/19/13	15.14	974.96							
						01/29/14	14.83	975.27							
						02/25/14	14.79	975.31							
						03/20/14	14.56	975.54							
						04/29/14	14.12	975.98							
						05/30/14	14.16	975.94							
						06/20/14	14.05	976.05							
						07/17/14	14.06	976.04							
						08/28/14	14.48	975.62							
						09/23/14	14.81	975.29							
						10/30/14	15.38	974.72							
						11/25/14	15.44	974.66							
						12/29/14	15.14	974.96							
						01/07/15	15.18	974.92							
						02/16/15	14.95	975.15							
						03/20/15	14.77	975.33							
						04/24/15	15.17	974.93							
						05/12/15	15.71	974.39							
						06/11/15	15.72	974.38							
MW-3	N42.31787	W084.14101	30	20-30	996.80	08/29/02	15.72	981.08	ASTI						
						09/20/02	16.18	980.62	ASTI						
						01/26/04	17.45	979.35	ASTI						
						03/03/04	17.49	979.31	ASTI						
						04/19/04	16.92	979.88	ASTI						
						02/13/06	16.24	980.56	FTC&H Begins Monitoring						
						10/26/06	15.80	981.00							
						08/24/07	14.54	982.26							
						09/13/07	14.68	982.12							
						10/02/07	14.89	981.91							
						11/13/07	15.28	981.52							
						12/06/07	15.27	981.53							
						01/09/08	14.66	982.14							
						02/15/08	14.24	982.56							
						03/14/08	14.01	982.79							
						04/04/08	13.74	983.06							
						05/29/08	14.30	982.50							
						06/17/08	14.33	982.47							
						07/11/08	14.50	982.30							
						08/08/08	14.99	981.81							
						09/04/08	15.48	981.32							
						10/06/08	15.14	981.66	Large/many rain events in September 2008						
						11/10/08	15.53	981.27							
						12/03/08	15.53	981.27							
						01/09/09	15.04	981.76							
						02/09/09	15.20	981.60							
						03/13/09	14.39	982.41							
						04/03/09	14.36	982.44							
						05/08/09	14.10	982.70							
						06/26/09	13.72	983.08							
						07/28/09	14.40	982.40							
						08/25/09	14.76	982.04							
						09/25/09	15.08	981.72							
						10/28/09	15.00	981.80							
						11/24/09	15.22	981.58							
						12/16/09	15.27	981.53							
						01/13/10	15.38	981.42							
						02/18/10	15.58	981.22							
						03/11/10	15.48	981.32							
						04/21/10	15.36	981.44							
						05/05/10	15.40	981.40							
						06/25/10	14.33	982.47	Large/many rain events in June 2010						
						07/22/10	14.73	982.07							
						08/26/10	15.00	981.80							
						09/24/10	15.47	981.33							
						10/21/10	15.77	981.03							
						11/18/10	16.00	980.80							
						12/13/10	16.02	980.78							
MW-3 (continued)															



**Table 1 - Groundwater and Surface Water Elevation Data - Part 301 Permit No. 12-38-0010-P**  
 Aggregate Industries -- Chelsea Operations  
 Waterloo Township, Jackson County, Michigan

Location	Coordinates		Well Depth (ft bgs)	Screen Depth (ft bgs)	Top of Casing (ft amsl)	Date	Surface Water Elevation (ft amsl)	Depth to Water (ft bgs)	Static Water Level Elevation (ft amsl)	Comments
	Northing	Easting								
						01/11/11	•••••	16.18	980.62	
						02/04/11	•••••	16.36	980.44	
						03/11/11	•••••	15.70	981.10	
						04/29/11	•••••	14.79	982.01	
						05/25/11	•••••	14.70	982.10	
						06/27/11	•••••	14.50	982.30	
						07/22/11	•••••	15.05	981.75	
						08/19/11	•••••	13.96	982.84	
						09/30/11	•••••	14.44	982.36	
						10/28/11	•••••	14.57	982.23	
						11/23/11	•••••	14.68	982.12	
						12/28/11	•••••	14.05	982.75	
						01/27/12	•••••	13.97	982.83	
						02/22/12	•••••	14.05	982.75	
						03/26/12	•••••	13.57	983.23	
						04/27/12	•••••	14.06	982.74	
						05/30/12	•••••	14.51	982.29	
						06/29/12	•••••	14.82	981.98	
						07/26/12	•••••	15.46	981.34	
						08/23/12	•••••	15.82	980.98	
						09/28/12	•••••	16.25	980.55	
						10/26/12	•••••	16.33	980.47	
						11/29/12	•••••	16.59	980.21	
						12/21/12	•••••	16.67	980.13	
						01/28/13	•••••	16.60	980.20	
						02/25/13	•••••	16.35	980.45	
						03/26/13	•••••	16.09	980.71	
						04/19/13	•••••	15.83	980.97	
						05/23/13	•••••	15.56	981.24	
						06/27/13	•••••	15.86	980.94	
						07/26/13	•••••	16.21	980.59	
						08/29/13	•••••	16.45	980.35	
						09/20/13	•••••	16.73	980.07	
						10/22/13	•••••	16.94	979.86	
						11/27/13	•••••	16.93	979.87	
						12/19/13	•••••	17.10	979.70	
						01/29/14	•••••	16.86	979.94	
						02/25/14	•••••	16.93	979.87	
						03/20/14	•••••	16.38	980.42	
						04/29/14	•••••	15.78	981.02	
						05/30/14	•••••	15.78	981.02	
						06/20/14	•••••	15.80	981.00	
						07/17/14	•••••	15.93	980.87	
						08/28/14	•••••	16.32	980.48	
						09/23/14	•••••	16.29	980.51	
						10/30/14	•••••	16.40	980.40	
						11/25/14	•••••	16.59	980.21	
						12/29/14	•••••	16.72	980.08	
						01/07/15	•••••	16.77	980.03	
						02/16/15	•••••	17.03	979.77	
						03/20/15	•••••	16.48	980.32	
						04/24/15	•••••	16.28	980.52	
						05/12/15	•••••	16.41	980.39	
						06/11/15	•••••	16.29	980.51	
MW-4	N42.31845	W084.13161	55	45-55	1022.90	08/29/02	•••••	40.71	982.19	ASTI
						09/20/02	•••••	41.00	981.90	ASTI
						01/26/04	•••••	42.30	980.60	ASTI
						03/03/04	•••••	42.26	980.64	ASTI
						04/19/04	•••••	41.64	981.26	ASTI
						02/13/06	•••••	41.04	981.86	FTC&H Begins Monitoring
						10/26/06	•••••	40.53	982.37	
						08/24/07	•••••	38.91	983.99	
						09/13/07	•••••	39.26	983.64	
						10/02/07	•••••	39.56	983.34	
						11/13/07	•••••	40.15	982.75	
						12/06/07	•••••	40.09	982.81	
						01/09/08	•••••	39.21	983.69	
						02/15/08	•••••	38.85	984.05	
						03/14/08	•••••	38.44	984.46	
						04/04/08	•••••	38.32	984.58	
						05/29/08	•••••	38.92	983.98	
						06/17/08	•••••	38.99	983.91	
						07/11/08	•••••	39.21	983.69	
MW-4 (continued)						08/08/08	•••••	39.76	983.14	
						09/04/08	•••••	40.26	982.64	
						10/06/08	•••••	40.11	982.79	Large/many rain events in September 2008



**Table 1 - Groundwater and Surface Water Elevation Data - Part 301 Permit No. 12-38-0010-P**

Aggregate Industries -- Chelsea Operations  
Waterloo Township, Jackson County, Michigan

Location	Coordinates		Well Depth (ft bgs)	Screen Depth (ft bgs)	Top of Casing (ft amsl)	Date	Surface Water Elevation (ft amsl)	Depth to Water (ft bgs)	Static Water Level Elevation (ft amsl)	Comments
	Northing	Easting								
MW-4 (continued)						11/10/08	40.53	40.53	982.37	
						12/03/08	40.55	40.55	982.35	
						01/09/09	39.81	39.81	983.09	
						02/09/09	39.85	39.85	983.05	
						03/13/09	39.05	39.05	983.85	
						04/03/09	38.82	38.82	984.08	
						05/08/09	38.51	38.51	984.39	
						06/26/09	38.06	38.06	984.84	
						07/28/09	38.82	38.82	984.08	
						08/25/09	39.35	39.35	983.55	
						09/25/09	39.78	39.78	983.12	
						10/28/09	39.86	39.86	983.04	
						11/24/09	40.10	40.10	982.80	
						12/16/09	40.15	40.15	982.75	
						01/13/10	40.26	40.26	982.64	
						02/18/10	40.45	40.45	982.45	
						03/11/10	40.23	40.23	982.67	
						04/21/10	40.06	40.06	982.84	
						05/05/10	40.04	40.04	982.86	
						06/25/10	38.66	38.66	984.24	Large/many rain events in June 2010
						07/22/10	39.19	39.19	983.71	
						08/26/10	39.61	39.61	983.29	
						09/24/10	40.14	40.14	982.76	
						10/21/10	40.53	40.53	982.37	
						11/18/10	40.83	40.83	982.07	
						12/13/10	40.95	40.95	981.95	
						01/11/11	41.07	41.07	981.83	
						02/04/11	41.27	41.27	981.63	
						03/11/11	40.59	40.59	982.31	
						04/29/11	39.43	39.43	983.47	
						05/25/11	39.13	39.13	983.77	
						06/27/11	38.72	38.72	984.18	
						07/22/11	39.36	39.36	983.54	
						08/19/11	38.36	38.36	984.54	
						09/30/11	39.08	39.08	983.82	
						10/28/11	39.34	39.34	983.56	
						11/23/11	39.48	39.48	983.42	
						12/28/11	38.59	38.59	984.31	
						01/27/12	38.51	38.51	984.39	
						02/22/12	38.60	38.60	984.30	
						03/26/12	38.49	38.49	984.41	
						04/27/12	38.72	38.72	984.18	
						05/30/12	39.16	39.16	983.74	
						06/29/12	39.67	39.67	983.23	
						07/26/12	40.24	40.24	982.66	
						08/23/12	40.69	40.69	982.21	
						09/28/12	41.21	41.21	981.69	
						10/26/12	41.45	41.45	981.45	
						11/29/12	41.71	41.71	981.19	
						12/21/12	41.82	41.82	981.08	
01/28/13	41.75	41.75	981.15							
02/25/13	41.47	41.47	981.43							
03/26/13	41.16	41.16	981.74							
04/19/13	40.89	40.89	982.01							
05/23/13	40.13	40.13	982.77							
06/27/13	40.45	40.45	982.45							
07/26/13	40.75	40.75	982.15							
08/29/13	41.13	41.13	981.77							
09/20/13	41.42	41.42	981.48							
10/22/13	41.74	41.74	981.16							
11/27/13	41.84	41.84	981.06							
12/19/13	41.96	41.96	980.94							
01/29/14	41.71	41.71	981.19							
02/25/14	41.79	41.79	981.11							
03/20/14	41.13	41.13	981.77							
04/29/14	40.30	40.30	982.60							
05/30/14	40.19	40.19	982.71							
06/20/14	40.20	40.20	982.70							
07/17/14	40.35	40.35	982.55							
08/28/14	40.84	40.84	982.06							
09/23/14	41.10	41.10	981.80							
10/30/14	41.38	41.38	981.52							
11/25/14	41.51	41.51	981.39							
12/29/14	41.59	41.59	981.31							
01/07/15	41.65	41.65	981.25							
02/16/15	41.83	41.83	981.07							
03/20/15	41.36	41.36	981.54							
04/24/15	41.35	41.35	981.55							
05/12/15	41.33	41.33	981.57							
06/11/15	41.08	41.08	981.82							



Table 1 - Groundwater and Surface Water Elevation Data - Part 301 Permit No. 12-38-0010-P

Aggregate Industries -- Chelsea Operations  
Waterloo Township, Jackson County, Michigan

Location	Coordinates		Well Depth (ft bgs)	Screen Depth (ft bgs)	Top of Casing (ft amsl)	Date	Surface Water Elevation (ft amsl)	Depth to Water (ft bgs)	Static Water Level Elevation (ft amsl)	Comments
	Northing	Easting								
MW-5	N42.31192	W084.13466	50	40-50	1017.20	08/29/02	981.62	35.58	981.62	ASTI
						09/20/02	981.41	35.79	981.41	ASTI
						01/26/04	980.01	37.19	980.01	ASTI
						03/03/04	979.93	37.27	979.93	ASTI
						04/19/04	980.46	36.74	980.46	ASTI
						02/13/06	980.81	36.39	980.81	FTC&H Begins Monitoring
						10/26/06	981.47	35.73	981.47	
						08/24/07	982.73	34.47	982.73	
						09/13/07	982.66	34.54	982.66	
						10/02/07	982.42	34.78	982.42	
						11/13/07	982.04	35.16	982.04	
						12/06/07	981.86	35.34	981.86	
						01/09/08	981.90	35.30	981.90	
						02/15/08	982.78	34.42	982.78	
						03/14/08	983.30	33.90	983.30	
						04/04/08	983.35	33.85	983.35	
						05/29/08	983.07	34.13	983.07	
						06/17/08	982.97	34.23	982.97	
						07/11/08	982.76	34.44	982.76	
						08/08/08	982.44	34.76	982.44	
						09/04/08	982.06	35.14	982.06	
						10/06/08	981.92	35.28	981.92	Large/many rain events in September 2008
						11/10/08	981.67	35.53	981.67	
						12/03/08	981.66	35.54	981.66	
						01/09/09	981.97	35.23	981.97	
						02/09/09	982.05	35.15	982.05	
						03/13/09	982.45	34.75	982.45	
						04/03/09	982.83	34.37	982.83	
						05/08/09	983.18	34.02	983.18	
						06/26/09	983.58	33.62	983.58	
						07/28/09	983.19	34.01	983.19	
						08/25/09	982.80	34.40	982.80	
						09/25/09	982.42	34.78	982.42	
						10/28/09	982.12	35.08	982.12	
						11/24/09	982.05	35.15	982.05	
						12/16/09	981.92	35.28	981.92	
						01/13/10	981.91	35.29	981.91	
						02/18/10	981.70	35.50	981.70	
						03/11/10	981.69	35.51	981.69	
						04/21/10	982.05	35.15	982.05	
05/05/10	981.97	35.23	981.97							
06/25/10	982.82	34.38	982.82	Large/many rain events in June 2010						
07/22/10	982.70	34.50	982.70							
08/26/10	982.49	34.71	982.49							
09/24/10	982.14	35.06	982.14							
10/21/10	981.78	35.42	981.78							
11/18/10	981.47	35.73	981.47							
12/13/10	981.27	35.93	981.27							
01/11/11	981.20	36.00	981.20							
02/04/11	981.04	36.16	981.04							
03/11/11	981.24	35.96	981.24							
04/29/11	981.93	35.27	981.93							
05/25/11	982.52	34.68	982.52							
06/27/11	983.05	34.15	983.05							
07/22/11	982.64	34.56	982.64							
08/22/11	983.22	33.98	983.22							
09/30/11	982.83	34.37	982.83							
10/28/11	982.65	34.55	982.65							
11/23/11	982.47	34.73	982.47							
12/28/11	983.12	34.08	983.12							
01/27/12	983.19	34.01	983.19							
02/22/12	983.37	33.83	983.37							
03/26/12	983.31	33.89	983.31							
04/27/12	983.19	34.01	983.19							
05/30/12	982.93	34.27	982.93							
06/29/12	982.56	34.64	982.56							
07/26/12	982.10	35.10	982.10							
08/23/12	981.61	35.59	981.61							
09/28/12	981.09	36.11	981.09							
10/26/12	980.74	36.46	980.74							
11/29/12	980.59	36.61	980.59							
12/21/12	980.38	36.82	980.38							
01/28/13	980.46	36.74	980.46							
02/25/13	980.68	36.52	980.68							
03/26/13	980.83	36.37	980.83							
04/19/13	980.97	36.23	980.97							
05/23/13	981.66	35.54	981.66							
06/27/13	981.63	35.57	981.63							
MW-5 (continued)										



Table 1 - Groundwater and Surface Water Elevation Data - Part 301 Permit No. 12-38-0010-P

Aggregate Industries -- Chelsea Operations  
Waterloo Township, Jackson County, Michigan

Location	Coordinates		Well Depth (ft bgs)	Screen Depth (ft bgs)	Top of Casing (ft amsl)	Date	Surface Water Elevation (ft amsl)	Depth to Water (ft bgs)	Static Water Level Elevation (ft amsl)	Comments						
	Northing	Easting														
						07/26/13	35.82	35.82	981.38							
						08/29/13	36.13	36.13	981.07							
						09/20/13	36.30	36.30	980.90							
						10/22/13	36.58	36.58	980.62							
						11/27/13	36.74	36.74	980.46							
						12/19/13	36.87	36.87	980.33							
						01/29/14	36.68	36.68	980.52							
						02/25/14	36.72	36.72	980.48							
						03/20/14	36.18	36.18	981.02							
						04/29/14	35.64	35.64	981.56							
						05/30/14	35.51	35.51	981.69							
						06/20/14	35.41	35.41	981.79							
						07/17/14	35.57	35.57	981.63							
						08/28/14	35.93	35.93	981.27							
						09/23/14	36.11	36.11	981.09							
						10/30/14	36.28	36.28	980.92							
						11/25/14	36.50	36.50	980.70							
						12/29/14	36.61	36.61	980.59							
						01/07/15	36.67	36.67	980.53							
						02/16/15	36.60	36.60	980.60							
03/20/15	36.52	36.52	980.68													
04/24/15	36.31	36.31	980.89													
05/12/15	36.35	36.35	980.85													
06/11/15	36.27	36.27	980.93													
MW-6	N42.321778	W084.14391	116.85		1079.95	06/20/14	104.19	104.19	975.76	Installed May 2014						
						07/17/14	104.16	104.16	975.79							
						08/28/14	104.25	104.25	975.70							
						09/23/14	104.43	104.43	975.52							
						10/30/14	104.63	104.63	975.32							
						11/25/14	104.85	104.85	975.10							
						12/29/14	104.95	104.95	975.00							
						01/07/15	105.01	105.01	974.94							
						02/16/15	104.98	104.98	974.97							
						03/20/15	105.00	105.00	974.95							
						04/24/15	105.06	105.06	974.89							
						05/12/15	105.09	105.09	974.86							
						06/11/15	105.05	105.05	974.90							
						MW-7	N42.323694	W084.141108	117.12		1080.40	06/20/14	104.49	104.49	975.91	Installed May 2014
												07/17/14	104.44	104.44	975.96	
08/28/14	104.53	104.53	975.87													
09/23/14	104.73	104.73	975.67													
10/30/14	105.00	105.00	975.40													
11/25/14	105.21	105.21	975.19													
12/29/14	105.27	105.27	975.13													
01/07/15	105.31	105.31	975.09													
02/16/15	105.28	105.28	975.12													
03/20/15	105.30	105.30	975.10													
04/24/15	105.40	105.40	975.00													
05/12/15	105.49	105.49	974.91													
06/11/15	105.47	105.47	974.93													
AI Lake-SE	N42.32668	W084.13218										02/13/06	976.75			GPS accuracy 18 feet
AI Lake-N	N42.32744	W084.13376										02/13/06	976.24			GPS accuracy 21 feet
AI Lake-N (cont.)						10/26/06	974.83			Elevation Surveyed from MW-2						
AI Lake-W	N42.32587	W084.13441				08/24/07	976.60			Elevation Surveyed From BM-1						
Freshwater Lake*-W						09/13/07	976.27			AI Lake re-named Freshwater Lake per Part 301 permit						
						10/02/07	972.10									
						11/13/07	977.43									
						12/06/07	977.63									





Table 1 - Groundwater and Surface Water Elevation Data - Part 301 Permit No. 12-38-0010-P

Aggregate Industries -- Chelsea Operations  
 Waterloo Township, Jackson County, Michigan

Location	Coordinates		Well Depth (ft bgs)	Screen Depth (ft bgs)	Top of Casing (ft amsl)	Date	Surface Water Elevation (ft amsl)	Depth to Water (ft bgs)	Static Water Level Elevation (ft amsl)	Comments
	Northing	Easting								
Freshwater Lake*-W (cont.)						01/09/08	978.35	.....	.....	
						02/15/08	978.63	.....	.....	
						03/14/08	978.75	.....	.....	
						04/04/08	977.17	.....	.....	
						05/29/08	976.56	.....	.....	
						06/17/08	977.47	.....	.....	
						07/11/08	977.10	.....	.....	
						08/08/08	976.37	.....	.....	
						09/04/08	976.12	.....	.....	
						10/06/08	977.46	.....	.....	Large/many rain events in September 2008
						11/10/08	976.72	.....	.....	
						12/03/08	976.93	.....	.....	
						01/09/09	975.33	.....	.....	
						02/09/09	977.23	.....	.....	
						03/13/09	977.88	.....	.....	
						04/03/09	977.65	.....	.....	
						05/08/09	977.80	.....	.....	
						06/26/09	978.63	.....	.....	
						07/28/09	978.52	.....	.....	
						08/25/09	976.59	.....	.....	
						09/25/09	975.23	.....	.....	
						10/28/09	975.62	.....	.....	
						11/24/09	977.21	.....	.....	
						12/16/09	977.33	.....	.....	
						01/13/10	977.28	.....	.....	
						02/18/10	977.09	.....	.....	
						03/11/10	977.07	.....	.....	
						04/21/10	977.17	.....	.....	
						05/05/10	977.22	.....	.....	
						06/25/10	977.16	.....	.....	Large/many rain events in June 2010
						07/22/10	976.43	.....	.....	
						08/26/10	975.70	.....	.....	
						09/24/10	975.54	.....	.....	
						10/21/10	976.33	.....	.....	
						11/18/10	976.13	.....	.....	
						12/13/10	976.76	.....	.....	
						01/11/11	976.76	.....	.....	
						02/04/11	976.69	.....	.....	
						03/11/11	976.94	.....	.....	
						04/29/11	976.25	.....	.....	
						05/25/11	976.81	.....	.....	
						06/27/11	977.81	.....	.....	
					07/22/11	976.72	.....	.....		
					08/19/11	978.69	.....	.....		
					09/30/11	978.60	.....	.....		
					10/28/11	978.38	.....	.....		
					11/23/11	978.18	.....	.....		
					12/28/11	977.38	.....	.....		
					01/27/12	978.65	.....	.....		
					02/22/12	978.67	.....	.....		
					03/26/12	977.40	.....	.....	Pump on, but no water returning from sediment ponds	
					04/27/12	976.82	.....	.....		
					05/30/12	976.90	.....	.....		
					06/29/12	976.26	.....	.....		
					07/26/12	975.76	.....	.....		
					08/23/12	975.54	.....	.....		
					09/28/12	975.15	.....	.....		
					10/26/12	975.84	.....	.....		
					11/29/12	976.04	.....	.....		
					12/21/12	976.15	.....	.....		
					01/28/13	976.25	.....	.....		
					02/25/13	976.36	.....	.....		
					03/26/13	976.50	.....	.....		
					04/19/13	976.41	.....	.....		
					05/23/13	976.07	.....	.....		
					06/27/13	976.13	.....	.....		
					07/26/13	976.23	.....	.....		
					08/29/13	976.12	.....	.....		
					09/20/13	975.54	.....	.....		
					10/22/13	975.42	.....	.....		
					11/27/13	975.51	.....	.....		
					12/19/13	975.70	.....	.....		
					01/29/14	976.05	.....	.....		
					02/25/14	976.09	.....	.....		
					03/20/14	976.35	.....	.....		
					04/29/14	976.16	.....	.....		
					05/30/14	976.24	.....	.....		
					06/20/14	976.34	.....	.....		
					07/17/14	976.51	.....	.....		
					08/28/14	976.27	.....	.....		
					09/23/14	975.64	.....	.....		
					10/30/14	974.70	.....	.....		



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Aggregate Industries -- Chelsea Operations  
 Waterloo Township, Jackson County, Michigan

Location	Coordinates		Well Depth (ft bgs)	Screen Depth (ft bgs)	Top of Casing (ft amsl)	Date	Surface Water Elevation (ft amsl)	Depth to Water (ft bgs)	Static Water Level Elevation (ft amsl)	Comments
	Northing	Easting								
						11/25/14	975.22	.....	.....	
						12/29/14	975.67	.....	.....	
						01/07/15	975.72	.....	.....	
						02/16/15	975.92	.....	.....	
						03/20/15	975.59	.....	.....	
						04/24/15	974.77	.....	.....	
						05/12/15	973.46	.....	.....	
						06/11/15	974.00	.....	.....	
								.....	.....	
								.....	.....	
Pond Lily Lake	N42.31729	W084.14114				10/26/06	981.44	.....	.....	Elevation Surveyed from MW-3, GPS accuracy 19 ft
						08/24/07	982.63	.....	.....	Elevation Surveyed from BM-2
						09/13/07	982.50	.....	.....	
						10/02/07	982.44	.....	.....	
						11/13/07	982.02	.....	.....	
						12/06/07	982.19	.....	.....	
						01/09/08	982.57	.....	.....	
						02/15/08	982.97	.....	.....	
						03/14/08	983.16	.....	.....	
						04/04/08	983.34	.....	.....	
						05/29/08	982.82	.....	.....	
						06/17/08	982.82	.....	.....	
						07/11/08	982.78	.....	.....	
						08/08/08	982.37	.....	.....	
Pond Lily Lake (cont.)						09/04/08	981.98	.....	.....	
						10/06/08	982.25	.....	.....	Large/many rain events in September 2008
						11/10/08	982.05	.....	.....	
						12/03/08	982.08	.....	.....	
						01/09/09	982.30	.....	.....	
						02/09/09	982.28	.....	.....	
						03/13/09	982.71	.....	.....	
						04/03/09	982.74	.....	.....	
						05/08/09	982.89	.....	.....	
						06/26/09	983.25	.....	.....	
						07/28/09	982.80	.....	.....	
						08/25/09	982.56	.....	.....	
						09/25/09	982.35	.....	.....	
						10/28/09	982.43	.....	.....	
						11/24/09	982.28	.....	.....	
						12/16/09	982.33	.....	.....	
						01/13/10	982.24	.....	.....	
						02/18/10	982.10	.....	.....	
						03/11/10	982.12	.....	.....	
						04/21/10	982.03	.....	.....	
						05/05/10	982.02	.....	.....	
						06/25/10	982.64	.....	.....	Large/many rain events in June 2010
						07/22/10	982.54	.....	.....	
						08/26/10	982.37	.....	.....	
						09/24/10	982.08	.....	.....	
						10/21/10	981.78	.....	.....	
						11/18/10	981.58	.....	.....	
						12/13/10	981.64	.....	.....	
						01/11/11	981.56	.....	.....	
						02/04/11	981.65	.....	.....	
						03/11/11	981.73	.....	.....	
						04/29/11	982.27	.....	.....	
						05/25/11	982.48	.....	.....	
						06/27/11	982.55	.....	.....	
07/22/11	982.16	.....	.....							
08/19/11	983.09	.....	.....							
09/30/11	982.96	.....	.....							
10/28/11	982.85	.....	.....							
11/23/11	982.80	.....	.....							
12/28/11	983.16	.....	.....							
01/27/12	983.28	.....	.....							
02/22/12	983.22	.....	.....							
03/26/12	983.27	.....	.....							
04/27/12	983.08	.....	.....							
05/30/12	982.67	.....	.....							
06/29/12	982.43	.....	.....							
07/26/12	981.95	.....	.....							
08/23/12	981.66	.....	.....							
09/28/12	981.32	.....	.....							
10/26/12	981.31	.....	.....							
11/29/12	981.06	.....	.....							
Pond Lily Lake (cont.)										



Table 1 - Groundwater and Surface Water Elevation Data - Part 301 Permit No. 12-38-0010-P

Aggregate Industries -- Chelsea Operations  
 Waterloo Township, Jackson County, Michigan

Location	Coordinates		Well Depth (ft bgs)	Screen Depth (ft bgs)	Top of Casing (ft amsl)	Date	Surface Water Elevation (ft amsl)	Depth to Water (ft bgs)	Static Water Level Elevation (ft amsl)	Comments	
	Northing	Easting									
						12/21/12	981.10	.....	.....		
						01/28/13	981.06	.....	.....		
						02/25/13	981.18	.....	.....		
						03/26/13	981.28	.....	.....		
						04/19/13	981.55	.....	.....		
						05/23/13	981.37	.....	.....		
						06/27/13	981.37	.....	.....		
						07/26/13	981.12	.....	.....		
						08/29/13	981.03	.....	.....		
						09/20/13	980.70	.....	.....		
						10/22/13	980.59	.....	.....		
						11/27/13	980.60	.....	.....		
						12/19/13	980.60	.....	.....		
						01/29/14	980.99	.....	.....		
						02/25/14	980.95	.....	.....		
						03/20/14	981.21	.....	.....		
						04/29/14	981.12	.....	.....		
						05/30/14	981.20	.....	.....		
						06/20/14	981.13	.....	.....		
						07/17/14	981.21	.....	.....		
						08/28/14	981.02	.....	.....		
						09/23/14	980.99	.....	.....		
						10/30/14	980.85	.....	.....		
						11/25/14	980.89	.....	.....		
12/29/14	980.84	.....	.....								
01/07/15	980.84	.....	.....								
02/16/15	980.70	.....	.....								
03/20/15	980.78	.....	.....								
04/24/15	980.76	.....	.....								
05/12/15	980.79	.....	.....								
06/11/15	980.70	.....	.....								
Clear Lake	N42.33242	W084.15166				08/29/07	966.35	.....	.....	Elevation Surveyed from BM-3	
						09/13/07	966.20	.....	.....	Note: USGS Topo shows lake elevation at 968 ft amsl	
						10/02/07	966.13	.....	.....		
						11/13/07	966.22	.....	.....		
						12/06/07	966.41	.....	.....		
						01/09/08	966.49	.....	.....		
						02/15/08	966.33	.....	.....		
						03/14/08	966.26	.....	.....		
						04/04/08	966.35	.....	.....		
						05/29/08	966.15	.....	.....	Elevation Surveyed from BM-4	
						06/17/08	966.25	.....	.....		
						07/11/08	966.26	.....	.....		
	N42.33242	W084.15166					08/08/08	966.06	.....	.....	
							09/04/08	965.89	.....	.....	
							10/06/08	966.20	.....	.....	Large/many rain events in September 2008
							11/10/08	966.33	.....	.....	
							12/03/08	966.47	.....	.....	
							01/09/09	966.31	.....	.....	
							02/09/09	966.17	.....	.....	
							03/13/09	966.54	.....	.....	
							04/03/09	966.75	.....	.....	
							05/08/09	966.29	.....	.....	
							06/26/09	966.35	.....	.....	
							07/28/09	966.16	.....	.....	
08/25/09	966.18	.....	.....								
09/25/09	966.23	.....	.....								
10/28/09	966.39	.....	.....								
11/24/09	966.46	.....	.....								
12/16/09	966.35	.....	.....								
01/13/10	966.34	.....	.....								
02/18/10	966.32	.....	.....								
03/11/10	966.31	.....	.....								
04/21/10	966.21	.....	.....								
Clear Lake (cont.)						05/05/10	966.31	.....	.....		
						06/25/10	966.35	.....	.....	Large/many rain events in June 2010	
						07/22/10	966.28	.....	.....		
						08/26/10	966.14	.....	.....		
						09/24/10	966.02	.....	.....		
						10/21/10	965.93	.....	.....		
						11/18/10	965.94	.....	.....		
						12/13/10	966.18	.....	.....		
						01/11/11	966.29	.....	.....		



**Table 1 - Groundwater and Surface Water Elevation Data - Part 301 Permit No. 12-38-0010-P**

Aggregate Industries -- Chelsea Operations  
 Waterloo Township, Jackson County, Michigan

Location	Coordinates		Well Depth (ft bgs)	Screen Depth (ft bgs)	Top of Casing (ft amsl)	Date	Surface Water Elevation (ft amsl)	Depth to Water (ft bgs)	Static Water Level Elevation (ft amsl)	Comments
	Northing	Easting								
						02/04/11	966.36	.....	.....	
						03/11/11	966.54	.....	.....	
						04/29/11	966.50	.....	.....	
						05/25/11	966.57	.....	.....	
						06/27/11	966.22	.....	.....	
						07/22/11	966.09	.....	.....	
						08/19/11	966.31	.....	.....	
						09/30/11	966.32	.....	.....	
						10/28/11	966.30	.....	.....	
						11/23/11	966.50	.....	.....	
						12/28/11	966.35	.....	.....	
						01/27/12	966.39	.....	.....	
						02/22/12	966.30	.....	.....	
						03/26/12	966.32	.....	.....	
						04/27/12	966.20	.....	.....	
						05/30/12	966.06	.....	.....	
						06/29/12	966.08	.....	.....	
						07/26/12	965.76	.....	.....	
						08/23/12	965.69	.....	.....	
						09/28/12	965.53	.....	.....	
						10/26/12	965.73	.....	.....	
						11/26/12	965.74	.....	.....	
						12/21/12	965.93	.....	.....	
						01/28/13	966.22	.....	.....	
						02/25/13	966.40	.....	.....	
						03/26/13	966.62	.....	.....	
						04/19/13	966.62	.....	.....	
						05/23/13	966.15	.....	.....	
						06/27/13	966.24	.....	.....	
						07/26/13	966.04	.....	.....	
						08/29/13	966.10	.....	.....	
						09/20/13	965.91	.....	.....	
						10/22/13	965.90	.....	.....	
						11/27/13	966.05	.....	.....	
						12/19/13	966.13	.....	.....	
						01/29/14	966.30	.....	.....	
						02/25/14	966.31	.....	.....	
						03/20/14	966.33	.....	.....	
						04/29/14	966.29	.....	.....	
						05/30/14	966.10	.....	.....	
						06/20/14	966.28	.....	.....	
						07/17/14	966.19	.....	.....	
						08/28/14	966.21	.....	.....	
						09/23/14	966.16	.....	.....	
						10/30/14	966.13	.....	.....	
						11/25/14	966.21	.....	.....	
						12/29/14	966.33	.....	.....	
						01/07/15	966.34	.....	.....	
						02/16/15	966.32	.....	.....	
						03/20/15	966.27	.....	.....	
						04/24/15	966.24	.....	.....	
						05/12/15	966.30	.....	.....	
						06/11/15	966.33	.....	.....	
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Notes:  
 Wells are 2" PVC with 10 foot PVC screens (0.001-inch slot). Coarse filter pack to 2 ft above screen. Finished upright with steel covers and expanding well caps.  
 ASTI elevation survey to USGS Datum (2002) - reference: Hydrogeologic Investigation Report to Aggregate Industries Waterloo Township, Michigan dated September 25, 2002.  
 \*Freshwater Lake is the name of the created water body under Part 301 Permit No. 06-38-0043-P.