

APPENDIX A – Field Water Quality Data

Page	Row	Date and Time	SAMPLE LOCATION	Cl2 (f)	Cl2 (t)	Fe(t)	Fe (d)	Mn(t)	Mn (d)	pH	Temp
001		7/17/2017 14:30	04 MAHER WELL 3			0.080	0.030	0.141	0.126		
001		7/17/2017 14:30	04 MAHER WELL 3								
002		7/17/2017 14:30	05 POX A,B,C,D			0.050	0.030	0.025	0.050		
002		7/17/2017 14:30	05 POX A,B,C,D								
002		7/17/2017 14:30	21 FILTER A			0.040	0.030	0.013	0.036		
002		7/17/2017 14:30	21 FILTER A								
002		7/17/2017 14:30	22 FILTER B			0.040	0.040	0.015	0.068		
002		7/17/2017 14:30	22 FILTER B								
002		7/17/2017 14:30	23 FILTER C			0.040	0.030	0.024	0.064		
002		7/17/2017 14:30	23 FILTER C								
002		7/17/2017 14:30	24 FILTER D			0.040	0.020	0.014	0.034		
002		7/17/2017 14:30	24 FILTER D								
003		7/18/2017 11:45	04 MAHER WELL 3			0.060	0.050	0.107	0.109	5.44	
003		7/18/2017 11:45	04 MAHER WELL 3								
003		7/18/2017 11:45	05 POX A,B,C,D			0.050	0.020	0.085	0.067	6.63	
003		7/18/2017 11:45	05 POX A,B,C,D								
003		7/18/2017 11:45	21 FILTER A	1.28	1.44	0.030	0.020	0.000	0.014		
003		7/18/2017 11:45	21 FILTER A								
003		7/18/2017 11:45	22 FILTER B	1.57	1.47	0.030	0.040	0.002	0.015		
003		7/18/2017 11:45	22 FILTER B								
003		7/18/2017 11:45	23 FILTER C	0.88	1.33	0.030	0.030	0.000	0.019		
003		7/18/2017 11:45	23 FILTER C								
003		7/18/2017 11:45	24 FILTER D	1.21	1.43	0.050	0.020	0.000	0.017		
003		7/18/2017 11:45	24 FILTER D								
004		7/18/2017 13:15	04 MAHER WELL 3							5.55	
005	21	7/19/2017 10:00	05 POX A,B,C,D	6.25							
005	22	7/19/2017 10:00	21 FILTER A	4.78							
005	23	7/19/2017 10:00	22 FILTER B	5							
005	24	7/19/2017 10:00	23 FILTER C	51							
005	25	7/19/2017 10:00	24 FILTER D	3.78							

Page	Row	Date and Time	SAMPLE LOCATION	Cl2 (f)	Cl2 (t)	Fe(t)	Fe (d)	Mn(t)	Mn (d)	pH	Temp
007	16	7/19/2017 14:00	23 FILTER C	0.9	1.11	0.080		0.079		7.28	
007	16	7/19/2017 14:00	23 FILTER C							7.29	
007	17	7/19/2017 14:00	24 FILTER D	0.85	0.88	0.050		0.103		7.27	
007	17	7/19/2017 14:00	24 FILTER D							7.25	
009	02	7/19/2017 19:00	21 FILTER A			0.040		0.029			
009	03	7/19/2017 19:00	22 FILTER B			0.010		0.011			
009	04	7/19/2017 23:00	21 FILTER A			0.030		0.027			
009	05	7/19/2017 23:00	22 FILTER B			0.020		0.000			
009	06	7/20/2017 3:00	21 FILTER A			0.030		0.002			
009	07	7/20/2017 3:00	22 FILTER B			0.010		0.000			
008	06	7/20/2017 8:30	02 MAHER WELL 1			0.410	0.430	0.121	0.119	5.97	
008	06	7/20/2017 8:30	02 MAHER WELL 1							5.85	
008	07	7/20/2017 8:30	04 MAHER WELL 3			0.040	0.040	0.134	0.135		
008	07	7/20/2017 8:30	04 MAHER WELL 3								
008	11	7/20/2017 8:50	05 POX A,B,C,D								
008	12	7/20/2017 8:50	21 FILTER A	0.55	0.85	0.030		0.007		6.08	
008	12	7/20/2017 8:50	21 FILTER A							6.04	
008	13	7/20/2017 8:50	22 FILTER B	0.48	0.67	0.030		0.001		6.08	
008	13	7/20/2017 8:50	22 FILTER B							6.07	
008	14	7/20/2017 8:50	23 FILTER C	0.63	0.8	0.040		0.015		6.07	
008	14	7/20/2017 8:50	23 FILTER C							6.08	
008	15	7/20/2017 8:50	24 FILTER D	0.58	0.68	0.060		0.018		6.13	
008	15	7/20/2017 8:50	24 FILTER D							6.15	
008	10	7/20/2017 8:50	05 POX A,B,C,D	1.25	0.94	0.200	0.040	0.090	0.064		
009	11	7/20/2017 14:20	05 POX A,B,C,D							6.14	
009	13	7/20/2017 14:20	21 FILTER A	0.83	0.76	0.030		0.002		6.20	
009	13	7/20/2017 14:20	21 FILTER A							6.16	
009	14	7/20/2017 14:20	22 FILTER B	0.49	0.58	0.030		0.009		6.32	
009	14	7/20/2017 14:20	22 FILTER B							6.25	
009	15	7/20/2017 14:20	23 FILTER C	0.65	66	0.030		0.005		6.29	

Page	Row	Date and Time	SAMPLE LOCATION	Cl2 (f)	Cl2 (t)	Fe(t)	Fe (d)	Mn(t)	Mn (d)	pH	Temp
009	15	7/20/2017 14:20	23 FILTER C							6.19	
009	16	7/20/2017 14:20	24 FILTER D	0.42	0.53	0.030		0.001			
009	16	7/20/2017 14:20	24 FILTER D								
009	10	7/20/2017 14:20	01 RAW BLEND			0.250		0.108			
009	11	7/20/2017 14:20	05 POX A,B,C,D	0.96	0.92	0.180	0.040	0.100	0.080	6.24	
009	22	7/20/2017 19:00	21 FILTER A			0.020		0.010			
009	23	7/20/2017 19:00	22 FILTER B			0.020		0.005			
009	24	7/20/2017 23:00	21 FILTER A			0.010		0.005			
009	25	7/20/2017 23:00	22 FILTER B			0.010		0.010			
010	01	7/21/2017 3:00	21 FILTER A			0.010		0.004			
010	02	7/21/2017 3:00	22 FILTER B			0.010		0.007			
010	07	7/21/2017 8:15	01 RAW BLEND			0.110		0.097		5.75	
010	07	7/21/2017 8:15	01 RAW BLEND							5.63	
010	08	7/21/2017 8:15	02 MAHER WELL 1			0.200		0.075			
010	09	7/21/2017 8:15	04 MAHER WELL 3			0.070		0.091			
010	10	7/21/2017 8:15	05 POX A,B,C,D	0.49	0.74	0.080	0.030	0.073	0.064	6.70	
010	10	7/21/2017 8:15	05 POX A,B,C,D							6.66	
010	11	7/21/2017 8:15	21 FILTER A	0.37	0.56	0.020		0.001		6.61	
010	11	7/21/2017 8:15	21 FILTER A							6.50	
010	12	7/21/2017 8:15	22 FILTER B	0.35	0.45	0.020		0.008		6.57	
010	12	7/21/2017 8:15	22 FILTER B							6.50	
010	13	7/21/2017 8:15	23 FILTER C	0.32	0.49	0.020		0.007		6.59	
010	13	7/21/2017 8:15	23 FILTER C							6.52	
010	14	7/21/2017 8:15	24 FILTER D	0.3	0.4	0.020		0.004		6.60	
010	14	7/21/2017 8:15	24 FILTER D							6.60	
010	19	7/21/2017 10:15	01 RAW BLEND			0.110		0.026		5.71	
010	19	7/21/2017 10:15	01 RAW BLEND							5.62	
010	20	7/21/2017 10:15	05 POX A,B,C,D	0.73	0.53	0.160	0.110	0.058	0.056	6.79	
010	20	7/21/2017 10:15	05 POX A,B,C,D							6.81	
010	22	7/21/2017 10:15	21 FILTER A	0.69	0.58	0.030		0.000		6.76	

Page	Row	Date and Time	SAMPLE LOCATION	Cl2 (f)	Cl2 (t)	Fe(t)	Fe (d)	Mn(t)	Mn (d)	pH	Temp
010	22	7/21/2017 10:15	21 FILTER A							6.70	
010	23	7/21/2017 10:15	22 FILTER B	0.47	0.5	0.020		0.000		6.77	
010	23	7/21/2017 10:15	22 FILTER B							6.65	
010	24	7/21/2017 10:15	23 FILTER C	0.42	0.45	0.030		0.000		6.74	
010	24	7/21/2017 10:15	23 FILTER C							6.66	
010	25	7/21/2017 10:15	24 FILTER D	0.44	0.45	0.020		0.000		7.76	
010	25	7/21/2017 10:15	24 FILTER D							6.70	
011	02	7/21/2017 12:15	21 FILTER A			0.020		0.000		6.80	
011	02	7/21/2017 12:15	21 FILTER A							6.70	
011	03	7/21/2017 12:15	22 FILTER B			0.020		0.002		6.74	
011	03	7/21/2017 12:15	22 FILTER B							6.66	
011	04	7/21/2017 12:15	23 FILTER C			0.020		0.001		6.78	
011	04	7/21/2017 12:15	23 FILTER C							6.66	
011	05	7/21/2017 12:15	24 FILTER D			0.020		0.003		6.68	
011	05	7/21/2017 12:15	24 FILTER D							6.66	
011	01	7/21/2017 12:15	01 RAW BLEND			0.160		0.028		5.65	
011	01	7/21/2017 12:15	01 RAW BLEND							5.57	
012	09	7/24/2017 10:50	01 RAW BLEND			0.040		0.140		6.05	
012	09	7/24/2017 10:50	01 RAW BLEND							5.75	
012	10	7/24/2017 10:50	05 POX A,B,C,D	0.79	0.92	0.030	0.020	0.111	0.078	6.68	
012	10	7/24/2017 10:50	05 POX A,B,C,D							6.63	
012	12	7/24/2017 10:50	21 FILTER A	0.61	0.75	0.020		0.033		6.75	
012	12	7/24/2017 10:50	21 FILTER A							6.69	
012	13	7/24/2017 10:50	22 FILTER B	0.5	0.54	0.010		0.035		6.79	
012	13	7/24/2017 10:50	22 FILTER B							6.69	
012	14	7/24/2017 10:50	23 FILTER C	0.49	0.53	0.020		0.033		6.79	
012	14	7/24/2017 10:50	23 FILTER C							6.69	
012	15	7/24/2017 10:50	24 FILTER D	0.42	0.53	0.010		0.039		6.80	
012	15	7/24/2017 10:50	24 FILTER D							6.70	
012	18	7/24/2017 13:00	05 POX A,B,C,D	0.61	0.74	0.020	0.030	0.063	0.064	6.76	

Page	Row	Date and Time	SAMPLE LOCATION	Cl2 (f)	Cl2 (t)	Fe(t)	Fe (d)	Mn(t)	Mn (d)	pH	Temp
012	18	7/24/2017 13:00	05 POX A,B,C,D							6.70	
012	19	7/24/2017 13:00	21 FILTER A	0.48	0.59	0.020		0.000		6.85	
012	19	7/24/2017 13:00	21 FILTER A							6.78	
012	20	7/24/2017 13:00	22 FILTER B	0.32	0.52	0.000		0.000		6.83	
012	20	7/24/2017 13:00	22 FILTER B							6.76	
012	21	7/24/2017 13:00	23 FILTER C	0.41	0.5	0.020		0.000		6.86	
012	21	7/24/2017 13:00	23 FILTER C							6.78	
012	22	7/24/2017 13:00	24 FILTER D	0.37	0.43	0.000		0.000		6.86	
012	22	7/24/2017 13:00	24 FILTER D							6.77	
012	17	7/24/2017 13:00	01 RAW BLEND			0.050		0.103		5.96	
012	17	7/24/2017 13:00	01 RAW BLEND							5.74	
013	02	7/24/2017 14:30	05 POX A,B,C,D	0.7	0.83	0.030	0.020	0.072	0.062	6.88	
013	02	7/24/2017 14:30	05 POX A,B,C,D							7.07	
013	03	7/24/2017 14:30	21 FILTER A	0.38	0.63	0.010		0.016		6.88	
013	03	7/24/2017 14:30	21 FILTER A							6.94	
013	04	7/24/2017 14:30	22 FILTER B	0.43	0.54	0.010		0.009		6.89	
013	04	7/24/2017 14:30	22 FILTER B							6.94	
013	05	7/24/2017 14:30	23 FILTER C	0.3	0.52	0.000		0.002		6.87	
013	05	7/24/2017 14:30	23 FILTER C							6.95	
013	06	7/24/2017 14:30	24 FILTER D	0.36	0.44	0.100		0.009		6.79	
013	06	7/24/2017 14:30	24 FILTER D							6.90	
013	01	7/24/2017 14:30	01 RAW BLEND			0.400		0.102		6.09	
013	01	7/24/2017 14:30	01 RAW BLEND							5.79	
013	12	7/24/2017 17:00	21 FILTER A			0.020		0.031			
013	13	7/24/2017 17:00	22 FILTER B			0.010		0.026			
013	14	7/24/2017 19:00	21 FILTER A			0.000		0.018			
013	15	7/24/2017 19:00	22 FILTER B			0.02		0.029			
013	21	7/25/2017 10:15	01 RAW BLEND			0.020		0.110		5.77	
013	21	7/25/2017 10:15	01 RAW BLEND							5.54	
013	22	7/25/2017 10:15	05 POX A,B,C,D	0.63	0.99	0.020	0.02	0.070	0.057	6.52	

Page	Row	Date and Time	SAMPLE LOCATION	Cl2 (f)	Cl2 (t)	Fe(t)	Fe (d)	Mn(t)	Mn (d)	pH	Temp
013	22	7/25/2017 10:15	05 POX A,B,C,D							6.55	
013	23	7/25/2017 10:15	21 FILTER A	0.53	0.7	0.000		0.000		6.65	
013	23	7/25/2017 10:15	21 FILTER A							6.70	
013	24	7/25/2017 10:15	22 FILTER B	0.34	0.53	0.010		0.000		6.67	
013	24	7/25/2017 10:15	22 FILTER B							6.72	
013	25	7/25/2017 10:15	23 FILTER C	0.43	0.5	0.000		0.000		6.67	
013	25	7/25/2017 10:15	23 FILTER C							6.73	
014	01	7/25/2017 10:15	24 FILTER D	0.43	0.5	0.000		0.002		6.77	
014	01	7/25/2017 10:15	24 FILTER D							6.75	
014	08	7/25/2017 13:00	05 POX A,B,C,D	0.62	0.85	0.020	0.010	0.550	0.053	6.75	
014	08	7/25/2017 13:00	05 POX A,B,C,D							6.74	
014	09	7/25/2017 13:00	21 FILTER A	0.44	0.67	0.010		0.004		6.66	
014	09	7/25/2017 13:00	21 FILTER A							6.76	
014	10	7/25/2017 13:00	22 FILTER B	0.35	0.53	0.010		0.009		6.79	
014	10	7/25/2017 13:00	22 FILTER B							6.79	
014	11	7/25/2017 13:00	23 FILTER C	0.43	0.5	0.000		0.010		6.79	
014	11	7/25/2017 13:00	23 FILTER C							6.81	
014	12	7/25/2017 13:00	24 FILTER D	0.27	0.43	0.010		0.002		6.80	
014	12	7/25/2017 13:00	24 FILTER D							6.82	
014	07	7/25/2017 13:00	01 RAW BLEND			0.020		0.094		5.86	
014	07	7/25/2017 13:00	01 RAW BLEND							5.61	
015	02	7/26/2017 10:20	02 MAHER WELL 1			0.170		0.135		5.87	
015	02	7/26/2017 10:20	02 MAHER WELL 1							5.80	
015	03	7/26/2017 10:20	04 MAHER WELL 3			0.020		0.108		5.66	
015	03	7/26/2017 10:20	04 MAHER WELL 3							5.58	
015	08	7/26/2017 10:20	05 POX A,B,C,D	0.76	0.83	0.100	0.030	0.076	0.046	6.76	
015	08	7/26/2017 10:20	05 POX A,B,C,D							6.78	
015	04	7/26/2017 10:20	21 FILTER A	0.44	0.7	0.020		0.004		6.58	
015	04	7/26/2017 10:20	21 FILTER A							6.69	
015	05	7/26/2017 10:20	22 FILTER B	0.31	0.54	0.020		0.000		6.65	

Page	Row	Date and Time	SAMPLE LOCATION	Cl2 (f)	Cl2 (t)	Fe(t)	Fe (d)	Mn(t)	Mn (d)	pH	Temp
015	05	7/26/2017 10:20	22 FILTER B							6.72	
015	06	7/26/2017 10:20	23 FILTER C	0.37	0.51	0.030		0.000		6.67	
015	06	7/26/2017 10:20	23 FILTER C							6.75	
015	07	7/26/2017 10:20	24 FILTER D	0.37	0.5	0.000		0.001		6.65	
015	07	7/26/2017 10:20	24 FILTER D							6.71	
015	01	7/26/2017 10:20	01 RAW BLEND			0.080		0.090		5.98	
015	01	7/26/2017 10:20	01 RAW BLEND							5.92	
015	11	7/26/2017 13:00	05 POX A,B,C,D	0.43	0.83	0.100	0.030	0.067	0.037	6.65	
015	11	7/26/2017 13:00	05 POX A,B,C,D							6.74	
015	12	7/26/2017 13:00	21 FILTER A	0.49	0.66	0.010		0.009		6.77	
015	12	7/26/2017 13:00	21 FILTER A							6.77	
015	13	7/26/2017 13:00	22 FILTER B	0.45	0.51	0.000		0.014		6.74	
015	13	7/26/2017 13:00	22 FILTER B							6.78	
015	14	7/26/2017 13:00	23 FILTER C	0.39	0.5	0.040		0.000		6.76	
015	14	7/26/2017 13:00	23 FILTER C							6.79	
015	15	7/26/2017 13:00	24 FILTER D	0.25	0.44	0.040		0.000		6.78	
015	15	7/26/2017 13:00	24 FILTER D							6.81	
015	10	7/26/2017 13:00	01 RAW BLEND			0.110		0.074		5.91	
015	10	7/26/2017 13:00	01 RAW BLEND							5.82	
016	10	7/26/2017 18:00	21 FILTER A			0.000		0.000			
016	11	7/26/2017 18:00	22 FILTER B			0.010		0.005			
016	12	7/27/2017 0:00	21 FILTER A			0.020		0.016			
016	13	7/27/2017 0:00	22 FILTER B			0.010		0.020			
016	14	7/27/2017 6:00	21 FILTER A			0.020		0.022			
016	15	7/27/2017 6:00	22 FILTER B			0.010		0.017			
015	20	7/27/2017 8:15	01 RAW BLEND			0.010		0.079		5.68	
015	20	7/27/2017 8:15	01 RAW BLEND							5.62	
015	21	7/27/2017 8:15	05 POX A,B,C,D	0.55	0.82	0.020	0.030	0.060	0.059	6.80	
015	21	7/27/2017 8:15	05 POX A,B,C,D							6.79	
015	22	7/27/2017 8:15	21 FILTER A	0.4	0.69	0.000		0.004		6.48	

Page	Row	Date and Time	SAMPLE LOCATION	Cl2 (f)	Cl2 (t)	Fe(t)	Fe (d)	Mn(t)	Mn (d)	pH	Temp
015	22	7/27/2017 8:15	21 FILTER A							6.67	
015	23	7/27/2017 8:15	22 FILTER B	0.35	0.53	0.010		0.000		6.59	
015	23	7/27/2017 8:15	22 FILTER B							6.60	
015	24	7/27/2017 8:15	23 FILTER C	0.31	0.52	0.010		0.001		6.65	
015	24	7/27/2017 8:15	23 FILTER C							6.65	
015	25	7/27/2017 8:15	24 FILTER D	0.31	0.48	0.010		0.000		6.72	
015	25	7/27/2017 8:15	24 FILTER D							6.73	
017	01	7/27/2017 12:30	05 POX A,B,C,D	0.83	0.93						
017	02	7/27/2017 12:30	21 FILTER A	0.79	0.79						
017	03	7/27/2017 12:30	22 FILTER B	0.66	0.6						
017	04	7/27/2017 12:30	23 FILTER C	0.43	0.61						
017	05	7/27/2017 12:30	24 FILTER D	0.49	0.49						
017	07	7/27/2017 13:15	01 RAW BLEND			0.090		0.095		5.67	
017	07	7/27/2017 13:15	01 RAW BLEND							5.70	
017	08	7/27/2017 13:15	02 MAHER WELL 1			0.160		0.076		5.75	
017	08	7/27/2017 13:15	02 MAHER WELL 1							5.72	
017	09	7/27/2017 13:15	04 MAHER WELL 3			0.020		0.091		5.68	
017	09	7/27/2017 13:15	04 MAHER WELL 3							5.62	
017	10	7/27/2017 13:15	05 POX A,B,C,D	0.74	0.9	0.090	0.040	0.061	0.051	6.70	
017	10	7/27/2017 13:15	05 POX A,B,C,D							6.72	
017	11	7/27/2017 13:15	21 FILTER A	0.59	0.76	0.020		0.004		6.75	
017	11	7/27/2017 13:15	21 FILTER A							6.83	
017	12	7/27/2017 13:15	22 FILTER B	0.51	0.56	0.010		0.007		6.74	
017	12	7/27/2017 13:15	22 FILTER B							6.75	
017	13	7/27/2017 13:15	23 FILTER C	0.5	0.58	0.000		0.003		6.75	
017	13	7/27/2017 13:15	23 FILTER C							6.76	
017	14	7/27/2017 13:15	24 FILTER D	0.41	0.46	0.030		0.000		6.76	
017	14	7/27/2017 13:15	24 FILTER D							6.74	
018	03	7/27/2017 18:00	21 FILTER A			0.020		0.008			
018	04	7/27/2017 18:00	22 FILTER B			0.010		0.000			

Page	Row	Date and Time	SAMPLE LOCATION	Cl2 (f)	Cl2 (t)	Fe(t)	Fe (d)	Mn(t)	Mn (d)	pH	Temp
018	16	7/28/2017 13:00	01 RAW BLEND			0.070		0.094		5.79	
018	16	7/28/2017 13:00	01 RAW BLEND							5.60	
019	02	7/28/2017 17:00	21 FILTER A			0.020		0.000			
019	03	7/28/2017 17:00	22 FILTER B			0.010		0.009			
019	04	7/28/2017 23:00	21 FILTER A			0.030		0.001			
019	05	7/28/2017 23:00	22 FILTER B			0.010		0.017			
019	06	7/29/2017 5:00	21 FILTER A			0.020		0.007			
019	07	7/29/2017 5:00	22 FILTER B			0.010		0.031			
019	08	7/29/2017 11:00	21 FILTER A			0.020		0.000			
019	09	7/29/2017 11:00	22 FILTER B			0.000		0.022			
019	10	7/29/2017 17:00	21 FILTER A			0.020		0.014			
019	11	7/29/2017 17:00	22 FILTER B			0.000		0.012			
019	12	7/29/2017 23:00	21 FILTER A			0.010		0.001			
019	13	7/29/2017 23:00	22 FILTER B			0.010		0.004			
019	14	7/30/2017 5:00	21 FILTER A			0.040		0.000			
019	15	7/30/2017 5:00	22 FILTER B			0.010		0.020			
019	16	7/30/2017 11:00	21 FILTER A			0.010		0.000			
019	17	7/30/2017 11:00	22 FILTER B			0.010		0.030			
019	18	7/30/2017 17:00	21 FILTER A			0.010		0.010			
019	19	7/30/2017 17:00	22 FILTER B			0.010		0.000			
019	20	7/30/2017 23:00	21 FILTER A			0.020		0.007			
019	21	7/30/2017 23:00	22 FILTER B			0.010		0.000			
019	22	7/31/2017 5:00	21 FILTER A			0.020		0.015			
019	23	7/31/2017 5:00	22 FILTER B			0.01		0.0			
020	01	7/31/2017 9:30	01 RAW BLEND			0.340		0.097		5.80	
020	01	7/31/2017 9:30	01 RAW BLEND							5.64	
021	13	7/31/2017 9:30	01 RAW BLEND			0.390		0.125			
020	02	7/31/2017 9:30	05 POX A,B,C,D	1.03	1.31	0.060	0.100	0.127	0.770	6.67	
020	02	7/31/2017 9:30	05 POX A,B,C,D							6.66	
021	14	7/31/2017 9:30	05 POX A,B,C,D	1.32		0.120		0.108			

Page	Row	Date and Time	SAMPLE LOCATION	Cl2 (f)	Cl2 (t)	Fe(t)	Fe (d)	Mn(t)	Mn (d)	pH	Temp
020	03	7/31/2017 9:30	21 FILTER A	0.86	1.11	0.020		0.025		6.32	
020	03	7/31/2017 9:30	21 FILTER A							6.31	
021	15	7/31/2017 9:30	21 FILTER A			0.120		0.049			
020	04	7/31/2017 9:30	22 FILTER B	0.69	0.91	0.030		0.029		6.49	
020	04	7/31/2017 9:30	22 FILTER B							6.48	
021	16	7/31/2017 9:30	22 FILTER B			0.100		0.048			
020	05	7/31/2017 9:30	23 FILTER C	0.71	0.85	0.030		0.034		6.55	
020	05	7/31/2017 9:30	23 FILTER C							6.51	
021	17	7/31/2017 9:30	23 FILTER C			0.050		0.033			
020	06	7/31/2017 9:30	24 FILTER D	0.59	0.68	0.010		0.014		6.61	
020	06	7/31/2017 9:30	24 FILTER D							6.55	
021	18	7/31/2017 9:30	24 FILTER D			0.040		0.038			
021	09	7/31/2017 16:00	01 RAW BLEND				0.340		0.101		
021	21	7/31/2017 17:00	21 FILTER A			0.040		0.029			
021	22	7/31/2017 17:00	23 FILTER C			0.040		0.006			
021	23	7/31/2017 23:00	21 FILTER A			0.060		0.019			
021	24	7/31/2017 23:00	23 FILTER C			0.070		0.013			
021	25	8/1/2017 5:00	21 FILTER A			0.040		0.000			
021	26	8/1/2017 5:00	23 FILTER C			0.060		0.009			
022	02	8/1/2017 8:30	05 POX A,B,C,D	1.22	1.48	0.070	0.010	0.253	0.034	6.57	14.8
022	02	8/1/2017 8:30	05 POX A,B,C,D							6.68	14.7
022	03	8/1/2017 8:30	21 FILTER A	1.04	1.3	0.000		0.000		6.67	15.0
022	03	8/1/2017 8:30	21 FILTER A							6.82	15.0
022	04	8/1/2017 8:30	22 FILTER B	0.94	1.31	0.010		0.003		6.66	15.1
022	04	8/1/2017 8:30	22 FILTER B							6.64	15.0
022	05	8/1/2017 8:30	23 FILTER C	0.65	0.81	0.000		0.026		6.63	14.8
022	05	8/1/2017 8:30	23 FILTER C							6.62	14.7
022	06	8/1/2017 8:30	24 FILTER D	0.8	0.83	0.000		0.038		6.65	14.9
022	06	8/1/2017 8:30	24 FILTER D							6.64	14.8
022	01	8/1/2017 8:30	01 RAW BLEND			0.070		0.081		5.79	15.0

Page	Row	Date and Time	SAMPLE LOCATION	Cl2 (f)	Cl2 (t)	Fe(t)	Fe (d)	Mn(t)	Mn (d)	pH	Temp
022	01	8/1/2017 8:30	01 RAW BLEND							5.81	14.9
022	15	8/1/2017 9:05	02 MAHER WELL 1			0.080		0.048			
022	16	8/1/2017 9:05	03 MAHER WELL 2			0.100		0.161			
023	12	8/1/2017 14:30	01 RAW BLEND							5.67	15.1
023	12	8/1/2017 14:30	01 RAW BLEND							5.86	15.0
023	13	8/1/2017 14:30	05 POX A,B,C,D	1.06	1.16					6.47	
023	13	8/1/2017 14:30	05 POX A,B,C,D							6.63	
023	14	8/1/2017 14:30	21 FILTER A	1	0.99						
023	15	8/1/2017 14:30	22 FILTER B	1.17	1						
023	16	8/1/2017 14:30	23 FILTER C	0.75	0.59						
023	17	8/1/2017 14:30	24 FILTER D	0.74	0.62						
024	11	8/1/2017 17:00	21 FILTER A			0.040		0.003			
024	12	8/1/2017 17:00	23 FILTER C			0.050		0.000			
024	13	8/1/2017 23:00	21 FILTER A			0.050		0.002			
024	14	8/1/2017 23:00	23 FILTER C			0.050		0.000			
024	15	8/2/2017 5:00	21 FILTER A			0.060		0.004			
024	16	8/2/2017 5:00	23 FILTER C			0.050		0.000			
024	18	8/2/2017 8:15	01 RAW BLEND			0.160		0.040		5.86	14.9
024	18	8/2/2017 8:15	01 RAW BLEND							5.86	14.9
024	19	8/2/2017 8:15	05 POX A,B,C,D	0.6	0.86	0.130	0.100	0.056	0.041	6.72	
024	19	8/2/2017 8:15	05 POX A,B,C,D							6.71	
024	20	8/2/2017 8:15	21 FILTER A	0.55	0.75	0.050		0.001		6.71	
024	20	8/2/2017 8:15	21 FILTER A							6.80	
024	21	8/2/2017 8:15	22 FILTER B	0.44	0.79	0.040		0.000		6.72	
024	21	8/2/2017 8:15	22 FILTER B							6.68	
024	22	8/2/2017 8:15	23 FILTER C	0.41	0.43	0.050		0.019		6.70	
024	22	8/2/2017 8:15	23 FILTER C							6.78	
024	23	8/2/2017 8:15	24 FILTER D	0.4	0.45	0.030		0.022		6.71	
024	23	8/2/2017 8:15	24 FILTER D							6.69	
025	17	8/2/2017 10:30	01 RAW BLEND			0.140		0.045			

Page	Row	Date and Time	SAMPLE LOCATION	Cl2 (f)	Cl2 (t)	Fe(t)	Fe (d)	Mn(t)	Mn (d)	pH	Temp
025	14	8/2/2017 10:30	02 MAHER WELL 1			0.160		0.095			
025	15	8/2/2017 10:30	03 MAHER WELL 2			0.120		0.050			
025	16	8/2/2017 10:30	05 POX A,B,C,D	0.81	0.87	0.120		0.031			
025	18	8/2/2017 10:30	21 FILTER A			0.070		0.007			
025	19	8/2/2017 10:30	22 FILTER B			0.080		0.009			
025	20	8/2/2017 10:30	23 FILTER C			0.080		0.015			
025	21	8/2/2017 10:30	24 FILTER D			0.070		0.016			
026	01	8/2/2017 13:15	01 RAW BLEND			0.080		0.045		5.69	14.5
026	01	8/2/2017 13:15	01 RAW BLEND							5.78	14.4
026	02	8/2/2017 13:15	05 POX A,B,C,D	0.57	0.74	0.110		0.046	0.040	6.45	
026	02	8/2/2017 13:15	05 POX A,B,C,D							6.71	
026	03	8/2/2017 13:15	21 FILTER A	0.33	0.53	0.040		0.000		6.50	
026	03	8/2/2017 13:15	21 FILTER A							6.77	
026	04	8/2/2017 13:15	22 FILTER B	0.52	0.59	0.040		0.001		6.60	
026	04	8/2/2017 13:15	22 FILTER B							6.78	
026	05	8/2/2017 13:15	23 FILTER C	0.48	0.52	0.040		0.001		6.60	
026	05	8/2/2017 13:15	23 FILTER C							6.71	
026	06	8/2/2017 13:15	24 FILTER D	0.4	0.47	0.030		0.000		6.63	
026	06	8/2/2017 13:15	24 FILTER D							6.81	
026	15	8/2/2017 17:00	21 FILTER A			0.030		0.000			
026	16	8/2/2017 17:00	23 FILTER C			0.050		0.005			
026	17	8/2/2017 23:00	21 FILTER A			0.050		0.003			
026	18	8/2/2017 23:00	23 FILTER C			0.070		0.000			
026	20	8/3/2017 5:00	21 FILTER A			0.080		0.005			
026	21	8/3/2017 5:00	23 FILTER C			0.080		0.000			
027	01	8/3/2017 8:00	01 RAW BLEND			0.040		0.035		5.97	14.2
027	01	8/3/2017 8:00	01 RAW BLEND							5.76	14.1
027	02	8/3/2017 8:00	05 POX A,B,C,D	0.6	0.81	0.030	0.020	0.040	0.034	6.76	
027	02	8/3/2017 8:00	05 POX A,B,C,D							6.85	
027	03	8/3/2017 8:00	21 FILTER A	0.59	0.71	0.000		0.008		6.79	

Page	Row	Date and Time	SAMPLE LOCATION	Cl2 (f)	Cl2 (t)	Fe(t)	Fe (d)	Mn(t)	Mn (d)	pH	Temp
027	03	8/3/2017 8:00	21 FILTER A							6.83	
027	04	8/3/2017 8:00	22 FILTER B	0.45	0.64	0.000		0.007		6.80	
027	04	8/3/2017 8:00	22 FILTER B							6.80	
027	05	8/3/2017 8:00	23 FILTER C	0.13	0.41	0.020		0.001		6.79	
027	05	8/3/2017 8:00	23 FILTER C							6.82	
027	06	8/3/2017 8:00	24 FILTER D	0.29	342	0.000		0.004		6.84	
027	06	8/3/2017 8:00	24 FILTER D							6.67	
027	16	8/3/2017 9:15	05 POX A,B,C,D	0.79	1.05						
028	03	8/3/2017 12:00	01 RAW BLEND			0.180		0.043			
028	01	8/3/2017 12:00	02 MAHER WELL 1			0.180		0.041			
028	02	8/3/2017 12:00	03 MAHER WELL 2			0.190		0.025			
028	04	8/3/2017 12:00	05 POX A,B,C,D			0.110		0.053			
028	05	8/3/2017 12:00	21 FILTER A			0.070		0.002			
028	06	8/3/2017 12:00	22 FILTER B			0.080		0.008			
028	07	8/3/2017 12:00	23 FILTER C			0.080		0.011			
028	08	8/3/2017 12:00	24 FILTER D			0.080		0.005			
028	14	8/3/2017 13:30	01 RAW BLEND			0.080		0.032		6.02	14.6
028	14	8/3/2017 13:30	01 RAW BLEND							5.85	14.5
028	15	8/3/2017 13:30	05 POX A,B,C,D	2.02	2.42	0.080	0.070	0.112	0.070	6.70	
028	15	8/3/2017 13:30	05 POX A,B,C,D							6.88	
028	16	8/3/2017 13:30	21 FILTER A	1.64	1.8	0.030		0.007		6.83	
028	16	8/3/2017 13:30	21 FILTER A							6.86	
028	17	8/3/2017 13:30	22 FILTER B	1.65	1.9	0.030		0.009		6.85	
028	17	8/3/2017 13:30	22 FILTER B							6.80	
028	18	8/3/2017 13:30	23 FILTER C	1.07	1.32	0.040		0.012		6.87	
028	18	8/3/2017 13:30	23 FILTER C							6.81	
028	19	8/3/2017 13:30	24 FILTER D	1	1.32	0.040		0.019		6.83	
028	19	8/3/2017 13:30	24 FILTER D							6.79	
028	21	8/3/2017 13:40	05 POX A,B,C,D	2.26							
028	22	8/3/2017 13:50	05 POX A,B,C,D	1.75							

Page	Row	Date and Time	SAMPLE LOCATION	Cl2 (f)	Cl2 (t)	Fe(t)	Fe (d)	Mn(t)	Mn (d)	pH	Temp
028	23	8/3/2017 14:10	05 POX A,B,C,D	1.21							
029	01	8/3/2017 17:00	21 FILTER A			0.050		0.008			
029	02	8/3/2017 17:00	23 FILTER C			0.010		0.014			
029	03	8/3/2017 23:00	21 FILTER A			0.040		0.014			
029	04	8/3/2017 23:00	23 FILTER C			0.040		0.010			
029	05	8/4/2017 5:00	21 FILTER A			0.030		0.025			
029	06	8/4/2017 5:00	23 FILTER C			0.020		0.015			
029	09	8/4/2017 8:00	01 RAW BLEND			0.040		0.053		5.88	14.2
029	09	8/4/2017 8:00	01 RAW BLEND							5.81	14.2
029	10	8/4/2017 8:00	05 POX A,B,C,D	1.2	1.1	0.030	0.020	0.045	0.034	6.63	
029	10	8/4/2017 8:00	05 POX A,B,C,D							6.71	
029	11	8/4/2017 8:00	21 FILTER A	0.72	1.04	0.010		0.015		6.66	
029	11	8/4/2017 8:00	21 FILTER A							6.73	
029	12	8/4/2017 8:00	22 FILTER B	0.69	1.05	0.010		0.019		6.73	
029	12	8/4/2017 8:00	22 FILTER B							6.77	
029	13	8/4/2017 8:00	23 FILTER C	0.38	0.56	0.000		0.013		6.73	
029	13	8/4/2017 8:00	23 FILTER C							6.79	
029	14	8/4/2017 8:00	24 FILTER D	0.44	0.57	0.010		0.016		6.74	
029	14	8/4/2017 8:00	24 FILTER D							6.73	
029	21	8/4/2017 10:50	01 RAW BLEND			0.140		0.043			
029	19	8/4/2017 10:50	02 MAHER WELL 1			0.170		0.042			
029	20	8/4/2017 10:50	03 MAHER WELL 2			0.170		0.041			
029	22	8/4/2017 10:50	05 POX A,B,C,D	1.2	1.28	0.070		0.255			
029	23	8/4/2017 10:50	21 FILTER A	0.85	0.99	0.060		0.012			
029	24	8/4/2017 10:50	22 FILTER B	0.8	1.01	0.080		0.013			
029	25	8/4/2017 10:50	23 FILTER C	0.47	0.6	0.050		0.016			
029	26	8/4/2017 10:50	24 FILTER D	0.45	0.54	0.050		0.019			