

State of California—Health and Human Services Agency California Department of Public Health



October 14, 2013 System No. 1000021

Ms. Betty Brown Special District Administrator FCSA #5/Wildwood Island 2220 Tulare Street, #600 Fresno, CA 93721

RE: GWUDI Evaluation

Dear Mr. Schmidt:

The Department has received and reviewed the GWUDI evaluation package submitted by FCSA # 5/Wildwood Island on August 22, 2013 in response to the GWUDI requirement established in January 2012 inspection report. The report had identified that the existing wells, Well 01 and Well 02, were in the close proximity to the Kings River tributaries and needed to determine if they are under influence of surface water. A set of water quality evaluation was required from the wells and Kings River tributaries, the status of which is presented below:

I. Monitor Well 01 and Well 02 during the dry season and once during the rainy season for General Mineral and General Physical Constituents, and Inorganic Chemicals. Wet season sample shall be collected immediately following a rain event (within 24 to 48 hours).

Status: The Water System conducted three sets of sampling from Well 01 and two sets of sampling from Well 02. Well 01 sampling was conducted in November 2012, April 2013 and June 2013. Well 02 sampling was conducted in November 2012 and June 2013. There were no distinct water quality variations in dry and winter season. See Appendix A for the results.

II. Record temperature and turbidity measurements of both: the drinking water wells and the surface water on the same day on a bi-weekly basis for twelve consecutive months. A sampling schedule must be specified and adhered to.

Status: Partially Completed. The water temperatures were recorded at both wells and Kings River tributaries. Similarly, the turbidities were measured from all of the required sources. Limited turbidity samples were taken from the tributaries. A total of nine (9) turbidity samples were measured from tributary # 1 (near Well 01) and a total of six (6) turbidity samples were measured from tributary # 2 (near Well 02) typically during

the months of May, June and July when water was flowing. The summary of the testing is presented in Table 1. The results are presented in Appendix A. Based on the available results for May and June; the water temperature of the tributaries is greater than that of the wells. Similarly, based on the available turbidity results for May, June and July, the turbidity of the tributaries is greater than that of the wells. Graphical trends of the available temperature and turbidity data are presented in Appendix B.

Table 1. Summary of testing results

Parameters	Well 01	Tributary#1	Well 02	Tributary#2
Water Temperature, °C	15.3 - 18.3	18.4 -18.6	15.8 - 17.4	18.4 - 22.3
Turbidity, NTU	ND - 0.74	0.28 - 2.0	ND - 0.28	0.27 - 1.7

III. For twelve consecutive months, monitor Well 01, Well 02 and surface water body (when water is present) twice a month (bi-weekly) for total coliform and E. coli bacteria. Samples shall be analyzed by a State certified laboratory using an enumeration method approved for testing for coliforms in drinking water. Results must be reported in units of MPN/100 ml. The sample volume collected and the analytical method used must be reported with the results.

Status: Completed. Well 01 and Well 02 occasionally tested positive for total coliforms. The sample collected from Well 01 on July 5, 2013 resulted in concentration of 1 MPN/100ml. Similarly, the samples collected from Well 02 on May 20, 2012, June 11, 2013, June 16, 2013 and July 5, 2013 resulted in coliform concentrations of 6.2, 35, 1 and 1 MPN/100ml, respectively. None of the samples tested positive for E.*coli*. The coliform samples collected from the Kings River tributaries resulted in concentrations ranging from 1600 to >2419.2 MPN/100ml. Similarly, the E.*coli* samples resulted in concentrations ranging from 12 to 490 MPN/100ml.

IV. Monitor the water levels at Well 01, Well 02 and the surface water body monthly for twelve consecutive months.

Status: Partially Completed. The Water System only monitored the water levels from the wells. The water level at the Kings River tributaries was not recorded due to lack of flowing water at the sample location. Based on the water levels recorded, Well 01 water depth varied from a minimum of 20 feet bgs in February 2013 to 38 feet bgs in September 2012. Similarly, Well 02 water depth varied from a minimum of 14 feet bgs from November 2012 through February 2013 to 32 feet bgs in June 2013.

V. A Microscopic Particulate Analysis (MPA) of Well 01 and Well 02 must be performed once during the dry season and twice during the rainy season. A particulate analysis identifies microorganisms indigenous to surface water and whose presence in a ground water source would indicate surface water influence. MPA sampling shall be collected using the equipment outlined in the EPA's Consensus Method. The sample volume shall be between 500 and 1,000 gallons and should be collected over a 4 to 8 hour period.

Wet season samples shall be collected immediately following a significant rain event (within 24 to 48 hours).

Status: Completed. The Water System collected a total of three (3) MPA samples from both wells. Well 01 samples were collected in August 2012, May 2013 and June 2013. Well 02 samples were collected in August 2012 and two (2) consecutive weeks of June 2013. The Water System has designated the samples taken in May and June to be wet season sample which were taken following a rainfall event. The Water System stated that they could not collect a sample following a significant rainfall event due to (i) absence of local MPA testing lab, (ii) coordination issues and failure to receive sample bottles in a timely manner from the lab in bay area.

Primary Bioindicators like Giarida, Coccidia, Diatoms, Algae, Insects/Larvae, Rotifiers and Plant Debris were tested in all of the samples. All of the primary bioindicators were 0/100 gallon in all of the samples form Well 01 and Well 02. This result implies that both the wells have relative surface water risk factor score of zero (0) associated with the primary bioindicators and hence the risk of surface water contamination is low (score 0-9).

Secondary Bioindicators like Amorphous Debris, Minerals, Plant Pollen, Nematodes, Crustacea, Amoeba, Ciliates/Flagellates and other organisms were tested in all of the samples. Only Amorphous Debris and Plant Pollen was detected. Amorphous Debris was detected in all of the samples at a concentration of TNTC/100 gallon. TNTC stands for too many to count meaning the results are greater than 200/100 gallon. Plant Pollen was detected at a concentration of 9/100 gallon in a single sample collected on August 15, 2012 from Well 02. There is no risk associated with secondary bioindicators.

Conclusion

The Water System did not complete all of the requirements specified for GWUDI monitoring and conducted limited monitoring from the Kings River tributaries. However, based on the results of the monitoring conducted, Well 01 and Well 02 is currently determined to be <u>not</u> under direct influence of surface water. The reasonings are presented below:

- ✓ Both wells resulted in a low risk score of "0" in the MPA testing. None of the primary bioindicators were present in the samples collected from Well 01 and Well 02.
- ✓ There was no distinct correlation of the total coliform concentrations detected in the wells and Kings River tributaries. The occasional detection of total coliform may be due to construction deficiency of the well. E. coli was not detected in any of the well samples.
- ✓ There was no distinct correlation of the turbidity concentrations detected in the wells and the Kings River tributaries.

Hence, the Water System is currently not required to provide surface water treatment at the existing wells. However, due to a history of total coliforms and lack of annular seal, the Water System is required to provide continuous chlorination at both wells

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sufficient to provide 4-log virus removal. The preliminary calculations by the Department show that the Water System may not be able to achieve 4-log virus removal with the contact time provided by existing pressure tank(s). **By November 30, 2013**, the Water System should present to the Department how it will achieve the required chlorine contact time at both the wells. If you have any questions regarding this letter, please contact Sudarshan Poudyal or me at (559) 447-3300.

Sincerely,

Betsy Lichti, P.E.

Senior Sanitary Engineer, Fresno District SOUTHERN CALIFORNIA BRANCH

DRINKING WATER FIELD OPERATIONS

BSL/SP

Appendix A: GWUDI Monitoring Data in Excel

Appendix B: Graphical trend of temperature and turbidity

			CSA NO	. 5 - WELL # 1			
Collection Date	Water Level (Sounding)	Temperature = °C	Category	Contaminant OR Bacteria	Results	Reporting Limits	Units
05/25/12	33' - 76'	15.8	REGULATED SECONDARY	TURBIDITY	0.38	0.10	NTU
05/25/12			REGULATED PRIMARY	COLIFORMS	<1.0	1.0	MPN/100ML
05/25/12		45.7	REGULATED PRIMARY	E. COLI TURBIDITY	<1.0 0.13	1.0 0.10	MPN/100ML NTU
06/11/12 06/11/12		15.7	REGULATED SECONDARY REGULATED PRIMARY	COLIFORMS	<1.0	1.0	MPN/100ML
06/11/12			REGULATED PRIMARY	E. COLI	<1.0	1.0	MPN/100ML
06/13/12			REGULATED SECONDARY	TURBIDITY	ND	0.10	NTU
06/15/12			PRE CL2	COLIFORMS	<1.0	1.0	MPN/100ML
06/15/12	37' - 78'	15.7	PRE CL2	E. COLI	<1.0 <1.0	1.0	MPN/100ML MPN/100ML
06/15/12 06/15/12			POST CL2 POST CL2	COLIFORMS E. COLI	<1.0	1.0	MPN/100ML
06/27/12		15.5	REGULATED SECONDARY	TURBIDITY	0.1	0.10	NTU
06/27/12			REGULATED PRIMARY	COLIFORMS	<1.0	1.0	MPN/100ML
06/27/12			REGULATED PRIMARY	E. COLI	<1.0	1.0	MPN/100ML
07/12/12	37' - 77'	15.3	REGULATED SECONDARY	TURBIDITY	ND 1.3	0.10	NTU
07/12/12			REGULATED PRIMARY	COLIFORMS	<1.0 <1.0	1.0	MPN/100ML MPN/100ML
07/12/12 07/18/12		15.1	REGULATED PRIMARY REGULATED PRIMARY	E. COLI COLIFORMS	ABSENT	1.0	MPN/100ML
07/18/12		13.1	REGULATED PRIMARY	E. COLI	ABSENT	1.0	MPN/100ML
07/25/12			REGULATED SECONDARY	TURBIDITY	0.1	0.10	NTU
07/25/12	77'	15.3	REGULATED PRIMARY	COLIFORMS	<1.0	1.0	MPN/100ML
07/25/12			REGULATED PRIMARY	E. COLI	<1.0	1.0	MPN/100ML
08/15/12			REGULATED SECONDARY	TURBIDITY	ND	0.1	NTU
08/15/12		15.6	REGULATED PRIMARY	COLIFORMS E. COLI	<1.0 <1.0	1.0	MPN/100ML MPN/100ML
08/15/12 08/21/12			REGULATED PRIMARY	PARTICULATE TEST DONE	<1.0	1.0	IVIFIN/100IVIL
08/21/12			PRIMARY BIO-INDICATORS	Giardia	0 in 378 L/100 gal	0 in 378 L/100 gal	
08/21/12			PRIMARY BIO-INDICATORS	Diatoms	0/100 gal	0/100 gal	
08/21/12			PRIMARY BIO-INDICATORS	Insect/Larve	0/100 gal	0/100 gal	
08/21/12			PRIMARY BIO-INDICATORS	Plant Debris	0/100 gal	0/100 gal	
08/21/12			PRIMARY BIO-INDICATORS	Coccidia	0 in 378 L/100 gal	0 in 378 L/100 gal 0/100 gal	
08/21/12 08/21/12			PRIMARY BIO-INDICATORS PRIMARY BIO-INDICATORS	Other Algae Rotifers	0/100 gal 0/100 gal	0/100 gal	
08/21/12			SECONDARY BIO-INDICATORS	Amorphours Debris	TNTC/100 gal	TNTC/100 gal	
08/21/12			SECONDARY BIO-INDICATORS	Plant Pollen	0/100 gal	0/100 gal	
08/21/12			SECONDARY BIO-INDICATORS	Crustacea	0/100 gal	0/100 gai	
08/21/12			SECONDARY BIO-INDICATORS	Cilliates/Flagallates	0/100 gal	0/100 gal	
08/21/12			SECONDARY BIO-INDICATORS	Minerals	0/100 gal	0/100 gal	
08/21/12 08/21/12			SECONDARY BIO-INDICATORS SECONDARY BIO-INDICATORS	Nematodes Amobea	0/100 gal 0/100 gal	0/100 gal 0/100 gal	
08/21/12			SECONDARY BIO-INDICATORS	Other Organisms	0/100 gai	0/100 gal	
08/29/12	37' - 83'	16.0	REGULATED SECONDARY	TURBIDITY	ND	0.1	NTU
08/29/12			REGULATED PRIMARY	COLIFORMS	<1.0	1.0	MPN/100ML
08/29/12			REGULATED PRIMARY	E. COLI	<1.0	1.0	MPN/100ML
09/12/12		16.0	REGULATED SECONDARY	TURBIDITY	ND	0.1	NTU NADAL/100NAL
09/12/12			REGULATED PRIMARY	COLIFORMS	<1.0 <1.0	1.0	MPN/100ML MPN/100ML
09/12/12 09/24/12			REGULATED PRIMARY REGULATED SECONDARY	E. COLI TURBIDITY	ND	0.1	NTU
09/24/12	38' - 80'	15.9	REGULATED PRIMARY	COLIFORMS	<1.0	1.0	MPN/100ML
09/24/12			REGULATED PRIMARY	E. COLI	<1.0	1.0	MPN/100ML
10/11/12		15.9	REGULATED SECONDARY	TURBIDITY	0.16	0.1	NTU
10/11/12			REGULATED PRIMARY	COLIFORMS	<1.0	1.0	MPN/100ML
10/11/12	251	16.4	REGULATED PRIMARY	E. COLI	<1.0	1.0	MPN/100ML
10/24/12	35'	16.1	GENERAL MINERAL-GENERAL				
11/02/12 11/02/12			PHYSICAL-INORGANIC CHEMICAL REGULATED SECONDARY	TURBIDITY	0.74	0.10	NTU
11/02/12		16.1					
11/15/12			REGULATED SECONDARY	TURBIDITY	ND	0.10	NTU
11/15/12			REGULATED PRIMARY	COLIFORMS	<1.0	1.0	MPN/100ML
11/15/12	22'	16.3	REGULATED PRIMARY	E. COLI	<1.0	1.0	MPN/100ML
12/04/12			REGULATED SECONDARY	TURBIDITY	0.10	0.10	NTU MARNI/100M
12/04/12 12/04/12		16.6	REGULATED PRIMARY	COLIFORMS E. COLI	<1.0 <1.0	1.0	MPN/100ML MPN/100ML
12/04/12	23'	16.9	REGULATED PRIMARY REGULATED SECONDARY	TURBIDITY	0.13	0.10	NTU
10-11-4		10.7					

				1	.10	1.0	NADAL/100841
12/31/12			REGULATED PRIMARY	COLIFORMS	<1.0	1.0	MPN/100ML
12/31/12			REGULATED PRIMARY	E. COLI	<1.0	1.0	MPN/100ML
01/14/13		17.1					
01/28/13	22'	17.4				0.10	
02/01/13			REGULATED SECONDARY	TURBIDITY	0.25	0.10	NTU
02/01/13			REGULATED PRIMARY	COLIFORMS	<1.0	1.0	MPN/100ML
02/01/13			REGULATED PRIMARY	E. COLI	<1.0	1.0	MPN/100ML
02/13/13	20'	17.8					
02/21/13			REGULATED SECONDARY	TURBIDITY	0.16	0.10	NTU
02/21/13			REGULATED PRIMARY	COLIFORMS	<1.0	1.0	MPN/100ML
02/21/13			REGULATED PRIMARY	E. COLI	<1.0	1.0	MPN/100ML
03/06/13	21'	17.8					
03/20/13			REGULATED SECONDARY	TURBIDITY	0.11	0.10	NTU
03/20/13			REGULATED PRIMARY	COLIFORMS	1.0	1.0	MPN/100ML
03/20/13		18.0	REGULATED PRIMARY	E. COLI	<1.0	1.0	MPN/100ML
03/22/13			REGULATED PRIMARY	COLIFORMS	<1.0	1.0	MPN/100ML
03/22/13			REGULATED PRIMARY	E. COLI	<1.0	1.0	MPN/100ML
04/10/13		18.1					
04/17/13		W-10/2	GENERAL MINERAL-GENERAL PHYSICAL-INORGANIC CHEMICAL				
04/17/13	-		REGULATED SECONDARY	TURBIDITY	ND	0.10	NTU
04/18/13	 		REGULATED SECONDARY	TURBIDITY	ND ND	0.10	NTU
04/18/13	32' - 70'	18.3	PRE CL2	Chloride	8.0	2,0	mg/L
	32 - 70	16.3	PRE CL2	Nitrate as NO3	4.5	2.0	mg/L
04/18/13	 				0.0	1,0	μg/L
04/18/13	-		POST CL2	Total HAA5	1.0	0.50	μg/L
04/18/13			POST CL2	TTHM	<1.0	1.0	MPN/100ML
04/18/13	 		REGULATED PRIMARY	COLIFORMS		1.0	
04/18/13			REGULATED PRIMARY	E. COLI	<1.0	1,0	MPN/100ML
05/06/13				PARTICULATE TEST DONE	01 0701400 1	0: 0701/400	
05/06/13		18.3	PRIMARY BIO-INDICATORS	Giardia	0 in 378 L/100 gal	0 in 378 L/100 gal	
05/06/13			PRIMARY BIO-INDICATORS	Diatoms	0/100 gal	0/100 gal	
05/06/13		***	PRIMARY BIO-INDICATORS	Insect/Larve	0/100 gal	0/100 gal	
05/06/13			PRIMARY BIO-INDICATORS	Plant Debris	0/100 gal	0/100 gal	
05/06/13			PRIMARY BIO-INDICATORS	Coccidia	0 in 378 L/100 gal	0 in 378 L/100 gal	
05/06/13			PRIMARY BIO-INDICATORS	Other Algae	0/100 gal	0/100 gal	
05/06/13			PRIMARY BIO-INDICATORS	Rotifers	0/100 gal	0/100 gai	
05/06/13			SECONDARY BIO-INDICATORS	Amorphours Debris	TNTC/100 gal	TNTC/100 gal	
05/06/13			SECONDARY BIO-INDICATORS	Plant Pollen	0/100 gal	0/100 gal	
05/06/13			SECONDARY BIO-INDICATORS	Crustacea	0/100 gal	0/100 gal	
05/06/13			SECONDARY BIO-INDICATORS	Cilliates/Flagallates	0/100 gal	0/100 gal	
05/06/13			SECONDARY BIO-INDICATORS	Minerals	0/100 gal	0/100 gal	
05/06/13			SECONDARY BIO-INDICATORS	Nematodes	0/100 gal	0/100 gal	
05/06/13	<u> </u>		SECONDARY BIO-INDICATORS	Amobea	0/100 gal	0/100 gal	
05/06/13	· · · · · · · · · · · · · · · · · · ·		SECONDARY BIO-INDICATORS	Other Organisms	0/100 gal	0/100 gal	
05/20/13	 		REGULATED SECONDARY	TURBIDITY	0.11	0.10	NTU
05/20/13	31' - 72'	18.4	REGULATED PRIMARY	COLIFORMS	<1.0	1.0	MPN/100ML
05/20/13	31 - 72	10.4	REGULATED PRIMARY	E. COLI	<1.0	1.0	MPN/100ML
06/03/13			REGULATED PRIMARY	COLIFORMS	<1.0	1.0	MPN/100ML
			REGULATED PRIMARY	E. COLI	<1.0	1.0	MPN/100ML
06/03/13	+		INFOOTATED LUIMING	PARTICULATE TEST DONE	71.0	2.0	
06/04/13			DDIAAADV DIO INDICATORS	-	0 in 378 L/100 gal	0 in 378 L/100 gal	
06/04/13			PRIMARY BIO-INDICATORS	Giardia		0/100 gal	
06/04/13			PRIMARY BIO-INDICATORS	Diatoms	0/100 gal		
06/04/13	ļ		PRIMARY BIO-INDICATORS	Insect/Larve	0/100 gal	0/100 gal	
06/04/13	ļ		PRIMARY BIO-INDICATORS	Plant Debris	0/100 gal	0/100 gal	-
06/04/13	ļ		PRIMARY BIO-INDICATORS	Coccidia	0 in 378 L/100 gal	0 in 378 L/100 gal	
06/04/13	ļ		PRIMARY BIO-INDICATORS	Other Algae	0/100 gai	0/100 gal	
06/04/13			PRIMARY BIO-INDICATORS	Rotifers	0/100 gal	0/100 gal	
06/04/13	<u> </u>	18.3	SECONDARY BIO-INDICATORS	Amorphours Debris	TNTC/100 gal	TNTC/100 gal	
06/04/13			SECONDARY BIO-INDICATORS	Plant Pollen	0/100 gal	0/100 gal	
06/04/13			SECONDARY BIO-INDICATORS	Crustacea	0/100 gal	0/100 gal	
06/04/13			SECONDARY BIO-INDICATORS	Cilliates/Flagallates	0/100 gal	0/100 gal	
				Minerals	0/100 gal	0/100 gal	
06/04/13 06/04/13			SECONDARY BIO-INDICATORS				
06/04/13 06/04/13			SECONDARY BIO-INDICATORS SECONDARY BIO-INDICATORS	Nematodes	0/100 gal	0/100 gal	
06/04/13 06/04/13 06/04/13					0/100 gal 0/100 gal	0/100 gai 0/100 gai	
06/04/13 06/04/13 06/04/13			SECONDARY BIO-INDICATORS	Nematodes			
06/04/13 06/04/13 06/04/13 06/04/13	32' - 70'	18.3	SECONDARY BIO-INDICATORS SECONDARY BIO-INDICATORS	Nematodes Amobea	0/100 gal	0/100 gal	NTU
06/04/13	32' - 70'	18.3	SECONDARY BIO-INDICATORS SECONDARY BIO-INDICATORS SECONDARY BIO-INDICATORS	Nematodes Amobea Other Organisms	0/100 gal 0/100 gal	0/100 gal 0/100 gal	NTU MPN/100ML

06/18/13		GENERAL MINERAL-GENERAL PHYSICAL-INORGANIC CHEMICAL				
06/18/13		REGULATED SECONDARY	TURBIDITY	0.13	0.10	
07/05/13	18.3	REGULATED SECONDARY	TURBIDITY	0.11	0.10	NTU
07/05/13		REGULATED PRIMARY	COLIFORMS	1.0	1.0	MPN/100ML
07/05/13		REGULATED PRIMARY	E. COLI	<1.0	1.0	MPN/100ML

CSA NO. 5 - KINGS RIVER TRIBUTARY # 1

Collection Date C				CSA NO. 5 - KINGS RIVER TRIBUTA	481 # 1			
05/25/27		Temperature =					4-78-21	100
19,725/12 18.4 REGULATED PERMANY COLIOMENS 2419.2 1.0 MPN/100ML	Collection Date	°C	Category	Contaminant OR Bacteria	Results	Reporting Limit	Units	Notes
09795/17	05/25/12	18.4		TURBIDITY	2	0.10	NTU	1
166/31/12	05/25/12		REGULATED PRIMARY	COLIFORMS	>2419.2			
	05/25/12		REGULATED PRIMARY	E. COLI				
1967/13/12 18.8 REGULATED FRIMARY E.COL 42 1.0 MPM/100ML	06/11/12	18.6	REGULATED SECONDARY	TURBIDITY	0.28	0.10	NTU	
	06/11/12		REGULATED PRIMARY	COLIFORMS	1700	1.0	MPN/100ML	
19.0 REGULATED PRIMARY COLFORMS 2400 1.0 MPN/JOOML	06/11/12	18.8	REGULATED PRIMARY	E. COLI	42	1.0		
DESTRUCTION	06/28/12		REGULATED SECONDARY	TURBIDITY	1			<u> </u>
07/13/12	06/28/12	19.0	REGULATED PRIMARY	COLIFORMS	2400	1.0		
07/15/12	06/28/12		REGULATED PRIMARY	E. COLI	25	1.0	MPN/100ML	
07/25/12 UNSAMPLEABLE	07/12/12		UNSAMPLEABLE					
08/15/12	07/18/12		UNSAMPLEABLE					
08/15/12 UNSAMPLEABLE	07/25/12		UNSAMPLEABLE					
D8/21/12	08/15/12		UNSAMPLEABLE					
08/29/12 UNSAMPLEABLE	08/16/12		UNSAMPLEABLE					
0912/12 UNSAMPLEABLE	08/21/12		UNSAMPLEABLE					
10/11/12	08/29/12		UNSAMPLEABLE					
10/11/12	0912/12		UNSAMPLEABLE					ł
11/16/12	09/24/12		UNSAMPLEABLE					
12/04/12	10/11/12		UNSAMPLEABLE					
12/31/12	11/16/12		UNSAMPLEABLE					
O2/01/13	12/04/12		UNSAMPLEABLE					
O2/21/13	12/31/12		UNSAMPLEABLE					
03/22/13	02/01/13		UNSAMPLEABLE					
03/22/13	02/21/13		UNSAMPLEABLE					
04/17/13 19.2	03/20/13		UNSAMPLEABLE					}
05/02/13 19.2	03/22/13		UNSAMPLEABLE					
05/20/13 19.2	04/10/13		UNSAMPLEABLE					
05/20/13 REGULATED SECONDARY TURBIDITY 0.81 0.10 NTU 05/20/13 REGULATED PRIMARY COLIFORMS >2419.2 1.0 MPN/100ML 05/20/13 REGULATED PRIMARY E. COLI 14 1.0 MPN/100ML 05/20/13 REGULATED SECONDARY TURBIDITY 0.47 0.10 NTU 05/20/13 REGULATED PRIMARY COLIFORMS 1700 1.0 MPN/100ML 05/20/13 REGULATED PRIMARY E. COLI 12 1.0 MPN/100ML 05/20/13 REGULATED PRIMARY E. COLI 1.1 0.10 NTU 05/20/13 REGULATED PRIMARY COLIFORMS >2419.2 1.0 MPN/100ML 05/20/13 REGULATED PRIMARY E. COLI 100 1.0 MPN/100ML 05/20/13 REGULATED PRIMARY E. COLI 100 1.0 MPN/100ML 05/20/13 REGULATED PRIMARY E. COLI 100 1.0 MPN/100ML 05/20/13 REGULATED PRIMARY E. COLI 14	04/17/13	19.2						
OS/20/13 REGULATED PRIMARY COLIFORMS >2419.2 1.0 MPN/100ML	05/02/13	19.2						
14 1.0 MPN/100ML	05/20/13		REGULATED SECONDARY	TURBIDITY	0.81	0.10	NTU	
OS/20/13 REGULATED SECONDARY TURBIDITY O.47 O.10 NTU OS/20/13 REGULATED PRIMARY COLIFORMS 1700 1.0 MPN/100ML OS/20/13 REGULATED PRIMARY E. COLI 12 1.0 MPN/100ML OS/20/13 REGULATED PRIMARY E. COLI 12 1.0 MPN/100ML OS/20/13 REGULATED SECONDARY TURBIDITY 1.1 O.10 NTU OS/20/13 REGULATED PRIMARY COLIFORMS >2419.2 1.0 MPN/100ML OS/20/13 REGULATED PRIMARY E. COLI 100 1.0 MPN/100ML OS/20/13 REGULATED PRIMARY E. COLI 100 1.0 MPN/100ML OS/20/13 REGULATED PRIMARY COLIFORMS >2419.2 1.0 MPN/100ML OS/20/13 REGULATED PRIMARY COLIFORMS >2419.2 1.0 MPN/100ML OS/20/13 REGULATED PRIMARY E. COLI 14 1.0 MPN/100ML OS/20/13 REGULATED PRIMARY E. COLI 14 1.0 MPN/100ML OS/20/13 REGULATED PRIMARY COLIFORMS >2419.2 1.0 MPN/100ML OS/20/13 REGULATED PRIMARY COLIFORMS >2419.2 1.0 MPN/100ML OS/20/13 REGULATED PRIMARY COLIFORMS >2419.2 1.0 MPN/100ML OS/20/13 REGULATED PRIMARY E. COLI 250 1.0 MPN/100ML OS/20/13 REGULATED PRIMARY COLIFORMS 1700 1.0 MPN/100ML OS/21/13 REGULATED PRIMARY COLIFORMS 1700 1.0 MPN/100ML OS/21/13 REGULATED PRIMARY E. COLI 12 1.0 MPN/100ML OS/21/13 REGULATED PRIMARY E. COLI 250 1.0 MPN/100ML OS/21/13 REGULATED PRIMARY E. COLIFORMS >2419.2 1.0 MPN/100ML OS/20/13 REGULATED PRIMARY COLIFORMS >2419.	05/20/13		REGULATED PRIMARY	COLIFORMS	>2419.2	1.0	MPN/100ML	
OS/20/13 REGULATED PRIMARY COLIFORMS 1700 1.0 MPN/100ML	05/20/13		REGULATED PRIMARY	E. COLI	14	1.0	MPN/100ML	
Description	05/20/13		REGULATED SECONDARY	TURBIDITY	0.47	0.10	NTU	
05/20/13 REGULATED SECONDARY TURBIDITY 1.1 0.10 NTU 05/20/13 REGULATED PRIMARY COLIFORMS >2419.2 1.0 MPN/100ML 05/20/13 REGULATED PRIMARY E. COLI 100 1.0 MPN/100ML 05/20/13 REGULATED SECONDARY TURBIDITY 0.81 0.10 NTU 05/20/13 REGULATED PRIMARY COLIFORMS >2419.2 1.0 MPN/100ML 05/20/13 20.0 REGULATED PRIMARY E. COLI 14 1.0 MPN/100ML 06/03/13 REGULATED PRIMARY COLIFORMS >2419.2 1.0 MPN/100ML 06/17/13 REGULATED PRIMARY E. COLI 250 1.0 MPN/100ML 06/17/13 REGULATED PRIMARY COLIFORMS 1700 1.0 MPN/100ML 06/17/13 REGULATED PRIMARY COLIFORMS 1700 1.0 MPN/100ML 06/17/13 REGULATED PRIMARY E. COLI 12 1.0 MPN/100ML 06/18/13 REGULATED PRIMARY COLIF	05/20/13		REGULATED PRIMARY	COLIFORMS	1700	1.0	MPN/100ML	
DESTRUCTION DESTRICT DESTRI	05/20/13		REGULATED PRIMARY	E. COLI	12	1.0	MPN/100ML	
DOS/20/13 REGULATED PRIMARY E. COLI 100 1.0 MPN/100ML	05/20/13		REGULATED SECONDARY	TURBIDITY	1.1	0.10	NTU	
OS OS OS OS OS OS OS OS	05/20/13		REGULATED PRIMARY	COLIFORMS	>2419.2	1.0	MPN/100ML	
DESTRUCTION REGULATED PRIMARY COLIFORMS S2419.2 1.0 MPN/100ML	05/20/13		REGULATED PRIMARY	E. COLI	100	1.0	MPN/100ML	
05/20/13 20.0 REGULATED PRIMARY E. COLI 14 1.0 MPN/100ML 06/03/13 REGULATED PRIMARY COLIFORMS >2419.2 1.0 MPN/100ML 06/03/13 REGULATED PRIMARY E. COLI 250 1.0 MPN/100ML 06/17/13 REGULATED SECONDARY TURBIDITY 0.47 0.10 NTU 06/17/13 REGULATED PRIMARY COLIFORMS 1700 1.0 MPN/100ML 06/17/13 22.3 REGULATED PRIMARY E. COLI 12 1.0 MPN/100ML 06/18/13 REGULATED PRIMARY COLIFORMS >2419.2 1.0 MPN/100ML 06/18/13 REGULATED PRIMARY E. COLI 250 1.0 MPN/100ML 07/05/13 REGULATED PRIMARY E. COLI 250 1.0 MPN/100ML 07/05/13 REGULATED PRIMARY COLIFORMS >2419.2 1.0 MPN/100ML	05/20/13		REGULATED SECONDARY	TURBIDITY	0.81	0.10	NTU	
06/03/13 REGULATED PRIMARY COLIFORMS >2419.2 1.0 MPN/100ML 06/03/13 REGULATED PRIMARY E. COLI 250 1.0 MPN/100ML 06/17/13 REGULATED SECONDARY TURBIDITY 0.47 0.10 NTU 06/17/13 REGULATED PRIMARY COLIFORMS 1700 1.0 MPN/100ML 06/17/13 22.3 REGULATED PRIMARY E. COLI 12 1.0 MPN/100ML 06/18/13 REGULATED PRIMARY COLIFORMS >2419.2 1.0 MPN/100ML 06/18/13 REGULATED PRIMARY E. COLI 250 1.0 MPN/100ML 07/05/13 REGULATED SECONDARY TURBIDITY 1 0.10 NTU 07/05/13 REGULATED PRIMARY COLIFORMS >2419.2 1.0 MPN/100ML	05/20/13		REGULATED PRIMARY	COLIFORMS	>2419.2	1.0	MPN/100ML	
06/03/13 REGULATED PRIMARY E. COLI 250 1.0 MPN/100ML 06/17/13 REGULATED SECONDARY TURBIDITY 0.47 0.10 NTU 06/17/13 REGULATED PRIMARY COLIFORMS 1700 1.0 MPN/100ML 06/17/13 22.3 REGULATED PRIMARY E. COLI 12 1.0 MPN/100ML 06/18/13 REGULATED PRIMARY COLIFORMS >2419.2 1.0 MPN/100ML 06/18/13 REGULATED PRIMARY E. COLI 250 1.0 MPN/100ML 07/05/13 REGULATED SECONDARY TURBIDITY 1 0.10 NTU 07/05/13 REGULATED PRIMARY COLIFORMS >2419.2 1.0 MPN/100ML	05/20/13	20.0	REGULATED PRIMARY	E. COLI	14	1.0	MPN/100ML	
06/17/13 REGULATED SECONDARY TURBIDITY 0.47 0.10 NTU 06/17/13 REGULATED PRIMARY COLIFORMS 1700 1.0 MPN/100ML 06/17/13 22.3 REGULATED PRIMARY E. COLI 12 1.0 MPN/100ML 06/18/13 REGULATED PRIMARY COLIFORMS >2419.2 1.0 MPN/100ML 06/18/13 REGULATED PRIMARY E. COLI 250 1.0 MPN/100ML 07/05/13 REGULATED SECONDARY TURBIDITY 1 0.10 NTU 07/05/13 REGULATED PRIMARY COLIFORMS >2419.2 1.0 MPN/100ML	06/03/13		REGULATED PRIMARY	COLIFORMS	>2419.2	1.0	MPN/100ML	
06/17/13 REGULATED PRIMARY COLIFORMS 1700 1.0 MPN/100ML 06/17/13 22.3 REGULATED PRIMARY E. COLI 12 1.0 MPN/100ML 06/18/13 REGULATED PRIMARY COLIFORMS >2419.2 1.0 MPN/100ML 06/18/13 REGULATED PRIMARY E. COLI 250 1.0 MPN/100ML 07/05/13 REGULATED SECONDARY TURBIDITY 1 0.10 NTU 07/05/13 REGULATED PRIMARY COLIFORMS >2419.2 1.0 MPN/100ML	06/03/13		REGULATED PRIMARY	E. COLI	250	1.0	MPN/100ML	
06/17/13 22.3 REGULATED PRIMARY E. COLI 12 1.0 MPN/100ML 06/18/13 REGULATED PRIMARY COLIFORMS >2419.2 1.0 MPN/100ML 06/18/13 REGULATED PRIMARY E. COLI 250 1.0 MPN/100ML 07/05/13 REGULATED SECONDARY TURBIDITY 1 0.10 NTU 07/05/13 REGULATED PRIMARY COLIFORMS >2419.2 1.0 MPN/100ML	06/17/13		REGULATED SECONDARY	TURBIDITY	0.47	0.10		
06/17/13 22.3 REGULATED PRIMARY E. COLI 12 1.0 MPN/100ML 06/18/13 REGULATED PRIMARY COLIFORMS >2419.2 1.0 MPN/100ML 06/18/13 REGULATED PRIMARY E. COLI 250 1.0 MPN/100ML 07/05/13 REGULATED SECONDARY TURBIDITY 1 0.10 NTU 07/05/13 REGULATED PRIMARY COLIFORMS >2419.2 1.0 MPN/100ML	06/17/13		V	COLIFORMS	1700	1.0	MPN/100ML	
06/18/13 REGULATED PRIMARY E. COLI 250 1.0 MPN/100ML 07/05/13 REGULATED SECONDARY TURBIDITY 1 0.10 NTU 07/05/13 REGULATED PRIMARY COLIFORMS >2419.2 1.0 MPN/100ML	06/17/13	22.3	REGULATED PRIMARY	E. COLI	12	1.0		
06/18/13 REGULATED PRIMARY E. COLI 250 1.0 MPN/100ML 07/05/13 REGULATED SECONDARY TURBIDITY 1 0.10 NTU 07/05/13 REGULATED PRIMARY COLIFORMS >2419.2 1.0 MPN/100ML	06/18/13		REGULATED PRIMARY	COLIFORMS	>2419.2	1.0	MPN/100ML	
07/05/13 REGULATED SECONDARY TURBIDITY 1 0.10 NTU 07/05/13 REGULATED PRIMARY COLIFORMS >2419.2 1.0 MPN/100ML	06/18/13		REGULATED PRIMARY	E. COLI	250	1.0	MPN/100ML	
07/05/13 REGULATED PRIMARY COLIFORMS >2419.2 1.0 MPN/100ML	07/05/13				1	0.10	NTU	
	07/05/13	***************************************		COLIFORMS	>2419.2	1.0	MPN/100ML	
	07/05/13		REGULATED PRIMARY	E. COLI	120	1.0	MPN/100ML	

			CS	A NO. 5 - WELL # 2			
	Water Level	Temperature =		A NO. 5 WELL'H Z		3-20-1	
Collection D	100	*C	Category	Contaminant OR Bacteria	Results	Reporting Limits	Units
05/25/12	26' - 63'	16.0	REGULATED SECONDARY	TURBIDITY	0.14	0.1	NTU
05/25/12			REGULATED PRIMARY	COLIFORMS	<1.0	1.0	MPN/100ML
05/25/12			REGULATED PRIMARY	E. COLI COLIFORMS	<1.0 35	1.0	MPN/100ML MPN/100ML
06/11/12			REGULATED PRIMARY	E. COLI	<1.0	1.0	MPN/100ML
06/11/12 06/13/12			REGULATED PRIMARY REGULATED SECONDARY	TURBIDITY	ND	0.1	NTU
06/27/12			REGULATED SECONDARY	TURBIDITY	0.13	0.10	NTU
06/27/12	26' - 62'	15.7	REGULATED PRIMARY	COLIFORMS	<1.0	1.0	MPN/100ML
06/27/12			REGULATED PRIMARY	E. COLI	<1.0	1.0	MPN/100ML
07/12/12			REGULATED SECONDARY	TURBIDITY	ND	0.1	NTU
07/12/12		15.7	REGULATED PRIMARY	COLIFORMS	<1.0	1.0	MPN/100ML MPN/100ML
07/12/12			REGULATED PRIMARY	E. COLI COLIFORMS	<1.0 ABSENT	1.0	MPN/100ML
07/18/12 07/18/12		15.1	REGULATED PRIMARY REGULATED PRIMARY	E. COLI	ABSENT	1.0	MPN/100ML
07/18/12		13.1	REGULATED FRIMANI REGULATED SECONDARY	TURBIDITY	0.10	0.1	NTU
07/25/12			REGULATED PRIMARY	COLIFORMS	<1.0	1.0	MPN/100ML
07/25/12	28' - 61'	15.1	REGULATED PRIMARY	E. COLI	<1.0	1.0	MPN/100ML
08/15/12			REGULATED SECONDARY	TURBIDITY	0.11	0.1	NTU
08/15/12			REGULATED PRIMARY	COLIFORMS	<1.0	1.0	MPN/100ML
08/15/12		13.7	REGULATED PRIMARY	E. COLI	<1.0	1.0	MPN/100ML
08/15/12				PARTICULATE TEST DONE	01: 270 / /2001	0 in 270 I /100 and	
08/15/12			PRIMARY BIO-INDICATORS	Giardia	0 in 378 L/100 gal 0/100 gal	0 in 378 L/100 gal 0/100 gal	
08/15/12 08/15/12			PRIMARY BIO-INDICATORS PRIMARY BIO-INDICATORS	Diatoms Insect/Larve	0/100 gal	0/100 gal	
08/15/12			PRIMARY BIO-INDICATORS	Plant Debris	0/100 gal	0/100 gal	
08/15/12			PRIMARY BIO-INDICATORS	Coccidia	0 in 378 L/100 gal	0 in 378 L/100 gal	
08/15/12			PRIMARY BIO-INDICATORS	Other Algae	0/100 gal	0/100 gal	
08/15/12			PRIMARY BIO-INDICATORS	Rotifers	0/100 gal	0/100 gal	
08/15/12			SECONDARY BIO-INDICATORS	Amorphours Debris	TNTC/100 gal	TNTC/100 gal	
08/15/12			SECONDARY BIO-INDICATORS	Plant Pollen	9/100 gal	0/100 gal	
08/15/12	······		SECONDARY BIO-INDICATORS	Crustacea	0/100 gal	0/100 gal 0/100 gal	
08/15/12			SECONDARY BIO-INDICATORS	Cilliates/Flagallates Minerals	0/100 gal 0/100 gal	0/100 gal	
08/15/12 08/15/12			SECONDARY BIO-INDICATORS SECONDARY BIO-INDICATORS	Nematodes	0/100 gal	0/100 gal	
08/15/12			SECONDARY BIO-INDICATORS	Amobea	0/100 gal	0/100 gal	
08/15/12			SECONDARY BIO-INDICATORS	Other Organisms	0/100 gal	0/100 gal	
08/21/12			PRIMARY BIO-INDICATORS	Giardia	0 in 378 L/100 gal	0 in 378 L/100 gal	
08/21/12			PRIMARY BIO-INDICATORS	Diatoms	0/100 gal	0/100 gal	
08/21/12		***************************************	PRIMARY BIO-INDICATORS	Insect/Larve	0/100 gal	0/100 gal	
08/21/12			PRIMARY BIO-INDICATORS	Plant Debris	0/100 gai	0/100 gal	
08/21/12			PRIMARY BIO-INDICATORS	Coccidia Other Algae	0 in 378 L/100 gal 0/100 gal	0 in 378 L/100 gal 0/100 gal	
08/21/12 08/21/12			PRIMARY BIO-INDICATORS PRIMARY BIO-INDICATORS	Rotifers	0/100 gal	0/100 gal	
08/21/12			SECONDARY BIO-INDICATORS	Amorphours Debris	TNTC/100 gal	TNTC/100 gal	
08/21/12			SECONDARY BIO-INDICATORS	Plant Pollen	0/100 gal	0/100 gal	
08/21/12			SECONDARY BIO-INDICATORS	Crustacea	0/100 gal	0/100 gal	
08/21/12			SECONDARY BIO-INDICATORS	Cilliates/Flagallates		0/100 gal	
08/21/12			SECONDARY BIO-INDICATORS	Minerals		0/100 gal	
08/21/12			SECONDARY BIO-INDICATORS	Nematodes	0/100 gal	0/100 gal	
08/21/12			SECONDARY BIO-INDICATORS	Amobea Other Organisms	0/100 gal	0/100 gal 0/100 gal	
08/21/12 08/29/12			SECONDARY BIO-INDICATORS REGULATED SECONDARY	Other Organisms TURBIDITY	0/100 gal 0.11		NTU
08/29/12			REGULATED SECONDARY	COLIFORMS	<1.0		MPN/100ML
08/29/12	20' - 50'	16.3	REGULATED PRIMARY	E. COLI	<1.0		MPN/100ML
09/12/12			REGULATED SECONDARY	TURBIDITY	ND	0.1	NTU
09/12/12		16.6	REGULATED PRIMARY	COLIFORMS	<1.0		MPN/100ML
09/12/12			REGULATED PRIMARY	E. COLI	<1.0	1.0	MPN/100ML
09/24/12	16' - 53'	15.8	REGULATED SECONDARY	TURBIDITY	ND	0.1	NTU
09/24/12			REGULATED PRIMARY	COLIFORMS	<1.0		MPN/100ML MPN/100ML
09/24/12		150	REGULATED PRIMARY REGULATED SECONDARY	E. COLI	<1.0 ND		NTU
10/11/12 10/11/12		15.8	REGULATED SECONDARY REGULATED PRIMARY	TURBIDITY COLIFORMS	<1.0		MPN/100ML
10/11/12			REGULATED PRIMARY	E. COLI			MPN/100ML
11/02/12		15.9	REGULATED FAMILIARY	TURBIDITY			NTU
11/15/12			REGULATED SECONDARY	TURBIDITY		0.1	NTU
11/15/12	14'	16.0	REGULATED PRIMARY	COLIFORMS			MPN/100ML
11/15/12			REGULATED PRIMARY	E. COLI			MPN/100ML
12/04/12			REGULATED SECONDARY				NTU
12/04/12			REGULATED PRIMARY	COLIFORMS			MPN/100ML MPN/100ML
12/04/12		16.0	REGULATED SECONDARY	E. COLI			MPN/100ML NTU
12/31/12 12/31/12		····	REGULATED SECONDARY REGULATED PRIMARY	TURBIDITY COLIFORMS			MPN/100ML
12/31/12	14'	16.3	REGULATED PRIMARY	E. COLI			MPN/100ML
10-11-6		20.0	ACCURE COMMAN				

04/44/40		160			T	1	1
01/14/13	14'	16.8 16.9					
01/28/13	14	10.9	REGULATED SECONDARY	TURBIDITY	0.28	1.0	NTU
02/01/13			REGULATED PRIMARY	COLIFORMS	<1.0	1.0	MPN/100ML
02/01/13	,		REGULATED PRIMARY	E. COLI	<1.0	1.0	MPN/100ML
02/13/13	14'	17.0					
02/21/13			REGULATED SECONDARY	TURBIDITY	0.23	0.1	NTU
02/21/13			REGULATED PRIMARY	COLIFORMS	<1.0	1.0	MPN/100ML
02/21/13			REGULATED PRIMARY	E. COLI	<1.0	1.0	MPN/100ML
03/20/13			OFF LINE	18			ORDERED
03/22/13		400	OFF LINE				WAITING
04/10/13			OFF LINE				WAITING
04/17/13		10.00	OFF LINE	1000 1000 1000 1000			WAITING WAITING
04/17/13			OFF LINE	COLUMNIAC	0/100 gal	1.0	MPN/100ML
05/17/13	FLUSHING	17.6	AFTER NEW PUMP INSTALL	COLIFORMS E. COLI	0/100 gal	1.0	MPN/100ML
05/17/13 05/20/13	FLUSHING FLUSHING	17.6	REGULATED SECONDARY	TURBIDITY	0.16	0.1	NTU
05/20/13	FLUSHING		REGULATED PRIMARY	COLIFORMS	6.2	1.0	MPN/100ML
05/20/13	FLUSHING		REGULATED PRIMARY	COLIFORMS	<1.0	1.0	MPN/100ML
06/03/13	FLUSHING	17.3	REGULATED PRIMARY	COLIFORMS	<1.0	1.0	MPN/100ML
06/03/13	FLUSHING		REGULATED PRIMARY	E. COLI	<1.0	1.0	MPN/100ML
06/04/13	FLUSHING		PRIMARY BIO-INDICATORS	Giardia	0 in 378 L/100 gal	0 in 378 L/100 gal	
06/04/13	FLUSHING		PRIMARY BIO-INDICATORS	Diatoms	0/100 gal	0/100 gal	
06/04/13	FLUSHING		PRIMARY BIO-INDICATORS	Insect/Larve	0/100 gal	0/100 gal	
06/04/13	FLUSHING		PRIMARY BIO-INDICATORS	Plant Debris	0/100 gal	0/100 gal	
06/04/13	FLUSHING		PRIMARY BIO-INDICATORS	Coccidia	0 in 378 L/100 gal	0 in 378 L/100 gal	
06/04/13	FLUSHING		PRIMARY BIO-INDICATORS	Other Algae	0/100 gal	0/100 gal	
06/04/13	FLUSHING		PRIMARY BIO-INDICATORS	Rotifers	0/100 gal	0/100 gai	
06/04/13	FLUSHING		SECONDARY BIO-INDICATORS	Amorphours Debris	TNTC/100 gal	TNTC/100 gal	
06/04/13	FLUSHING		SECONDARY BIO-INDICATORS	Plant Pollen	0/100 gal	0/100 gal	
06/04/13	FLUSHING		SECONDARY BIO-INDICATORS	Crustacea	0/100 gal	0/100 gal 0/100 gal	
06/04/13 06/04/13	FLUSHING		SECONDARY BIO-INDICATORS	Cilliates/Flagallates Minerals	0/100 gal 0/100 gal	0/100 gal	-
06/04/13	FLUSHING FLUSHING		SECONDARY BIO-INDICATORS SECONDARY BIO-INDICATORS	Nematodes	0/100 gal	0/100 gal	
06/04/13	FLUSHING		SECONDARY BIO-INDICATORS	Amobea	0/100 gal	0/100 gai	
06/04/13	FLUSHING		SECONDARY BIO-INDICATORS	Other Organisms	0/100 gal	0/100 gal	
06/10/13				PARTICULATE TEST DONE			5 S S S S S S S S S S S S S S S S S S S
06/10/13	32' - 70'	17.4	PRIMARY BIO-INDICATORS	Giardia	0 in 378 L/100 gal	0 in 378 L/100 gal	
06/10/13			PRIMARY BIO-INDICATORS	Diatoms	0/100 gal	0/100 gal	
06/10/13			PRIMARY BIO-INDICATORS	Insect/Larve	0/100 gal	0/100 gal	
06/10/13			PRIMARY BIO-INDICATORS	Plant Debris	0/100 gal	0/100 gal	
06/10/13			PRIMARY BIO-INDICATORS	Coccidia	0 in 378 L/100 gal	0 in 378 L/100 gal	ļ
06/10/13			PRIMARY BIO-INDICATORS	Other Algae	0/100 gal	0/100 gal	-
06/10/13			PRIMARY BIO-INDICATORS	Rotifers	0/100 gal	0/100 gal	
06/10/13			SECONDARY BIO-INDICATORS	Amorphours Debris	TNTC/100 gal	TNTC/100 gal	
06/10/13			SECONDARY BIO-INDICATORS	Plant Pollen	0/100 gai	0/100 gal	
06/10/13			SECONDARY BIO-INDICATORS	Crustacea	0/100 gal	0/100 gal 0/100 gal	
06/10/13 06/10/13			SECONDARY BIO-INDICATORS SECONDARY BIO-INDICATORS	Cilliates/Flagallates Minerals	0/100 gal 0/100 gal	0/100 gal	
06/10/13			SECONDARY BIO-INDICATORS	Nematodes	0/100 gal	0/100 gal	
06/10/13			SECONDARY BIO-INDICATORS	Amobea	0/100 gal	0/100 gal	
06/10/13			SECONDARY BIO-INDICATORS	Other Organisms	0/100 gal	0/100 gai	
06/16/13	21' - 59'	17.5	REGULATED PRIMARY	COLIFORMS	1.0	1.0	MPN/100ML
06/16/13			REGULATED PRIMARY	E. COLI	<1.0	1.0	MPN/100ML
06/17/13			REGULATED SECONDARY	TURBIDITY	0.18	0.1	NTU
06/17/13			GENERAL MINERAL-GENERAL PHYSICAL- INORGANIC CHEMICAL				
06/18/13			PRE CL2	COLIFORMS	<1.0	1.0	MPN/100ML MPN/100ML
06/18/13		460	PRE CL2	E. COLI	<1.0 <1.0	1.0	MPN/100ML MPN/100ML
06/18/13		16.0	POST CL2	COLIFORMS		1.0	MPN/100ML
06/18/13 06/18/13			POST CL2	E. COLI PARTICULATE TEST DONE	-1.0	1.0	WIT TO TOURIE
06/18/13			PRIMARY BIO-INDICATORS	Giardia	0 in 378 L/100 gal	0 in 378 L/100 gal	
06/18/13			PRIMARY BIO-INDICATORS	Diatoms		0/100 gal	
06/18/13			PRIMARY BIO-INDICATORS	Insect/Larve		0/100 gal	
06/18/13			PRIMARY BIO-INDICATORS	Plant Debris		0/100 gal	
06/18/13		***************************************	PRIMARY BIO-INDICATORS	Coccidia		0 in 378 L/100 gal	
06/18/13			PRIMARY BIO-INDICATORS	Other Algae		0/100 gal	
06/18/13			PRIMARY BIO-INDICATORS	Rotifers		0/100 gal	
06/18/13			SECONDARY BIO-INDICATORS	Amorphours Debris	TNTC/100 gal	TNTC/100 gal	
06/18/13			SECONDARY BIO-INDICATORS	Plant Pollen		0/100 gal	
06/18/13			SECONDARY BIO-INDICATORS	Crustacea		0/100 gal	
06/18/13			SECONDARY BIO-INDICATORS SECONDARY BIO-INDICATORS	Cilliates/Flagallates	0/100 gal	0/100 gal	
			SECONDARY BIO-INDICATORS		0/100 gal 0/100 gal		

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06/18/13			SECONDARY BIO-INDICATORS	Amobea	0/100 gal	0/100 gal	
06/18/13			SECONDARY BIO-INDICATORS	Other Organisms	0/100 gal	0/100 gal	
06/19/13			REGULATED PRIMARY	COLIFORMS	<1.0	1.0	MPN/100ML
06/19/13			REGULATED PRIMARY	E. COLI	<1.0	1.0	MPN/100ML
07/05/13	20' - 62'	17.4	REGULATED SECONDARY	TURBIDITY	0.18	0.1	NTU
07/05/13			REGULATED PRIMARY	COLIFORMS	1.0	1.0	MPN/100ML
07/05/13			REGULATED PRIMARY	E. COLI	<1.0	1.0	MPN/100ML

CSA NO. 5 - KINGS RIVER TRIBUTARY # 2

	1_		CSA NO. 5 - KINGS RIVER T	RIBUTART # 2			
	Temperature =						N-4
Collection Date	•c	Category	Contaminant OR Bacteria	Results	Reporting Limits	Units NTU	Notes
05/25/12	18.4	REGULATED SECONDARY	TURBIDITY	1.7	0.10		
05/25/12		REGULATED PRIMARY	COLIFORMS	>2419.2	1.0	MPN/100ML	
05/25/12		REGULATED PRIMARY	E. COLI	140	1.0	MPN/100ML	
06/11/12	18.6	REGULATED SECONDARY	TURBIDITY	0.27	0.10	NTU A SOLAL	
06/11/12		REGULATED PRIMARY	COLIFORMS	>2419.2	1.0	MPN/100ML	
06/11/12		REGULATED PRIMARY	E. COLI	23	1.0	MPN/100ML	
06/27/13	18.8					.1714	
06/28/12		REGULATED SECONDARY	TURBIDITY	0.6	0.10	NTU	
06/28/12	19.0	REGULATED PRIMARY	COLIFORMS	>2419.2	1,0	MPN/100ML	
06/28/12		REGULATED PRIMARY	E. COLI	26	1.0	MPN/100ML	
07/12/12		UNSAMPLEABLE					
07/18/12		UNSAMPLEABLE					
07/25/12		UNSAMPLEABLE					
08/15/12		UNSAMPLEABLE					
08/16/12		UNSAMPLEABLE					
08/21/12		UNSAMPLEABLE					
08/29/12		UNSAMPLEABLE					
0912/12		UNSAMPLEABLE					
09/24/12		UNSAMPLEABLE					
10/11/12		UNSAMPLEABLE					
11/16/12		UNSAMPLEABLE					
12/04/12		UNSAMPLEABLE					
12/31/12		UNSAMPLEABLE					
02/01/13		UNSAMPLEABLE					
02/21/13		UNSAMPLEABLE					
03/20/13		UNSAMPLEABLE					
03/22/13		UNSAMPLEABLE					
04/10/13		UNSAMPLEABLE					
04/17/13		UNSAMPLEABLE					
05/02/13	20,000	UNSAMPLEABLE					
05/06/13		UNSAMPLEABLE					
04/17/13	19.2						
05/02/13	19.5						
05/20/13	19.2	REGULATED SECONDARY	TURBIDITY	0.67	0.10	NTU	
05/20/13	20.0	REGULATED PRIMARY	COLIFORMS	>2419.2	1.0	MPN/100ML	
05/20/13		REGULATED PRIMARY	E. COLI	16	1.0	MPN/100ML	
06/17/13		REGULATED SECONDARY	TURBIDITY	0.43	0.10	NTU	
06/17/13		REGULATED PRIMARY	COLIFORMS	1600	1.0	MPN/100ML	
06/17/13	22,3	REGULATED PRIMARY	E. COLI	11	1.0	MPN/100ML	
06/18/13	<u> </u>	REGULATED PRIMARY	COLIFORMS	>2419.2	1.0	MPN/100ML	
06/18/13	· · · · · · · · · · · · · · · · · · ·	REGULATED PRIMARY	E. COLI	280	1.0	MPN/100ML	
07/05/13		REGULATED SECONDARY	TURBIDITY	1	0.10	NTU	
07/05/13		REGULATED PRIMARY	COLIFORMS	>2419.2	1.0	MPN/100ML	
07/05/13		REGULATED PRIMARY	E. COLI	120	1.0	MPN/100ML	

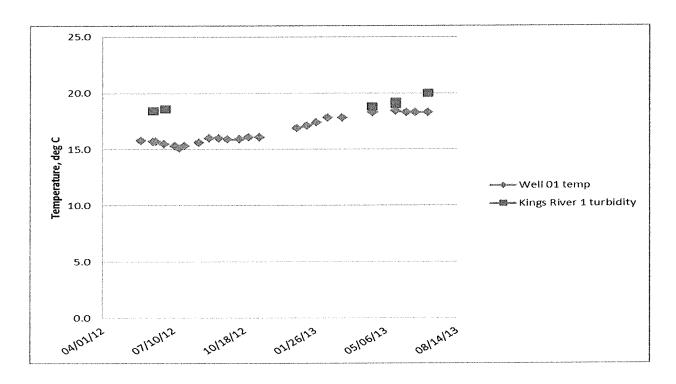


Figure 1. Temperature Comparison at Well 01 and Kings River Tributary # 1

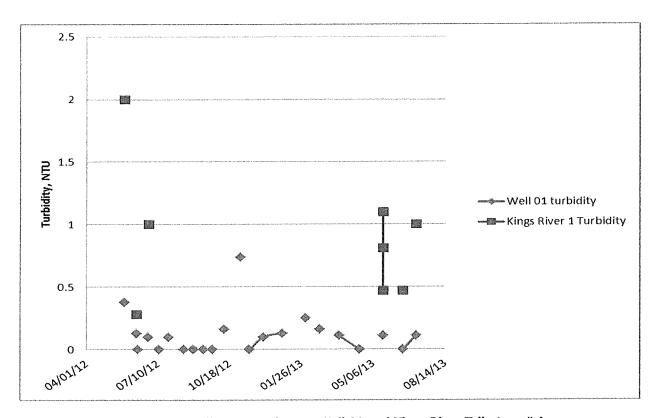


Figure 2. Turbidity Comparison at Well 01 and Kings River Tributary # 1

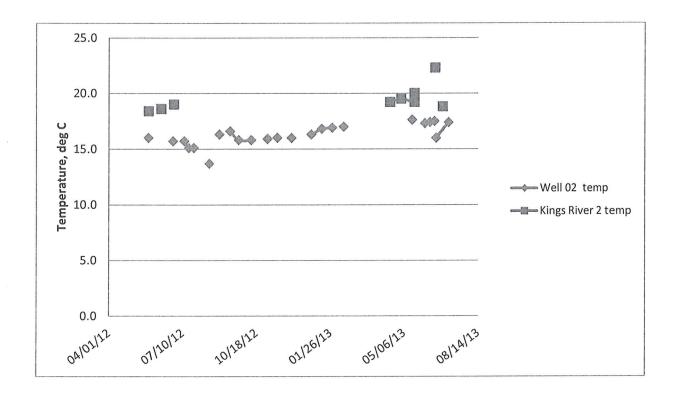


Figure 3. Temperature Comparison at Well 02 and Kings River Tributary # 2

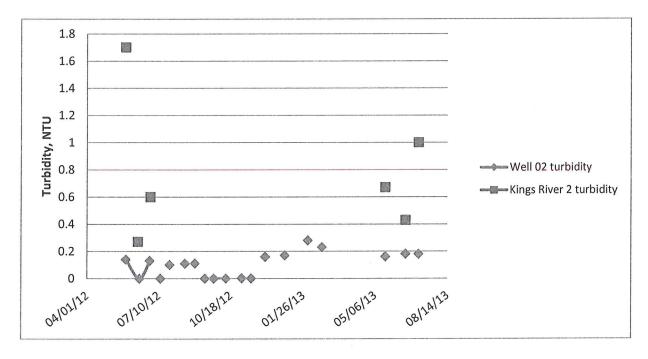


Figure 4. Turbidity Comparison at Well 02 and Kings River Tributary # 2