APPENDIX C

WILLOWS STUDY AREA

WATER QUALITY DATA

APPENDIX C: **WILLOWS STUDY AREA WATER QUALITY DATA**

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NOTE:

- Values reported as <##, < Reporting Limit was used.
- For *E. coli*, values reported as >2419.6 was used for evaluation.
- For summary calculations, one fourth of any < (less than) values were used.
- Reporting Limit values vary between labs depending on dilution factor, EPA method, and/or laboratory.
- Summary calculations are based on raw data values.

C 1: Ag Drain C at Road 60 (520GEL003)

	Field Data					Bacteria	General Chemistry							Inorganics		
Date	Dissolved Oxygen	pH	Water Temperature	Turbidity	Specific Conductivity	*E. coli*	Boron	Chloride	Fluoride	Perchlorate	Sodium	Sulfate	Total Dissolved Solids	Total Calcium	Total Hardness	Total Magnesium
	mg/L		°C	ntu	µS/cm	MPN	µg/L	mg/L								
4/17/2012	13.1	8.29	17.7	73.1	120		270				150			21	130	19.6
5/9/2012	6.34	7.81	18.5	16.3	580											
5/22/2012	6.98	7.72	20.4	29.2	350		190				87					
6/5/2012	7.92	7.97	17.2	8.10	510											
6/28/2012	4.90	7.56	21.6	27.3	410		250				46					
7/10/2012	5.42	7.39	23.2	19.2	400											
7/24/2012	5.78	7.42	22.3	11.6	420		240				39					
8/15/2012	7.16	7.62	22.0	34.9	410	111								25	150	21.7
8/28/2012	8.08	7.74	18.1	43.2	480	116	160				42					
9/11/2012	6.68	7.69	16.6	35.3	480	166										
9/25/2012	4.89	7.92	18.0	61.4	530	261	200	13	0.35	< 4.0	54	40	290	30	180	25
10/9/2012	9.83	8.04	15.6	25.2	570	613										
10/25/2012	8.99	7.79	12.9	57.0	620			15			49	60	350	28	170	24
11/13/2012	7.58	7.41	11.9	32.5	550	178										
11/29/2012	8.05	7.73	13.3	96.2	480		170	12			54	60	310		154	
12/11/2012	10.8	7.64	11.8	51.7	510	65.0										
12/26/2012	10.4	7.64	7.77	397	260		120				25			15	99	15
1/8/2013	12.5	7.75	10.6	36.6	530	36.8										
1/29/2013	9.42	7.91	10.4	62.1	600		220	11	0.48	< 4.0	61	60	340	31	190	28
2/12/2013	13.4	8.25	13.3	63.4	820	45.0										
2/28/2013	15.6	8.32	16.2	32.6	750		270	15			79	90	440	36	230	33
3/12/2013	9.88	8.19	15.8	47.1	780	173										
3/27/2013	12.6	8.12	15.1	60.4	690		210	15	0.39	< 2.0	60.	60	330	31	180	26
4/24/2013	12.1	8.14	15.3	21.4	530	866		11			55	60	340	27	170	24
5/20/2013	8.53	7.88	20.4	15.1	200	> 2420		3.2			21	10	130	15	78	10
6/18/2013	6.73	7.71	22.3	13.7	320	26.5		3.1	0.32	< 2.0	29	20	170	16	94	13
7/24/2013		7.64	26.7	33.1	440	135		7.8			40	30	260	25	160	22
8/27/2013	6.68	7.51	19.2	36.6	450	81.2		8.2			42	30	240	25	150	22
9/24/2013		7.91	20.7	32.9	670	238		17	0.48	< 2.0	71	60	380	34	210	30
Count	27	29	29	29	29	16	11	12	5	5	18	12	12	14	15	14
Min	4.89	7.39	7.77	8.10	120	26.5	120	3.1	0.32	< 2.0	21	10	130	15	78	10
Max	15.6	8.32	26.7	397	820	> 2420	270	17	0.48	< 4.0	150	90	440	36	230	33
Median	8.08	7.75	17.2	34.9	510	151	210	11	0.39	< 2.0	51	60	320	26	160	23
Mean	8.90	7.82	17.1	50.8	500	346	210	11	0.40	0.7	56	50	300	26	156	22

C 1: Ag Drain C at Road 60 (520GEL003) continued…

	Nutrients		Metals									
	Nitrate as N	Nitrite as N	Dissolved Aluminum	Dissolved Arsenic	Dissolved Iron	Dissolved Manganese	Total Aluminum	Total Antimony	Total Arsenic	Total Barium	Total Beryllium	Total Cadmium
Date	mg/L		µg/L									
4/17/2012	3.2	< 0.15					4000		< 10.			
5/9/2012												
5/22/2012	0.14	< 0.15					1400		< 10.			
6/5/2012												
6/28/2012	0.82						640		3.1			
7/10/2012												
7/24/2012							260		< 10.			
8/15/2012												
8/28/2012	0.85						510		< 10.			
9/11/2012												
9/25/2012	2.1		< 50.		42.6	33	3400	< 5	2.4	94	< 1	< 1
10/9/2012												
10/25/2012	1.8											
11/13/2012												
11/29/2012	0.89											
12/11/2012												
12/26/2012	0.93											
1/8/2013												
1/29/2013	1.2		< 5.0		48.0	2.2	2300	< 0.5		87	< 0.5	< 0.3
2/12/2013												
2/28/2013	3.0											
3/12/2013												
3/27/2013	3.6		11		13.0	25	2100	< 0.5		89	< 0.5	< 0.3
4/24/2013	1.3			2.0					2.3			
5/20/2013	< 0.22			1.9					2.8			
6/18/2013	< 0.22		9.1	2.7	82.0	1.0	530	< 0.5	3.8	50.	< 0.5	< 0.3
7/24/2013	1.2			2.0					3.3			
8/27/2013	0.77			1.4					2.9			
9/24/2013	2.3		2.5	2.9	23.0	4.3	1200	< 0.5	3.0	83	< 0.5	< 0.3
Count	17	2	5	6	5	5	10	5	12	5	5	5
Min	0.14	< 0.15	2.5	1.4	13.0	1.0	260	< 0.5	2.3	50.	< 0.5	< 0.3
Max	3.6	< 0.15	< 50	2.9	82.0	33	4000	< 5	< 10.	94	< 1	< 1
Median	1.2	< 0.15	9.1	2.0	42.6	4.3	1300	< 0.5	3.2	87	< 0.5	< 0.3
Mean	1.4	< 0.15	7.3	2.2	41.7	13	1600	0.4	2.7	81	0.2	0.1

C 1: Ag Drain C at Road 60 (520GEL003) continued…

	Metals												
	Total Chromium	Total Copper	Total Iron	Total Lead	Total Manganese	Total Mercury	Total Molybdenum	Total Nickel	Total Selenium	Total Silver	Total Thallium	Total Vanadium	Total Zinc
Date	µg/L												
4/17/2012			3400		210								
5/9/2012													
5/22/2012			1900		160								
6/5/2012													
6/28/2012			1300		98								
7/10/2012													
7/24/2012			1200		300								
8/15/2012													
8/28/2012			1400		97								
9/11/2012													
9/25/2012	10.	9.0	4900	1.3	290	< 0.2	< 5.0	12	< 20.	< 5	< 1.0	16	16
10/9/2012													
10/25/2012													
11/13/2012													
11/29/2012													
12/11/2012													
12/26/2012													
1/8/2013													
1/29/2013	6.1	6.2	3900	1.2	170	< 0.2		7.2	< 1.0	< 1	< 1.0		8.7
2/12/2013													
2/28/2013													
3/12/2013													
3/27/2013	6.5	7.0	3000	1.0	110	< 0.2		7.8	< 1.0	< 1	< 1.0		13
4/24/2013													
5/20/2013													
6/18/2013	1.6	4.6	1100	0.35	250	< 0.2		4.0	< 1.0	< 1	< 1.0		< 5.0
7/24/2013													
8/27/2013													
9/24/2013	3.6	3.5	1400	0.58	100	< 0.2		4.4	< 1.0	< 0.3	< 1.0		5.6
Count	5	5	10	5	10	5	1	5	5	5	5	1	5
Min	1.6	3.5	1100	0.35	97	< 0.2	< 5.0	4.0	< 1.0	< 0.3	< 1.0	16	< 5.0
Max	10.	9.0	5400	1.3	300	< 0.2	< 5.0	12	< 20.	< 5	< 1.0	16	16
Median	6.1	6.2	1600	1.0	170	< 0.2	< 5.0	7.2	< 1.0	< 1	< 1.0	16	8.7
Mean	5.6	6.1	2500	0.89	180	< 0.2	< 5.0	7.1	1.2	0.4	< 1.0	16	8.9

C 1: Ag Drain C at Road 60 (520GEL003) continued…

	Organics																													
	1,1,1,2-Tetrachloroethane		1,1,1-Trichloroethane (TCA)		1,1,2,2-Tetrachloroethane		1,1,2-Trichloroethane		1,1-Dichloroethane		1,1-Dichloroethene		1,1-Dichloropropene		1,2,3-Trichlorobenzene		1,2,3-Trichloropropane (123TCP)		1,2,4-Trichlorobenzene		1,2,4-Trimethylbenzene		1,2-Dibromo-3-chloropropane (DBCP)		1,2-Dibromoethane (EDB)		1,2-Dichlorobenzene		1,2-Dichloroethane (1,2-DCA)	
Date	µg/L																													
4/17/2012	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
5/9/2012																														
5/22/2012	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
6/5/2012																														
6/28/2012	<	0.5	<	0.5					<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	10	<	5	<	0.12	<	2
7/10/2012																														
7/24/2012																														
8/15/2012	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
8/28/2012																														
9/11/2012																														
9/25/2012																														
10/9/2012																														
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3/27/2013																														
4/24/2013																														
5/20/2013																														
6/18/2013																														
7/24/2013																														
8/27/2013																														
9/24/2013																														
Count		4		4		3		3		4		4		4		4		4		4		4		4		4		4		4
Min	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.12	<	0.5
Max	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	10	<	5	<	0.5	<	2
Median	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
Mean	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5								

C 1: Ag Drain C at Road 60 (520GEL003) continued…

	Organics															
Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Isopropyltoluene	Acetone	Acrolein	Acrylonitrile	Benzene
	µg/L														
4/17/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5			< 0.5
5/9/2012															
5/22/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5			< 0.5
6/5/2012															
6/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5					< 0.5			< 10	< 5	< 0.5
7/10/2012															
7/24/2012															
8/15/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	5.2			< 0.5
8/28/2012															
9/11/2012															
9/25/2012															
10/9/2012															
10/25/2012															
11/13/2012															
11/29/2012															
12/11/2012															
12/26/2012															
1/8/2013															
1/29/2013															
2/12/2013															
2/28/2013															
3/12/2013															
3/27/2013															
4/24/2013															
5/20/2013															
6/18/2013															
7/24/2013															
8/27/2013															
9/24/2013															
Count	4	4	4	4	4	3	3	3	3	4	3	3	1	1	4
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 10	< 5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	5.2	< 10	< 5	< 0.5
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 10	< 5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	2.6	< 10	< 5	< 0.5

C 1: Ag Drain C at Road 60 (520GEL003) continued…

	Organics															
Date	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane
	µg/L															
4/17/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
5/9/2012																
5/22/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
6/5/2012																
6/28/2012		< 0.5	< 0.5	< 0.5	< 2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5		
7/10/2012																
7/24/2012																
8/15/2012	< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5		< 0.5	< 0.5
8/28/2012			< 0.5	< 0.5						< 0.5				< 0.5		
9/11/2012																
9/25/2012																
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013																
4/24/2013																
5/20/2013																
6/18/2013																
7/24/2013																
8/27/2013																
9/24/2013																
Count	3	4	4	4	4	4	4	4	4	4	3	4	4	4	3	3
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

C 1: Ag Drain C at Road 60 (520GEL003) continued…

	Organics															
Date	Di-isopropyl ether	Ethanol	Ethyl tert-Butyl Ether	Ethylbenzene	Gasoline Range Hydrocarbons	Hexachlorobutadiene	Hexavalent Chromium	Iodomethane	Isopropylbenzene	m,p-Xylene	MBAs	Methylene chloride	Methyl-tert-Butyl Ether (MTBE)	Naphthalene	n-Butylbenzene	n-Propylbenzene
	µg/L															
4/17/2012	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5		< 0.5	< 0.5	< 1	< 0.1	< 5		< 0.5	< 0.5	< 0.5
5/9/2012																
5/22/2012	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5		< 0.5	< 0.5	< 1	< 0.1	< 5		< 0.5	< 0.5	< 0.5
6/5/2012																
6/28/2012				< 0.5		< 0.5			< 0.5	< 0.5	< 0.1	< 1	< 1	< 0.5	< 0.5	< 0.5
7/10/2012																
7/24/2012																
8/15/2012	< 0.5	< 20	< 0.5	< 0.5		< 0.5		< 0.5	< 0.5	< 1		< 5		< 0.5	< 0.5	< 0.5
8/28/2012											< 0.1					
9/11/2012																
9/25/2012							< 10									
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013																
4/24/2013																
5/20/2013																
6/18/2013																
7/24/2013																
8/27/2013																
9/24/2013																
Count	3	3	3	4	2	4	1	3	4	4	4	4	1	4	4	4
Min	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 10	< 0.5	< 0.5	< 0.5	< 0.1	< 1	< 1	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 10	< 0.5	< 0.5	< 1	< 0.1	< 5	< 1	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 10	< 0.5	< 0.5	< 1	< 0.1	< 5	< 1	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 10	< 0.5	< 0.5		< 0.1	< 4	< 1	< 0.5	< 0.5	< 0.5

C 1: Ag Drain C at Road 60 (520GEL003) continued…

	Organics																
Date	o-Xylene	Perchlorate	sec-Butylbenzene	Styrene	TBA	Tert-Amyl Methyl Ether	tert-Butylbenzene	Tetrachlorethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl chloride	Xylenes, total
	µg/L															
4/17/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
5/9/2012																
5/22/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
6/5/2012																
6/28/2012	< 0.5		< 10				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	
7/10/2012																
7/24/2012																
8/15/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
8/28/2012																
9/11/2012																
9/25/2012		< 4														
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013		< 4														
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013		< 2														
4/24/2013																
5/20/2013																
6/18/2013		< 2														
7/24/2013																
8/27/2013																
9/24/2013		< 2														
Count	4	5	4	3	3	3	4	4	4	4	4	4	3	3	4	3
Min	< 0.5	< 2	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Max	< 0.5	< 4	< 10	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Median	< 0.5	< 2	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Mean	< 0.5			< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1

C 2: Ag Drain C, 100 ft downstream (520GEL004)

	Field Data					Bacteria	General Chemistry							Inorganics		
Date	Dissolved Oxygen	pH	Water Temperature	Turbidity	Specific Conductivity	*E. coli*	Boron	Chloride	Fluoride	Perchlorate	Sodium	Sulfate	Total Dissolved Solids	Total Calcium	Total Hardness	Total Magnesium
	mg/L		°C	ntu	µS/cm	MPN	µg/L	mg/L								
4/17/2012	13.5	8.13	15.3	17	670		**240**				**100**					
5/9/2012	7.47	7.82	18.3	32	490											
5/22/2012	7.67	7.80	18.0	15	600		210				100					
6/5/2012	9.40	7.96	16.8	9.3	510											
6/28/2012	6.07	7.55	20.1	35	430		230				40					
7/10/2012	7.99	7.77	22.2	39	430											
7/24/2012	8.46	7.75	23.1	49	430		180				40			21	140	20
8/15/2012	8.39	7.83	22.9	60.	460	167								24.7	170	24.4
8/28/2012	10.8	8.02	19.7	18	510	86.2	170				50					
9/11/2012	9.42	8.14	20.7	16	570	125										
9/25/2012	11.4	8.33	21.7	25	540	285	180	20	0.31	< 4.0	50	35	300	30	180	23
10/9/2012	12.7	8.52	18.5	7.4	630	2420										
10/25/2012	13.4	8.39	15.2	8.3	570			20			60	45	340	28	180	25
11/13/2012	13.6	8.11	13.8	15	610	179										
11/29/2012	9.10	7.83	13.9	35	550		160	20			60	43	320		168	
12/11/2012	9.54	7.74	12.6	23	610	201										
12/26/2012	10.4	7.61	8.13	370	270		120				30			15	98	14
1/8/2013	12.3	7.99	12.1	19	630	62.4										
1/29/2013	14.1	8.30	11.9	10.	620		220	20	0.46	< 2.0	70	60.	380	31	210	29
2/12/2013	15.8	8.50	13.5	9	780	57.6										
2/28/2013	13.3	8.28	15.6	19	640		250	20			80	81	430	36	230	33
3/12/2013	8.80	8.28	15.9	25	740	140.										
3/27/2013	11.1	8.08	15.6	15	720		250	30	0.51	< 2.0	80	78	420	31	220	31
4/9/2013	8.75	7.84	13.6	18	1400											
4/24/2013	10.2	8.36	19.0	35	450	238		10			50	41	280	27	140	20
5/20/2013	13.2	8.24	20.2	19	550	866		20			60	39	320	15	170	24
6/18/2013	12.5	8.02	21.1	21	450	172		10	0.41	< 2.0	50	31	260	16	140	21
7/16/2013	4.00	7.59	19.4	25	590											
7/24/2013		7.81	27.2	44	480	687		10			40	28	280	25	170	23
8/6/2013	8.50	7.60	21.8	25	490											
8/27/2013	10.0	8.01	22.0	21	610			10			60	44	330	25	190	28
9/3/2013	7.00	7.96	18.7	35	680											
9/24/2013		8.34	21.4	10.	650	153		20	0.40	< 2.0	70	54	390	34	200	28
Count	31	33	33	33	33	15	11	12	5	5	18	12	12	14	15	14
Min	4.00	7.55	8.13	7.4	270	57.6	120	10	0.31	< 2.0	30	28	260	15	98	14
Max	15.8	8.52	27.2	370	1400	> 2420	250	30	0.51	< 4.0	100	81	430	36	230	33
Median	10.0	8.01	18.5	21	570	172	210	20	0.41	< 2.0	60	44	330	26	170	24
Mean	10.3	8.02	17.9	34	590	389	200	20	0.42	0.6	60	48	340	26	174	25

C 2: Ag Drain C, 100 ft downstream (520GEL004) continued…

	Nutrients		Metals									
	Nitrate as N	Nitrite as N	Dissolved Aluminum	Dissolved Arsenic	Dissolved Iron	Dissolved Manganese	Total Aluminum	Total Antimony	Total Arsenic	Total Barium	Total Beryllium	Total Cadmium
Date	mg/L		µg/L									
4/17/2012	4.19	< 0.15					1100		< 10.			
5/9/2012												
5/22/2012	2.43	< 0.15					600		< 10.			
6/5/2012												
6/28/2012	1.52						610		2.5			
7/10/2012												
7/24/2012							350		< 10.			
8/15/2012												
8/28/2012	1.78						390		< 10.			
9/11/2012												
9/25/2012	4.41		< 50.		45.6	30.	650	< 5	1.8	78	< 1	< 1
10/9/2012												
10/25/2012	4.31											
11/13/2012												
11/29/2012	1.81											
12/11/2012												
12/26/2012	1.56											
1/8/2013												
1/29/2013	3.20		< 5.0		10.0	1.3	430	< 0.5		79	< 0.5	< 0.3
2/12/2013												
2/28/2013	4.70											
3/12/2013												
3/27/2013	8.00		12.0		13.0	14	1300	< 0.5		100	< 0.5	< 0.3
4/9/2013												
4/24/2013	1.50			1.7					2.0			
5/20/2013	2.90			2.0					2.8			
6/18/2013	1.30		8.7	2.2	42.0	1.4	950	< 0.5	2.8	75	< 0.5	< 0.3
7/16/2013												
7/24/2013	2.30			1.9					2.5			
8/6/2013												
8/27/2013	2.00			1.9					2.1			
9/3/2013												
9/24/2013	5.20		< 5.0	2.6	16.0	19	370	< 0.5	2.5	79	< 0.5	< 0.3
Count	17	2	5	6	5	5	10	5	12	5	5	5
Min	1.30	< 0.15	< 5.0	1.7	10.0	1.3	350	< 0.5	1.8	75	< 0.5	< 0.3
Max	8.00	< 0.15	< 50.	2.6	45.6	30.	1300	< 5	< 10.	100	< 1	< 1
Median	2.43	< 0.15	8.7	2.0	16.0	14	600	< 0.5	2.7	79	< 0.5	< 0.3
Mean	3.12	< 0.15	7.1	2.1	25.3	13	680	0.4	2.4	82	0.2	0.1

C 2: Ag Drain C, 100 ft downstream (520GEL004) continued…

	Metals												
	Total Chromium	Total Copper	Total Iron	Total Lead	Total Manganese	Total Mercury	Total Molybdenum	Total Nickel	Total Selenium	Total Silver	Total Thallium	Total Vanadium	Total Zinc
Date	µg/L												
4/17/2012			1500		97								
5/9/2012													
5/22/2012			910		55								
6/5/2012													
6/28/2012			1000		82								
7/10/2012													
7/24/2012			860		100								
8/15/2012													
8/28/2012			1100		80.								
9/11/2012													
9/25/2012	< 5.0	< 5.0	910	< 1	55	0.2	< 5.0	< 5.0	< 20.	< 5	< 1.0	< 10	5.5
10/9/2012													
10/25/2012													
11/13/2012													
11/29/2012													
12/11/2012													
12/26/2012													
1/8/2013													
1/29/2013	2.4	2.4	590	0.2	43	< 0.2		2.8	< 1.0	< 1	< 1.0		5.7
2/12/2013													
2/28/2013													
3/12/2013													
3/27/2013	4.2	5.2	1800	0.8	88	< 0.2		5.0	< 1.0	< 1	< 1.0		12
4/9/2013													
4/24/2013													
5/20/2013													
6/18/2013	2.9	5.0	1300	0.4	56	< 0.2		4.7	< 1.0	< 1	< 1.0		6.5
7/16/2013													
7/24/2013													
8/6/2013													
8/27/2013													
9/3/2013													
9/24/2013	1.6	2.1	490	0.3	50	< 0.2		2.4	< 1.0	< 0.3	< 1.0		5.3
Count	5	5	10	5	10	5	1	5	5	5	5	1	5
Min	1.6	2.1	490	0.2	43	< 0.2	< 5.0	2.4	< 1.0	< 0.3	< 1.0	< 10	5.3
Max	< 5.0	5.2	1800	< 1	100	0.2	< 5.0	< 5.0	< 20.	< 5	< 1.0	< 10	12
Median	2.9	< 5.0	960	0.4	68	< 0.2	< 5.0	4.7	< 1.0	< 1	< 1.0	< 10	5.7
Mean	2.5	3.2	1000	0.4	71	0.08	< 5.0	3.2	1.2	0.4	< 1.0	< 10	7.0

C 2: Ag Drain C, 100 ft downstream (520GEL004) continued…

Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane (TCA)	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane (123TCP)	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane (1,2-DCA)
	Organics															
	µg/L															
4/17/2012	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
5/9/2012																
5/22/2012	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
6/5/2012																
6/28/2012	< 0.5	< 0.5				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 5	< 0.5	< 2
7/10/2012																
7/24/2012																
8/15/2012	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
8/28/2012																
9/11/2012																
9/25/2012	< 0.5	< 0.5				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 5	< 0.5	< 2
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013	< 0.5	< 0.5				< 0.5	< 0.5			< 5	< 5	< 5	< 5	< 0.5	< 0.5	< 0.5
2/28/2013																
3/12/2013																
3/27/2013	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 5	< 5	< 0.5	< 0.5	< 0.5
4/9/2013																
4/24/2013																
5/20/2013																
6/18/2013	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 5	< 5	< 0.5	< 0.5	< 0.5
7/16/2013																
7/24/2013																
8/6/2013																
8/27/2013																
9/3/2013																
9/24/2013	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 5	< 5	< 0.5	< 0.5	< 0.5
Count	9	9	6	3	6	9	9	8	8	9	9	9	9	9	9	9
Min	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 5	< 10	< 5	< 0.5	< 2
Median	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5								< 0.5	

C 2: Ag Drain C, 100 ft downstream (520GEL004) continued…

	Organics															
Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Isopropyltoluene	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene
	µg/L															
4/17/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5			< 0.5	< 0.5
5/9/2012																
5/22/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5			< 0.5	< 0.5
6/5/2012																
6/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5					< 0.5			< 10	< 5	< 0.5	
7/10/2012																
7/24/2012																
8/15/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	5.1			< 0.5	< 0.5
8/28/2012																
9/11/2012																
9/25/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5		< 0.5			< 10	< 5	< 0.5	< 0.5
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013	< 0.5	< 5	< 0.5		< 0.5										< 0.5	
2/28/2013																
3/12/2013																
3/27/2013	< 0.5	< 5	< 0.5	< 5	< 0.5	< 5	< 20	< 5	< 20	< 0.5		< 20			< 0.5	< 0.5
4/9/2013																
4/24/2013																
5/20/2013																
6/18/2013	< 0.5	< 5	< 0.5	< 5	< 0.5	< 5	< 20	< 5	< 20	< 0.5		< 20			< 0.5	< 0.5
7/16/2013																
7/24/2013																
8/6/2013																
8/27/2013																
9/3/2013																
9/24/2013	< 0.5	< 5	< 0.5	< 5	< 0.5	< 5	< 20	< 5	< 20	< 0.5		< 20			< 0.5	< 0.5
Count	9	9	9	8	9	6	6	7	6	8	3	6	2	2	9	7
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 10	< 5	< 0.5	< 0.5
Max	< 0.5	< 5	< 0.5	< 5	< 0.5	< 5	< 20	< 5	< 20	< 0.5	< 0.5	< 20	< 10	< 5	< 0.5	< 0.5
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	3	13	< 0.5	< 12.5	< 0.5	< 0.5	13	< 10	< 5	< 0.5	< 0.5
Mean	< 0.5		< 0.5		< 0.5					< 0.5	< 0.5	3.8	< 10	< 5	< 0.5	< 0.5

C 2: Ag Drain C, 100 ft downstream (520GEL004) continued…

	Organics																	
Date	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromochloropropane	Dibromomethane	Dichlorodifluoromethane	Dichloromethane
	µg/L																
4/17/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	
5/9/2012																	
5/22/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	
6/5/2012																	
6/28/2012	< 0.5	< 0.5	< 0.5	< 2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5				
7/10/2012																	
7/24/2012																	
8/15/2012	< 0.5			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5			< 0.5	< 0.5	
8/28/2012		< 0.5	< 0.5						< 0.5				< 0.5				
9/11/2012																	
9/25/2012	< 0.5	< 0.5	< 0.5	< 2	< 0.5	< 0.5	< 0.5	< 0.5	0.9	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5		
10/9/2012																	
10/25/2012																	
11/13/2012																	
11/29/2012																	
12/11/2012																	
12/26/2012																	
1/8/2013																	
1/29/2013																	
2/12/2013		< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	2		< 0.5	< 0.5	< 0.5				
2/28/2013																	
3/12/2013																	
3/27/2013	< 5	< 0.5	< 0.5	< 1	< 50	< 0.5	< 0.5	< 0.5	1	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 1	< 0.5
4/9/2013																	
4/24/2013																	
5/20/2013																	
6/18/2013	< 5	< 0.5	< 0.5	< 1	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 1	< 0.5
7/16/2013																	
7/24/2013																	
8/6/2013																	
8/27/2013																	
9/3/2013																	
9/24/2013	< 5	< 0.5	< 0.5	< 1	< 50	< 0.5	< 0.5	< 0.5	1	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 1	< 0.5
Count	8	9	9	8	8	9	9	9	9	7	9	9	9	3	7	6	3
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5
Max	< 5	< 0.5	< 0.5	< 2	< 50	< 0.5	< 0.5	< 0.5	2	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 1	< 0.5
Median	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	0.8	< 0.5
Mean		< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5		< 0.5

C 2: Ag Drain C, 100 ft downstream (520GEL004) continued…

Date	Organics																
	Di-isopropyl ether	Ethanol	Ethyl tert-Butyl Ether	Ethylbenzene	Gasoline Range Hydrocarbons	Hexachlorobutadiene	Hexachloroethane	Hexavalent Chromium	Iodomethane	Isopropylbenzene	m,p-Xylene	MBAs	Methylene chloride	Methyl-tert-Butyl Ether (MTBE)	Naphthalene	n-Butylbenzene	n-Propylbenzene
	µg/L																
4/17/2012	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5			< 0.5	< 0.5	< 1	< 0.1	< 5		< 0.5	< 0.5	< 0.5
5/9/2012																	
5/22/2012	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5			< 0.5	< 0.5	< 1	< 0.1	< 5		< 0.5	< 0.5	< 0.5
6/5/2012																	
6/28/2012				< 0.5		< 0.5				< 0.5	< 0.5	< 0.1	< 1	< 1	< 0.5	< 0.5	< 0.5
7/10/2012																	
7/24/2012																	
8/15/2012	< 0.5	< 20	< 0.5	< 0.5		< 0.5			< 0.5	< 0.5	< 1		< 5		< 0.5	< 0.5	< 0.5
8/28/2012												< 0.1					
9/11/2012																	
9/25/2012				< 0.5		< 0.5		16		< 0.5	< 0.5		< 1	< 1	< 0.5	< 0.5	< 0.5
10/9/2012																	
10/25/2012																	
11/13/2012																	
11/29/2012																	
12/11/2012																	
12/26/2012																	
1/8/2013																	
1/29/2013																	
2/12/2013				< 0.5		< 5				< 5	< 0.5			< 0.5	< 5	< 5	< 5
2/28/2013																	
3/12/2013																	
3/27/2013				< 0.5		< 5	< 50		< 50	< 5	< 0.5			< 0.5	< 5	< 5	< 5
4/9/2013																	
4/24/2013																	
5/20/2013																	
6/18/2013				< 0.5		< 5	< 50		< 50	< 5	< 0.5			< 0.5	< 5	< 5	< 5
7/16/2013																	
7/24/2013																	
8/6/2013																	
8/27/2013																	
9/3/2013																	
9/24/2013				< 0.5		< 5	< 50		< 50	< 5	< 0.5			< 0.5	< 5	< 5	< 5
Count	3	3	3	9	2	9	3	1	6	9	9	4	5	6	9	9	9
Min	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 50	16	< 0.5	< 0.5	< 0.5	< 0.1	< 1	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 20	< 0.5	< 0.5	< 50	< 5	< 50	16	< 50	< 5	< 1	< 0.1	< 5	< 1	< 5	< 5	< 5
Median	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 50	16	25	< 0.5	< 0.5	< 0.1	< 5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 20	< 0.5	< 0.5	< 50		< 50	16		< 2.5		< 0.1					

C 2: Ag Drain C, 100 ft downstream (520GEL004) continued…

	Organics																	
Date	o-Xylene	Perchlorate	p-Isopropyltoluene	sec-Butylbenzene	Styrene	TBA	Tert-Amyl Methyl Ether	tert-Butylbenzene	Tetrachlorethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl chloride	Xylenes, total
	µg/L																
4/17/2012	< 0.5			< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
5/9/2012																	
5/22/2012	< 0.5			< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
6/5/2012																	
6/28/2012	< 0.5			< 10				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	
7/10/2012																	
7/24/2012																	
8/15/2012	< 0.5			< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
8/28/2012																	
9/11/2012																	
9/25/2012	< 0.5	< 4	< 0.5	< 10				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	
10/9/2012																	
10/25/2012																	
11/13/2012																	
11/29/2012																	
12/11/2012																	
12/26/2012																	
1/8/2013																	
1/29/2013		< 2															
2/12/2013	< 0.5			< 5				< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	
2/28/2013																	
3/12/2013																	
3/27/2013	< 0.5	< 2	< 5	< 5	< 5			< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	
4/9/2013																	
4/24/2013																	
5/20/2013																	
6/18/2013	< 0.5	< 2	< 5	< 5	< 5			< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	
7/16/2013																	
7/24/2013																	
8/6/2013																	
8/27/2013																	
9/3/2013																	
9/24/2013	< 0.5	< 2	< 5	< 5	< 5			< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	
Count	9	5	4	9	6	3	3	9	9	9	9	9	9	6	3	9	3
Min	< 0.5	< 2	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Max	< 0.5	< 4	< 5	< 10	< 5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Median	< 0.5	< 2	< 5	< 5	3	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Mean	< 0.5					< 5	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1

C 3: Ag Drain C, 1500 ft upstream (520GEL005)

	Field Data					Bacteria	General Chemistry							Inorganics		
Date	Dissolved Oxygen	pH	Water Temperature	Turbidity	Specific Conductivity	*E. coli*	Boron	Chloride	Fluoride	Perchlorate	Sodium	Sulfate	Total Dissolved Solids	Total Calcium	Total Hardness	Total Magnesium
	mg/L		°C	ntu	µS/cm	MPN	µg/L	mg/L								
4/17/2012	9.62	8.05	14.3	25.9	760		**240**				**130**					
5/9/2012	8.51	7.66	18.0	38.3	440											
5/22/2012	7.00	7.57	17.9	16.3	550		220				140					
6/5/2012	8.63	7.88	16.6	11.0	520											
6/28/2012	5.68	7.62	20.1	36.0	400		230				40.					
7/10/2012	7.54	7.51	21.7	44.5	420											
7/24/2012	7.52	7.63	22.5	59.8	410		170				35			23	140	20
8/15/2012	8.97	7.76	22.5	90.1	450	249								27	180	25.5
8/28/2012	9.65	7.86	19.3	22.3	510	58.1	170				45					
9/11/2012	8.66	7.94	20.1	20.9	580	186										
9/25/2012	11.4	8.21	21.0	12.3	550	130.	180	13	0.34	< 4.0	47	30	300	33	200	25
10/9/2012	17.5	8.55	17.2	6.85	720	113										
10/25/2012	13.9	8.23	15.0	9.64	710			16			70.	50	420	32	270	36
11/13/2012	12.8	7.96	14.2	14.9	700	192										
11/29/2012	11.0	7.72	13.7	38.8	500		160	12			49	40	300		164	
12/11/2012	9.37	7.66	10.2	26.6	600	102										
12/26/2012	10.4	7.57	7.81	405	240		100				21			16	95	14
1/8/2013	10.7	7.91	12.4	20.4	510	41.0										
1/29/2013	13.6	8.24	11.7	10.0	580		210	13	0.45	< 4.0	56	50	350	36	200	28
2/12/2013	16.6	8.44	13.4	9.12	720	16.1										
2/28/2013	14.2	8.28	15.1	24.4	670		230	10.			67	70	390	38	230	32
3/12/2013	8.89	8.32	15.5	32.4	730	162										
3/27/2013	10.4	8.05	15.4	32.4	730		260	15	0.60	< 2.0	73	60	420	39	260	36
4/9/2013	9.40	7.95	11.1	22.5	1200											
4/24/2013	13.7	8.29	18.2	40.7	420	261		10.			39	30	260	24	140	20
5/20/2013	12.5	8.07	19.8	25.4	540	1120		11			57	30	350	30	200	27
6/18/2013	11.6	7.81	20.6	17.5	440	141		10.	0.45	< 2.0	42	30	400	23	150	21
7/16/2013	3.90	7.71	19.4	20.1	480											
7/24/2013		7.82	26.0	48.8	480	1050		10.			42	30	280	28	170	24
8/6/2013	8.55	6.49	21.7	31.0	550											
8/27/2013	9.08	7.92	21.5	19.0	630	66.3		9.6			61	40	320	30	210	31
9/3/2013	6.00	7.74	18.0	28.3	650											
9/24/2013		8.21	20.7	11.2	690	147		16	0.51	< 2.0	67	50	400	34	240	33
Count	31	33	33	33	33	16	11	12	5	5	18	12	12	14	15	14
Min	3.90	6.49	7.81	6.85	340	16.1	100	5	0.34	< 2.0	21	30	260	16	95	14
Max	17.5	8.55	26.0	405	1200	1120	260	16	0.60	< 4.0	140	70	420	39	270	36
Median	9.62	7.91	18.0	24.4	550	144	210	11	0.45	< 2.0	53	40	350	30	200	26
Mean	10.2	7.90	17.3	38.6	580	252	200	11	0.47	0.7	60.	40	350	30	190	27

C 3: Ag Drain C, 1500 ft upstream (520GEL005) continued…

	Nutrients		Metals									
	Nitrate as N	Nitrite as N	Dissolved Aluminum	Dissolved Arsenic	Dissolved Iron	Dissolved Manganese	Total Aluminum	Total Antimony	Total Arsenic	Total Barium	Total Beryllium	Total Cadmium
Date	mg/L		µg/L									
4/17/2012	1.6	< 0.15					1100		< 10.			
5/9/2012												
5/22/2012	1.4	< 0.15					700		< 10.			
6/5/2012												
6/28/2012	0.37						570		2.6			
7/10/2012												
7/24/2012							770		< 10.			
8/15/2012												
8/28/2012	0.47						440		< 10.			
9/11/2012												
9/25/2012	2.2		< 50.		60.6	42	620	< 5	1.9	89	< 1	< 1
10/9/2012												
10/25/2012	0.97											
11/13/2012												
11/29/2012	0.63											
12/11/2012												
12/26/2012	0.72											
1/8/2013												
1/29/2013	0.98		< 5.0		13.0	< 1.0	460	< 0.5		79	< 0.5	< 0.3
2/12/2013												
2/28/2013	0.71											
3/12/2013												
3/27/2013	0.83		10.		13.0	15	1200	< 0.5		120	< 0.5	< 0.3
4/9/2013												
4/24/2013	0.44			1.6					2.1			
5/20/2013	1.8			2.0					2.7			
6/18/2013	0.29		7.5	2.3	51.0	1.1	840	< 0.5	2.9	81	< 0.5	< 0.3
7/16/2013												
7/24/2013	1.9			1.8					2.6			
8/6/2013												
8/27/2013	0.42			1.9					2.6			
9/3/2013												
9/24/2013	0.88		< 5.0	2.5	14.0	26	440	< 0.5	2.5	99	< 0.5	< 0.3
Count	17	2	5	6	5	5	10	5	12	5	5	5
Min	0.29	< 0.15	< 5.0	1.6	13.0	< 1.0	440	< 0.5	1.9	79	< 0.5	< 0.3
Max	2.24	< 0.15	< 50.	2.5	60.6	42	1200	< 5	< 10.	120	< 1	< 1
Median	0.83	< 0.15	7.5	2.0	14.0	15	660	< 0.5	2.7	89	< 0.5	< 0.3
Mean	0.98	< 0.15	6.5	2.0	30.3	17	710	0.4	2.5	94	0.2	0.1

C 3: Ag Drain C, 1500 ft upstream (520GEL005) continued…

	Metals												
	Total Chromium	Total Copper	Total Iron	Total Lead	Total Manganese	Total Mercury	Total Molybdenum	Total Nickel	Total Selenium	Total Silver	Total Thallium	Total Vanadium	Total Zinc
Date	µg/L												
4/17/2012			1500		110								
5/9/2012													
5/22/2012			1100		70.								
6/5/2012													
6/28/2012			970		74								
7/10/2012													
7/24/2012			1300		120								
8/15/2012													
8/28/2012			1300		100								
9/11/2012													
9/25/2012	< 5.0	< 5.0	860	< 1	71	< 0.2	< 5	< 5.0	< 20.	< 5	< 1.0	< 10	< 5.0
10/9/2012													
10/25/2012													
11/13/2012													
11/29/2012													
12/11/2012													
12/26/2012													
1/8/2013													
1/29/2013	2.4	2.2	620	0.2	47	< 0.2		2.7	< 1.0	< 1	< 1.0		< 5.0
2/12/2013													
2/28/2013													
3/12/2013													
3/27/2013	3.8	3.5	1700	0.5	130	< 0.2		5.1	< 1.0	< 1	< 1.0		< 5.0
4/9/2013													
4/24/2013													
5/20/2013													
6/18/2013	2.6	4.8	1100	0.3	50.	< 0.2		4.7	< 1.0	< 1	< 1.0		< 5.0
7/16/2013													
7/24/2013													
8/6/2013													
8/27/2013													
9/3/2013													
9/24/2013	1.5	1.5	570	0.2	85	< 0.2		2.5	< 1.0	< 0.3	< 1.0		< 5.0
Count	5	5	10	5	10	5	1	5	5	5	5	1	5
Min	1.5	1.5	570	0.2	47	< 0.2	< 5	2.5	< 1.0	< 0.3	< 1.0	< 10	< 5.0
Max	< 5.0	< 5.0	1700	< 1	130	< 0.2	< 5	5.1	< 20.	< 5	< 1.0	< 10	< 5.0
Median	2.6	3.5	1100	0.3	80.	< 0.2	< 5	4.7	< 1.0	< 1	< 1.0	< 10	< 5.0
Mean	2.3	2.7	1100	0.3	85	< 0.2	< 5	3.2	1.2	0.4	< 1.0	< 10	< 5.0

C 3: Ag Drain C, 1500 ft upstream (520GEL005) continued…

Date	Organics														
	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane (TCA)	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane (123TCP)	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane (1,2-DCA)
	µg/L														
4/17/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
5/9/2012															
5/22/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
6/5/2012															
6/28/2012	< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 5	< 0.5	< 2
7/10/2012															
7/24/2012															
8/15/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
8/28/2012															
9/11/2012															
9/25/2012															
10/9/2012															
10/25/2012															
11/13/2012															
11/29/2012															
12/11/2012															
12/26/2012															
1/8/2013															
1/29/2013															
2/12/2013															
2/28/2013															
3/12/2013															
3/27/2013															
4/9/2013															
4/24/2013															
5/20/2013															
6/18/2013															
7/16/2013															
7/24/2013															
8/6/2013															
8/27/2013															
9/3/2013															
9/24/2013															
Count	4	4	3	3	4	4	4	4	4	4	4	4	4	4	4
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 5	< 0.5	< 2
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	

C 3: Ag Drain C, 1500 ft upstream (520GEL005) continued…

	Organics														
Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Isopropyltoluene	Acetone	Acrolein	Acrylonitrile	Benzene
	µg/L														
4/17/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5			< 0.5
5/9/2012															
5/22/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5			< 0.5
6/5/2012															
6/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5					< 0.5			< 10	< 5	< 0.5
7/10/2012															
7/24/2012															
8/15/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	5.4			< 0.5
8/28/2012															
9/11/2012															
9/25/2012															
10/9/2012															
10/25/2012															
11/13/2012															
11/29/2012															
12/11/2012															
12/26/2012															
1/8/2013															
1/29/2013															
2/12/2013															
2/28/2013															
3/12/2013															
3/27/2013															
4/9/2013															
4/24/2013															
5/20/2013															
6/18/2013															
7/16/2013															
7/24/2013															
8/6/2013															
8/27/2013															
9/3/2013															
9/24/2013															
Count	4	4	4	4	4	3	3	3	3	4	3	3	1	1	4
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 10	< 5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	5.4	< 10	< 5	< 0.5
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 10	< 5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	2.6	< 10	< 5	< 0.5

C 3: Ag Drain C, 1500 ft upstream (520GEL005) continued…

	Organics																													
	Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon disulfide		Carbon tetrachloride		Chlorobenzene		Chloroethane		Chloroform		Chloromethane		cis-1,2-Dichloroethene		cis-1,3-Dichloropropene		Dibromochloromethane		Dibromomethane		Dichlorodifluoromethane	
Date	µg/L																															
4/17/2012	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
5/9/2012																																
5/22/2012	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
6/5/2012																																
6/28/2012			<	0.5	<	0.5	<	0.5	<	2	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5			<	0.5	<	0.5	<	0.5				
7/10/2012																																
7/24/2012																																
8/15/2012	<	0.5	<	0.5					<	0.5	<	0.5	<	0.5	<	0.5	<	0.5			<	0.5	<	0.5	<	0.5			<	0.5	<	0.5
8/28/2012					<	0.5	<	0.5											<	0.5							<	0.5				
9/11/2012																																
9/25/2012																																
10/9/2012																																
10/25/2012																																
11/13/2012																																
11/29/2012																																
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3/12/2013																																
3/27/2013																																
4/9/2013																																
4/24/2013																																
5/20/2013																																
6/18/2013																																
7/16/2013																																
7/24/2013																																
8/6/2013																																
8/27/2013																																
9/3/2013																																
9/24/2013																																
Count		3		4		4		4		4		4		4		4		4		4		3		4		4		4		3		3
Min	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
Max	<	0.5	<	0.5	<	0.5	<	0.5	<	2	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
Median	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
Mean	<	0.5	<	0.5	<	0.5	<	0.5			<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5

C 3: Ag Drain C, 1500 ft upstream (520GEL005) continued…

	Organics															
Date	Di-isopropyl ether	Ethanol	Ethyl tert-Butyl Ether	Ethylbenzene	Gasoline Range Hydrocarbons	Hexachlorobutadiene	Hexavalent Chromium	Iodomethane	Isopropylbenzene	m,p-Xylene	MBAs	Methylene chloride	Methyl-tert-Butyl Ether (MTBE)	Naphthalene	n-Butylbenzene	n-Propylbenzene
	µg/L															
4/17/2012	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5		< 0.5	< 0.5	< 1	< 0.1	< 5		< 0.5	< 0.5	< 0.5
5/9/2012																
5/22/2012	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5		< 0.5	< 0.5	< 1	< 0.1	< 5		< 0.5	< 0.5	< 0.5
6/5/2012																
6/28/2012				< 0.5		< 0.5			< 0.5	< 0.5	< 0.1	< 1	< 1	< 0.5	< 0.5	< 0.5
7/10/2012																
7/24/2012																
8/15/2012	< 0.5	< 20	< 0.5	< 0.5		< 0.5		< 0.5	< 0.5	< 1		< 5		< 0.5	< 0.5	< 0.5
8/28/2012											< 0.1					
9/11/2012																
9/25/2012							< 10									
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013																
4/9/2013																
4/24/2013																
5/20/2013																
6/18/2013																
7/16/2013																
7/24/2013																
8/6/2013																
8/27/2013																
9/3/2013																
9/24/2013																
Count	3	3	3	4	2	4	1	3	4	4	4	4	1	4	4	4
Min	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 10	< 0.5	< 0.5	< 0.5	< 0.1	< 1	< 1	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 10	< 0.5	< 0.5	< 1	< 0.1	< 5	< 1	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 10	< 0.5	< 0.5	< 1	< 0.1	< 5	< 1	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 10	< 0.5	< 0.5		< 0.1	< 4	< 1	< 0.5	< 0.5	< 0.5

C 3: Ag Drain C, 1500 ft upstream (520GEL005) continued…

	Organics															
Date	o-Xylene	Perchlorate	sec-Butylbenzene	Styrene	TBA	Tert-Amyl Methyl Ether	tert-Butylbenzene	Tetrachlorethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl chloride	Xylenes, total
	µg/L															
4/17/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
5/9/2012																
5/22/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
6/5/2012																
6/28/2012	< 0.5		< 10				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	
7/10/2012																
7/24/2012																
8/15/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
8/28/2012																
9/11/2012																
9/25/2012		< 4														
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013		< 4														
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013		< 2														
4/9/2013																
4/24/2013																
5/20/2013																
6/18/2013		< 2														
7/16/2013																
7/24/2013																
8/6/2013																
8/27/2013																
9/3/2013																
9/24/2013		< 2														
Count	4	5	4	3	3	3	4	4	4	4	4	4	3	3	4	3
Min	< 0.5	< 2	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Max	< 0.5	< 4	< 10	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Median	< 0.5	< 2	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Mean	< 0.5			< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1

C 4: Colusa Basin Drain at Road 61 (520GEL002)

	Field Data					Bacteria	General Chemistry							Inorganics		
Date	Dissolved Oxygen	pH	Water Temperature	Turbidity	Specific Conductivity	*E. coli*	Boron	Chloride	Fluoride	Perchlorate	Sodium	Sulfate	Total Dissolved Solids	Total Calcium	Total Hardness	Total Magnesium
	mg/L		°C	ntu	µS/cm	MPN	µg/L	mg/L								
4/17/2012	9.55	8.18	18.4	47.0	670		130				50					
5/9/2012	7.11	7.89	20.1	49.8	470											
5/22/2012	7.86	7.77	20.3	42.8	490		150				60					
6/5/2012	8.80	7.86	18.0	20.3	480											
6/28/2012	6.70	7.56	21.7	37.7	430		170				20					
7/10/2012	6.48	7.52	23.8	52.2	480											
7/24/2012	7.04	7.46	23.8	97.8	450		140				20			34	210	29.2
8/15/2012	7.52	7.44	23.2	73.9	430	166								35.2	210	28.7
8/28/2012	8.08	7.61	19.3	43.6	420	162	110				20					
9/11/2012	7.23	7.71	18.4	37.8	420	219										
9/25/2012	8.17	7.93	20.9	30.0	520	133	120	6.4	0.19	< 4.0	20	10	280	47	250	32
10/9/2012	9.52	8.10	18.0	32.7	570	299										
10/25/2012	10.2	7.59	13.9	20.2	430			7.0			20	20	260	34	200	28
11/13/2012	7.29	7.34	12.6	17.5	510	43.5										
11/29/2012	9.39	7.66	12.8	44.4	460		100	10.			30	10	270		206	
12/11/2012	9.23	7.44	11.2	53.5	410	38.9										
12/26/2012	10.2	7.58	7.86	145	290		90.				20			23	140	20
1/8/2013	12.2	7.75	9.44	32.4	410	52.0										
1/29/2013	10.7	7.63	8.43	69.9	460		110	5.9	0.35	< 4.0	20	10	260	35	220	32
2/12/2013	11.1	7.91	9.28	127	580	34.5										
2/28/2013	12.8	7.91	13.6	20.0	660		180	7.8			30	20	440	55	330	47
3/12/2013	9.26	8.09	14.7	17.8	660	143										
3/27/2013	7.80	8.00	16.4	64.7	630		160	10.	0.26	< 2.0	30	20	350	59	330	44
4/24/2013	9.60	8.05	17.8	35.1	370	85.7		6.4			20	20	240	30	160	22
5/20/2013	10.4	7.78	21.0	27.6	480	67.7		8.1			30	20	280	35	210	29
6/18/2013	8.25	7.60	22.0	26.0	460	48.1		5.0	0.29	< 2.0	20	10	250	34	200	29
7/24/2013		7.97	27.4	47.4	410	206		4.6			20	10	250	33	200	28
8/27/2013	7.65	7.78	20.2	42.5	440	119		5.3			20	10	230	34	200	28
9/24/2013		7.81	20.5	22.7	400	248		7.0	0.17	< 2.0	20	10	230	34	190	25
Count	27	29	29	29	29	16	11	12	5	5	18	12	12	14	15	14
Min	6.48	7.34	7.86	17.5	290	34.5	90.	5	0.17	< 2.0	20	6	230	23	140	20
Max	12.8	8.18	27.4	145	660	299	180	10	0.35	< 4.0	60	24	440	59	330	47
Median	8.80	7.77	18.4	42.5	460	126	130	7	0.26	< 2.0	20	12	260	34	206	29
Mean	8.89	7.76	17.4	47.6	480	129	130	7	0.25	0.70	30	14	280	37	217	30

C 4: Colusa Basin Drain at Road 61 (520GEL002) continued…

	Nutrients		Metals										
	Nitrate as N	Nitrite as N	Dissolved Aluminum	Dissolved Arsenic	Dissolved Iron	Dissolved Manganese	Total Aluminum	Total Antimony	Total Arsenic	Total Barium	Total Beryllium	Total Cadmium
Date	mg/L		µg/L									
4/17/2012	0.15	< 0.15					2600		< 10.			
5/9/2012												
5/22/2012	0.15	< 0.15					1700		< 10.			
6/5/2012												
6/28/2012	< 0.11						750		4.9			
7/10/2012												
7/24/2012							460		< 10.			
8/15/2012												
8/28/2012	0.16						400		< 10.			
9/11/2012												
9/25/2012	0.13		< 50.		57.4	73.7	1300	< 5	3.8	170	< 1	< 1
10/9/2012												
10/25/2012	0.28											
11/13/2012												
11/29/2012	0.24											
12/11/2012												
12/26/2012	0.47											
1/8/2013												
1/29/2013	< 0.22		5.8		77.0	< 1.00	2500	< 0.5		170	< 0.5	< 0.3
2/12/2013												
2/28/2013	0.19											
3/12/2013												
3/27/2013	0.50		5.8		< 10.0	41.0	2100	< 0.5		260	< 0.5	< 0.3
4/24/2013	0.30			3.1					3.5			
5/20/2013	0.12			3.7					4.9			
6/18/2013	< 0.22		8.3	4.8	40.0	39.0	1300	< 0.5	5.8	160	< 0.5	< 0.3
7/24/2013	< 0.22			3.4					4.7			
8/27/2013	< 0.22			2.8					4.2			
9/24/2013	0.23		< 5.0	3.5	94.0	20.0	710	< 0.5	3.3	140	< 0.5	< 0.3
Count	17	2	5	6	5	5	10	5	12	5	5	5
Min	< 0.11	< 0.15	< 5.0	2.8	< 10.0	< 1.00	400	< 0.5	3.3	140	< 0.5	< 0.3
Max	0.50	< 0.15	< 50.	4.8	94.0	73.7	2600	< 5	< 10.	260	< 1	< 1
Median	< 0.22	< 0.15	5.8	3.5	57.4	39.0	1300	< 0.5	4.9	170	< 0.5	< 0.3
Mean	0.19	< 0.15	6.7	3.6	54.2	34.8	1400	0.4	3.8	180	0.2	0.1

C 4: Colusa Basin Drain at Road 61 (520GEL002) continued…

	Metals												
	Total Chromium	Total Copper	Total Iron	Total Lead	Total Manganese	Total Mercury	Total Molybdenum	Total Nickel	Total Selenium	Total Silver	Total Thallium	Total Vanadium	Total Zinc
Date	µg/L												
4/17/2012			3500		380								
5/9/2012													
5/22/2012			2500		260								
6/5/2012													
6/28/2012			1500		230								
7/10/2012													
7/24/2012			1400		450								
8/15/2012													
8/28/2012			760		250								
9/11/2012													
9/25/2012	< 5.0	< 5.0	1900	< 1.0	250	< 0.2	< 5.0	7.6	< 20.	< 5	< 1.0	< 10	5.0
10/9/2012													
10/25/2012													
11/13/2012													
11/29/2012													
12/11/2012													
12/26/2012													
1/8/2013													
1/29/2013	7.6	8.0	4300	1.5	360	< 0.2		13	< 1.0	< 1	< 1.0		10.
2/12/2013													
2/28/2013													
3/12/2013													
3/27/2013	7.4	5.7	4600	0.92	390	< 0.2		11	< 1.0	< 1	< 1.0		9.3
4/24/2013													
5/20/2013													
6/18/2013	4.3	6.0	2100	0.55	350	< 0.2		9.2	< 1.0	< 1	< 1.0		6.0
7/24/2013													
8/27/2013													
9/24/2013	2.4	2.9	1200	0.41	120	< 0.2		4.6	< 1.0	< 0.3	< 1.0		3.9
Count	5	5	10	5	10	5	1	5	5	5	5	1	5
Min	2.4	2.9	756	0.41	120	< 0.2	< 5.0	4.6	< 1.0	< 0.3	< 1.0	< 10	3.9
Max	7.6	8.0	4600	1.5	450	< 0.2	< 5.0	13	< 20.0	< 5	< 1.0	< 10	10.
Median	< 5.0	5.7	2000	0.92	310	< 0.2	< 5.0	9.2	< 1.0	< 1	< 1.0	< 10	6.0
Mean	4.6	4.8	2400	0.73	300	< 0.2	< 5.0	9.1	1.2	0.4	< 1.0	< 10	6.8

C 4: Colusa Basin Drain at Road 61 (520GEL002) continued…

	Organics																	
Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane (TCA)	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane (123TCP)	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane (1,2-DCA)
	µg/L														
4/17/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
5/9/2012															
5/22/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
6/5/2012															
6/28/2012	< 0.5	< 0.5			< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 10	< 5	< 0.5	< 2
6/29/2012															
6/30/2012															
7/10/2012							< 0.5	< 0.5							
7/24/2012															
8/15/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
8/28/2012															
9/11/2012															
9/25/2012															
10/9/2012															
10/25/2012															
11/13/2012															
11/29/2012															
12/11/2012															
12/26/2012															
1/8/2013															
1/29/2013															
2/12/2013															
2/28/2013															
3/12/2013															
3/27/2013															
4/24/2013															
5/20/2013															
6/18/2013															
7/24/2013															
8/27/2013															
9/24/2013															
Count	4	4	3	3	4	4	4	4	4	4	4	4	4	4	4
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 5	< 0.5	< 2
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	

C 4: Colusa Basin Drain at Road 61 (520GEL002) continued…

	Organics														
Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Isopropyltoluene	Acetone	Acrolein	Acrylonitrile	Benzene
	µg/L														
4/17/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5			< 0.5
5/9/2012															
5/22/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5			< 0.5
6/5/2012															
6/28/2012	< 0.5	< 0.5	< 0.5		< 0.5								< 10	< 5	< 0.5
6/29/2012															
6/30/2012															
7/10/2012				< 0.5						< 0.5					
7/24/2012															
8/15/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5			< 0.5
8/28/2012															
9/11/2012															
9/25/2012															
10/9/2012															
10/25/2012															
11/13/2012															
11/29/2012															
12/11/2012															
12/26/2012															
1/8/2013															
1/29/2013															
2/12/2013															
2/28/2013															
3/12/2013															
3/27/2013															
4/24/2013															
5/20/2013															
6/18/2013															
7/24/2013															
8/27/2013															
9/24/2013															
Count	4	4	4	4	4	3	3	3	3	4	3	3	1	1	4
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 10	< 5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 10	< 5	< 0.5
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 10	< 5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 10	< 5	< 0.5

C 4: Colusa Basin Drain at Road 61 (520GEL002) continued…

	Organics															
Date	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane
	µg/L														
4/17/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
5/9/2012															
5/22/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
6/5/2012															
6/28/2012			< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	
6/29/2012					< 2										
6/30/2012						< 0.5									
7/10/2012		< 0.5													
7/24/2012															
8/15/2012	< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5		< 0.5
8/28/2012			< 0.5	< 0.5						< 0.5				< 0.5	
9/11/2012															
9/25/2012															
10/9/2012															
10/25/2012															
11/13/2012															
11/29/2012															
12/11/2012															
12/26/2012															
1/8/2013															
1/29/2013															
2/12/2013															
2/28/2013															
3/12/2013															
3/27/2013															
4/24/2013															
5/20/2013															
6/18/2013															
7/24/2013															
8/27/2013															
9/24/2013															
Count	3	4	4	4	4	4	4	4	4	4	3	4	4	4	3
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

C 4: Colusa Basin Drain at Road 61 (520GEL002) continued…

Date	Organics															
	Dichlorodifluoromethane	Di-isopropyl ether	Ethanol	Ethyl tert-Butyl Ether	Ethylbenzene	Gasoline Range Hydrocarbons	Hexachlorobutadiene	Iodomethane	Isopropylbenzene	m,p-Xylene	MBAs	Methylene chloride	Methyl-tert-Butyl Ether (MTBE)	Naphthalene	n-Butylbenzene	n-Propylbenzene
	µg/L															
4/17/2012	< 0.5	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.1	< 5		< 0.5	< 0.5	< 0.5
5/9/2012																
5/22/2012	< 0.5	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.1	< 5		< 0.5	< 0.5	< 0.5
6/5/2012																
6/28/2012					< 0.5		< 0.5		< 0.5	< 0.5	< 0.1	< 1	< 1	< 0.5	< 0.5	< 0.5
6/29/2012																
6/30/2012																
7/10/2012																
7/24/2012																
8/15/2012	< 0.5	< 0.5	< 20	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 1		< 5		< 0.5	< 0.5	< 0.5
8/28/2012											< 0.1					
9/11/2012																
9/25/2012																
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013																
4/24/2013																
5/20/2013																
6/18/2013																
7/24/2013																
8/27/2013																
9/24/2013																
Count	3	3	3	3	4	2	4	3	4	4	4	4	1	4	4	4
Min	< 0.5	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.1	< 1	< 1	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.1	< 5	< 1	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.1	< 5	< 1	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5		< 0.1	< 4	< 1	< 0.5	< 0.5	< 0.5

C 4: Colusa Basin Drain at Road 61 (520GEL002) continued…

	Organics																
Date	o-Xylene	Perchlorate	sec-Butylbenzene	Styrene	TBA	Tert-Amyl Methyl Ether	tert-Butylbenzene	Tetrachlorethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl chloride	Xylenes, total
	µg/L															
4/17/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
5/9/2012																
5/22/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
6/5/2012																
6/28/2012	< 0.5		< 10				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	
6/29/2012																
6/30/2012																
7/10/2012																
7/24/2012																
8/15/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
8/28/2012																
9/11/2012																
9/25/2012		< 4														
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013		< 4														
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013		< 2														
4/24/2013																
5/20/2013																
6/18/2013		< 2														
7/24/2013																
8/27/2013																
9/24/2013		< 2														
Count	4	5	4	3	3	3	4	4	4	4	4	4	3	3	4	3
Min	< 0.5	< 2	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Max	< 0.5	< 4	< 10	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Median	< 0.5	< 2	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Mean	< 0.5			< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1

C 5: Willows Effluent

	Field Data					Bacteria	General Chemistry								Inorganics		
Date	Dissolved Oxygen mg/L	pH	Water Temperature °C	Turbidity ntu	Specific Conductivity µS/cm	*E. coli* MPN	Ammonia as N mg/L	Boron µg/L	Chloride mg/L	Fluoride mg/L	Perchlorate mg/L	Sodium mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Total Calcium mg/L	Total Hardness mg/L	Total Magnesium mg/L
4/17/2012	8.78	7.52	19.0	1.7	860			240				200					
5/9/2012	9.81	7.38	21.3	0.72	880												
5/22/2012	8.63	7.65	22.8	1.1	880			260				300					
6/5/2012	8.82	7.94	21.9	0.80	880												
6/28/2012	7.89	7.70	24.2	0.82	830		< 1.0	320	64	0.37		100	94	570			
7/10/2012	8.08	7.48	26.4	0.60	860												
7/24/2012	8.44	7.69	27.0	0.69	880			250				100					
8/15/2012	8.37	7.70	27.4	1.4	840	< 1.0											
8/28/2012	8.44	7.71	25.5	0.57	860	< 1.0		250				100			30.1	180	21
9/11/2012	7.67	7.61	25.0	0.47	880	< 1.0											
9/25/2012	8.43	7.52	24.6	2.1	830	< 1.0		250	57	0.37	< 4.0	100	58	500	29	180	27
10/9/2012	9.06	7.67	23.2	0.94	830	< 1.0											
10/25/2012	10.0	7.80	10.1	0.69	850				59			100	65	540	34	210	30
11/13/2012	10.6	7.52	18.2	0.84	840	< 1.0										196	
11/29/2012	11.8	7.53	17.3	1.9	820			220	52			100	67	500			
12/11/2012	10.2	7.51	16.9	0.53	810	< 1.0											
12/26/2012	9.44	7.27	15.2	1.0	740			250				80			31	180	26
1/8/2013	11.0	7.48	15.5	0.53	800	< 1.0											
1/29/2013	10.7	7.37	15.3	0.60	880			290	45	0.48	< 20.	100	120	540	33	200	30
2/12/2013	10.9	7.57	15.0	1.0	900	< 1.0											
2/28/2013	10.2	7.27	16.1	1.0	890			280	49			100	100	560	34	200	29
3/12/2013	8.26	7.86	17.5	0.85	900	< 1.0											
3/27/2013	9.69	7.48	18.3	1.5	890			280	56	0.46	< 40.	100	99	560	34	210	30
4/9/2013		6.96	17.3	0.22	1700												
4/24/2013	7.69	7.73	19.1	1.7	870	< 1.0			58			100	99	540	32	190	28
5/20/2013	8.58	7.71	21.5	1.31	850	< 1.0			52			100	91	530	32	200	30
6/18/2013	9.12	7.23	24.4	1.0	900	< 1.0			55	0.50	< 40.	100	110	560	33	200	28
7/16/2013		7.37	26.1	0.33	940												
7/24/2013		7.64	28.6	1.3	820	< 1.0			55			100	67	490	31	190	27
8/6/2013		7.54	24.4	0.40	900												
8/27/2013	8.83	7.40	25.8	1.2	830	< 1.0			57			100	72	490	23	160	25
9/3/2013		6.88	24.7	0.54	840												
9/24/2013		7.86	24.0	0.64	790	1.0			51	0.37	< 2.0	90	66	490	27	180	26
Count	27	33	33	33	33	16	1	11	13	6	5	18	13	13	13	14	13
Min	7.7	6.88	10.1	0.22	740	< 1.0	< 1.0	220	45	0.37	< 2.0	80	58	490	23	160	21
Max	11.8	7.94	28.6	2.1	1700	< 1.0	< 1.0	320	64	0.50	< 40.	300	120	570	34	210	30
Median	8.8	7.53	21.9	0.84	860	< 1.0	< 1.0	250	55	0.42	< 20.	100	91	540	32	193	28
Mean	9.24	7.53	21.2	0.93	880	< 1.0	< 1.0	260	55	0.43	5.3	100	85	530	31	191	27

C 5: Willows Effluent continued…

	Nutrients		Metals									
	Nitrate as N	Nitrite as N	Dissolved Aluminum	Dissolved Arsenic	Dissolved Iron	Dissolved Manganese	Total Aluminum	Total Antimony	Total Arsenic	Total Barium	Total Beryllium	Total Cadmium
Date	mg/L		µg/L									
4/17/2012	13.5	< 0.15					130		< 10.			
5/9/2012												
5/22/2012	11.7	< 0.15					< 50.		< 10.			
6/5/2012												
6/28/2012	17.8						23	< 1	2.0	79		< 0.2
7/10/2012												
7/24/2012							< 50.		< 10.			
8/15/2012												
8/28/2012	19.5						< 50.		< 10.			
9/11/2012												
9/25/2012	19.9		< 50		28.6	< 10.	< 50.	< 5	1.9	75	< 1	< 1
10/9/2012												
10/25/2012	44.8											
11/13/2012												
11/29/2012	22.8											
12/11/2012												
12/26/2012	13.2											
1/8/2013												
1/29/2013	20.0		10		14.0	< 1.0	13	< 0.5		85	< 0.5	< 0.3
2/12/2013												
2/28/2013	20.0											
3/12/2013												
3/27/2013	27.0		9.9		15.0	< 1.0	15	< 0.5		89	< 0.5	< 0.3
4/9/2013												
4/24/2013	17.0			2.2					2.3			
5/20/2013	12.0			2.0					1.7			
6/18/2013	23.0		14.0	2.0	< 10.0	< 1.0	26	< 0.5	2.1	87	< 0.5	< 0.3
7/16/2013												
7/24/2013	20.0			1.6					1.6			
8/6/2013												
8/27/2013	21.0			1.5					1.9			
9/3/2013												
9/24/2013	22.0		11	2.0	17.0	< 1.0	18	0.6	1.7	65	< 0.5	< 0.3
Count	17	2	5	6	5	5	10	6	12	6	5	6
Min	11.7	< 0.15	9.9	1.5	< 10.0	< 1.0	13	< 0.5	1.6	65	< 0.5	< 0.2
Max	44.8	< 0.15	< 50.	2.2	28.6	< 10.	130	< 5	< 10.	89	< 1	< 1
Median	20.0	< 0.15	11	2.0	15.0	< 1.0	38	0.6	2.1	82	< 0.5	< 0.3
Mean	20.3	< 0.15	11	1.9	15.4	0.7	28	0.4	2.1	80.	0.2	0.1

C 5: Willows Effluent continued…

	Metals												
	Total Chromium	Total Copper	Total Iron	Total Lead	Total Manganese	Total Mercury	Total Molybdenum	Total Nickel	Total Selenium	Total Silver	Total Thallium	Total Vanadium	Total Zinc
Date	µg/L												
4/17/2012			28		38								
5/9/2012													
5/22/2012			< 20.		< 10.								
6/5/2012													
6/28/2012	2.1	5.0	88	< 0.5	1.4			2.1	< 1.0	< 1	< 1.0		47.0
7/10/2012													
7/24/2012			< 20.		< 10.								
8/15/2012													
8/28/2012			< 20.		< 10.								
9/11/2012													
9/25/2012	< 5.0	< 5.0	< 100	< 1	< 5.0	< 0.2	8	< 5.0	< 20.	< 5	< 1.0	< 10	30.0
10/9/2012													
10/25/2012													
11/13/2012													
11/29/2012													
12/11/2012													
12/26/2012													
1/8/2013													
1/29/2013	1.9	4.1	19	< 0.1	< 1.0	< 0.2		1.4	< 1.0	< 1	< 1.0		36.0
2/12/2013													
2/28/2013													
3/12/2013													
3/27/2013	1.8	6.4	22	0.1	< 1.0	< 0.2		1.3	< 1.0	< 1	< 1.0		21.0
4/9/2013													
4/24/2013													
5/20/2013													
6/18/2013	1.8	5.5	20.	0.2	< 1.0	< 0.2		2.0	< 1.0	< 1	< 1.0		33.0
7/16/2013													
7/24/2013													
8/6/2013													
8/27/2013													
9/3/2013													
9/24/2013	1.6	3.8	32	< 0.1	< 1.0	< 0.2		1.4	< 1.0	< 0.3	< 1.0		21.0
Count	6	6	10	6	10	5	1	6	6	6	6	1	6
Min	1.6	3.8	19	< 0.1	< 1.0	< 0.2	8	1.3	< 1.0	< 0.3	< 1.0	< 10	21.0
Max	< 5.0	6.4	< 100	< 1	38.0	< 0.2	8	< 5.0	< 20.	< 5	< 1.0	< 10	47.0
Median	1.9	< 5.0	21	0.1	3.2	< 0.2	8	1.7	< 1.0	< 1	< 1.0	< 10	31.5
Mean	1.7	4.3	25	0.1	4.9	< 0.2	8	1.5	1.0	0.4	< 1.0	< 10	31.3

C 5: Willows Effluent continued…

Date	Organics															
	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane (TCA)	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane (123TCP)	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane (1,2-DCA)
	µg/L															
4/17/2012	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
5/9/2012																
5/22/2012	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
6/5/2012																
6/28/2012	< 0.5	< 0.5				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 5	< 0.5	< 2
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
9/11/2012																
9/25/2012	< 0.5	< 0.5				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 5	< 0.5	< 2
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013	< 0.5	< 0.5				< 0.5	< 0.5			< 5	< 5	< 5	< 5	< 0.5	< 0.5	< 0.5
2/28/2013																
3/12/2013																
3/27/2013	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 5	< 5	< 0.5	< 0.5	< 0.5
4/9/2013																
4/24/2013																
5/20/2013																
6/18/2013	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 5	< 5	< 0.5	< 0.5	< 0.5
7/16/2013																
7/24/2013																
8/6/2013																
8/27/2013																
9/3/2013																
9/24/2013	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 5	< 5	< 0.5	< 0.5	< 0.5
Count	9	9	6	3	6	9	9	8	8	9	9	9	9	9	9	9
Min	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 5	< 10	< 5	< 0.5	< 2
Median	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5								< 0.5	

C 5: Willows Effluent continued…

	Organics															
Date	1,2-Dichloropropane	1,2-Diphenylhydrazine	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2,3,7,8-TCDD (Dioxin)	2,4,5-T	2,4,5-TP (Silvex)	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-D	2,4-DB	2,4-Dichlorophenol	2,4-Dimethylphenol
	µg/L															
4/17/2012	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5									
5/9/2012																
5/22/2012	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5									
6/5/2012																
6/28/2012	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5		< 5.5	< 0.5	< 0.5	< 5	< 5	< 0.5	< 5	< 5	< 5
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5									
9/11/2012																
9/25/2012	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5										
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013	< 0.5		< 5	< 0.5		< 0.5										
2/28/2013																
3/12/2013																
3/27/2013	< 0.5		< 5	< 0.5	< 5	< 0.5	< 5									
4/9/2013																
4/24/2013																
5/20/2013																
6/18/2013	< 0.5		< 5	< 0.5	< 5	< 0.5	< 5									
7/16/2013																
7/24/2013																
8/6/2013																
8/27/2013																
9/3/2013																
9/24/2013	< 0.5		< 5	< 0.5	< 5	< 0.5	< 5									
Count	9	1	9	9	8	9	6	1	1	1	1	1	1	1	1	1
Min	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.5	< 0.5	< 0.5	< 5	< 5	< 0.5	< 5	< 5	< 5
Max	< 0.5	< 5	< 5	< 0.5	< 5	< 0.5	< 5	< 5.5	< 0.5	< 0.5	< 5	< 5	< 0.5	< 5	< 5	< 5
Median	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	3	< 5.5	< 0.5	< 0.5	< 5	< 5	< 0.5	< 5	< 5	< 5
Mean	< 0.5	< 5		< 0.5		< 0.5		< 5.5	< 0.5	< 0.5	< 5	< 5	< 0.5	< 5	< 5	< 5

C 5: Willows Effluent continued…

	Organics															
Date	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Butanone	2-Chloronaphthalene	2-Chlorophenol	2-Chlorotoluene	2-Hexanone	2-Methylnaphthalene	2-Methylphenol	2-Nitroaniline	2-Nitrophenol	3,3'-Dichlorobenzidine	3-Hydroxycarbofuran	3-Methylphenol	3-Nitroaniline
	µg/L															
4/17/2012				< 5			< 0.5	< 5								
5/9/2012																
5/22/2012				< 5			< 0.5	< 5								
6/5/2012																
6/28/2012	< 5	< 5	< 5		< 5	< 5			< 5	< 5	< 5	< 5	< 5	< 2	< 5	< 5
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012				< 5			< 0.5	< 5								
9/11/2012																
9/25/2012							< 0.5									
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013				< 20			< 5	< 20								
4/9/2013																
4/24/2013																
5/20/2013																
6/18/2013				< 20			< 5	< 20								
7/16/2013																
7/24/2013																
8/6/2013																
8/27/2013																
9/3/2013																
9/24/2013				< 20			< 5	< 20								
Count	1	1	1	6	1	1	7	6	1	1	1	1	1	1	1	1
Min	< 5	< 5	< 5	< 5	< 5	< 5	< 0.5	< 5	< 5	< 5	< 5	< 5	< 5	< 2	< 5	< 5
Max	< 5	< 5	< 5	< 20	< 5	< 5	< 5	< 20	< 5	< 5	< 5	< 5	< 5	< 2	< 5	< 5
Median	< 5	< 5	< 5	13	< 5	< 5	< 0.5	13	< 5	< 5	< 5	< 5	< 5	< 2	< 5	< 5
Mean	< 5	< 5	< 5		< 5	< 5			< 5	< 5	< 5	< 5	< 5	< 2	< 5	< 5

C 5: Willows Effluent continued…

	Organics															
Date	4,4'-DDD	4,4'-DDE	4,4'-DDT	4,6-Dinitro-2-methylphenol	4-Bromophenyl phenyl ether	4-Chloro-3-methylphenol	4-Chloroaniline	4-Chlorophenyl phenyl ether	4-Chlorotoluene	4-Isopropyltoluene	4-Methylphenol	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Acetone
	µg/L															
4/17/2012									< 0.5	< 0.5						< 5
5/9/2012																
5/22/2012									< 0.5	< 0.5						< 5
6/5/2012																
6/28/2012	< 0.05	< 0.05	< 0.05	< 5	< 5	< 5	< 5	< 5	< 0.5		< 5	< 5	< 5	< 5	< 5	
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012									< 0.5	< 0.5						< 5
9/11/2012																
9/25/2012									< 0.5							
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013									< 0.5							< 20
4/9/2013																
4/24/2013																
5/20/2013																
6/18/2013									< 0.5							< 20
7/16/2013																
7/24/2013																
8/6/2013																
8/27/2013																
9/3/2013																
9/24/2013									< 0.5							< 20
Count	1	1	1	1	1	1	1	1	8	3	1	1	1	1	1	6
Min	< 0.05	< 0.05	< 0.05	< 5	< 5	< 5	< 5	< 5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 5	< 5
Max	< 0.05	< 0.05	< 0.05	< 5	< 5	< 5	< 5	< 5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 5	< 20
Median	< 0.05	< 0.05	< 0.05	< 5	< 5	< 5	< 5	< 5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 5	13
Mean	< 0.05	< 0.05	< 0.05	< 5	< 5	< 5	< 5	< 5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 5	

C 5: Willows Effluent continued…

	Organics																
Date	Acrolein	Acrylonitrile	Aldicarb	Aldicarb sulfone	Aldrin	alpha-BHC	alpha-Chlordane	Anthracene	Atrazine	Azinphos methyl	Benzene	Benzidine	Benzo(a)anthracene	Benzo(a)perylene	Benzo(b)fluoranthene	Benzo(ghi)perlyene	Benzo(k)fluoranthene
	µg/L																
4/17/2012											< 0.5						
5/9/2012																	
5/22/2012											< 0.5						
6/5/2012																	
6/28/2012	< 10	< 5	< 2	< 2	< 0.05	< 0.05	< 0.05	< 5	< 0.5	< 0.2	< 0.5	< 5	< 0.5	< 5	< 5	< 5	< 5
7/10/2012																	
7/24/2012																	
8/15/2012																	
8/28/2012											< 0.5						
9/11/2012																	
9/25/2012	< 10	< 5									< 0.5						
10/9/2012																	
10/25/2012																	
11/13/2012																	
11/29/2012																	
12/11/2012																	
12/26/2012																	
1/8/2013																	
1/29/2013																	
2/12/2013											< 0.5						
2/28/2013																	
3/12/2013																	
3/27/2013											< 0.5						
4/9/2013																	
4/24/2013																	
5/20/2013																	
6/18/2013											< 0.5						
7/16/2013																	
7/24/2013																	
8/6/2013																	
8/27/2013																	
9/3/2013																	
9/24/2013											< 0.5						
Count	2	2	1	1	1	1	1	1	1	1	9	1	1	1	1	1	1
Min	< 10	< 5	< 2	< 2	< 0.05	< 0.05	< 0.05	< 5	< 0.5	< 0.2	< 0.5	< 5	< 0.5	< 5	< 5	< 5	< 5
Max	< 10	< 5	< 2	< 2	< 0.05	< 0.05	< 0.05	< 5	< 0.5	< 0.2	< 0.5	< 5	< 0.5	< 5	< 5	< 5	< 5
Median	< 10	< 5	< 2	< 2	< 0.05	< 0.05	< 0.05	< 5	< 0.5	< 0.2	< 0.5	< 5	< 0.5	< 5	< 5	< 5	< 5
Mean	< 10	< 5	< 2	< 2	< 0.05	< 0.05	< 0.05	< 5	< 0.5	< 0.2	< 0.5	< 5	< 0.5	< 5	< 5	< 5	< 5

C 5: Willows Effluent continued…

Date	Organics																
	beta-BHC	Bis(2-chloroethoxy)methane	Bis(2-chloroethyl)ether	Bis(2-chloroisopropyl)ether	Bis(2-ethylhexyl)phthalate	Bolstar	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Butyl benzyl phthalate	Carbaryl	Carbofuran	Carbon disulfide	Carbon tetrachloride	Chlordane (tech)
	µg/L																
4/17/2012							< 0.5	< 0.5	1.3	< 0.5	< 0.5				< 0.5	< 0.5	
5/9/2012																	
5/22/2012							< 0.5	< 0.5	14	< 0.5	< 0.5				< 0.5	< 0.5	
6/5/2012																	
6/28/2012	< 0.05	< 5	< 5	< 5	< 5	< 0.2		< 0.5	12	< 0.5	< 2	< 5	< 2	< 2	< 0.5	< 0.5	< 0.1
7/10/2012																	
7/24/2012																	
8/15/2012																	
8/28/2012							< 0.5	< 0.5	16	< 0.5	< 0.5				< 0.5	< 0.5	
9/11/2012																	
9/25/2012							< 0.5	< 0.5	16	< 0.5	< 2				< 0.5	< 0.5	
10/9/2012																	
10/25/2012																	
11/13/2012																	
11/29/2012																	
12/11/2012																	
12/26/2012																	
1/8/2013																	
1/29/2013																	
2/12/2013									10	< 0.5						< 0.5	
2/28/2013																	
3/12/2013																	
3/27/2013							< 0.5	< 5	13	< 0.5	< 1				< 50	< 0.5	
4/9/2013																	
4/24/2013																	
5/20/2013																	
6/18/2013							< 0.5	< 5	17	< 0.5	< 1				< 50	< 0.5	
7/16/2013																	
7/24/2013																	
8/6/2013																	
8/27/2013																	
9/3/2013																	
9/24/2013							< 0.5	< 5	16	< 0.5	< 1				< 50	< 0.5	
Count	1	1	1	1	1	1	7	8	9	9	8	1	1	1	8	9	1
Min	< 0.05	< 5	< 5	< 5	< 5	< 0.2	< 0.5	< 0.5	1.3	< 0.5	< 0.5	< 5	< 2	< 2	< 0.5	< 0.5	< 0.1
Max	< 0.05	< 5	< 5	< 5	< 5	< 0.2	< 0.5	< 5	17	< 0.5	< 2	< 5	< 2	< 2	< 50	< 0.5	< 0.1
Median	< 0.05	< 5	< 5	< 5	< 5	< 0.2	< 0.5	< 0.5	14	< 0.5	< 1	< 5	< 2	< 2	< 0.5	< 0.5	< 0.1
Mean	< 0.05	< 5	< 5	< 5	< 5	< 0.2	< 0.5		13	< 0.5		< 5	< 2	< 2		< 0.5	< 0.1

C 5: Willows Effluent continued…

	Organics																
Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Chlorpyrifos	Chrysene	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Coumaphos	Dalapon	delta-BHC	Demeton O/S	Diazinon	Dibenzo(a,h)anthracene	Dibenzofuran	Dibromochloromethane	Dibromochloropropane
	µg/L																
4/17/2012	< 0.5	< 0.5	4.6	< 0.5			< 0.5	< 0.5								< 0.5	
5/9/2012																	
5/22/2012	< 0.5	< 0.5	47	< 0.5			< 0.5	< 0.5								2.6	
6/5/2012																	
6/28/2012	< 0.5	< 0.5	39		< 0.2	< 5	< 0.5	< 0.5	< 0.2	< 20	< 0.05	< 0.2	< 0.2	< 5	< 5	1.9	
7/10/2012																	
7/24/2012																	
8/15/2012																	
8/28/2012	< 0.5	< 0.5	48	< 0.5			< 0.5	< 0.5								2.9	
9/11/2012																	
9/25/2012	< 0.5	< 0.5	48	< 0.5			< 0.5	< 0.5								2.8	
10/9/2012																	
10/25/2012																	
11/13/2012																	
11/29/2012																	
12/11/2012																	
12/26/2012																	
1/8/2013																	
1/29/2013																	
2/12/2013	< 0.5	< 0.5	28				< 0.5	< 0.5								1.6	
2/28/2013																	
3/12/2013																	
3/27/2013	< 0.5	< 0.5	48	< 0.5			< 0.5	< 0.5								1.8	< 5
4/9/2013																	
4/24/2013																	
5/20/2013																	
6/18/2013	< 0.5	< 0.5	50	< 0.5			< 0.5	< 0.5								2.8	< 5
7/16/2013																	
7/24/2013																	
8/6/2013																	
8/27/2013																	
9/3/2013																	
9/24/2013	< 0.5	< 0.5	44	< 0.5			< 0.5	< 0.5								2.8	< 5
Count	9	9	9	7	1	1	9	9	1	1	1	1	1	1	1	9	3
Min	< 0.5	< 0.5	4.6	< 0.5	< 0.2	< 5	< 0.5	< 0.5	< 0.2	< 20	< 0.05	< 0.2	< 0.2	< 5	< 5	< 0.5	< 5
Max	< 0.5	< 0.5	50	< 0.5	< 0.2	< 5	< 0.5	< 0.5	< 0.2	< 20	< 0.05	< 0.2	< 0.2	< 5	< 5	2.9	< 5
Median	< 0.5	< 0.5	47	< 0.5	< 0.2	< 5	< 0.5	< 0.5	< 0.2	< 20	< 0.05	< 0.2	< 0.2	< 5	< 5	2.6	< 5
Mean	< 0.5	< 0.5	40	< 0.5	< 0.2	< 5	< 0.5	< 0.5	< 0.2	< 20	< 0.05	< 0.2	< 0.2	< 5	< 5	2.1	< 5

C 5: Willows Effluent continued…

	Organics																
Date	Dibromomethane	Dicamba	Dichlorodifluoromethane	Dichloromethane	Dichloroprop	Dichlorvos	Dieldrin	Diethyl phthalate	Di-isopropyl ether	Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	Dinoseb	Dioxacarb	Diphenylamine	Disulfoton	Endosulfan I
	µg/L																
4/17/2012	< 0.5		< 0.5						< 0.5								
5/9/2012																	
5/22/2012	< 0.5		< 0.5						< 0.5								
6/5/2012																	
6/28/2012	< 0.5	< 0.5			< 5	< 0.2	< 0.05	< 5		< 5	< 5	< 5	< 2.5	< 2	< 5	< 0.5	< 0.05
7/10/2012																	
7/24/2012																	
8/15/2012																	
8/28/2012	< 0.5		< 0.5						< 0.5								
9/11/2012																	
9/25/2012	< 0.5																
10/9/2012																	
10/25/2012																	
11/13/2012																	
11/29/2012																	
12/11/2012																	
12/26/2012																	
1/8/2013																	
1/29/2013																	
2/12/2013																	
2/28/2013																	
3/12/2013																	
3/27/2013	< 0.5		< 1	< 0.5													
4/9/2013																	
4/24/2013																	
5/20/2013																	
6/18/2013	< 0.5		< 1	< 0.5													
7/16/2013																	
7/24/2013																	
8/6/2013																	
8/27/2013																	
9/3/2013																	
9/24/2013	< 0.5		< 1	< 0.5													
Count	8	1	6	3	1	1	1	1	3	1	1	1	1	1	1	1	1
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.2	< 0.05	< 5	< 0.5	< 5	< 5	< 5	< 2.5	< 2	< 5	< 0.5	< 0.05
Max	< 0.5	< 0.5	< 1	< 0.5	< 5	< 0.2	< 0.05	< 5	< 0.5	< 5	< 5	< 5	< 2.5	< 2	< 5	< 0.5	< 0.05
Median	< 0.5	< 0.5	0.8	< 0.5	< 5	< 0.2	< 0.05	< 5	< 0.5	< 5	< 5	< 5	< 2.5	< 2	< 5	< 0.5	< 0.05
Mean	< 0.5	< 0.5		< 0.5	< 5	< 0.2	< 0.05	< 5	< 0.5	< 5	< 5	< 5	< 2.5	< 2	< 5	< 0.5	< 0.05

C 5: Willows Effluent continued…

	Organics																
Date	Endosulfan II	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone	Ethanol	Ethoprop	Ethyl tert-Butyl Ether	Ethylbenzene	Fensulfothion	Fenthion	Fluoranthene	Fluorene	gamma-BHC (Lindane)	gamma-Chlordane	Gasoline Range Hydrocarbons	Heptachlor
	µg/L																
4/17/2012						< 20		< 0.5	< 0.5							< 50	
5/9/2012																	
5/22/2012						< 20		< 0.5	< 0.5							< 50	
6/5/2012																	
6/28/2012	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.2		< 0.5	< 0.2	< 0.2	< 5	< 5	< 0.05	< 0.05		< 0.05
7/10/2012																	
7/24/2012																	
8/15/2012																	
8/28/2012						< 20		< 0.5	< 0.5								
9/11/2012																	
9/25/2012									< 0.5								
10/9/2012																	
10/25/2012																	
11/13/2012																	
11/29/2012																	
12/11/2012																	
12/26/2012																	
1/8/2013																	
1/29/2013																	
2/12/2013									< 0.5								
2/28/2013																	
3/12/2013																	
3/27/2013									< 0.5								
4/9/2013																	
4/24/2013																	
5/20/2013																	
6/18/2013									< 0.5								
7/16/2013																	
7/24/2013																	
8/6/2013																	
8/27/2013																	
9/3/2013																	
9/24/2013									< 0.5								
Count	1	1	1	1	1	3	1	3	9	1	1	1	1	1	1	2	1
Min	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 20	< 0.2	< 0.5	< 0.5	< 0.2	< 0.2	< 5	< 5	< 0.05	< 0.05	< 50	< 0.05
Max	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 20	< 0.2	< 0.5	< 0.5	< 0.2	< 0.2	< 5	< 5	< 0.05	< 0.05	< 50	< 0.05
Median	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 20	< 0.2	< 0.5	< 0.5	< 0.2	< 0.2	< 5	< 5	< 0.05	< 0.05	< 50	< 0.05
Mean	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 20	< 0.2	< 0.5	< 0.5	< 0.2	< 0.2	< 5	< 5	< 0.05	< 0.05	< 50	< 0.05

C 5: Willows Effluent continued…

	Organics																
Date	Heptachlor epoxide	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Hexavalent Chromium	Indeno(1,2,3-cd)pyrene	Iodomethane	Isophorone	Isopropylbenzene	m,p-Xylene	MBAs	MCPA	MCPP	Merphos	Methiocarb	Methomyl
	µg/L																
4/17/2012			< 0.5					< 0.5		< 0.5	< 1	< 0.1					
5/9/2012																	
5/22/2012			< 0.5					< 0.5		< 0.5	< 1	< 0.1					
6/5/2012																	
6/28/2012	< 0.05	< 5	< 5	< 5	< 5		< 5		< 5	< 0.5	< 0.5	< 0.1	< 30	< 30	< 0.2	< 2	< 2
7/10/2012																	
7/24/2012																	
8/15/2012																	
8/28/2012			< 0.5					< 0.5		< 0.5	< 1	< 0.1					
9/11/2012																	
9/25/2012			< 0.5			12				< 0.5	< 0.5						
10/9/2012																	
10/25/2012																	
11/13/2012																	
11/29/2012																	
12/11/2012																	
12/26/2012																	
1/8/2013																	
1/29/2013																	
2/12/2013			< 5							< 5	< 0.5						
2/28/2013																	
3/12/2013																	
3/27/2013			< 5		< 50			< 50		< 5	< 0.5						
4/9/2013																	
4/24/2013																	
5/20/2013																	
6/18/2013			< 5		< 50			< 50		< 5	< 0.5						
7/16/2013																	
7/24/2013																	
8/6/2013																	
8/27/2013																	
9/3/2013																	
9/24/2013			< 5		< 50			< 50		< 5	< 0.5						
Count	1	1	9	1	4	1	1	6	1	9	9	4	1	1	1	1	1
Min	< 0.05	< 5	< 0.5	< 5	< 5	12	< 5	< 0.5	< 5	< 0.5	< 0.5	< 0.1	< 30	< 30	< 0.2	< 2	< 2
Max	< 0.05	< 5	< 5	< 5	< 50	12	< 5	< 50	< 5	< 5	< 1	< 0.1	< 30	< 30	< 0.2	< 2	< 2
Median	< 0.05	< 5	< 5	< 5	< 50	12	< 5	25	< 5	< 0.5	< 0.5	< 0.1	< 30	< 30	< 0.2	< 2	< 2
Mean	< 0.05	< 5		< 5		12	< 5		< 5			< 0.1	< 30	< 30	< 0.2	< 2	< 2

C 5: Willows Effluent continued…

Date	Organics																
	Methoxychlor	Methyl parathion	Methylene chloride	Methyl-tert-Butyl Ether (MTBE)	Mevinphos	Naled	Naphthalene	n-Butylbenzene	Nitrobenzene	n-Nitrosodimethylamine	n-Nitrosodi-n-propylamine	n-Nitrosodiphenylamine	n-Propylbenzene	o-Xylene	PCB-1016	PCB-1221	PCB-1232
	µg/L																
4/17/2012			< 5				< 0.5	< 0.5					< 0.5	< 0.5			
5/9/2012																	
5/22/2012			< 5				< 0.5	< 0.5					< 0.5	< 0.5			
6/5/2012																	
6/28/2012	< 0.05	< 0.2	< 1	< 1	< 0.2	< 0.2	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
7/10/2012																	
7/24/2012																	
8/15/2012																	
8/28/2012			< 5				< 0.5	< 0.5					< 0.5	< 0.5			
9/11/2012																	
9/25/2012			< 1	< 1			< 0.5	< 0.5					< 0.5	< 0.5			
10/9/2012																	
10/25/2012																	
11/13/2012																	
11/29/2012																	
12/11/2012																	
12/26/2012																	
1/8/2013																	
1/29/2013																	
2/12/2013				< 0.5			< 5	< 5					< 5	< 0.5			
2/28/2013																	
3/12/2013																	
3/27/2013				< 0.5			< 5	< 5					< 5	< 0.5			
4/9/2013																	
4/24/2013																	
5/20/2013																	
6/18/2013				< 0.5			< 5	< 5					< 5	< 0.5			
7/16/2013																	
7/24/2013																	
8/6/2013																	
8/27/2013																	
9/3/2013																	
9/24/2013				< 0.5			< 5	< 5					< 5	< 0.5			
Count	1	1	5	6	1	1	9	9	1	1	1	1	9	9	1	1	1
Min	< 0.05	< 0.2	< 1	< 0.5	< 0.2	< 0.2	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.05	< 0.2	< 5	< 1	< 0.2	< 0.2	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 0.5	< 0.5	< 0.5	< 0.5
Median	< 0.05	< 0.2	< 5	< 0.5	< 0.2	< 0.2	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.05	< 0.2			< 0.2	< 0.2			< 5	< 5	< 5	< 5		< 0.5	< 0.5	< 0.5	< 0.5

C 5: Willows Effluent continued…

Date	Organics																
	PCB-1242	PCB-1248	PCB-1254	PCB-1260	Pentachlorophenol	Perchlorate	Phenanthrene	Phenol	Phorate	p-Isopropyltoluene	Promecarb	Propoxur (Baygon)	Pyrene	Ronnel (Fenchlorphos)	sec-Butylbenzene	Simazine	Stirophos (Tetrachlorvinphos)
	µg/L																
4/17/2012															< 0.5		
5/9/2012																	
5/22/2012															< 0.5		
6/5/2012																	
6/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 5		< 5	< 5	< 0.2		< 2	< 2	< 5	< 0.2	< 10	< 0.5	< 0.2
7/10/2012																	
7/24/2012																	
8/15/2012																	
8/28/2012															< 0.5		
9/11/2012																	
9/25/2012						< 4				< 0.5					< 10		
10/9/2012																	
10/25/2012																	
11/13/2012																	
11/29/2012																	
12/11/2012																	
12/26/2012																	
1/8/2013																	
1/29/2013						< 20											
2/12/2013															< 5		
2/28/2013																	
3/12/2013																	
3/27/2013						< 40				< 5					< 5		
4/9/2013																	
4/24/2013																	
5/20/2013																	
6/18/2013						< 40				< 5					< 5		
7/16/2013																	
7/24/2013																	
8/6/2013																	
8/27/2013																	
9/3/2013																	
9/24/2013						< 2				< 5					< 5		
Count	1	1	1	1	1	5	1	1	1	4	1	1	1	1	9	1	1
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 2	< 5	< 5	< 0.2	< 0.5	< 2	< 2	< 5	< 0.2	< 0.5	< 0.5	< 0.2
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 40	< 5	< 5	< 0.2	< 5	< 2	< 2	< 5	< 0.2	< 10	< 0.5	< 0.2
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 20	< 5	< 5	< 0.2	< 5	< 2	< 2	< 5	< 0.2	< 5	< 0.5	< 0.2
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 5		< 5	< 5	< 0.2		< 2	< 2	< 5	< 0.2		< 0.5	< 0.2

C 5: Willows Effluent continued…

Date	Organics																
	Styrene	TBA	Tert-Amyl Methyl Ether	tert-Butylbenzene	Tetrachlorethene (PCE)	Tokuthion (Prothiofos)	Toluene	Toxaphene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichloronate	Trichlorotrifluoroethane	Trifluralin	Vinyl chloride	Xylenes, total
	µg/L																
4/17/2012	< 0.5	< 5	< 0.5	< 0.5	< 0.5		< 0.5		< 0.5	< 0.5	< 0.5	< 0.5		< 1		< 0.5	< 1
5/9/2012																	
5/22/2012	< 0.5	< 5	< 0.5	< 0.5	< 0.5		< 0.5		< 0.5	< 0.5	< 0.5	< 0.5		< 1		< 0.5	< 1
6/5/2012																	
6/28/2012				< 0.5	< 0.5	< 0.2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.2		< 0.05	< 0.5	
7/10/2012																	
7/24/2012																	
8/15/2012																	
8/28/2012	< 0.5	< 5	< 0.5	< 0.5	< 0.5		< 0.5		< 0.5	< 0.5	< 0.5	< 0.5		< 1		< 0.5	< 1
9/11/2012																	
9/25/2012				< 0.5	< 0.5		< 0.5		< 0.5	< 0.5	< 0.5					< 0.5	
10/9/2012																	
10/25/2012																	
11/13/2012																	
11/29/2012																	
12/11/2012																	
12/26/2012																	
1/8/2013																	
1/29/2013																	
2/12/2013				< 5	< 0.5		< 0.5		< 0.5	< 0.5	< 0.5					< 0.5	
2/28/2013																	
3/12/2013																	
3/27/2013	< 5			< 5	< 0.5		< 0.5		< 0.5	< 0.5	< 0.5	< 0.5				< 0.5	
4/9/2013																	
4/24/2013																	
5/20/2013																	
6/18/2013	< 5			< 5	< 0.5		< 0.5		< 0.5	< 0.5	< 0.5	< 0.5				< 0.5	
7/16/2013																	
7/24/2013																	
8/6/2013																	
8/27/2013																	
9/3/2013																	
9/24/2013	< 5			< 5	< 0.5		< 0.5		< 0.5	< 0.5	< 0.5	< 0.5				< 0.5	
Count	6	3	3	9	9	1	9	1	9	9	9	6	1	3	1	9	3
Min	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1	< 0.05	< 0.5	< 1
Max	< 5	< 5	< 0.5	< 5	< 0.5	< 0.2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1	< 0.05	< 0.5	< 1
Median	3	< 5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1	< 0.05	< 0.5	< 1
Mean		< 5	< 0.5		< 0.5	< 0.2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1	< 0.05	< 0.5	< 1

C 6: Hunters Creek (520COL108)

	Field Data					Bacteria	General Chemistry							Inorganics		
Date	Dissolved Oxygen	pH	Water Temperature	Turbidity	Specific Conductivity	*E. coli*	Boron	Chloride	Fluoride	Perchlorate	Sodium	Sulfate	Total Dissolved Solids	Total Calcium	Total Hardness	Total Magnesium
	mg/L		°C	ntu	µS/cm	MPN	µg/L	mg/L								
4/17/2012	10.2	8.12	21.1	54.8	740		200				155					
5/9/2012	7.69	8.07	19.6	44.0	230											
5/22/2012	7.94	7.92	22.3	25.9	320		140				76.4					
6/5/2012	9.02	8.02	19.8	25.9	380											
6/28/2012	8.68	8.06	23.6	22.7	330		140				36.0					
7/10/2012	8.80	7.55	24.6	20.1	350											
7/24/2012	8.64	7.58	25.1	16.9	350		150				30.8			22.2	110	12.5
8/15/2012	8.75	7.55	24.9	30.0	340	157										
8/28/2012	9.47	7.61	20.8	29.6	330	150	100				28.4			22.7	110	12.8
9/11/2012	9.02	7.68	20.3	40.4	380	260										
9/25/2012	12.0	8.30	21.6	25.8	270	133	95	10	0.17	< 4.0	26.0	20	130	19	92	11
10/9/2012	11.5	8.04	18.2	34.5	200	228										
10/25/2012	12.3	7.62	13.8	24.5	190			5.5			15.0	10	120	15	71	8.1
11/13/2012	11.5	7.04	11.4	26.3	260	67.0										
11/29/2012	10.3	7.37	12.4	156.3	360		100	19			35.2	20	240		108	
12/11/2012	10.3	7.36	11.6	67.8	400	126										
12/26/2012	11.1	7.54	7.22	478	280		100				26.0			23	110	14
1/8/2013	12.3	7.61	8.62	229	380	816										
1/29/2013	11.6	7.46	9.09	97.9	440		140	22	0.36	< 2.0	47.0	30	260	26	130	16
2/12/2013	14.9	8.07	10.7	18.6	870	65.0										
2/28/2013	15.3	7.93	13.3	28.6	620		180	39			69.0	60	340	35	170	21
3/12/2013	10.7	7.76	12.8	18.4	620	108										
3/27/2013	8.77	7.65	14.6	33.3	390		140	22	0.24	< 2.0	39.0	40	230	25	120	14
4/24/2013	7.78	7.97	16.8	36.8	230	133		8.4			19.0	10	150	17	81	9
5/20/2013	10.3	7.85	21.9	13.3	430	22.8		14			54.0	60	260	23	110	14
6/18/2013	9.58	8.10	23.3	12.8	310	27.2		7.5	0.29	< 2.0	32.0	20	180	18	91	11
7/24/2013		7.94	26.5	22.7	310	77.1		8.6			27.0	10	190	23	110	13
8/27/2013	9.12	7.76	22.0	30.6	360	101		10			34.0	10	190	25	120	15
9/24/2013		8.01	22.0	27.4	290	76.3		12	0.14	< 2.0	27.0	30	160	19	89	10
Count	27	29	29	29	29	16	11	12	5	5	18	12	12	14	15	14
Min	7.69	7.04	7.22	12.8	190	22.8	95	6	0.14	< 2.0	15.0	10	120	15	71	8
Max	15.3	8.30	26.5	478	870	816	200	39	0.36	< 4.0	155	60	340	35	170	21
Median	10.2	7.76	19.8	28.6	350	117	140	12	0.24	< 2.0	33.0	20	190	23	110	13
Mean	10.3	7.78	17.9	58.4	380	159	140	15	0.24	0.6	43.2	30	200	22	108	13

C 6: Hunters Creek (520COL108) continued…

	Nutrients		Metals									
	Nitrate as N	Nitrite as N	Dissolved Aluminum	Dissolved Arsenic	Dissolved Iron	Dissolved Manganese	Total Aluminum	Total Antimony	Total Arsenic	Total Barium	Total Beryllium	Total Cadmium
Date	mg/L		µg/L									
4/17/2012	0.53	< 0.15					3300		< 10.			
5/9/2012												
5/22/2012	0.17	< 0.15					920		< 10.			
6/5/2012												
6/28/2012	0.11						770		2.1			
7/10/2012												
7/24/2012							280		< 10.			
8/15/2012												
8/28/2012	0.20						520		< 10.			
9/11/2012												
9/25/2012	0.11		< 50.		37.0	36	1300	< 5	1.8	50.	< 1	< 1
10/9/2012												
10/25/2012	0.27											
11/13/2012												
11/29/2012	0.34											
12/11/2012												
12/26/2012	0.67											
1/8/2013												
1/29/2013	0.38		16		360.	< 1.0	4500	< 0.5		110	< 0.5	< 0.3
2/12/2013												
2/28/2013	0.72											
3/12/2013												
3/27/2013	0.46		12		19.0	2.2	1100	< 0.5		76	< 0.5	< 0.3
4/24/2013	0.14			1.7					2.0			
5/20/2013	< 0.22			2.0					2.2			
6/18/2013	< 0.22		8.3	2.6	47.0	< 1.0	400	< 0.5	3.0	56	< 0.5	< 0.3
7/24/2013	< 0.22			1.7					2.4			
8/27/2013	< 0.22			1.4					2.6			
9/24/2013	< 0.22		< 5.0	2.2	38.0	16	860	< 0.5	2.2	46	< 0.5	< 0.3
Count	17	2	5	6	5	5	10	5	12	5	5	5
Min	0.11	< 0.15	< 5.0	1.4	19.0	< 1.0	276	< 0.5	1.8	46	< 0.5	< 0.3
Max	0.72	< 0.15	< 50.	2.6	360.	36	4500	< 5	< 10.	110	< 1	< 1
Median	< 0.22	< 0.15	12	1.9	38.0	2.2	890	< 0.5	2.5	56	< 0.5	< 0.3
Mean	0.26	< 0.15	10.	1.9	100.	11	1400	0.4	2.4	68	0.2	0.1

C 6: Hunters Creek (520COL108) continued…

	Metals												
	Total Chromium	Total Copper	Total Iron	Total Lead	Total Manganese	Total Mercury	Total Molybdenum	Total Nickel	Total Selenium	Total Silver	Total Thallium	Total Vanadium	Total Zinc
Date	µg/L												
4/17/2012			5600		290								
5/9/2012													
5/22/2012			1200		60.								
6/5/2012													
6/28/2012			1300		61								
7/10/2012													
7/24/2012			640		72								
8/15/2012													
8/28/2012			1200		83								
9/11/2012													
9/25/2012	< 5.0	< 5.0	1800	< 1	120	< 0.2	< 5.0	< 5.0	< 20.	< 5	< 1.0	< 10	< 5.0
10/9/2012													
10/25/2012													
11/13/2012													
11/29/2012													
12/11/2012													
12/26/2012													
1/8/2013													
1/29/2013	9.0	13	9200	2	300	< 0.2		12	< 1.0	< 1	< 1.0		14
2/12/2013													
2/28/2013													
3/12/2013													
3/27/2013	2.8	3.8	1500	0.5	100	< 0.2		3.2	< 1.0	< 1	< 1.0		< 5.0
4/24/2013													
5/20/2013													
6/18/2013	1.1	3.8	690	0.3	55	< 0.2		3.3	< 1.0	< 1	< 1.0		< 5.0
7/24/2013													
8/27/2013													
9/24/2013	2.2	3.1	1200	0.5	90	< 0.2		2.8	< 1.0	< 0.3	< 1.0		< 5.0
Count	5	5	10	5	10	5	1	5	5	5	5	1	5
Min	1.1	3.1	640	0.3	55	< 0.2	< 5.0	2.8	< 1.0	< 0.3	< 1.0	< 10	< 5.0
Max	9.0	13	9200	2	300	< 0.2	< 5.0	12	< 20.	< 5	1.0	< 10	14
Median	2.8	3.8	1300	0.5	86	< 0.2	< 5.0	3.3	< 1.0	< 1	1.0	< 10	< 5.0
Mean	3.3	5.0	2400	0.8	120	< 0.2	< 5	4.5	1.2	0.4	1.0	< 10	3.8

C 6: Hunters Creek (520COL108) continued…

	Organics																													
	1,1,1,2-Tetrachloroethane		1,1,1-Trichloroethane (TCA)		1,1,2,2-Tetrachloroethane		1,1,2-Trichloroethane		1,1-Dichloroethane		1,1-Dichloroethene		1,1-Dichloropropene		1,2,3-Trichlorobenzene		1,2,3-Trichloropropane (123TCP)		1,2,4-Trichlorobenzene		1,2,4-Trimethylbenzene		1,2-Dibromo-3-chloropropane (DBCP)		1,2-Dibromoethane (EDB)		1,2-Dichlorobenzene		1,2-Dichloroethane (1,2-DCA)	
Date	µg/L																													
4/17/2012	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
5/9/2012																														
5/22/2012	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
6/5/2012																														
6/28/2012	<	0.5	<	0.5					<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	10	<	5	<	0.5	<	2
7/10/2012																														
7/24/2012																														
8/15/2012																														
8/28/2012	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
9/11/2012																														
9/25/2012																														
10/9/2012																														
10/25/2012																														
11/13/2012																														
11/29/2012																														
12/11/2012																														
12/26/2012																														
1/8/2013																														
1/29/2013																														
2/12/2013																														
2/28/2013																														
3/12/2013																														
3/27/2013																														
4/24/2013																														
5/20/2013																														
6/18/2013																														
7/24/2013																														
8/27/2013																														
9/24/2013																														
Count		4		4		3		3		4		4		4		4		4		4		4		4		4		4		4
Min	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
Max	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	10	<	5	<	0.5	<	2
Median	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
Mean	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5					<	0.5		

C 6: Hunters Creek (520COL108) continued…

	Organics															
Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Isopropyltoluene	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene
	µg/L															
4/17/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5			< 0.5	< 0.5
5/9/2012																
5/22/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5			< 0.5	< 0.5
6/5/2012																
6/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5		< 0.5			< 10	< 5	< 0.5	< 0.5
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	6.4			< 0.5	< 0.5
9/11/2012																
9/25/2012																
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013																
4/24/2013																
5/20/2013																
6/18/2013																
7/24/2013																
8/27/2013																
9/24/2013																
Count	4	4	4	4	4	4	3	4	3	4	3	3	1	1	4	4
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 10	< 5	< 0.5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	6.4	< 10	< 5	< 0.5	< 0.5
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 10	< 5	< 0.5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	3	< 10	< 5	< 0.5	< 0.5

C 6: Hunters Creek (520COL108) continued…

	Organics															
Date	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether
	µg/L															
4/17/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
5/9/2012																
5/22/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
6/5/2012																
6/28/2012	< 0.5	< 0.5	< 0.5	< 2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
9/11/2012																
9/25/2012																
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013																
4/24/2013																
5/20/2013																
6/18/2013																
7/24/2013																
8/27/2013																
9/24/2013																
Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

C 6: Hunters Creek (520COL108) continued…

	Organics															
Date	Ethanol	Ethyl tert-Butyl Ether	Ethylbenzene	Gasoline Range Hydrocarbons	Hexachlorobutadiene	Hexavalent Chromium	Iodomethane	Isopropylbenzene	m,p-Xylene	MBAs	Methylene chloride	Methyl-tert-Butyl Ether (MTBE)	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene
	µg/L															
4/17/2012	< 20	< 0.5	< 0.5	< 50	< 0.5		< 0.5	< 0.5	< 1	< 0.1	< 5		< 0.5	< 0.5	< 0.5	< 0.5
5/9/2012																
5/22/2012	< 20	< 0.5	< 0.5	< 50	< 0.5		< 0.5	< 0.5	< 1	< 0.1	< 5		< 0.5	< 0.5	< 0.5	< 0.5
6/5/2012																
6/28/2012			< 0.5		< 0.5			< 0.5	< 0.5	< 0.1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012	65.1	< 0.5	< 0.5		< 0.5		< 0.5	< 0.5	< 1	< 0.1	< 5		< 0.5	< 0.5	< 0.5	< 0.5
9/11/2012																
9/25/2012						11										
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013																
4/24/2013																
5/20/2013																
6/18/2013																
7/24/2013																
8/27/2013																
9/24/2013																
Count	3	3	4	2	4	1	3	4	4	4	4	1	4	4	4	4
Min	< 20	< 0.5	< 0.5	< 50	< 0.5	11	< 0.5	< 0.5	< 0.5	< 0.1	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5
Max	65.1	< 0.5	< 0.5	< 50	< 0.5	11	< 0.5	< 0.5	< 1	< 0.1	< 5	< 1	< 0.5	< 0.5	< 0.5	< 0.5
Median	< 20	< 0.5	< 0.5	< 50	< 0.5	11	< 0.5	< 0.5	< 1	< 0.1	< 5	< 1	< 0.5	< 0.5	< 0.5	< 0.5
Mean	75.1	< 0.5	< 0.5	< 50	< 0.5	11	< 0.5	< 0.5		< 0.1		< 1	< 0.5	< 0.5	< 0.5	< 0.5

C 6: Hunters Creek (520COL108) continued…

	Organics															
Date	Perchlorate	p-Isopropyltoluene	sec-Butylbenzene	Styrene	TBA	Tert-Amyl Methyl Ether	tert-Butylbenzene	Tetrachlorethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl chloride	Xylenes, total
	µg/L															
4/17/2012			< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
5/9/2012																
5/22/2012			< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
6/5/2012																
6/28/2012		< 0.5	< 10				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012			< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
9/11/2012																
9/25/2012	< 4															
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013	< 2															
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013	< 2															
4/24/2013																
5/20/2013																
6/18/2013	< 2															
7/24/2013																
8/27/2013																
9/24/2013	< 2															
Count	5	1	4	3	3	3	4	4	4	4	4	4	3	3	4	3
Min	< 2	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Max	< 4	< 0.5	< 10	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Median	< 2	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Mean		< 0.5		< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1

C 7: Logan Creek, downstream of effluent (520COL109)

	Field Data					Bacteria	General Chemistry							Inorganics		
Date	Dissolved Oxygen	pH	Water Temperature	Turbidity	Specific Conductivity	*E. coli*	Boron	Chloride	Fluoride	Perchlorate	Sodium	Sulfate	Total Dissolved Solids	Total Calcium	Total Hardness	Total Magnesium
	mg/L		°C	ntu	µS/cm	MPN	µg/L	mg/L								
4/17/2012	8.37	7.68	18.7	51.9	560		190				120					
5/9/2012	7.05	8.17	20.2	37.7	450											
5/22/2012	7.13	7.69	23.4	27.2	450		200				120					
6/5/2012	7.18	7.91	20.9	25.8	480											
6/28/2012	8.50	7.87	21.9	17.0	440		280				57					
7/10/2012	7.07	7.61	24.8	11.7	420											
7/24/2012	6.09	7.45	22.6	11.7	370		210				36			20	120	16.1
8/15/2012	6.01	7.45	25.4	14.9	370	35.5										
8/28/2012	6.99	7.50	21.0	18.6	360	130.	150				31			20.8	120	16.5
9/11/2012	7.14	7.58	20.8	16.9	380	35.5										
9/25/2012	6.38	7.56	21.2	16.8	280	93.3	130	5.9	0.21	< 4.0	28	18	160	20	110	15
10/9/2012	7.11	7.55	18.7	25.5	310	82.0										
10/25/2012	9.29	9.26	13.8	10.0	340			7.1			33	23	200	22	120	17
11/13/2012	8.75	7.20	11.3	11.3	320	65.7										
11/29/2012	7.58	7.41	12.3	73.7	350		120	10.			36	30.	220		100	
12/11/2012	8.53	7.40	10.9	45.3	390	40.8										
12/26/2012	9.70	7.52	7.9	99.5	350		160				41			15	93	13
1/8/2013	11.5	7.58	8.5	40.6	430	41.0										
1/29/2013	10.9	7.52	9.9	40.9	500		230	10.	0.45	< 2.0	71	74	360	28	170	25
2/12/2013	12.8	8.16	10.2	68.1	530	48.7										
2/28/2013	12.1	7.92	12.9	42.9	860		300	20.			110	140	520	34	220	32
3/12/2013	10.0	7.91	14.0	56.6	800	85.7										
3/27/2013	8.89	7.73	14.7	92.0	520		190	10.	0.33	< 2.0	57	72	300	24	150	21
4/24/2013	8.40	7.79	17.3	82.5	410	110.		8.3			44	46	260	23	130	18
5/20/2013	9.05	7.85	22.0	38.7	400	57.3		8.5			54	57	280	23	140	19
6/18/2013	7.67	7.53	23.1	16.0	380	55.6		4.8	0.40	< 2.0	42	28	220	19	110	16
7/24/2013		7.90	28.3	14.2	350	133		4.8			29	17	210	21	120	16
8/27/2013	6.55	7.50	22.0	18.3	400	43.2		6.8			36	16	220	23	140	19
9/24/2013		7.63	20.1	30.2	310	50.4		8.0	0.18	< 2.0	27	18	180	18	100	14
Count	27	29	29	29	29	16	11	12	5	5	18	12	12	14	15	14
Min	6.01	7.20	7.86	10.0	280	35.5	120	5	0.18	< 2.0	27	16	160	15	93	13
Max	12.8	9.26	28.3	99.5	860	133	300	22	0.45	< 4.0	120	140	520	34	220	32
Median	8.37	7.61	20.1	27.2	400	56.5	190	8	0.33	< 2.0	42	29	220	22	120	17
Mean	8.40	7.72	17.9	36.4	440	69.2	200	9	0.31	0.60	54	45	260	22	130	18

C 7: Logan Creek, downstream of effluent (520COL109) continued…

	Nutrients		Metals									
	Nitrate as N	Nitrite as N	Dissolved Aluminum	Dissolved Arsenic	Dissolved Iron	Dissolved Manganese	Total Aluminum	Total Antimony	Total Arsenic	Total Barium	Total Beryllium	Total Cadmium
Date	mg/L		µg/L									
4/17/2012	0.33	< 0.15					2600		< 10.			
5/9/2012												
5/22/2012	< 0.11	< 0.15					820		< 10.			
6/5/2012												
6/28/2012	< 0.11						340		3.4			
7/10/2012												
7/24/2012							230		< 10.			
8/15/2012												
8/28/2012	< 0.11						410		< 10.			
9/11/2012												
9/25/2012	< 0.11		< 50.		223	40.	370	< 5	2.6	54	< 1	< 1
10/9/2012												
10/25/2012	0.28											
11/13/2012												
11/29/2012	0.60											
12/11/2012												
12/26/2012	0.51											
1/8/2013												
1/29/2013	0.43		8.9		130.	< 1.0	1800	< 0.5		75	< 0.5	< 0.3
2/12/2013												
2/28/2013	0.40											
3/12/2013												
3/27/2013	0.49		11		78.0	< 1.0	2800	< 0.5		80.	< 0.5	< 0.3
4/24/2013	0.54			2.2					3.7			
5/20/2013	0.16			2.9					3.9			
6/18/2013	< 0.22		8.3	3.1	81.0	3.7	400	< 0.5	3.8	61	< 0.5	< 0.3
7/24/2013	< 0.22			2.7					3.3			
8/27/2013	< 0.22			1.9					2.9			
9/24/2013	< 0.22		5.7	2.5	150.	12	960	< 0.5	3.1	58	< 0.5	< 0.3
Count	17	2	5	6	5	5	10	5	12	5	5	5
Min	< 0.11	< 0.15	5.7	1.9	78.0	< 1.0	230	< 0.5	2.6	54	< 0.5	< 0.3
Max	0.60	< 0.15	< 50.	3.1	223	40.	2800	< 5	< 10.	80.	< 1	< 1
Median	< 0.22	< 0.15	8.9	2.6	130.	3.7	620	< 0.5	3.8	61	< 0.5	< 0.3
Mean	0.24	< 0.15	9.3	2.6	132	11	1000	0.4	3.1	66	0.2	0.1

C 7: Logan Creek, downstream of effluent (520COL109) continued…

	Metals												
	Total Chromium	Total Copper	Total Iron	Total Lead	Total Manganese	Total Mercury	Total Molybdenum	Total Nickel	Total Selenium	Total Silver	Total Thallium	Total Vanadium	Total Zinc
Date	µg/L												
4/17/2012			4900		320								
5/9/2012													
5/22/2012			1500		280								
6/5/2012													
6/28/2012			860		97								
7/10/2012													
7/24/2012			620		83								
8/15/2012													
8/28/2012			930		130								
9/11/2012													
9/25/2012	< 5.0	< 5.0	1200	< 1	110	< 0.2	< 5.0	< 5.0	< 20.	< 5	< 1.0	< 10	< 5.0
10/9/2012													
10/25/2012													
11/13/2012													
11/29/2012													
12/11/2012													
12/26/2012													
1/8/2013													
1/29/2013	4.6	5.4	3500	1	230	< 0.2		7.0	< 1.0	< 1	< 1.0		6.6
2/12/2013													
2/28/2013													
3/12/2013													
3/27/2013	7.9	8.1	4900	1	310	< 0.2		9.1	< 1.0	< 1	< 1.0		14
4/24/2013													
5/20/2013													
6/18/2013	1.1	4.1	930	0.4	120	< 0.2		4.2	< 1.0	< 1	< 1.0		< 5.0
7/24/2013													
8/27/2013													
9/24/2013	2.6	3.4	1600	0.6	140	< 0.2		4.3	< 1.0	< 0.3	< 1.0		5.9
Count	5	5	10	5	10	5	1	5	5	5	5	1	5
Min	1.1	3.4	610	0.4	83	< 0.2	< 5.0	4.2	< 1.0	< 0.3	< 1.0	< 10	< 5.0
Max	7.9	8.1	4900	1	320	< 0.2	< 5.0	9.1	< 20.	< 5	< 1.0	< 10	14
Median	4.6	< 5.0	1300	1	130	< 0.2	< 5.0	< 5.0	< 1.0	< 1	< 1.0	< 10	5.9
Mean	3.5	4.5	2100	0.7	180	< 0.2	< 5.0	5.1	1.2	0.4	< 1.0	< 10	5.8

C 7: Logan Creek, downstream of effluent (520COL109) continued…

	Organics														
Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane (TCA)	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane (123TCP)	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane (1,2-DCA)
	µg/L														
4/17/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
5/9/2012															
5/22/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
6/5/2012															
6/28/2012	< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 5	< 0.5	< 2
7/10/2012															
7/24/2012															
8/15/2012															
8/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
9/11/2012															
9/25/2012															
10/9/2012															
10/25/2012															
11/13/2012															
11/29/2012															
12/11/2012															
12/26/2012															
1/8/2013															
1/29/2013															
2/12/2013															
2/28/2013															
3/12/2013															
3/27/2013															
4/24/2013															
5/20/2013															
6/18/2013															
7/24/2013															
8/27/2013															
9/24/2013															
Count	4	4	3	3	4	4	4	4	4	4	4	4	4	4	4
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 5	< 0.5	< 2
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	

C 7: Logan Creek, downstream of effluent (520COL109) continued…

	Organics														
Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Isopropyltoluene	Acetone	Acrolein	Acrylonitrile	Benzene
	µg/L														
4/17/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5			< 0.5
5/9/2012															
5/22/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5			< 0.5
6/5/2012															
6/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5					< 0.5			< 10	< 5	< 0.5
7/10/2012															
7/24/2012															
8/15/2012															
8/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5			< 0.5
9/11/2012															
9/25/2012															
10/9/2012															
10/25/2012															
11/13/2012															
11/29/2012															
12/11/2012															
12/26/2012															
1/8/2013															
1/29/2013															
2/12/2013															
2/28/2013															
3/12/2013															
3/27/2013															
4/24/2013															
5/20/2013															
6/18/2013															
7/24/2013															
8/27/2013															
9/24/2013															
Count	4	4	4	4	4	3	3	3	3	4	3	3	1	1	4
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 10	< 5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 10	< 5	< 0.5
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 10	< 5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 10	< 5	< 0.5

C 7: Logan Creek, downstream of effluent (520COL109) continued…

	Organics															
Date	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane
	µg/L															
4/17/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
5/9/2012																
5/22/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
6/5/2012																
6/28/2012		< 0.5	< 0.5	< 0.5	< 2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5		
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
9/11/2012																
9/25/2012																
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013																
4/24/2013																
5/20/2013																
6/18/2013																
7/24/2013																
8/27/2013																
9/24/2013																
Count	3	4	4	4	4	4	4	4	4	4	3	4	4	4	3	3
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

C 7: Logan Creek, downstream of effluent (520COL109) continued…

	Organics															
Date	Di-isopropyl ether	Ethanol	Ethyl tert-Butyl Ether	Ethylbenzene	Gasoline Range Hydrocarbons	Hexachlorobutadiene	Hexavalent Chromium	Iodomethane	Isopropylbenzene	m,p-Xylene	MBAs	Methylene chloride	Methyl-tert-Butyl Ether (MTBE)	Naphthalene	n-Butylbenzene	n-Propylbenzene
	µg/L															
4/17/2012	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5		< 0.5	< 0.5	< 1	< 0.1	< 5		< 0.5	< 0.5	< 0.5
5/9/2012																
5/22/2012	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5		< 0.5	< 0.5	< 1	< 0.1	< 5		< 0.5	< 0.5	< 0.5
6/5/2012																
6/28/2012				< 0.5		< 0.5			< 0.5	< 0.5	< 0.1	< 1	< 1	< 0.5	< 0.5	< 0.5
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012	< 0.5	< 20	< 0.5	< 0.5		< 0.5		< 0.5	< 0.5	< 1	< 0.1	< 5		< 0.5	< 0.5	< 0.5
9/11/2012																
9/25/2012							16									
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013																
4/24/2013																
5/20/2013																
6/18/2013																
7/24/2013																
8/27/2013																
9/24/2013																
Count	3	3	3	4	2	4	1	3	4	4	4	4	1	4	4	4
Min	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	16	< 0.5	< 0.5	< 0.5	< 0.1	< 1	< 1	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	16	< 0.5	< 0.5	< 1	< 0.1	< 5	< 1	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	16	< 0.5	< 0.5	< 1	< 0.1	< 5	< 1	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	16	< 0.5	< 0.5		< 0.1		< 1	< 0.5	< 0.5	< 0.5

C 7: Logan Creek, downstream of effluent (520COL109) continued…

	Organics															
Date	o-Xylene	Perchlorate	sec-Butylbenzene	Styrene	TBA	Tert-Amyl Methyl Ether	tert-Butylbenzene	Tetrachlorethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl chloride	Xylenes, total
	µg/L															
4/17/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
5/9/2012																
5/22/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
6/5/2012																
6/28/2012	< 0.5		< 10				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
9/11/2012																
9/25/2012		< 4														
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013		< 2														
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013		< 2														
4/24/2013																
5/20/2013																
6/18/2013		< 2														
7/24/2013																
8/27/2013																
9/24/2013		< 2														
Count	4	5	4	3	3	3	4	4	4	4	4	4	3	3	4	3
Min	< 0.5	< 2	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Max	< 0.5	< 4	< 10	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Median	< 0.5	< 2	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Mean	< 0.5			< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1

C 8: Willow Creek at Road 61 (520GEL001)

	Field Data					Bacteria	General Chemistry							Inorganics		
Date	Dissolved Oxygen	pH	Water Temperature	Turbidity	Specific Conductivity	*E. coli*	Boron	Chloride	Fluoride	Perchlorate	Sodium	Sulfate	Total Dissolved Solids	Total Calcium	Total Hardness	Total Magnesium
	mg/L		°C	ntu	µS/cm	MPN	µg/L	mg/L								
4/17/2012	8.75	7.95	18.0	20.7	560		100				50					
5/9/2012	7.61	8.07	19.5	26.9	220											
5/22/2012	7.67	7.69	20.1	18.0	320		82				30					
6/5/2012	7.52	7.82	18.3	28.5	370											
6/28/2012	6.33	7.62	21.2	36.7	350		130				20					
7/10/2012	7.92	7.70	24.4	22.5	370											
7/24/2012	5.25	7.48	23.6	25.7	370		110				20			28	160	21.4
8/15/2012	6.45	7.55	23.7	24.2	360	160.								27	150	20.4
8/28/2012	7.09	7.56	19.6	21.6	350	131	77				20					
9/11/2012	7.31	7.65	19.4	23.4	350	109										
9/25/2012	8.91	7.93	20.2	27.4	470	326	110	5	0.15	< 4.0	20	10	270	41	230	30
10/9/2012	9.16	8.02	17.2	9.40	480	172										
10/25/2012	4.36	7.53	13.9	38.7	440			10			20	20	280	36	280	26
11/13/2012	8.15	7.43	11.9	21.4	370	81.3										
11/29/2012	10.2	7.72	12.7	90.3	350		71	9			20	10	210		154	
12/11/2012	9.91	7.52	11.6	46.2	380	62.4										
12/26/2012	10.9	7.70	7.40	603	220		69				10			23	130	18
1/8/2013	12.2	7.70	8.66	187	340	980.										
1/29/2013	12.1	7.70	9.82	31.4	470		100	8	0.24	< 4.0	20	20	270	38	210	28
2/12/2013	13.0	8.04	11.0	30.8	500	28.2										
2/28/2013	11.5	7.92	13.8	15.9	600		130	7			30	20	340	55	310	42
3/12/2013	9.88	8.09	14.2	23.4	380	93.4										
3/27/2013	9.57	7.99	15.9	17.4	550		120	7	0.18	< 2.0	30	20	320	52	280	37
4/24/2013	10.1	8.03	17.2	58.1	330	93.3		4			20	10	200	27	150	19
5/20/2013	8.27	7.86	20.3	14.7	410	167		6			20	20	240	33	180	24
6/18/2013	6.94	7.65	21.3	28.2	330	150.		3	0.18	< 2.0	20	9	180	25	140	19
7/24/2013		7.86	20.8	15.8	320	102		4			10	8	180	27	150	20
8/27/2013	6.64	7.57	21.4	22.7	350	127		4			20	7	210	31	180	24
9/24/2013		7.94	20.6	14.3	360	30.5		7	0.14	< 2.0	20	9	200	31	160	19
Count	27	29	29	29	29	16	11	12	5	5	18	12	12	14	15	14
Min	4.36	7.43	7.40	9.40	220	28.2	69	3	0.14	< 2.0	11	7	180	23	130	18
Max	13.0	8.09	24.4	603	600	980.	130	10	0.24	< 4.0	45	20	340	55	310	42
Median	8.27	7.70	18.3	24.2	370	118	104	6	0.18	< 2.0	19	13	226	31	160	23
Mean	8.65	7.77	17.2	53.3	390	176	100	6	0.18	0.7	21	13	242	34	191	25

C 8: Willow Creek at Road 61 (520GEL001) continued…

	Nutrients		Metals									
	Nitrate as N	Nitrite as N	Dissolved Aluminum	Dissolved Arsenic	Dissolved Iron	Dissolved Manganese	Total Aluminum	Total Antimony	Total Arsenic	Total Barium	Total Beryllium	Total Cadmium
Date	mg/L		µg/L									
4/17/2012	0.16	< 0.15					870		< 10.			
5/9/2012												
5/22/2012	0.18	< 0.15					440		< 10.			
6/5/2012												
6/28/2012	0.13						550		2.9			
7/10/2012												
7/24/2012							250		< 10.			
8/15/2012												
8/28/2012	0.16						570		< 10.			
9/11/2012												
9/25/2012	0.11		< 50.		32.2	120	810	< 5	3.4	130	< 1	< 1
10/9/2012												
10/25/2012	0.27											
11/13/2012												
11/29/2012	0.35											
12/11/2012												
12/26/2012	0.95											
1/8/2013												
1/29/2013	0.24		7.4		56.0	< 1.0	1200	< 0.5		130	< 0.5	< 0.3
2/12/2013												
2/28/2013	0.14											
3/12/2013												
3/27/2013	0.37		< 5.0		< 10.0	160	510	< 0.5		180	< 0.5	< 0.3
4/24/2013	< 0.22			2.3					3.0			
5/20/2013	0.24			2.8					3.0			
6/18/2013	< 0.22		< 5.0	2.5	37.0	1.1	1300	< 0.5	3.5	110	< 0.5	< 0.3
7/24/2013	< 0.22			2.4					2.9			
8/27/2013	< 0.22			2.0					3.2			
9/24/2013	< 0.22		< 5.0	3.2	61.0	1.1	420	< 0.5	3.1	120	< 0.5	< 0.3
Count	17	2	5	6	5	5	10	5	12	5	5	5
Min	0.11	< 0.15	< 5.0	2.0	< 10.0	< 1.0	250	< 0.5	2.9	110	< 0.5	< 0.3
Max	0.95	< 0.15	< 50.	3.2	61.0	160	1300	< 5	< 10.	180	< 1	< 1
Median	< 0.22	< 0.15	5.0	2.5	37.0	1.1	560	< 0.5	3.3	130	< 0.5	< 0.3
Mean	0.21	< 0.15	4.7	2.5	37.7	57	690	0.4	2.9	130	0.2	0.1

C 8: Willow Creek at Road 61 (520GEL001) continued…

	Metals												
	Total Chromium	Total Copper	Total Iron	Total Lead	Total Manganese	Total Mercury	Total Molybdenum	Total Nickel	Total Selenium	Total Silver	Total Thallium	Total Vanadium	Total Zinc
Date	µg/L												
4/17/2012			1300		230								
5/9/2012													
5/22/2012			140		100								
6/5/2012													
6/28/2012			1100		140								
7/10/2012													
7/24/2012			550		120								
8/15/2012													
8/28/2012			1100		110								
9/11/2012													
9/25/2012	< 5.0	< 5.0	1300	< 1	240	< 0.2	< 5.0	6.0	< 20.	< 5	< 1.0	< 10	< 5.0
10/9/2012													
10/25/2012													
11/13/2012													
11/29/2012													
12/11/2012													
12/26/2012													
1/8/2013													
1/29/2013	3.9	4.1	2200	0.6	140	< 0.2		7.5	< 1.0	< 1	< 1.0		< 5.0
2/12/2013													
2/28/2013													
3/12/2013													
3/27/2013	1.9	2.2	750	0.3	240	< 0.2		4.1	< 1.0	< 1	< 1.0		< 5.0
4/24/2013													
5/20/2013													
6/18/2013	4.1	4.7	2000	0.6	150	< 0.2		7.8	< 1.0	< 1	< 1.0		5.6
7/24/2013													
8/27/2013													
9/24/2013	1.5	2.2	700	0.3	93	< 0.2		3.4	< 1.0	< 0.3	< 1.0		< 5.0
Count	5	5	10	5	10	5	1	5	5	5	5	1	5
Min	1.5	2.2	550	0.3	93	< 0.2	< 5.0	3.4	< 1.0	< 0.3	< 1.0	< 10	< 5.0
Max	< 5.0	< 5.0	2200	< 1	240	< 0.2	< 5.0	7.8	< 20.	< 5	< 1.0	< 10	5.6
Median	3.9	4.1	1100	0.6	140	< 0.2	< 5.0	6.0	< 1.0	< 1	< 1.0	< 10	< 5.0
Mean	2.5	2.9	1200	0.4	160	< 0.2	< 5.0	5.8	1.2	0.4	< 1.0	< 10	2.1

C 8: Willow Creek at Road 61 (520GEL001) continued…

	Organics																													
	1,1,1,2-Tetrachloroethane		1,1,1-Trichloroethane (TCA)		1,1,2,2-Tetrachloroethane		1,1,2-Trichloroethane		1,1-Dichloroethane		1,1-Dichloroethene		1,1-Dichloropropene		1,2,3-Trichlorobenzene		1,2,3-Trichloropropane (123TCP)		1,2,4-Trichlorobenzene		1,2,4-Trimethylbenzene		1,2-Dibromo-3-chloropropane (DBCP)		1,2-Dibromoethane (EDB)		1,2-Dichlorobenzene		1,2-Dichloroethane (1,2-DCA)	
Date	µg/L																													
4/17/2012	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
5/9/2012																														
5/22/2012	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
6/5/2012																														
6/28/2012	<	0.5	<	0.5					<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	10	<	5	<	0.5	<	2
7/10/2012																														
7/24/2012																														
8/15/2012	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
8/28/2012																														
9/11/2012																														
9/25/2012																														
10/9/2012																														
10/25/2012																														
11/13/2012																														
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3/27/2013																														
4/24/2013																														
5/20/2013																														
6/18/2013																														
7/24/2013																														
8/27/2013																														
9/24/2013																														
Count		4		4		3		3		4		4		4		4		4		4		4		4		4		4		4
Min	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
Max	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	10	<	5	<	0.5	<	2
Median	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
Mean	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5					<	0.5		

C 8: Willow Creek at Road 61 (520GEL001) continued…

	Organics														
Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Isopropyltoluene	Acetone	Acrolein	Acrylonitrile	Benzene
	µg/L														
4/17/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5			< 0.5
5/9/2012															
5/22/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5			< 0.5
6/5/2012															
6/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5					< 0.5			< 10	< 5	< 0.5
7/10/2012															
7/24/2012															
8/15/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5			< 0.5
8/28/2012															
9/11/2012															
9/25/2012															
10/9/2012															
10/25/2012															
11/13/2012															
11/29/2012															
12/11/2012															
12/26/2012															
1/8/2013															
1/29/2013															
2/12/2013															
2/28/2013															
3/12/2013															
3/27/2013															
4/24/2013															
5/20/2013															
6/18/2013															
7/24/2013															
8/27/2013															
9/24/2013															
Count	4	4	4	4	4	3	3	3	3	4	3	3	1	1	4
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 10	< 5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 10	< 5	< 0.5
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 10	< 5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 10	< 5	< 0.5

C 8: Willow Creek at Road 61 (520GEL001) continued…

	Organics															
Date	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane
	µg/L															
4/17/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
5/9/2012																
5/22/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
6/5/2012																
6/28/2012		< 0.5	< 0.5	< 0.5	< 2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5		
7/10/2012																
7/24/2012																
8/15/2012	< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5		< 0.5	< 0.5
8/28/2012			< 0.5	< 0.5						< 0.5				< 0.5		
9/11/2012																
9/25/2012																
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
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3/27/2013																
4/24/2013																
5/20/2013																
6/18/2013																
7/24/2013																
8/27/2013																
9/24/2013																
Count	3	4	4	4	4	4	4	4	4	4	3	4	4	4	3	3
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

C 8: Willow Creek at Road 61 (520GEL001) continued…

	Organics															
Date	Di-isopropyl ether	Ethanol	Ethyl tert-Butyl Ether	Ethylbenzene	Gasoline Range Hydrocarbons	Hexachlorobutadiene	Hexavalent Chromium	Iodomethane	Isopropylbenzene	m,p-Xylene	MBAs	Methylene chloride	Methyl-tert-Butyl Ether (MTBE)	Naphthalene	n-Butylbenzene	n-Propylbenzene
	µg/L															
4/17/2012	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5		< 0.5	< 0.5	< 1	< 0.1	< 5		< 0.5	< 0.5	< 0.5
5/9/2012																
5/22/2012	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5		< 0.5	< 0.5	< 1	< 0.1	< 5		< 0.5	< 0.5	< 0.5
6/5/2012																
6/28/2012				< 0.5		< 0.5			< 0.5	< 0.5	< 0.1	< 1	< 1	< 0.5	< 0.5	< 0.5
7/10/2012																
7/24/2012																
8/15/2012	< 0.5	< 20	< 0.5	< 0.5		< 0.5		< 0.5	< 0.5	< 1		< 5		< 0.5	< 0.5	< 0.5
8/28/2012											< 0.1					
9/11/2012																
9/25/2012							< 10									
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
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3/27/2013																
4/24/2013																
5/20/2013																
6/18/2013																
7/24/2013																
8/27/2013																
9/24/2013																
Count	3	3	3	4	2	4	1	3	4	4	4	4	1	4	4	4
Min	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 10	< 0.5	< 0.5	< 0.5	< 0.1	< 1	< 1	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 10	< 0.5	< 0.5	< 1	< 0.1	< 5	< 1	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 10	< 0.5	< 0.5	< 1	< 0.1	< 5	< 1	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 10	< 0.5	< 0.5		< 0.1		< 1	< 0.5	< 0.5	< 0.5

C 8: Willow Creek at Road 61 (520GEL001) continued…

	Organics																
Date	o-Xylene	Perchlorate	sec-Butylbenzene	Styrene	TBA	Tert-Amyl Methyl Ether	tert-Butylbenzene	Tetrachlorethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl chloride	Xylenes, total
	µg/L															
4/17/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
5/9/2012																
5/22/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
6/5/2012																
6/28/2012	< 0.5		< 10				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	
7/10/2012																
7/24/2012																
8/15/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
8/28/2012																
9/11/2012																
9/25/2012		< 4														
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013		< 4														
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013		< 2														
4/24/2013																
5/20/2013																
6/18/2013		< 2														
7/24/2013																
8/27/2013																
9/24/2013		< 2														
Count	4	5	4	3	3	3	4	4	4	4	4	4	3	3	4	3
Min	< 0.5	< 2	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Max	< 0.5	< 4	< 10	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Median	< 0.5	< 2	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Mean	< 0.5			< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1