

WATER COLUMN PROFILING FOR ESC CMP Vb													
03-11-2020													
Pos. No.	Easting	Northing	Tide	Depth	Temp.	Salinity	Turbidity(Ntu)	D.O.(%)	D.O.(mg/l)	pH	Time	Speed	Direction
Downstream	810463.0	822929.5	Mid Flood	9.0	24.96	31.86	3.4	88.1	6.08	8.02	12:12:48	0.32	326.8
				9.0	24.96	31.84	3.5	88.7	6.12	8.02	12:32:00	0.41	343.2
				9.0	24.95	31.75	4.2	89.6	6.19	8.02	12:48:14	0.69	103.0
				9.0	24.95	31.78	6.0	89.6	6.19	8.01	13:01:59	0.62	282.0
				8.0	24.95	31.74	3.0	89.2	6.16	8.02	12:14:50	0.34	319.1
				8.0	24.95	31.67	2.9	90.1	6.23	8.02	12:35:25	0.18	196.2
				8.0	24.94	31.71	5.2	89.7	6.20	8.01	12:49:14	0.76	131.9
				8.0	24.95	31.74	5.2	89.4	6.17	8.01	13:02:57	0.90	300.7
				7.0	24.93	31.63	4.6	90.3	6.24	8.03	12:16:17	0.42	260.2
				7.0	24.94	31.65	2.9	90.5	6.26	8.02	12:37:25	0.47	127.1
				7.0	24.94	31.69	4.7	89.8	6.20	8.01	12:52:14	0.67	289.1
				7.0	24.94	31.72	4.2	89.7	6.20	8.01	13:03:57	0.72	43.6
				6.0	24.94	31.61	2.6	91.3	6.31	8.03	12:23:34	0.82	1.8
				6.0	24.94	31.62	3.7	90.6	6.26	8.03	12:38:29	0.65	253.5
				6.0	24.94	31.63	3.4	90.6	6.26	8.02	12:53:20	0.13	75.3
				6.0	24.97	31.59	2.8	91.3	6.31	8.02	13:05:37	0.66	85.9
				5.0	24.96	31.60	2.4	91.5	6.32	8.03	12:25:42	0.69	305.6
				5.0	24.94	31.62	3.9	90.7	6.27	8.03	12:40:06	0.23	352.9
				5.0	24.97	31.54	2.8	91.8	6.34	8.02	12:54:27	0.41	75.2
				5.0	25.00	31.56	2.4	92.3	6.37	8.02	13:06:37	0.19	157.9
				4.0	24.98	31.57	3.4	92.6	6.40	8.03	12:26:44	0.46	322.5
				4.0	24.96	31.55	3.3	91.4	6.32	8.03	12:41:12	0.61	209.8
				4.0	24.99	31.53	2.3	93.3	6.45	8.03	12:55:52	1.15	205.8
				4.0	25.01	31.56	1.9	93.0	6.42	8.03	13:07:35	0.42	34.9
				3.0	25.00	31.56	4.6	92.9	6.42	8.03	12:27:55	0.15	133.1
				3.0	25.10	31.52	1.7	94.7	6.53	8.04	12:43:02	0.45	280.0
				3.0	25.09	31.51	2.7	95.1	6.56	8.03	12:56:48	0.64	15.5
				3.0	25.03	31.55	2.0	93.3	6.44	8.03	13:08:32	0.39	254.9
				2.0	25.00	31.54	3.3	93.5	6.46	8.03	12:28:56	0.26	178.5
				2.0	25.00	31.52	2.2	93.4	6.45	8.04	12:44:31	0.37	108.3
				2.0	25.08	31.52	1.8	95.0	6.55	8.03	12:58:29	0.67	97.3
				2.0	25.08	31.55	1.9	94.8	6.54	8.03	13:09:29	0.45	153.4
				1.0	25.06	31.52	2.3	94.0	6.49	8.04	12:30:09	0.12	3.8
				1.0	25.07	31.51	2.0	95.1	6.56	8.04	12:46:50	0.27	110.0
				1.0	25.11	31.52	2.3	95.4	6.58	8.04	13:00:15	0.37	204.6
				1.0	25.20	31.53	2.1	95.5	6.57	8.04	13:10:36	0.67	104.6

Pos. No.	Easting	Northing	Tide	Depth	Temp.	Salinity	Turbidity(Ntu)	D.O.(%)	D.O.(mg/l)	pH	Time
MW1	823606.0	823635.2	Mid Flood	10.5	24.78	32.47	3.10	88.97	6.14	7.95	9:14:02
MW1	823603.7	823637.9	Mid Flood	10.50	24.77	32.51	2.0	88.5	6.10	7.96	9:14:24
MW1	823602.0	823641.1	Mid Flood	10.50	24.77	32.50	1.8	88.2	6.08	7.96	9:14:47
MW1	823600.6	823644.2	Mid Flood	10.50	24.78	32.48	1.4	88.4	6.09	7.96	9:15:08
MW1	823599.5	823648.0	Mid Flood	10.50	24.76	32.53	2.0	88.2	6.08	7.97	9:15:34
MW1	823598.7	823653.5	Mid Flood	10.50	24.76	32.53	1.8	87.9	6.06	7.97	9:16:12
MW1	823598.7	823658.3	Mid Flood	10.60	24.76	32.54	2.8	87.8	6.05	7.97	9:16:44
MW1	823599.7	823656.8	Mid Flood	10.50	24.76	32.53	2.6	87.8	6.05	7.97	9:17:08
ESC-RFF1	815057.2	822377.1	Mid Flood	5.50	24.65	32.01	3.9	97.4	6.75	8.04	9:54:47
ESC-RFF1	815056.4	822374.3	Mid Flood	5.50	24.67	32.00	3.9	96.1	6.66	8.03	9:55:12
ESC-RFF1	815055.7	822371.3	Mid Flood	5.50	24.67	32.00	4.2	95.5	6.61	8.03	9:55:34
ESC-RFF1	815055.6	822370.1	Mid Flood	5.40	24.67	32.00	3.6	95.2	6.59	8.03	9:55:59
ESC-RFF1	815056.8	822372.1	Mid Flood	5.50	24.67	31.99	3.4	95.1	6.59	8.03	9:56:21
ESC-RFF1	815056.8	822373.9	Mid Flood	5.50	24.67	31.99	3.2	94.8	6.57	8.03	9:56:44
ESC-RFF1	815056.4	822372.0	Mid Flood	5.50	24.67	31.99	3.0	94.8	6.57	8.03	9:57:04
ESC-RFF1	815054.9	822368.2	Mid Flood	5.50	24.67	31.99	3.2	95.0	6.58	8.03	9:57:29
ESC-RFF2	814211.9	821747.0	Mid Flood	3.60	24.59	31.95	6.7	98.6	6.84	8.02	10:06:09
ESC-RFF2	814209.4	821745.5	Mid Flood	3.50	24.59	31.95	8.3	97.0	6.73	8.02	10:06:33
ESC-RFF2	814211.4	821743.8	Mid Flood	3.40	24.59	31.95	8.0	96.9	6.72	8.02	10:07:02
ESC-RFF2	814213.7	821742.5	Mid Flood	3.60	24.59	31.95	9.4	96.3	6.68	8.02	10:07:24
ESC-RFF2	814212.3	821740.1	Mid Flood	3.50	24.58	31.95	8.7	96.1	6.67	8.02	10:07:46
ESC-RFF2	814210.4	821739.6	Mid Flood	3.30	24.59	31.95	9.8	96.6	6.70	8.02	10:08:07
ESC-RFF2	814212.9	821737.6	Mid Flood	3.30	24.59	31.95	9.0	96.6	6.70	8.02	10:08:33
ESC-RFF2	814218.2	821738.3	Mid Flood	3.70	24.59	31.96	9.8	96.7	6.71	8.02	10:08:54
ESC-RFF3	813230.1	821128.7	Mid Flood	6.20	24.52	31.99	3.2	98.2	6.82	8.03	10:17:46
ESC-RFF3	813228.7	821130.3	Mid Flood	6.20	24.52	31.98	2.5	98.3	6.83	8.03	10:18:11
ESC-RFF3	813228.2	821131.0	Mid Flood	5.70	24.53	31.98	2.4	98.3	6.83	8.03	10:18:39
ESC-RFF3	813228.5	821130.5	Mid Flood	6.10	24.52	31.99	2.8	98.0	6.81	8.02	10:19:03
ESC-RFF3	813227.9	821129.2	Mid Flood	6.20	24.54	31.98	2.4	98.2	6.82	8.03	10:19:30
ESC-RFF3	813227.6	821127.8	Mid Flood	6.00	24.53	31.98	2.6	97.8	6.79	8.02	10:19:57
ESC-RFF3	813227.2	821127.7	Mid Flood	6.00	24.53	31.98	2.7	98.0	6.81	8.02	10:20:21
ESC-RFF3	813226.9	821128.6	Mid Flood	6.30	24.53	31.98	4.1	97.5	6.77	8.02	10:20:44
ESC-IPF1	809866.3	823366.0	Mid Flood	6.00	24.59	31.91	2.8	98.9	6.86	8.03	10:42:06
ESC-IPF1	809865.2	823373.4	Mid Flood	6.0	24.58	31.91	3.2	98.1	6.81	8.03	10:42:31
ESC-IPF1	809866.0	823374.6	Mid Flood	6.0	24.58	31.91	2.7	98.8	6.86	8.03	10:42:55

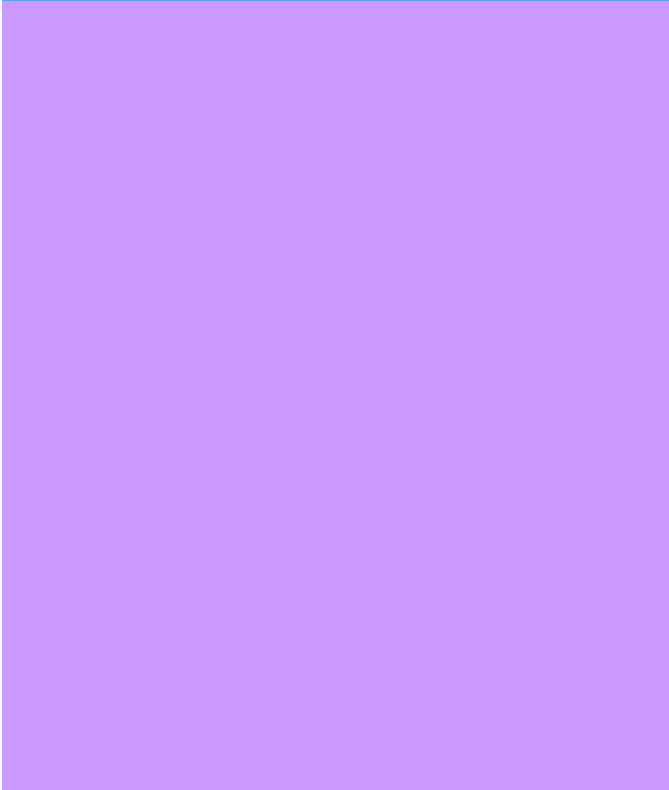
MW1	823606.0	823635.2	Mid Flood	10.5	24.78	32.47	3.10	88.97	6.14	7.95	9:14:02
ESC-IPF1	809865.6	823375.7	Mid Flood	6.1	24.58	31.91	3.3	98.4	6.83	8.03	10:43:17
ESC-IPF1	809868.5	823374.7	Mid Flood	5.6	24.58	31.91	3.7	98.7	6.85	8.03	10:43:39
ESC-IPF1	809871.6	823372.2	Mid Flood	6.2	24.58	31.91	2.8	98.7	6.85	8.03	10:44:09
ESC-IPF1	809869.4	823372.3	Mid Flood	6.1	24.58	31.91	2.6	98.2	6.81	8.02	10:44:32
ESC-IPF1	809865.7	823372.6	Mid Flood	5.9	24.58	31.91	2.4	98.5	6.84	8.03	10:44:55
ESC-IPF2	809295.3	822802.2	Mid Flood	4.5	24.52	31.98	2.9	100.2	6.96	8.02	10:51:31
ESC-IPF2	809293.6	822802.2	Mid Flood	4.5	24.52	31.98	2.9	99.3	6.89	8.01	10:51:53
ESC-IPF2	809294.7	822801.8	Mid Flood	4.5	24.52	31.98	3.9	99.1	6.88	8.01	10:52:15
ESC-IPF2	809298.0	822801.1	Mid Flood	4.6	24.52	31.98	3.5	99.1	6.89	8.02	10:52:37
ESC-IPF2	809298.3	822800.7	Mid Flood	4.5	24.52	31.98	4.7	98.7	6.86	8.02	10:53:00
ESC-IPF2	809295.3	822801.9	Mid Flood	4.5	24.52	31.98	3.0	97.9	6.80	8.02	10:53:27
ESC-IPF2	809295.1	822802.4	Mid Flood	4.4	24.52	31.98	3.0	97.9	6.80	8.02	10:53:50
ESC-IPF2	809294.1	822804.3	Mid Flood	4.4	24.52	31.98	2.5	97.7	6.79	8.01	10:54:15
ESC-INF1	808339.4	823239.2	Mid Flood	4.4	24.59	31.82	2.5	100.6	6.99	8.02	11:01:25
ESC-INF1	808341.1	823247.4	Mid Flood	4.6	24.58	31.82	2.7	100.3	6.97	8.01	11:01:47
ESC-INF1	808341.1	823253.5	Mid Flood	4.4	24.58	31.82	2.7	99.5	6.91	8.01	11:02:10
ESC-INF1	808344.9	823251.8	Mid Flood	4.6	24.59	31.83	2.7	99.9	6.94	8.01	11:02:34
ESC-INF1	808346.7	823248.8	Mid Flood	4.5	24.60	31.83	2.4	99.9	6.94	8.01	11:02:57
ESC-INF1	808347.1	823247.2	Mid Flood	4.5	24.62	31.83	2.1	99.5	6.91	8.01	11:03:20
ESC-INF1	808348.1	823246.1	Mid Flood	4.4	24.63	31.84	1.6	100.0	6.94	8.01	11:03:43
ESC-INF1	808349.7	823245.2	Mid Flood	4.5	24.61	31.84	1.9	99.9	6.94	8.01	11:04:07
ESC-INF2	809021.1	823851.8	Mid Flood	6.0	24.66	31.86	3.1	100.2	6.95	8.01	11:10:31
ESC-INF2	809019.5	823855.5	Mid Flood	5.9	24.67	31.86	3.1	100.1	6.94	8.00	11:11:01
ESC-INF2	809020.3	823853.6	Mid Flood	5.8	24.66	31.85	3.0	100.1	6.94	8.00	11:11:25
ESC-INF2	809022.0	823851.4	Mid Flood	6.1	24.66	31.86	2.9	99.6	6.91	8.00	11:11:47
ESC-INF2	809021.2	823852.7	Mid Flood	6.1	24.66	31.86	2.4	99.3	6.89	8.00	11:12:09
ESC-INF2	809018.3	823856.2	Mid Flood	6.1	24.66	31.86	2.3	98.8	6.85	8.00	11:12:32
ESC-INF2	809017.1	823859.2	Mid Flood	5.9	24.66	31.86	2.2	99.6	6.91	8.00	11:12:54
ESC-INF2	809018.2	823859.3	Mid Flood	6.1	24.65	31.85	2.7	99.2	6.88	8.00	11:13:17
ESC-INF3	809676.4	824479.6	Mid Flood	10.9	24.71	31.93	1.8	98.1	6.79	7.99	11:22:22
ESC-INF3	809676.8	824476.8	Mid Flood	11.3	24.71	31.92	1.9	96.9	6.71	7.98	11:23:05
ESC-INF3	809677.3	824476.3	Mid Flood	11.3	24.72	31.91	1.7	97.0	6.72	7.98	11:23:35
ESC-INF3	809676.0	824476.3	Mid Flood	11.1	24.73	31.91	1.7	97.0	6.72	7.98	11:23:57

MW1	823606.0	823635.2	Mid Flood	10.5	24.78	32.47	3.10	88.97	6.14	7.95	9:14:02
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MW1	823606.0	823635.2	Mid Flood	10.5	24.78	32.47	3.10	88.97	6.14	7.95	9:14:02
Downstream WCP1	812121.6	822375.0	Mid Flood	9.0	24.96	31.86	3.4	88.1	6.08	8.02	12:12:48
				8.1	24.95	31.74	3.0	89.2	6.16	8.02	12:14:50
				7.0	24.93	31.63	4.6	90.3	6.24	8.03	12:16:17
				6.2	24.94	31.61	2.6	91.3	6.31	8.03	12:23:34
				4.9	24.96	31.60	2.4	91.5	6.32	8.03	12:25:42
				4.1	24.98	31.57	3.4	92.6	6.40	8.03	12:26:44
				3.1	25.00	31.56	4.6	92.9	6.42	8.03	12:27:55
				2.2	25.00	31.54	3.3	93.5	6.46	8.03	12:28:56
				1.0	25.06	31.52	2.3	94.0	6.49	8.04	12:30:09
				9.3	24.96	31.84	3.5	88.7	6.12	8.02	12:32:00
				7.8	24.95	31.67	2.9	90.1	6.23	8.02	12:35:25
				6.9	24.94	31.65	2.9	90.5	6.26	8.02	12:37:25
				5.9	24.94	31.62	3.7	90.6	6.26	8.03	12:38:29
				5.3	24.94	31.62	3.9	90.7	6.27	8.03	12:40:06
				3.8	24.96	31.55	3.3	91.4	6.32	8.03	12:41:12
				3.1	25.10	31.52	1.7	94.7	6.53	8.04	12:43:02
				2.1	25.00	31.52	2.2	93.4	6.45	8.04	12:44:31
				1.2	25.07	31.51	2.0	95.1	6.56	8.04	12:46:50
				9.1	24.95	31.75	4.2	89.6	6.19	8.02	12:48:14
				8.1	24.94	31.71	5.2	89.7	6.20	8.01	12:49:14
				7.2	24.94	31.69	4.7	89.8	6.20	8.01	12:52:14
				6.1	24.94	31.63	3.4	90.6	6.26	8.02	12:53:20
				4.9	24.97	31.54	2.8	91.8	6.34	8.02	12:54:27
				4.1	24.99	31.53	2.3	93.3	6.45	8.03	12:55:52
				3.1	25.09	31.51	2.7	95.1	6.56	8.03	12:56:48
				2.1	25.08	31.52	1.8	95.0	6.55	8.03	12:58:29
				1.1	25.11	31.52	2.3	95.4	6.58	8.04	13:00:15
				9.1	24.95	31.78	6.0	89.6	6.19	8.01	13:01:59
				8.1	24.95	31.74	5.2	89.4	6.17	8.01	13:02:57
				7.0	24.94	31.72	4.2	89.7	6.20	8.01	13:03:57
			6.0	24.97	31.59	2.8	91.3	6.31	8.02	13:05:37	
			5.0	25.00	31.56	2.4	92.3	6.37	8.02	13:06:37	
			4.1	25.01	31.56	1.9	93.0	6.42	8.03	13:07:35	
			3.1	25.03	31.55	2.0	93.3	6.44	8.03	13:08:32	
			2.2	25.08	31.55	1.9	94.8	6.54	8.03	13:09:29	
			1.1	25.20	31.53	2.1	95.5	6.57	8.04	13:10:36	

MW1	823606.0	823635.2	Mid Flood	10.5	24.78	32.47	3.10	88.97	6.14	7.95	9:14:02
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Dry Season (November to March)
 Wet Season (April to October)

WATER COLUMN PROFILING - Jun 2020 SAMPLING

Speed	Direction	Run
0.37	80.40	Run
0.43	76.2	
0.54	70.9	
0.36	64.5	
0.37	31.7	
0.13	15.0	
0.78	0.8	
0.12	207.8	
1.05	316.8	
0.50	326.1	
0.50	326.1	
0.45	285.4	
0.45	285.4	
0.38	171.9	
0.58	68.5	
0.58	68.5	
0.38	180.6	
0.56	237.8	
0.41	218.9	
0.48	232.4	
1.09	212.3	
0.66	163.5	
0.32	208.5	
0.76	188.1	
1.02	293.4	
0.92	290.0	
0.53	286.1	
0.70	306.3	
0.82	269.9	
0.98	303.5	
0.38	146.7	
1.02	258.9	
0.47	245.5	
0.73	306.2	
0.25	236.8	

Depth Averaged (Downstream):

WCP1	Temp	Salinty	Turbidity	DO (%)	DO (mg/l)
	24.99	31.61	3.15	91.89	6.35

Depth Averaged (Upstream):

WCP2	Temp	Salinty	Turbidity	DO (%)	DO (mg/l)
	24.62	31.99		3.47	97.06
		31.80			6.73

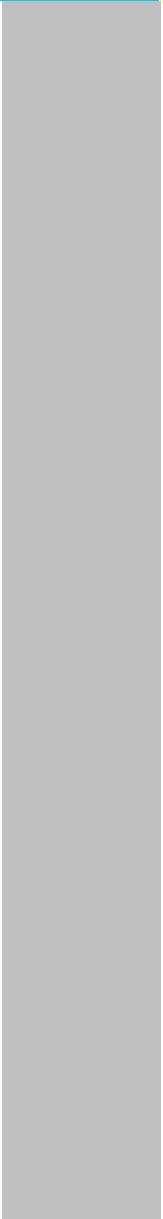
WQO (with upstream data)	max	35.1891642
(not exceed 10% of natural ambient)	min	28.7911343

Water Column Profiling			
TSS	mg/L	Standard Dev.	Averaged
R1 (WCP 1 Downstream)	6.6	0.2	6.375
R2 (WCP 1 Downstream)	6.1		
	6.5		
	6.3		
R1 (WCP 2 Upstream)	5.7	0.8	4.6
R2 (WCP 2 Upstream)	4.4		

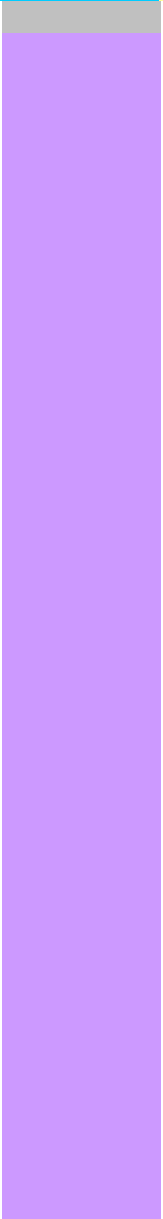
SS

0.37	80.40	Run					
0.25	236.8		4.0				
0.75	279.6		4.1				
0.31	276.3						
0.31	276.3						
0.73	20.0	WQO (Northwestern WCZ)					
1.18	304.7	DO (mg/L)	4.0	4.0	4.0	4.0	4.0
1.18	304.7	pH	6.5	6.5	6.5	6.5	6.5
1.18	304.7		8.5	8.5	8.5	8.5	8.5
0.43	220.4	Salinity	31.8	31.8	31.8	31.8	31.8
0.12	228.5	(not exceed 10% of natural ambient level)					
0.92	244.5		28.62	28.6	28.6	28.6	28.6
1.06	233.5		34.98	35.0	35.0	35.0	35.0
0.59	306.5	(obtained from averaged upstream station)					
0.34	49.1						
0.41	342.1						
0.10	253.8	SS	15.6	15.6	15.6	15.6	15.6
0.87	314.4	(not exceed 30% of natural ambient level)					
0.27	319.7						
0.49	259.6	(obtained from EPD's data of 1998-2005 dry season averaged)					
0.52	214.8						
0.77	269.8						
0.38	302.5	Temperature					
0.70	290.3	(change not more than 2C)					
0.54	295.4						
0.56	271.1						
0.38	302.5						
0.56	271.1						
0.83	335.3						
0.38	190.2						
0.52	305.9						
0.31	328.9						
0.84	17.7						
0.49	279.0						

0.37	80.40	Run	
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0.37	80.40	Run	
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	Standard Deviation						
<i>pH</i>	<i>Temp</i>	<i>Salinity</i>	<i>Turbidity</i>	<i>DO (%)</i>	<i>DO (mg/l)</i>	<i>pH</i>	
8.03	0.06	0.10	1.10	2.17	0.15	0.01	

	Standard Deviation						
<i>pH</i>	<i>Temp</i>	<i>Salinity</i>	<i>Turbidity</i>	<i>DO (%)</i>	<i>DO (mg/l)</i>	<i>pH</i>	
8.01	0.1	0.2	2.1	3.4	0.2	0.0	

Upstream	4.6
Downstream	6.375

WQO (with upstream data) 5.92 14.43 14.43
 (not exceed 30% of natural ambient)

4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8 averaged
28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6 min
35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0 max

averaged





