TABLES

1-1 AES HBGS Microbial Indicator Exceedances Between May 30, 2001 and September 28, 2001

4-1 Microbiological and Field Parameters (Daily Sampling)

4-2 Microbiological and Field Parameters (Intensive Sampling)

4-3 Discharge Vault Salinity Profile

4-4 Intake and Discharge Vault Ammonia and Salinity Data

4-5 Blackford's Ditch Investigation

4-6 Corrosion Inhibitor: Tidal Sample Locations

4-7 Storm Water Sampling

4-8 Rhodamine Concentrations at Shoreline Monitoring Stations

4-9 Offshore Dye Study Near Shore Bacterial Samples

4-10 Bacterial Source tracking

4-11 QA/QC: Equipment Blank

4-12 QA/QC: Field Blank

4-13 QA/QC: Relative Percentage Difference

5-1 Exceedance of AB 411 Recreational Water Standards

5-2 Assessment of Bivalve Ammonium Excretion

5-3 Range of Ammonia Concentrations in IV and DV Samples

5-4 Summary of Intake Mooring and Cool Water Events

5-5 Original and Adjusted CTD Temperatures

5-6 Comparison of Salinity Values for IV and DV

5-7 Comparison Of Model Input Data

5-8 Concentration of Indicator Bacteria Required in DV to Cause an AB 411 Exceedance at 9N

A-1 Physical Oceanographic Vertical Profile Locations

TABLES

TABLE 1-1
AES HBGS TOTAL MICROBIAL INDICATOR EXCEEDANCES BETWEEN MAY 30, 2001 AND SEPTEMBER 28, 2001
CALIFORNIA ENERGY COMMISSION

Location: General

Sample Location	Sample Date	Total Coliform (MPN/100 ml)	Escherichia Coli (MPN/100 ml)	Enterococcus (MPN/100 ml)	Intake Temperature (°F)	Discharge Temperature (°F)	Heat Treatment	Flow Direction	Tidal Direction	Tide Height (ft above MLLW)
Discharge Vault	6/7/2001	>24,192	NE	NE	63.5	64.5	No	Normal	High	3.4
West Retention Basin outflow	6/7/2001	>24,192	NE	NE	63.5	64.5	No	Normal	High	3.4
PCH / Newland Storm Drain	6/11/2001	>24,192	NE	NE	60.8	61.7	No	Normal	Flood	1.4
PCH/Newland Storm Drain	6/11/2001	NE	NE	663	60.8	61.7	No	Normal	Flood	1.4
West Retention Basin	6/11/2001	19,863	NE	NE	60.8	61.7	No	Normal	Flood	1.1
Discharge Vault - Surface	6/13/2001	19,863	NE	NE	63.0	64.0	No	Normal	Flood	1.0
PCH / Newland Storm Drain	6/13/2001	>24,192	NE	NE	63.0	64.0	No	Normal	Flood	1.1
PCH/Newland Storm Drain	6/13/2001	NE	NE	134	63.0	64.0	No	Normal	Flood	1.1
West Retention Basin	6/13/2001	>24,192	NE	NE	63.0	64.0	No	Normal	Flood	1.0
Discharge Vault - Surface	6/15/2001	19,863	NE	NE	64.4	65.5	No	Normal	Low	1.1
PCH / Newland Storm Drain	6/15/2001	17,329	NE	NE	64.4	65.5	No	Normal	Flood	1.9
Units 3 + 4 Sump	6/15/2001	NE	NE	109	63.0	64.0	No	Normal	Flood	1.8
West Retention Basin	6/15/2001	>24,192	NE	NE	64.4	65.5	No	Normal	Low	1.3
Discharge Vault - Surface	6/18/2001	>24,192	NE	NE	64.8	65.4	No	Normal	Ebb	2.4
Discharge Vault - Surface	6/25/2001	>24,192	NE	NE	64.7	64.8	No	Normal	Flood	1.2
Discharge Vault - Surface	6/29/2001	>24,192	NE	NE	57.3	57.1	No	Normal	Low	1.1
Discharge Vault -Surface	6/29/2001	NE	NE	1,694	57.3	57.1	No	Normal	Low	1.1
Discharge Vault-Mid Level	6/29/2001	14,136	NE	NE	57.3	57.1	No	Normal	Low	1.1
East Retention Basin	6/29/2001	>24,192	NE	NE	57.3	57.1	No	Normal	Low	1.1
Discharge Vault - Surface	7/6/2001	>24,192	NE	NE	61.5	62.1	No	Normal	Flood	3.6
Discharge Vault -Surface	7/6/2001	NE	NE	216	61.5	62.1	No	Normal	Flood	3.6
East Retention Basin	7/9/2001	>24,192	NE	NE	54.9	67.1	No	Normal	Flood	2.8
Intake Forebay	7/9/2001	>24,192	NE	NE	54.9	67.1	No	Normal	Flood	2.7
East Retention Basin	7/11/2001	>24,192	NE	NE	56.1	66.4	No	Normal	Flood	2.0
East Retention Basin	7/13/2001	>24,192	NE	NE	58.5	73.4	No	Normal	Flood	1.8

TABLE 1-1
AES HBGS TOTAL MICROBIAL INDICATOR EXCEEDANCES BETWEEN MAY 30, 2001 AND SEPTEMBER 28, 2001
CALIFORNIA ENERGY COMMISSION

Location: General

Sample Location	Sample Date	Total Coliform (MPN/100 ml)	Escherichia Coli (MPN/100 ml)	Enterococcus (MPN/100 ml)	Intake Temperature (°F)	Discharge Temperature (°F)	Heat Treatment	Flow Direction	Tidal Direction	Tide Height (ft above MLLW)
East Retention Basin	7/16/2001	19,863	NE	NE	64.6	77.6	No	Normal	Ebb	2.2
East Retention Basin	7/18/2001	>24,192	NE	NE	63.0	90.0	No	Normal	Ebb	3.0
East Retention Basin	7/20/2001	>24,192	NE	NE	65.2	88.3	No	Normal	Ebb	4.0
East Retention Basin	7/25/2001	14,136	NE	NE	60.0	77.0	No	Normal	Flood	2.3
West Retention Basin	8/6/2001	>24,192	NE	NE	64.4	84.3	No	Normal	Flood	3.8
Units 1 + 2 Sump	8/8/2001	NE	NE	292	65.4	91.0	No	Normal	Flood	3.7
West Retention Basin Well	8/8/2001	>24,192	NE	605	65.4	91.0	No	Normal	Flood	3.7
West Retention Basin	8/10/2001	24,192	NE	NE	65.6	87.2	No	Normal	Flood	3.3
Discharge Vault-Mid Level	8/13/2001	>24,192	>24,192	132	66.4	87.4	No	Reverse	Flood	2.6
Intake Forebay	8/13/2001	>24,192	>24,192	NE	66.4	87.4	No	Reverse	Flood	2.6
West Retention Basin	8/13/2001	12,997	NE	NE	66.4	87.4	No	Reverse	Flood	2.6
Discharge Vault-Mid Level	8/15/2001	17,329	NE	NE	65.1	88.6	No	Normal	Ebb	2.7
Intake Forebay	8/15/2001	19,863	NE	NE	65.1	88.6	No	Normal	Ebb	2.7
West Retention Basin	8/15/2001	>24,192	NE	NE	65.1	88.6	No	Normal	Ebb	2.7
Discharge Vault-Mid Level	8/17/2001	NE	NE	204	64.0	85.1	No	Normal	Ebb	3.9
Intake Forebay	8/17/2001	NE	NE	109	64.0	85.1	No	Normal	Ebb	3.9
West Retention Basin	8/17/2001	>24,192	NE	NE	64.0	85.1	No	Normal	Ebb	3.8
Discharge Vault-Mid Level	8/22/2001	NE	NE	209	69.5	79.5	No	Normal	Flood	4.2
Intake Forebay	8/22/2001	NE	NE	108	69.5	79.5	No	Normal	Flood	4.2
West Retention Basin	8/24/2001	19,863	NE	NE	67.6	89.0	No	Normal	Flood	3.4
West Retention Basin	8/27/2001	>24,192	NE	NE	69.4	93.7	No	Normal	Ebb	2.8
Discharge Vault-Mid Level	8/31/2001	NE	NE	1,395	69.3	94.5	No	Normal	Ebb	3.5
Intake Forebay	8/31/2001	NE	NE	12,997	69.3	94.5	No	Normal	Ebb	3.5
West Retention Basin	8/31/2001	>24,192	NE	119	69.3	94.5	No	Normal	Ebb	3.4
West Retention Basin	9/5/2001	11,199	NE	209	66.9	83.5	No	Normal	Flood	4.6

TABLE 1-1
AES HBGS TOTAL MICROBIAL INDICATOR EXCEEDANCES BETWEEN MAY 30, 2001 AND SEPTEMBER 28, 2001
CALIFORNIA ENERGY COMMISSION

Location: General

Sample Location	Sample Date	Total Coliform (MPN/100 ml)	Escherichia Coli (MPN/100 ml)	Enterococcus (MPN/100 ml)	Intake Temperature (°F)	Discharge Temperature (°F)	Heat Treatment	Flow Direction	Tidal Direction	Tide Height (ft above MLLW)
West Retention Basin	9/7/2001	NE	NE	169	66.9	91.2	No	Normal	Flood	4.3
West Retention Basin	9/10/2001	17,329	NE	NE	62.4	84.7	No	Normal	Flood	3.4
West Retention Basin	9/17/2001	>24,192	NE	NE	64.0	88.6	No	Normal	Ebb	5.3
West Retention Basin	9/19/2001	>24,192	NE	NE	63.8	91.4	No	Normal	Flood	5.7
West Retention Basin	9/26/2001	24,192	NE	NE	60.0	72.3	No	Normal	Ebb	3.1

Notes:
NE = No Exceedance
MBC In Plant Study 2001
MPN = Most Probable Number

TABLE 4-1
MICROBIOLOGY AND FIELD PARAMETERS (DAILY SAMPLING)
CALIFORNIA ENERGY COMMISSION

Location: Blackford's Ditch (BD)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
7/16/2002	13:15	200	13	**140**	28.0	9.33	5.8	27	NA	2.9	3.75	Flood		67.0	84.6			
7/17/2002	12:40	500	11	**110**	26.2	9.45	6.1	3	10.95	3.2	2.75	Flood		67.4	86.1			
7/18/2002	13:30	**26000**	**500**	**370**	25.5	8.90	6.3	10	9.68	3.2	3.04	Flood	121	62.5	75.8	4	1	
7/19/2002	11:25	**150000**	70	**300**	23.3	9.12	5.9	7	9.78	3.1	2.04	Ebb	64	65.0	77.0	4	1	
7/20/2002	8:55	**12000**	80	**270**	22.1	8.89	6.6	4	2.99	3.5	3.40	Ebb	64	66.0	71.0	4	1	
7/21/2002	10:55	**31000**	**1200**	38	21.4	8.80	5.4	4	3.70	2.8	3.17	Ebb	63	66.0	72.0	4	1	
7/22/2002	9:30	**33000**	**430**	**420**	20.8	9.35	5.1	3	5.21	2.6	3.83	Flood	133	63.0	78.0	4	1	Chlorination
7/23/2002	10:50	**180000**	**540**	100	22.2	9.12	4.4	8	6.56	2.2	3.92	Ebb	205	54.4	65.3	4	1	Chlorination
7/24/2002	10:20	**56000**	190	**190**	22.2	9.34	3.8	15	4.78	1.9	3.90	Flood	51	58.9	64.6	4	1	Chlorination
7/25/2002	9:30	**10000**	170	**190**	22.7	8.81	4.3	28	2.90	2.1	3.05	Flood	52	59.4	70.2	5	2	Chlorination
7/26/2002	9:35	**17000**	210	**120**	22.9	9.05	4.0	24	3.30	2.0	2.67	Flood	198	63.0	85.0	6	3	Chlorination
7/27/2002	10:10	4000	70	90	22.6	9.02	3.6	7	3.28	1.8	2.82	Flood	61	65.0	92.0	6	3	
7/28/2002	10:20	**19000**	200	**160**	22.6	8.60	3.4	NA	3.77	1.7	2.62	Flood	49	67.0	80.0	6	3	
7/29/2002	10:10	**12000**	80	**150**	22.2	8.92	3.7	13	4.09	1.9	2.24	Flood	80	67.4	79.6	6	3	
7/30/2002	10:10	1500	30	**190**	21.6	9.05	3.2	21	2.49	1.6	2.13	Flood	77	71.0	72.9	6	3	Chlorination
7/31/2002	9:45	**15000**	**530**	**1300**	21.4	8.92	3.1	NA	3.23	1.5	1.99	Flood	141	63.0	75.5	6	2	
8/1/2002	9:45	4200	310	**110**	21.7	9.09	2.9	12	6.73	1.4	2.20	Flood	0	63.0	72.0	6	2	Chlorination
8/2/2002	10:30	2500	50	**160**	21.4	9.16	2.9	4	4.31	1.4	2.51	Flood	0	64.8	80.0	5	2	
8/3/2002	9:40	3300	20	**190**	20.9	8.63	2.2	6	3.04	1.3	2.79	Ebb	0	63.1	77.4	5	2	
8/4/2002	10:14	5100	230	**150**	21.3	8.80	2.7	23	3.29	1.3	2.99	Ebb	0	64.4	73.0	5	2	Reverse Flow
8/5/2002	9:53	800	10	21	20.5	8.83	2.7	13	2.27	1.3	3.40	Ebb	92	62.0	79.5	5	2	Reverse Flow
8/6/2002	10:12	1900	20	**120**	20.4	8.88	2.6	10	2.82	1.2	3.68	Ebb	57	63.9	75.8	6	2	Reverse Flow
8/7/2002	9:05	900	20	22	21.1	8.75	2.6	10	1.65	1.2	3.85	Flood	61	63.8	81.2	6	3	Reverse Flow
8/8/2002	9:40	1900	170	**190**	21.8	8.34	15.1	NA	1.65	8.7	4.07	Flood	62	63.1	85.9	7	3	Reverse Flow
8/9/2002	9:25	7000	20	52	20.5	8.66	4.4	NA	2.81	2.3	3.69	Flood	65	63.0	85.0	6	2	Reverse Flow
8/10/2002	10:00	**14000**	90	**11000**	21.4	8.24	9.5	NA	4.48	5.2	3.86	Flood	68	63.0	74.0	7	3	Reverse Flow
8/11/2002	9:15	5000	20	80	21.6	7.87	27.9	NA	1.38	17.0	2.45	Flood	70	55.0	65.0	6	2	
8/12/2002	9:15	1400	10	80	21.7	7.86	33.9	18	2.66	21.2	1.95	Flood	157	58.0	74.0	7	2	
8/13/2002	10:40	4000	30	30	NA	NA	NA	NA	NA		3.10	Flood	64	63.4	76.5	7	2	
8/14/2002	8:37	**350000**	**31000**	**30000**	21.5	7.78	34.2	NA	0.87	21.4	1.49	Flood	67	65.1	77.6	7	3	
8/15/2002	10:26	**7000**	**800**	**300**	22.3	7.98	33.1	10	4.61	19.9	2.38	Flood	69	60.2	87.9	7	3	
8/16/2002	10:00	4000	20	**720**	22.4	7.73	34.3	8	0.65	21.5	2.51	Ebb	130	61.7	84.7	5	2	
8/17/2002	11:50	3000	220	**180**	21.3	7.58	30.2	24	NA	18.3	2.71	Flood	117	62.3	83.0	5	2	
8/18/2002	12:00	6000	10	10	21.0	8.05	28.9	7	1.74	18.0	2.73	Ebb	116	63.0	72.0	5	2	
8/19/2002	10:10	**110000**	**2600**	**30000**	20.1	7.98	13.1	6	NA	7.3	3.79	Ebb	94	64.6	85.5	5	2	Chlorination
8/20/2002	9:40	**15000**	**2000**	**800**	21.1	8.15	15.2	28	NA	9.2	4.19	Ebb		65.0	85.0	5	2	
8/21/2002	11:50	**1200**	**500**	**120**	20.6	7.90	28.1	7	NA	17.2	3.60	Ebb	98	64.2	80.0	5	2	

Location: Blackford's Ditch (BD)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
8/22/2002	11:35	**21000**	**500**	**5200**	24.8	8.18	10.5	15	NA	5.9	4.06	Ebb		65.0	82.0	5	2	
8/23/2002	7:30	**18000**	220	**13000**	20.3	8.50	11.3	10	NA	6.4	1.97	Flood	90	61.5	83.7	5	2	Chlorination
8/24/2002	11:05	**25000**	300	**1500**	23.1	8.15	12.6	NA	NA	7.2	4.52	Flood		64.1	81.1	5	2	
8/25/2002	10:55	5000	20	70	22.5	8.33	11.2	58	NA	6.3	4.44	Flood	32	64.7	86.1	5	2	
8/26/2002	10:50	5000	200	**800**	22.2	8.24	11.3	NA	NA	6.4	4.25	Flood	66	63.4	81.7	6	2	
8/27/2002	10:15	**27000**	200	**14000**	22.1	8.40	10.2	12	9.07	5.0	3.66	Flood	57	64.0	86.6	5	2	Chlorination
8/28/2002	10:15	**11000**	120	**3300**	21.0	8.00	12.0	NA	2.70	7.0	3.46	Flood	73	65.2	87.2	5	2	
8/29/2002	10:15	7000	31	**13000**	21.9	8.21	10.0	NA	0.54	5.6	3.31	Flood	86	65.2	87.9	5	2	
8/30/2002	10:15	8000	10	**300**	21.6	8.26	9.1	NA	2.45	5.1	3.21	Flood		66.2	87.5	5	2	
8/31/2002	8:20	**28000**	**580**	**400**	20.9	8.31	9.9	NA	0.60	5.2	2.96	Flood	32	60.4	73.1	5	2	
9/1/2002	9:15	**13000**	**500**	100	21.2	8.21	11.9	NA	1.46	6.6	3.20	Ebb		57.0	67.1	5	2	
9/2/2002	10:15	7000	**600**	**500**	21.5	8.27	9.9	NA	0.22	5.5	3.22	Ebb	57	55.5	71.1	5	2	Chlorination
9/3/2002	10:10	8000	210	**330**	22.1	8.37	7.8	42	7.67	4.2	3.47	Ebb	25	60.0	70.0	5	2	
9/4/2002	9:55	7000	60	**300**	22.4	7.61	26.0	10	6.44	15.9	3.96	Ebb	21	62.4	78.6	5	2	Chlorination
9/5/2002	10:05	**11000**	**600**	**280**	22.0	8.37	12.2	56	3.52	6.9	4.37	Ebb	15	64.6	74.4	5	2	
9/6/2002	10:30	4000	50	**110**	22.2	8.26	11.6	31	3.27	6.6	4.72	Ebb	0	62.0	81.0	5	2	
9/7/2002	9:35	**12000**	**600**	**500**	20.4	8.28	11.7	10	2.42	6.6	5.00	Flood	0	58.0	64.0	5	2	
9/8/2002	9:20	4000	300	**300**	19.2	8.33	10.7	11	2.92	6.0	4.62	Flood	0	55.0	60.0	5	2	
9/9/2002	9:15	4000	200	**300**	19.2	8.23	11.1	10	0.97	6.2	4.06	Flood	0	57.1	64.8	5	2	
9/10/2002	9:15	**13000**	**600**	**700**	20.8	7.66	25.5	NA	1.11	15.4	3.51	Flood	50	58.2	69.7	5	2	Chlorination
9/11/2002	9:15	5000	300	**2700**	20.6	7.65	25.6	NA	1.45	17.4	3.05	Flood	47	58.7	72.7	5	2	
9/12/2002	9:05	**11000**	**2400**	**11000**	21.0	7.53	26.5	18	0.64	16.2	2.73	Flood		64.1	73.3	5	2	
9/13/2002	10:30	8000	**700**	**6100**	21.3	7.55	27.5	38	2.91	17.0	3.26	Flood	41	59.7	77.9	5	2	
9/14/2002	9:10	**11000**	**500**	**2600**	19.8	7.47	23.6	23	NA	14.3	3.16	Ebb	20	56.6	60.6	4	1	
9/15/2002	8:55	**14000**	**700**	**3500**	20.2	7.42	26.5	NA	1.70	16.1	3.65	Ebb	19	55.0	59.6	4	1	
9/16/2002	8:45	**13000**	**650**	**4700**	20.7	7.43	24.7	NA	1.20	14.6	4.11	Ebb		60.0	65.0	5	2	
9/17/2002	9:15	5000	38	**1500**	20.5	8.35	10.1	6	8.80	5.6	4.31	Ebb		64.4	75.3	5	2	
9/18/2002	9:20	8000	**600**	**1700**	21.3	7.48	11.7	43	5.99	6.0	4.54	Ebb	12	68.9	86.3	5	2	
9/19/2002	9:50	**16000**	150	**770**	21.9	8.02	24.9	17	2.44	15.2	4.64	Ebb	13	66.7	85.7	5	2	
9/20/2002	9:57	**28000**	200	**170**	22.1	8.06	26.2	45	4.94	16.0	4.80	Ebb	11	64.9	84.1	5	2	
9/21/2002	9:12	4000	30	**240**	21.7	8.01	24.6	14	2.75	15.6	4.75	Flood	17	62.5	81.9	5	2	
9/22/2002	9:55	5000	30	**170**	22.2	8.28	25.2	NA	2.90	16.1	5.00	Flood	17	57.5	66.0	5	2	
9/23/2002	9:33	6000	20	20	19.0	8.46	12.2	40	1.02	6.9	4.73	Flood	35	62.4	80.2	5	2	Chlorination
9/24/2002	9:45	4000	20	**2500**	22.6	8.20	20.3	24	4.94	11.9	4.70	Flood	54	64.0	84.2	6	3	
9/25/2002	9:40	4000	10	**410**	22.1	8.07	25.8	17	2.20	15.7	4.41	Flood	57	63.0	71.0	6	2	
9/26/2002	9:55	3000	2	**300**	22.2	8.14	22.4	28	3.70	13.6	4.31	Flood	32	67.0	71.0	5	2	Reverse Flow
9/27/2002	10:55	7000	70	**3400**	NA	NA	NA	NA	NA		4.49	Flood	26	57.9	62.4	5	2	Chlorination

Location: Blackford's Ditch (BD)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
9/28/2002	9:50	5000	40	**1200**	21.7	8.62	22.2	6	2.36	14.0	3.76	Flood	26	56.8	57.9	5	2	
9/29/2002	9:50	5000	40	**1600**	20.4	8.78	11.5	17	1.48	6.5	3.54	Flood	20	59.4	60.8	5	2	
9/30/2002	9:15	5000	20	**900**	19.4	8.72	13.1	4	0.72	7.5	3.44	Ebb	26	59.4	63.3	5	2	Chlorination
10/1/2002	9:20	2300	130	**740**	19.2	8.88	9.9	1	2.31	5.7	3.55	Ebb	28	60.3	72.1	4	1	
10/2/2002	9:00	2000	150	**800**	19.0	8.70	17.0	1	2.70	10.0	4.01	Ebb	0	59.9	62.4	4	1	
10/3/2002	9:45	4000	150	**400**	20.0	8.70	20.0	1	0.70	12.0	4.11	Ebb	0	59.6	67.6	4	1	
10/4/2002	9:15	6000	110	**430**	19.0	8.70	20.0	16	2.50	10.0	5.03	Ebb	0	61.7	64.7	3	2	Chlorination
10/5/2002	9:21	800	2	**500**	18.7	8.62	16.3	16	1.63	9.1	5.58	Ebb	0	61.8	61.8	3	1	
10/6/2002	9:32	8000	70	**480**	18.7	8.60	14.4	NA	0.71	7.8	5.97	Flood	0	61.4	68.2	2	1	
10/7/2002	9:30	8000	13	**330**	19.0	8.90	10.0	NA	0.70	6.0	6.04	Flood	0	62.5	81.7	4	2	Chlorination
10/8/2002	9:30	7000	70	**550**	20.0	8.80	10.0	NA	1.30	6.0	5.71	Flood	0	62.4	83.6	4	2	
10/9/2002	9:30	5000	2	**520**	19.3	8.86	12.0	NA	3.81	6.6	5.09	Flood	0	63.0	84.5	4	2	Chlorination
10/10/2002	9:20	2000	40	**520**	19.7	8.98	10.2	NA	0.87	5.7	4.21	Flood	21	62.4	83.3	4	2	
10/11/2002	9:25	3000	30	**580**	19.6	8.72	12.9	39	1.46	7.5	3.70	Flood	22	60.5	79.0	4	2	Chlorination
10/12/2002	9:55	1800	20	**300**	19.1	8.77	14.8	23	3.20	8.4	3.50	Flood	55					
10/13/2002	9:58	1600	21	**310**	19.0	8.82	13.9	14	0.70	8.0	3.28	Ebb	49	64.0	72.0	4	2	
10/14/2002	9:50	2400	20	**250**	19.1	8.70	14.1	48	NA	8.7	3.10	Ebb	49	57.0	79.0	4	2	
10/15/2002	9:40	2800	10	**650**	19.8	8.34	22.7	NA	2.85	13.6	3.72	Ebb	44	58.0	79.0	4	2	Chlorination

Location: Boiler Fireside Wash (BFW)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
7/16/2002	12:51	900	**530**	**1600**	20.5	7.02	1.8	125	NA	0.8	3.37	Flood		67.0	84.6			
7/20/2002	7:00	**3000**	**630**	**5500**	18.5	5.81	2.0	0	2.30	0.9	3.25	Flood	64	66.0	71.0	4	1	
7/21/2002	8:12	1900	70	**3100**	18.3	5.85	1.9	0	1.68	0.8	3.52	Flood	63	66.0	72.0	4	1	
7/23/2002	7:35	**1000**	**580**	**2500**	18.6	5.51	2.1	1	2.46	1.0	2.12	Flood	205	54.4	65.3	4	1	Chlorination
7/24/2002	7:35	200	150	**1700**	19.4	5.83	2.1	0	2.52	1.0	1.47	Flood	51	58.9	64.6	4	1	Chlorination
7/25/2002	7:35	180	90	**1700**	19.8	5.79	2.2	0	2.13	1.0	0.92	Flood	52	59.4	70.2	5	2	Chlorination
7/26/2002	7:25	110	74	**880**	19.4	5.58	2.1	NA	2.32	1.0	0.40	Flood	198	63.0	85.0	6	3	Chlorination
7/27/2002	7:43	500	15	**1100**	18.7	5.76	2.0	1	0.86	0.9	0.53	Flood	61	65.0	92.0	6	3	
7/28/2002	7:44	550	110	**1200**	18.1	5.79	2.0	10	1.73	0.9	0.58	Flood	49	67.0	80.0	6	3	
7/29/2002	7:45	310	68	**1100**	18.6	5.83	2.0	7	2.54	0.9	0.83	Flood	80	67.4	79.6	6	3	
7/30/2002	7:40	510	72	**1600**	18.8	5.49	2.0	1	2.40	0.9	1.23	Low Tide	77	71.0	72.9	6	3	Chlorination
7/31/2002	7:30	120	52	**1800**	19.1	5.72	2.0	10	2.17	0.9	1.74	Ebb	141	63.0	75.5	6	2	
8/1/2002	7:50	190	73	**690**	18.8	6.17	1.8	NA	3.20	0.8	2.19	Ebb	0	63.0	72.0	6	2	Chlorination
8/2/2002	7:30	220	150	**1100**	18.7	6.03	1.8	2	1.91	0.8	2.69	Ebb	0	64.8	80.0	5	2	
8/3/2002	7:15	200	130	**570**	18.8	5.62	1.7	1	4.03	0.8	3.03	Flood	0	63.1	77.4	5	2	
8/4/2002	8:15	210	93	**260**	18.6	6.06	1.6	1	2.49	0.7	3.30	High Tide	0	64.4	73.0	5	2	Reverse Flow
8/5/2002	7:40	530	140	**180**	18.7	6.17	1.7	0	2.23	0.7	3.32	Flood	92	62.0	79.5	5	2	Reverse Flow
8/6/2002	7:42	590	240	**120**	18.3	5.87	1.6	10	2.04	0.7	3.18	Flood	57	63.9	75.8	6	2	Reverse Flow
8/7/2002	7:17	1900	140	**150**	18.8	5.80	1.6	10	2.29	1.0	2.46	Flood	61	63.8	81.2	6	3	Reverse Flow
8/8/2002	7:15	**1100**	**800**	**320**	18.7	5.82	1.5	NA	1.55	0.7	1.71	Flood	62	63.1	85.9	7	3	Reverse Flow
8/9/2002	7:15	410	240	**120**	18.8	5.59	1.5	NA	1.82	0.7	0.99	Flood	65	63.0	85.0	6	2	Reverse Flow
8/10/2002	7:10	**1300**	210	**190**	19.0	5.74	1.5	NA	2.78	0.7	0.30	Flood	68	63.0	74.0	7	3	Reverse Flow
8/11/2002	7:05	**21000**	**4300**	**20000**	18.6	6.39	1.7	NA	3.09	0.8	-0.05	Flood	70	55.0	65.0	6	2	
8/12/2002	7:25	**6200**	**2200**	**7000**	19.0	6.72	1.8	8	2.22	0.8	0.27	Flood	157	58.0	74.0	7	2	
8/13/2002	7:40	**2600**	**3000**	**5200**	24.9	5.01	22.7	50	3.39	13.8	0.74	Flood	64	63.4	76.5	7	2	
8/14/2002	7:00	**12000**	**2000**	**22000**	19.1	6.32	21.6	NA	4.45	13.1	1.54	Ebb	67	65.1	77.6	7	3	
8/15/2002	10:50	**5500**	**1800**	**23000**	19.6	6.63	21.6	10	4.02	13.0	2.58	Flood	69	60.2	87.9	7	3	
8/16/2002	10:10	**19000**	**1300**	**50000**	19.6	6.66	21.1	115	2.51	12.6	2.51	Flood	130	61.7	84.7	5	2	
8/17/2002	10:42	**29000**	**650**	**50000**	19.8	6.57	20.0	56	NA	11.9	2.80	Ebb	117	62.3	83.0	5	2	
8/18/2002	10:30	**27000**	**2800**	**86000**	18.8	6.84	17.4	93	1.02	10.2	3.24	Ebb	116	63.0	72.0	5	2	
8/19/2002	10:40	**50000**	**950**	**160000**	18.2	6.83	17.3	93	2.18	10.2	3.57	Ebb	94	64.6	85.5	5	2	Chlorination
8/20/2002	10:45	**44000**	**500**	**57000**	17.8	6.76	16.0	96	NA	9.4	3.89	Ebb		65.0	85.0	5	2	
8/21/2002	10:15	**68000**	**700**	**33000**	17.6	6.95	14.2	72	NA	8.2	4.29	Ebb	98	64.2	80.0	5	2	
8/22/2002	10:10	**24000**	**700**	**25000**	19.5	7.17	16.6	80	NA	9.7	4.38	Flood		65.0	82.0	5	2	
8/23/2002	11:10	**26000**	**610**	**23000**	18.8	7.23	10.6	10	NA	6.0	4.43	Ebb	90	61.5	83.7	5	2	Chlorination
8/24/2002	10:45	**13000**	**500**	**11000**	19.8	6.92	10.8	NA	NA	6.0	4.46	Flood		64.1	81.1	5	2	
8/25/2002	10:40	3000	210	**14000**	19.6	6.98	11.5	NA	NA	6.5	4.34	Flood	32	64.7	86.1	5	2	

Location: Boiler Fireside Wash (BFW)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
8/26/2002	10:40	7000	50	**38000**	20.1	6.81	10.3	NA	NA	5.8	4.16	Flood	66	63.4	81.7	6	2	
8/27/2002	10:50	1300	50	**15000**	19.1	6.94	10.6	68	4.69	5.3	4.05	Flood	57	64.0	86.6	5	2	Chlorination
8/28/2002	10:25	600	30	**5800**	18.0	6.90	10.0	NA	6.80	5.0	3.57	Flood	73	65.2	87.2	5	2	
8/29/2002	10:40	900	110	**2400**	18.0	6.99	7.7	NA	6.11	4.1	3.53	Flood	86	65.2	87.9	5	2	
8/30/2002	8:50	**6000**	**900**	**14000**	18.3	7.31	9.0	NA	7.05	4.9	2.77	Flood		66.2	87.5	5	2	
8/31/2002	7:00	**3500**	360	**7000**	18.2	7.18	8.3	NA	6.69	4.4	2.94	Flood	32	60.4	73.1	5	2	
9/1/2002	7:30	3200	90	**3000**	19.0	7.20	7.1	NA	6.25	4.0	3.28	Flood		57.0	67.1	5	2	
9/2/2002	8:45	5000	**500**	**6000**	19.3	7.35	7.3	NA	5.23	3.1	3.54	Ebb	57	55.5	71.1	5	2	Chlorination
9/3/2002	7:50	900	**580**	**3000**	19.6	7.18	6.4	36	6.11	3.4	3.83	Flood	25	60.0	70.0	5	2	
9/4/2002	9:25	**5400**	**2200**	**1800**	19.6	7.24	8.3	42	NA	4.5	4.13	Ebb	21	62.4	78.6	5	2	Chlorination
9/5/2002	8:25	5000	**500**	**1700**	20.5	7.21	11.2	25	4.23	6.3	4.31	Flood	15	64.6	74.4	5	2	
9/6/2002	8:25	**17000**	**900**	**17000**	20.2	7.19	10.4	30	0.00	5.6	4.25	Flood	0	62.0	81.0	5	2	
9/7/2002	8:15	**67000**	**900**	**35000**	19.0	7.23	11.1	10	NA	6.2	3.76	Flood	0	58.0	64.0	5	2	
9/8/2002	8:15	**21000**	300	**15000**	17.4	7.27	9.2	36	6.80	4.5	3.25	Flood	0	55.0	60.0	5	2	
9/9/2002	8:00	**15000**	**430**	**16000**	17.8	7.22	9.8	33	6.27	5.3	2.38	Flood	0	57.1	64.8	5	2	
9/10/2002	7:10	**16000**	**540**	**13000**	18.5	7.13	10.0	NA	5.52	5.5	1.28	Flood	50	58.2	69.7	5	2	Chlorination
9/11/2002	7:10	**26000**	**700**	**19000**	18.6	7.24	10.0	NA	5.82	5.5	1.59	Flood	47	58.7	72.7	5	2	
9/12/2002	7:12	**56000**	210	**23000**	18.5	7.34	10.3	58	4.64	5.7	2.17	Low Tide		64.1	73.3	5	2	
9/14/2002	7:00	**13000**	**3100**	**2000**	18.6	7.16	8.5	45	4.23	4.4	3.49	Ebb	20	56.6	60.6	4	1	
9/15/2002	7:05	4000	130	**1100**	17.9	7.14	8.9	10	1.91	4.8	3.87	Flood	19	55.0	59.6	4	1	
9/16/2002	7:10	**15000**	130	**2800**	18.5	7.23	9.1	NA	4.39	4.6	4.04	Flood		60.0	65.0	5	2	
9/17/2002	8:30	1000	2	**1300**	18.0	7.38	7.5	24	9.01	4.1	4.41	Flood		64.4	75.3	5	2	
9/18/2002	8:34	3000	30	**2300**	18.4	7.24	6.3	25	8.55	3.3	4.54	Flood	12	68.9	86.3	5	2	
9/19/2002	9:10	6000	80	**2200**	19.6	7.19	6.4	38	10.26	3.4	4.70	Flood	13	66.7	85.7	5	2	
9/20/2002	9:40	**13000**	200	**2200**	19.4	7.46	5.6	36	10.33	2.9	4.84	High Tide	11	64.9	84.1	5	2	
9/21/2002	8:22	300	150	**1100**	18.6	7.38	6.5	35	3.73	3.4	4.17	Flood	17	62.5	81.9	5	2	
9/22/2002	9:06	200	40	**600**	18.9	7.41	6.6	NA	4.76	3.3	4.60	Flood	17	57.5	66.0	5	2	
9/23/2002	8:28	300	110	**740**	19.1	7.34	5.6	42	5.55	2.9	3.92	Flood	35	62.4	80.2	5	2	Chlorination
9/24/2002	7:25	**2000**	230	**2400**	19.8	7.67	5.3	41	5.96	2.9	2.67	Flood	54	64.0	84.2	6	3	
9/25/2002	7:25	**2000**	**1900**	**2200**	18.9	7.28	5.3	66	5.88	2.5	2.65	Flood	57	63.0	71.0	6	2	
9/26/2002	7:20	**1200**	210	**1900**	18.4	7.34	4.4	59	3.08	2.2	2.67	Flood	32	67.0	71.0	5	2	Reverse Flow
9/27/2002	10:00	**1100**	230	**5600**	17.3	7.70	4.7	73	4.75	2.5	4.09	Flood	26	57.9	62.4	5	2	Chlorination
9/28/2002	8:30	800	110	**5200**	17.2	7.32	5.4	90	3.81	7.8	3.31	Flood	26	56.8	57.9	5	2	
9/29/2002	8:04	200	30	**5700**	17.8	7.46	4.0	87	10.20	2.0	3.33	Flood	20	59.4	60.8	5	2	
9/30/2002	7:20	300	50	**3100**	16.8	7.22	4.6	82	3.32	2.4	3.58	High Tide	26	59.4	63.3	5	2	Chlorination
10/1/2002	7:25	200	20	**2300**	17.8	7.62	4.7	123	10.39	2.4	3.90	Flood	28	60.3	72.1	4	1	
10/2/2002	7:30	2000	120	**1500**	16.4	7.60	4.7	38	3.34	2.4	4.26	Flood	0	59.9	62.4	4	1	

Location: Boiler Fireside Wash (BFW)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
10/3/2002	7:25	1300	70	**1200**	17.0	7.70	4.8	4	2.60	2.0	4.53	Flood	0	59.6	67.6	4	1	
10/4/2002	7:25	3000	90	**2800**	17.0	7.60	4.8	4	3.20	3.0	4.66	Flood	0	61.7	64.7	3	2	Chlorination
10/5/2002	7:15	3000	110	**2100**	17.6	7.04	4.8	29	2.55	2.5	4.36	Flood	0	61.8	61.8	3	1	
10/6/2002	7:09	800	320	**3500**	17.3	6.92	4.6	7	2.98	2.3	3.86	Flood	0	61.4	68.2	2	1	
10/7/2002	7:20	**2100**	**520**	**1900**	17.7	7.43	4.8	10	0.89	2.4	3.58	Flood	0	62.5	81.7	4	2	Chlorination
10/8/2002	7:30	800	120	**1800**	18.0	7.60	4.7	NA	2.40	2.0	3.28	Flood	0	62.4	83.6	4	2	
10/9/2002	7:30	300	140	**1300**	17.8	7.70	4.5	NA	3.92	2.3	2.86	Flood	0	63.0	84.5	4	2	Chlorination
10/10/2002	7:30	430	150	**740**	17.3	8.07	4.4	NA	5.76	2.2	2.71	Flood	21	62.4	83.3	4	2	
10/11/2002	7:30	420	130	**710**	16.5	8.07	4.2	62	4.51	2.1	2.86	Flood	22	60.5	79.0	4	2	Chlorination
10/12/2002	7:20	600	150	**420**	16.8	8.15	4.0	NA	4.75	2.0	3.25	Ebb	55					
10/13/2002	10:07	**1100**	150	**410**	16.3	8.02	3.8	0	3.75	2.0	3.27	Ebb	49	64.0	72.0	4	2	
10/14/2002	7:30	**1100**	180	**730**	16.4	7.79	3.6	69	3.39	1.8	4.14	Ebb	49	57.0	79.0	4	2	
10/15/2002	7:20	500	260	**900**	16.0	7.98	3.4	NA	4.33	1.7	4.46	Flood	44	58.0	79.0	4	2	Chlorination

Location: Boiler Sump Wash (BSW)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
7/18/2002	11:50	750	58	**170**	29.4	6.41	0.0	999	NA	0.0	1.94	Flood	121	62.5	75.8	4	1	
7/20/2002	7:45	400	110	**170**	NA	NA	NA	NA	NA		3.46	Flood	64	66.0	71.0	4	1	
7/21/2002	8:35	300	200	40	NA	NA	NA	NA	NA		3.64	Flood	63	66.0	72.0	4	1	
7/22/2002	7:15	190	100	90	NA	NA	NA	NA	NA		2.42	Flood	133	63.0	78.0	4	1	Chlorination
7/23/2002	8:05	800	70	60	NA	NA	NA	NA	NA		2.67	Flood	205	54.4	65.3	4	1	Chlorination
7/24/2002	7:55	200	90	**3000**	NA	NA	NA	NA	NA		1.87	Flood	51	58.9	64.6	4	1	Chlorination
7/25/2002	7:55	300	10	50	NA	NA	NA	NA	NA		1.31	Flood	52	59.4	70.2	5	2	Chlorination
7/26/2002	7:45	40	11	50	NA	NA	NA	NA	NA		0.72	Flood	198	63.0	85.0	6	3	Chlorination
7/27/2002	8:05	90	2	40	NA	NA	NA	NA	NA		0.80	Flood	61	65.0	92.0	6	3	
7/28/2002	8:05	22	<1	30	NA	NA	NA	NA	NA		0.76	Flood	49	67.0	80.0	6	3	
7/29/2002	8:05	60	20	33	NA	NA	NA	NA	NA		0.92	Flood	80	67.4	79.6	6	3	
7/30/2002	8:05	140	30	**120**	NA	NA	NA	NA	NA		1.26	Flood	77	71.0	72.9	6	3	Chlorination
7/31/2002	7:45	170	64	**210**	NA	NA	NA	NA	NA		1.71	Ebb	141	63.0	75.5	6	2	
8/1/2002	8:10	3500	80	**420**	NA	NA	NA	NA	NA		2.15	Ebb	0	63.0	72.0	6	2	Chlorination
8/2/2002	7:50	520	70	**750**	NA	NA	NA	NA	NA		2.64	Ebb	0	64.8	80.0	5	2	
8/3/2002	7:30	410	50	**470**	NA	NA	NA	NA	NA		3.03	Ebb	0	63.1	77.4	5	2	
8/4/2002	8:25	1200	40	**640**	NA	NA	NA	NA	NA		3.29	Ebb	0	64.4	73.0	5	2	Reverse Flow
8/5/2002	7:55	2100	10	**610**	NA	NA	NA	NA	NA		3.41	Flood	92	62.0	79.5	5	2	Reverse Flow
8/6/2002	8:05	**1700**	270	**730**	NA	NA	NA	NA	NA		3.44	Flood	57	63.9	75.8	6	2	Reverse Flow
8/7/2002	7:30	**2300**	**900**	**1100**	NA	NA	NA	NA	NA		2.64	Flood	61	63.8	81.2	6	3	Reverse Flow
8/8/2002	7:35	1300	10	**250**	NA	NA	NA	NA	NA		2.14	Flood	62	63.1	85.9	7	3	Reverse Flow
8/9/2002	7:40	900	30	**150**	NA	NA	NA	NA	NA		1.56	Flood	65	63.0	85.0	6	2	Reverse Flow
8/10/2002	7:30	300	20	**330**	NA	NA	NA	NA	NA		0.70	Flood	68	63.0	74.0	7	3	Reverse Flow
8/11/2002	7:20	**1000**	170	**900**	NA	NA	NA	NA	NA		0.16	Flood	70	55.0	65.0	6	2	
8/12/2002	7:33	**3500**	**800**	**1500**	NA	NA	NA	NA	NA		0.36	Flood	157	58.0	74.0	7	2	
8/13/2002	7:50	**3000**	**1500**	**610**	NA	NA	NA	NA	NA		0.79	Flood	64	63.4	76.5	7	2	
8/14/2002	7:15	800	190	**460**	NA	NA	NA	NA	NA		1.47	Ebb	67	65.1	77.6	7	3	
8/15/2002	11:05	700	120	**420**	NA	NA	NA	NA	NA		2.72	Flood	69	60.2	87.9	7	3	
8/16/2002	10:20	4000	130	**290**	NA	NA	NA	NA	NA		2.51	Flood	130	61.7	84.7	5	2	
8/17/2002	11:00	**3300**	**1100**	**270**	NA	NA	NA	NA	NA		2.75	Ebb	117	62.3	83.0	5	2	
8/18/2002	10:37	700	30	50	NA	NA	NA	NA	NA		3.17	Ebb	116	63.0	72.0	5	2	
8/19/2002	10:55	500	8	80	NA	NA	NA	NA	NA		3.45	Ebb	94	64.6	85.5	5	2	Chlorination
8/20/2002	11:00	200	20	**110**	NA	NA	NA	NA	NA		3.76	Ebb		65.0	85.0	5	2	
8/21/2002	10:30	2000	5	80	NA	NA	NA	NA	NA		4.24	Ebb	98	64.2	80.0	5	2	
8/22/2002	10:35	1500	22	**110**	NA	NA	NA	NA	NA		4.38	Ebb		65.0	82.0	5	2	
8/23/2002	10:15	1500	21	**120**	NA	NA	NA	NA	NA		4.38	Flood	90	61.5	83.7	5	2	Chlorination
8/24/2002	10:05	500	12	90	NA	NA	NA	NA	NA		4.19	Flood		64.1	81.1	5	2	

Location: Boiler Sump Wash (BSW)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
8/25/2002	9:55	**16000**	**3200**	**1500**	NA	NA	NA	NA	NA		3.86	Flood	32	64.7	86.1	5	2	
8/26/2002	9:55	300	40	50	NA	NA	NA	NA	NA		3.62	Flood	66	63.4	81.7	6	2	
8/27/2002	11:00	700	5	**240**	NA	NA	NA	NA	NA		4.15	Flood	57	64.0	86.6	5	2	Chlorination
8/28/2002	10:35	520	250	**710**	NA	NA	NA	NA	NA		3.68	Flood	73	65.2	87.2	5	2	
8/29/2002	10:50	200	50	**200**	NA	NA	NA	NA	NA		3.62	Flood	86	65.2	87.9	5	2	
8/30/2002	9:00	300	80	**420**	NA	NA	NA	NA	NA		2.81	Flood		66.2	87.5	5	2	
8/31/2002	7:10	200	10	**270**	NA	NA	NA	NA	NA		2.94	Flood	32	60.4	73.1	5	2	
9/1/2002	7:40	50	10	**150**	NA	NA	NA	NA	NA		3.28	Flood		57.0	67.1	5	2	
9/2/2002	8:55	**21000**	**1600**	**11000**	NA	NA	NA	NA	NA		3.51	Ebb	57	55.5	71.1	5	2	Chlorination
9/3/2002	8:10	**1900**	**520**	**1200**	NA	NA	NA	NA	NA		3.88	Flood	25	60.0	70.0	5	2	
9/4/2002	9:45	800	130	80	25.0	7.82	1.8	2	6.50	0.8	4.03	Ebb	21	62.4	78.6	5	2	Chlorination
9/5/2002	8:40	2000	110	**130**	NA	NA	NA	NA	NA		4.42	Flood	15	64.6	74.4	5	2	
9/6/2002	8:35	220	50	60	NA	NA	NA	NA	NA		4.39	Flood	0	62.0	81.0	5	2	
9/7/2002	8:25	300	86	**140**	NA	NA	NA	NA	NA		3.97	Flood	0	58.0	64.0	5	2	
9/8/2002	8:25	300	50	**210**	NA	NA	NA	NA	NA		3.49	Flood	0	55.0	60.0	5	2	
9/9/2002	8:15	1200	30	70	NA	NA	NA	NA	NA		2.72	Flood	0	57.1	64.8	5	2	
9/10/2002	7:20	1100	28	30	NA	NA	NA	NA	NA		1.41	Flood	50	58.2	69.7	5	2	Chlorination
9/11/2002	7:20	200	20	**200**	NA	NA	NA	NA	NA		1.65	Flood	47	58.7	72.7	5	2	
9/12/2002	7:17	**2000**	**520**	**1200**	NA	NA	NA	NA	NA		2.17	Flood		64.1	73.3	5	2	
9/13/2002	7:15	**2000**	**430**	**630**	25.6	7.21	1.2	1	6.76	0.5	2.84	Ebb	41	59.7	77.9	5	2	
9/14/2002	7:10	100	9	66	NA	NA	NA	NA	NA		3.47	Ebb	20	56.6	60.6	4	1	
9/15/2002	7:15	400	30	**240**	NA	NA	NA	NA	NA		3.89	Flood	19	55.0	59.6	4	1	
9/16/2002	7:20	800	50	**170**	NA	NA	NA	NA	NA		4.09	Flood		60.0	65.0	5	2	
9/17/2002	8:44	50	10	**130**	NA	NA	NA	NA	NA		4.40	Ebb		64.4	75.3	5	2	
9/18/2002	8:53	210	75	90	NA	NA	NA	NA	NA		4.57	Flood	12	68.9	86.3	5	2	
9/19/2002	9:17	200	75	**210**	NA	NA	NA	NA	NA		4.71	High Tide	13	66.7	85.7	5	2	
9/20/2002	9:45	300	90	**150**	NA	NA	NA	NA	NA		4.83	Ebb	11	64.9	84.1	5	2	
9/21/2002	8:33	10	1	**270**	NA	NA	NA	NA	NA		4.38	Flood	17	62.5	81.9	5	2	
9/22/2002	8:43	400	20	**360**	NA	NA	NA	NA	NA		4.35	Flood	17	57.5	66.0	5	2	
9/23/2002	9:08	100	10	65	NA	NA	NA	NA	NA		4.50	Flood	35	62.4	80.2	5	2	Chlorination
9/24/2002	7:40	2000	50	**140**	NA	NA	NA	NA	NA		2.91	Flood	54	64.0	84.2	6	3	
9/25/2002	7:40	200	19	20	NA	NA	NA	NA	NA		2.84	Flood	57	63.0	71.0	6	2	
9/26/2002	7:35	100	10	50	NA	NA	NA	NA	NA		2.80	Flood	32	67.0	71.0	5	2	Reverse Flow
9/27/2002	10:10	200	5	62	NA	NA	NA	NA	NA		4.17	Flood	26	57.9	62.4	5	2	Chlorination
9/28/2002	8:40	**1300**	230	**1700**	NA	NA	NA	NA	NA		3.36	Flood	26	56.8	57.9	5	2	
9/29/2002	8:10	2000	130	**420**	NA	NA	NA	NA	NA		3.34	Flood	20	59.4	60.8	5	2	
9/30/2002	7:35	110	50	**1200**	NA	NA	NA	NA	NA		3.57	Ebb	26	59.4	63.3	5	2	Chlorination

Location: Boiler Sump Wash (BSW)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
10/1/2002	7:35	120	40	**530**	NA	NA	NA	NA	NA		3.90	Ebb	28	60.3	72.1	4	1	
10/2/2002	7:35	90	30	21	NA	NA	NA	NA	NA		4.27	Flood	0	59.9	62.4	4	1	
10/3/2002	7:35	200	30	**170**	NA	NA	NA	NA	NA		4.59	Flood	0	59.6	67.6	4	1	
10/4/2002	7:35	5000	150	84	NA	NA	NA	NA	NA		4.78	Flood	0	61.7	64.7	3	2	Chlorination
10/5/2002	7:35	50	1	90	NA	NA	NA	NA	NA		4.74	Flood	0	61.8	61.8	3	1	
10/6/2002	7:15	**1200**	140	**410**	NA	NA	NA	NA	NA		3.98	Flood	0	61.4	68.2	2	1	
10/7/2002	7:30	700	130	**1200**	NA	NA	NA	NA	NA		3.82	Flood	0	62.5	81.7	4	2	Chlorination
10/8/2002	7:40	**1100**	140	**410**	NA	NA	NA	NA	NA		3.50	Flood	0	62.4	83.6	4	2	
10/9/2002	7:40	3300	170	**320**	NA	NA	NA	NA	NA		3.04	Flood	0	63.0	84.5	4	2	Chlorination
10/10/2002	7:40	900	80	**1500**	NA	NA	NA	NA	NA		2.82	Flood	21	62.4	83.3	4	2	
10/11/2002	7:40	1500	35	**120**	NA	NA	NA	NA	NA		2.90	Flood	22	60.5	79.0	4	2	Chlorination
10/12/2002	7:40	**17000**	**3800**	**5400**	NA	NA	NA	NA	NA		3.23	Ebb	55					
10/13/2002	10:20	1500	70	**330**	NA	NA	NA	NA	NA		3.27	Ebb	49	64.0	72.0	4	2	
10/14/2002	7:40	**2300**	**950**	**890**	NA	NA	NA	NA	NA		4.12	Ebb	49	57.0	79.0	4	2	
10/15/2002	7:35	800	270	**470**	NA	NA	NA	NA	NA		4.46	Ebb	44	58.0	79.0	4	2	Chlorination

Location: Discharge Vault (DV0)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
7/16/2002	11:20	110	27	12	26.9	7.30	41.5	1	NA	NR	1.93	Flood		67.0	84.6			
7/17/2002	10:29	85	15	9	29.3	8.28	43.0	3	NA	NR	1.32	Flood		67.4	86.1			
7/18/2002	10:46	60	25	5	23.5	8.27	42.0	128	NA	NR	1.68	Flood	121	62.5	75.8	4	1	
7/19/2002	11:00	40	11	4	24.6	8.09	49.8	5	NA	32.8	2.09	Ebb	64	65.0	77.0	4	1	
7/20/2002	9:45	20	9	9	22.4	8.14	48.7	3	NA	31.9	3.13	Ebb	64	66.0	71.0	4	1	
7/21/2002	9:55	20	13	<1	21.3	7.91	18.2	76	NA	NR	3.56	Ebb	63	66.0	72.0	4	1	
7/22/2002	8:52	20	3	2	25.0	8.09	47.1	4	NA	30.7	3.67	Flood	133	63.0	78.0	4	1	Chlorination
7/23/2002	9:20	300	23	<1	22.9	7.81	35.8	6	NA	NR	3.67	Flood	205	54.4	65.3	4	1	Chlorination
7/24/2002	9:02	30	20	<1	22.3	7.90	49.2	2	NA	32.2	3.05	Flood	51	58.9	64.6	4	1	Chlorination
7/25/2002	8:30	5	1	<1	21.3	7.91	46.0	4	NA	NR	1.99	Flood	52	59.4	70.2	5	2	Chlorination
7/26/2002	8:55	80	40	<1	27.1	7.97	45.2	8	NA	NR	1.97	Flood	198	63.0	85.0	6	3	Chlorination
7/27/2002	9:33	20	12	2	30.8	7.81	48.3	3	NA	31.6	2.26	Flood	61	65.0	92.0	6	3	
7/28/2002	9:30	8	5	<1	26.1	8.01	49.2	104	NA	32.3	1.87	Flood	49	67.0	80.0	6	3	
7/29/2002	9:15	12	8	4	25.1	8.04	48.5	105	NA	32.0	1.55	Flood	80	67.4	79.6	6	3	
7/30/2002	9:07	2	<1	<1	23.7	7.94	46.6	10	NA	30.3	1.58	Flood	77	71.0	72.9	6	3	Chlorination
7/31/2002	9:05	30	20	3	27.5	7.96	47.8	NA	NA	31.4	1.79	Flood	141	63.0	75.5	6	2	
8/1/2002	9:20	<1	<1	<1	23.2	8.00	51.2	0	NA	33.7	2.14	Flood	0	63.0	72.0	6	2	Chlorination
8/2/2002	9:25	690	14	21	23.0	7.90	51.2	2	NA	33.6	2.48	Ebb	0	64.8	80.0	5	2	
8/3/2002	8:45	90	3	<1	24.8	7.92	50.9	5	NA	33.5	2.92	Ebb	0	63.1	77.4	5	2	
8/4/2002	9:25	180	10	<1	18.1	7.97	50.5	2	NA	33.1	3.17	Ebb	0	64.4	73.0	5	2	Reverse Flow
8/5/2002	9:00	330	14	3	24.6	7.65	3.7	6	NA	NR	3.55	Ebb	92	62.0	79.5	5	2	Reverse Flow
8/6/2002	9:05	210	110	71	24.4	7.68	3.5	387	NA	NR	3.78	Flood	57	63.9	75.8	6	2	Reverse Flow
8/7/2002	8:25	**1300**	**420**	31	24.9	7.86	4.5	10	NA	NR	3.47	Flood	61	63.8	81.2	6	3	Reverse Flow
8/8/2002	8:45	210	30	21	23.5	8.26	3.9	9	NA	NR	3.44	Flood	62	63.1	85.9	7	3	Reverse Flow
8/9/2002	8:40	600	300	55	25.3	8.44	4.9	NA	NA	NR	2.88	Flood	65	63.0	85.0	6	2	Reverse Flow
8/10/2002	9:15	900	350	70	25.9	8.37	7.0	NA	NA	NR	3.03	Flood	68	63.0	74.0	7	3	Reverse Flow
8/11/2002	8:25	90	13	9	19.8	7.91	47.4	NA	NA	30.9	1.36	Flood	70	55.0	65.0	6	2	
8/12/2002	8:40	110	7	3	23.8	7.93	47.6	81	NA	31.3	1.29	Flood	157	58.0	74.0	7	2	
8/13/2002	9:05	300	5	1	26.3	7.93	49.4	46	NA	32.4	1.54	Flood	64	63.4	76.5	7	2	
8/14/2002	8:00	20	2	1	24.8	7.68	47.3	NA	NA	30.7	1.38	Flood	67	65.1	77.6	7	3	
8/15/2002	9:48	20	4	<1	27.8	7.90	48.0	10	NA	32.0	2.17	Flood	69	60.2	87.9	7	3	
8/16/2002	9:30	20	5	2	27.0	7.83	47.9	4	NA	32.6	2.55	Ebb	130	61.7	84.7	5	2	
8/17/2002	9:34	100	19	2	24.9	7.66	44.3	0	NA	NR	3.07	Ebb	117	62.3	83.0	5	2	
8/18/2002	9:50	200	2	2	20.0	8.06	41.2	1	NA	NR	3.49	Ebb	116	63.0	72.0	5	2	
8/19/2002	9:40	30	20	<1	25.5	7.97	40.6	0	NA	NR	3.95	Ebb	94	64.6	85.5	5	2	Chlorination
8/20/2002	9:20	10	<1	<1	25.5	7.95	42.5	1	NA	NR	4.19	Flood		65.0	85.0	5	2	
8/21/2002	9:50	20	1	<1	26.4	7.98	41.1	1	NA	NR	4.30	Flood	98	64.2	80.0	5	2	

Location: Discharge Vault (DV0)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
8/22/2002	9:30	30	5	30	25.7	7.84	42.2	2	NA	NR	4.18	Flood		65.0	82.0	5	2	
8/23/2002	9:35	40	3	<1	27.7	8.13	35.7	10	NA	NR	4.06	Flood	90	61.5	83.7	5	2	Chlorination
8/24/2002	9:30	6	1	9	26.4	7.95	39.7	NA	NA	NR	3.77	Flood		64.1	81.1	5	2	
8/25/2002	9:30	10	2	<1	20.2	7.98	41.8	NA	NA	NR	3.51	Flood	32	64.7	86.1	5	2	
8/26/2002	9:30	20	3	<1	25.6	7.94	41.6	NA	NA	NR	3.26	Flood	66	63.4	81.7	6	2	
8/27/2002	9:30	300	5	20	25.8	7.92	40.5	215	NA	NR	3.06	Flood	57	64.0	86.6	5	2	Chlorination
8/28/2002	9:30	100	<1	<1	25.0	7.90	35.0	NA	NA	NR	2.95	Flood	73	65.2	87.2	5	2	
8/29/2002	9:30	120	3	<1	28.0	7.93	31.5	NA	NA	NR	2.92	Flood	86	65.2	87.9	5	2	
8/30/2002	9:30	30	4	2	25.2	7.93	32.3	NA	NA	NR	2.95	Flood		66.2	87.5	5	2	
8/31/2002	7:40	40	1	1	20.1	7.92	30.3	NA	NA	NR	2.95	Flood	32	60.4	73.1	5	2	
9/1/2002	8:15	10	1	<1	19.8	7.78	30.9	NA	NA	NR	3.27	Ebb		57.0	67.1	5	2	
9/2/2002	9:30	<1	<1	<1	22.0	7.88	31.0	NA	NA	NR	3.40	Ebb	57	55.5	71.1	5	2	Chlorination
9/3/2002	9:10	250	10	<1	22.0	7.94	27.1	0	NA	NR	3.81	Ebb	25	60.0	70.0	5	2	
9/4/2002	8:45	600	30	16	25.7	8.00	48.8	5	NA	32.0	4.20	Flood	21	62.4	78.6	5	2	Chlorination
9/5/2002	9:20	300	10	2	24.6	7.94	50.5	2	NA	33.1	4.54	High Tide	15	64.6	74.4	5	2	
9/6/2002	9:03	300	5	3	25.5	7.82	51.1	104	NA	33.6	4.71	Flood	0	62.0	81.0	5	2	
9/7/2002	8:55	200	8	3	19.2	7.82	51.8	10	NA	34.0	4.51	Flood	0	58.0	64.0	5	2	
9/8/2002	8:50	500	18	<1	17.7	7.86	51.3	6	NA	33.7	4.04	Flood	0	55.0	60.0	5	2	
9/9/2002	8:40	70	7	<1	19.8	7.88	50.3	103	NA	33.1	3.29	Flood	0	57.1	64.8	5	2	
9/10/2002	8:05	400	<1	<1	20.2	7.92	49.5	NA	NA	32.4	2.13	Flood	50	58.2	69.7	5	2	Chlorination
9/11/2002	7:55	100	4	2	17.7	7.82	50.5	NA	NA	33.1	1.95	Flood	47	58.7	72.7	5	2	
9/12/2002	7:56	50	12	<1	18.1	7.85	49.7	0	NA	32.4	2.26	Flood		64.1	73.3	5	2	
9/13/2002	8:40	40	1	<1	26.9	7.92	5.0	7	NA	32.6	2.79	Flood	41	59.7	77.9	5	2	
9/14/2002	7:55	100	13	<1	17.9	7.91	48.2	0	NA	31.4	3.36	Ebb	20	56.6	60.6	4	1	
9/15/2002	7:55	200	6	4	17.5	7.68	46.6	NA	NA	30.2	3.86	Ebb	19	55.0	59.6	4	1	
9/16/2002	7:55	200	10	3	19.9	7.92	51.4	NA	NA	33.5	4.19	Flood		60.0	65.0	5	2	
9/17/2002	8:10	40	3	10	21.8	7.90	51.3	2	NA	33.8	4.38	Flood		64.4	75.3	5	2	
9/18/2002	8:09	20	3	4	27.9	7.02	45.3	1	NA	NR	4.41	Flood	12	68.9	86.3	5	2	
9/19/2002	8:52	20	<1	3	29.8	7.95	47.1	0	NA	30.8	4.64	Flood	13	66.7	85.7	5	2	
9/20/2002	8:53	100	1	<1	28.2	8.00	47.1	1	NA	30.8	4.67	Flood	11	64.9	84.1	5	2	
9/21/2002	9:53	10	<1	<1	20.3	7.93	47.0	1	NA	30.8	4.95	Flood	17	62.5	81.9	5	2	
9/22/2002	8:12	3	<1	<1	20.9	7.99	51.8	NA	NA	34.2	3.80	Flood	17	57.5	66.0	5	2	
9/23/2002	7:50	100	9	<1	23.6	7.67	46.7	1	NA	30.3	3.23	Flood	35	62.4	80.2	5	2	Chlorination
9/24/2002	8:20	20	<1	1	27.4	8.07	46.4	2	NA	30.2	3.54	Flood	54	64.0	84.2	6	3	
9/25/2002	8:15	30	1	<1	24.9	7.89	46.8	1	NA	30.5	3.31	Flood	57	63.0	71.0	6	2	
9/26/2002	8:20	100	30	60	22.6	8.41	5.1	7	NA	NR	3.27	Flood	32	67.0	71.0	5	2	Reverse Flow
9/27/2002	8:05	100	20	<1	18.0	8.26	42.9	4	NA	NR	3.12	Flood	26	57.9	62.4	5	2	Chlorination

Location: Discharge Vault (DV0)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
9/28/2002	9:10	30	13	20	18.3	8.03	48.2	4	NA	31.5	3.52	Flood	26	56.8	57.9	5	2	
9/29/2002	8:35	100	10	3	19.2	8.08	35.1	8	NA	NR	3.38	Flood	20	59.4	60.8	5	2	
9/30/2002	8:10	150	<1	<1	19.3	8.39	40.6	1	NA	NR	3.54	Ebb	26	59.4	63.3	5	2	Chlorination
10/1/2002	8:10	20	<1	1	22.3	8.35	40.1	0	NA	NR	3.85	Ebb	28	60.3	72.1	4	1	
10/2/2002	8:05	5	1	<1	21.0	8.50	41.0	NA	NA	NR	4.26	Ebb	0	59.9	62.4	4	1	
10/3/2002	8:10	20	1	<1	22.0	8.40	40.0	25	NA	NR	4.69	High Tide	0	59.6	67.6	4	1	
10/4/2002	8:15	8	<1	5	23.0	8.40	41.0	1	NA	NR	5.10	Flood	0	61.7	64.7	3	2	Chlorination
10/5/2002	8:08	10	1	<1	18.0	8.33	41.0	3	NA	NR	5.26	Flood	0	61.8	61.8	3	1	
10/6/2002	7:47	10	2	1	17.2	8.28	50.3	NA	NA	32.8	4.77	Flood	0	61.4	68.2	2	1	
10/7/2002	8:05	30	12	1	25.4	8.37	50.9	10	NA	33.4	4.65	Flood	0	62.5	81.7	4	2	Chlorination
10/8/2002	8:10	30	12	<1	26.0	8.50	51.0	NA	NA	33.0	4.18	Flood	0	62.4	83.6	4	2	
10/9/2002	8:10	7	<1	1	28.0	8.48	50.3	NA	NA	33.1	3.60	Flood	0	63.0	84.5	4	2	Chlorination
10/10/2002	8:10	4	<1	1	27.5	8.32	50.2	NA	NA	32.7	3.20	Flood	21	62.4	83.3	4	2	
10/11/2002	8:10	2	<1	1	27.2	8.28	50.3	NA	NA	33.0	3.07	Flood	22	60.5	79.0	4	2	Chlorination
10/12/2002	9:29	10	3	9	23.9	8.42	49.8	NA	NA	32.7	3.40	Flood	55					
10/13/2002	8:58	12	5	9	21.4	8.44	47.2	NA	NA	30.8	3.42	Ebb	49	64.0	72.0	4	2	
10/14/2002	9:15	10	2	2	25.2	8.28	46.6	NA	NA	30.3	3.61	Ebb	49	57.0	79.0	4	2	
10/15/2002	8:35	<1	<1	1	16.0	7.84	47.3	NA	NA	30.8	4.25	Ebb	44	58.0	79.0	4	2	Chlorination

Location: Discharge Vault (DV10)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
7/16/2002	11:38	15	4	<1	26.9	7.32	47.0	2	NA	30.7	2.08	Flood		67.0	84.6			
7/17/2002	11:07	10	3	<1	29.4	8.21	48.4	125	NA	34.4	1.62	Flood		67.4	86.1			
7/18/2002	11:03	18	11	1	22.9	8.25	47.1	128	NA	30.8	1.71	Flood	121	62.5	75.8	4	1	
7/19/2002	11:10	11	7	<1	24.2	8.13	51.8	8	NA	34.1	2.07	Ebb	64	65.0	77.0	4	1	
7/20/2002	9:50	18	9	<1	22.0	8.15	50.7	3	NA	33.3	3.09	Ebb	64	66.0	71.0	4	1	
7/21/2002	9:49	<1	<1	<1	22.5	8.14	47.0	100	NA	30.7	3.59	Ebb	63	66.0	72.0	4	1	
7/22/2002	9:05	10	2	1	25.2	8.10	50.3	2	NA	33.0	3.73	Flood	133	63.0	78.0	4	1	Chlorination
7/23/2002	9:45	12	7	<1	21.9	7.93	49.6	1	NA	32.5	3.84	Flood	205	54.4	65.3	4	1	Chlorination
7/24/2002	9:15	11	7	<1	22.6	8.01	49.0	2	NA	32.2	3.27	Flood	51	58.9	64.6	4	1	Chlorination
7/25/2002	8:45	2	<1	<1	20.7	7.98	50.3	3	NA	33.0	2.27	Flood	52	59.4	70.2	5	2	Chlorination
7/26/2002	9:04	40	10	<1	28.0	8.00	46.3	7	NA	30.2	2.15	Flood	198	63.0	85.0	6	3	Chlorination
7/27/2002	9:44	5	3	<1	32.1	7.97	49.2	201	NA	32.2	2.42	Flood	61	65.0	92.0	6	3	
7/28/2002	9:37	3	<1	<1	26.6	8.02	49.6	1	NA	32.5	2.02	Flood	49	67.0	80.0	6	3	
7/29/2002	9:30	3	2	<1	25.5	8.04	50.4	3	NA	33.1	1.72	Flood	80	67.4	79.6	6	3	
7/30/2002	9:25	<1	<1	<1	22.9	8.05	48.3	8	NA	31.7	1.70	Flood	77	71.0	72.9	6	3	Chlorination
7/31/2002	9:00	10	3	2	26.3	7.83	49.1	NA	NA	32.1	1.77	Flood	141	63.0	75.5	6	2	
8/1/2002	9:10	<1	<1	<1	22.0	7.98	51.1	0	NA	33.6	2.13	Flood	0	63.0	72.0	6	2	Chlorination
8/2/2002	9:40	420	8	12	23.6	8.00	51.3	2	NA	33.7	2.47	Ebb	0	64.8	80.0	5	2	
8/3/2002	8:55	30	4	<1	24.7	7.97	51.1	8	NA	33.7	2.90	Ebb	0	63.1	77.4	5	2	
8/4/2002	9:35	40	20	2	17.9	8.02	51.0	1	NA	33.4	3.14	Ebb	0	64.4	73.0	5	2	Reverse Flow
8/5/2002	9:15	120	9	4	22.8	7.72	20.7	4	NA	NR	3.53	Ebb	92	62.0	79.5	5	2	Reverse Flow
8/6/2002	9:20	20	11	8	19.8	7.95	47.1	103	NA	30.7	3.80	Flood	57	63.9	75.8	6	2	Reverse Flow
8/7/2002	8:30	800	110	33	22.7	7.85	26.6	12	NA	NR	3.53	Flood	61	63.8	81.2	6	3	Reverse Flow
8/8/2002	8:50	50	10	15	20.8	7.97	34.1	NA	NA	NR	3.52	Flood	62	63.1	85.9	7	3	Reverse Flow
8/9/2002	8:45	40	19	7	19.9	7.81	46.3	NA	NA	30.1	2.98	Flood	65	63.0	85.0	6	2	Reverse Flow
8/10/2002	9:25	330	180	40	24.5	8.08	8.0	NA	NA	NR	3.23	Flood	68	63.0	74.0	7	3	Reverse Flow
8/11/2002	8:30	80	7	5	19.6	7.93	47.6	NA	NA	31.1	1.47	Flood	70	55.0	65.0	6	2	
8/12/2002	8:45	100	5	2	23.6	7.98	45.6	5	NA	NR	1.38	Flood	157	58.0	74.0	7	2	
8/13/2002	9:35	120	4	2	27.8	7.95	47.9	4	NA	31.4	1.99	Flood	64	63.4	76.5	7	2	
8/14/2002	8:05	110	1	2	25.3	7.94	48.0	0	NA	31.4	1.39	Flood	67	65.1	77.6	7	3	
8/15/2002	9:50	10	2	2	28.6	7.94	48.4	NA	NA	31.8	2.17	Flood	69	60.2	87.9	7	3	
8/16/2002	9:40	10	4	1	28.2	7.96	49.7	3	NA	33.7	2.53	Ebb	130	61.7	84.7	5	2	
8/17/2002	9:50	80	5	2	26.4	7.86	46.5	240	NA	30.3	3.00	Ebb	117	62.3	83.0	5	2	
8/18/2002	9:56	120	1	2	20.8	8.07	41.5	1	NA	NR	3.46	Ebb	116	63.0	72.0	5	2	
8/19/2002	9:50	20	4	<1	27.6	7.94	40.7	0	NA	NR	3.90	Ebb	94	64.6	85.5	5	2	Chlorination
8/20/2002	9:25	3	1	1	27.3	7.94	41.4	1	NA	NR	4.19	Flood		65.0	85.0	5	2	
8/21/2002	9:45	20	<1	2	25.0	7.95	41.9	0	NA	NR	4.30	Flood	98	64.2	80.0	5	2	

Location: Discharge Vault (DV10)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
8/22/2002	9:43	<1	<1	<1	26.0	7.93	42.5	2	NA	NR	4.28	Flood		65.0	82.0	5	2	
8/23/2002	9:45	10	2	<1	NA	NA	NA	NA	NA	NA	4.16	Flood	90	61.5	83.7	5	2	Chlorination
8/24/2002	9:38	11	3	7	26.1	7.97	40.7	NA	NA	NR	3.91	Flood		64.1	81.1	5	2	
8/25/2002	9:35	10	1	2	20.4	7.99	41.4	NA	NA	NR	3.58	Flood	32	64.7	86.1	5	2	
8/26/2002	9:40	30	<1	1	26.0	7.93	41.6	NA	NA	NR	3.41	Flood	66	63.4	81.7	6	2	
8/27/2002	9:45	300	3	10	26.5	7.97	40.6	NA	NA	NR	3.27	Flood	57	64.0	86.6	5	2	Chlorination
8/28/2002	9:45	200	<1	1	26.0	7.90	35.0	NA	NA	NR	3.12	Flood	73	65.2	87.2	5	2	
8/29/2002	9:45	110	1	<1	30.1	7.93	31.7	NA	NA	NR	3.04	Flood	86	65.2	87.9	5	2	
8/30/2002	9:45	20	1	<1	25.3	7.94	32.6	NA	NA	NR	3.03	Flood		66.2	87.5	5	2	
8/31/2002	7:50	50	<1	<1	20.3	8.00	30.3	NA	NA	NR	2.95	Flood	32	60.4	73.1	5	2	
9/1/2002	8:30	10	<1	<1	19.3	7.94	31.2	NA	NA	NR	3.25	Ebb		57.0	67.1	5	2	
9/2/2002	9:40	<1	<1	<1	22.0	7.90	31.2	NA	NA	NR	3.36	Ebb	57	55.5	71.1	5	2	Chlorination
9/3/2002	9:15	100	5	<1	21.9	7.98	28.1	0	NA	NR	3.79	Ebb	25	60.0	70.0	5	2	
9/4/2002	9:03	<1	<1	<1	25.6	7.99	49.3	8	NA	32.4	4.19	Ebb	21	62.4	78.6	5	2	Chlorination
9/5/2002	9:25	500	2	<1	24.9	8.02	50.4	3	NA	33.2	4.53	Ebb	15	64.6	74.4	5	2	
9/6/2002	9:10	80	2	2	27.4	7.86	51.2	105	NA	33.7	4.74	Flood	0	62.0	81.0	5	2	
9/7/2002	9:00	40	6	2	19.5	7.90	51.8	10	NA	34.0	4.58	Flood	0	58.0	64.0	5	2	
9/8/2002	8:55	90	8	1	17.8	7.94	51.9	4	NA	34.0	4.15	Flood	0	55.0	60.0	5	2	
9/9/2002	8:45	120	20	20	NA	NA	NA	NA	NA	NA	3.41	Flood	0	57.1	64.8	5	2	
9/10/2002	8:15	180	<1	<1	20.1	7.96	50.8	NA	NA	33.3	2.32	Flood	50	58.2	69.7	5	2	Chlorination
9/11/2002	9:30	100	2	<1	20.3	7.84	51.0	NA	NA	33.6	3.30	Flood	47	58.7	72.7	5	2	
9/12/2002	8:02	20	3	3	19.6	7.97	51.6	9	NA	33.9	2.28	Flood		64.1	73.3	5	2	
9/13/2002	8:55	50	1	1	26.8	7.93	4.0	1	NA	31.8	2.82	Flood	41	59.7	77.9	5	2	
9/14/2002	8:05	50	2	1	17.5	7.95	49.3	0	NA	32.2	3.33	Ebb	20	56.6	60.6	4	1	
9/15/2002	8:05	100	1	5	18.1	7.80	51.6	NA	NA	33.8	3.84	Ebb	19	55.0	59.6	4	1	
9/16/2002	8:05	50	2	1	19.6	7.97	51.6	NA	NA	34.0	4.19	High Tide		60.0	65.0	5	2	
9/17/2002	8:20	2	<1	<1	22.0	7.97	51.3	3	NA	33.8	4.40	Flood		64.4	75.3	5	2	
9/18/2002	8:15	30	3	6	28.0	7.90	45.7	1	NA	NR	4.44	Flood	12	68.9	86.3	5	2	
9/19/2002	8:56	50	4	7	30.1	7.97	47.0	1	NA	30.7	4.66	Flood	13	66.7	85.7	5	2	
9/20/2002	9:00	100	<1	<1	28.8	8.00	47.3	1	NA	30.9	4.71	Flood	11	64.9	84.1	5	2	
9/21/2002	10:03	10	<1	1	20.6	8.00	46.9	1	NA	30.6	4.95	Ebb	17	62.5	81.9	5	2	
9/22/2002	9:33	10	2	<1	23.0	7.96	50.7	NA	NA	33.5	4.89	Flood	17	57.5	66.0	5	2	
9/23/2002	8:00	20	2	<1	24.5	7.98	46.8	2	NA	30.5	3.41	Flood	35	62.4	80.2	5	2	Chlorination
9/24/2002	8:45	10	<1	<1	28.6	8.07	46.7	4	NA	30.5	3.93	Flood	54	64.0	84.2	6	3	
9/25/2002	8:25	10	1	1	23.7	7.97	47.5	2	NA	31.1	3.45	Flood	57	63.0	71.0	6	2	
9/26/2002	8:40	500	4	<1	22.0	7.93	43.8	1	NA	NR	3.50	Flood	32	67.0	71.0	5	2	Reverse Flow
9/27/2002	8:20	80	10	<1	18.9	8.26	43.0	103	NA	NR	3.24	Flood	26	57.9	62.4	5	2	Chlorination

Location: Discharge Vault (DV10)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
9/28/2002	9:15	20	10	5	18.0	8.29	49.6	7	NA	32.3	3.55	Flood	26	56.8	57.9	5	2	
9/29/2002	8:45	50	4	1	19.0	8.42	36.3	22	NA	NR	3.39	Flood	20	59.4	60.8	5	2	
9/30/2002	8:20	<1	<1	<1	19.2	8.42	40.6	1	NA	NR	3.53	Ebb	26	59.4	63.3	5	2	Chlorination
10/1/2002	8:15	10	3	<1	21.8	8.40	40.9	0	NA	NR	3.83	Ebb	28	60.3	72.1	4	1	
10/2/2002	8:10	20	2	<1	21.0	8.50	41.0	4	NA	NR	4.25	Ebb	0	59.9	62.4	4	1	
10/3/2002	8:20	10	1	<1	24.0	8.50	41.0	1	NA	NR	4.69	Ebb	0	59.6	67.6	4	1	
10/4/2002	8:15	4	<1	<1	23.0	8.50	41.0	1	NA	NR	5.10	Flood	0	61.7	64.7	3	2	Chlorination
10/5/2002	8:11	10	1	<1	18.1	8.30	40.9	3	NA	NR	5.26	Flood	0	61.8	61.8	3	1	
10/6/2002	7:53	8	2	1	17.8	8.32	50.9	NA	NA	33.3	4.87	Flood	0	61.4	68.2	2	1	
10/7/2002	8:20	50	10	3	25.8	8.45	50.9	10	NA	33.5	4.97	Flood	0	62.5	81.7	4	2	Chlorination
10/8/2002	8:20	20	10	2	27.0	8.50	51.0	NA	NA	34.0	4.40	Flood	0	62.4	83.6	4	2	
10/9/2002	8:20	5	<1	<1	28.9	8.49	51.4	NA	NA	33.9	3.79	Flood	0	63.0	84.5	4	2	Chlorination
10/10/2002	8:20	10	5	1	28.0	8.38	50.8	NA	NA	33.5	3.33	Flood	21	62.4	83.3	4	2	
10/11/2002	8:20	1	<1	5	28.4	8.35	50.9	NA	NA	33.5	3.14	Flood	22	60.5	79.0	4	2	Chlorination
10/12/2002	9:15	5	1	<1	23.3	8.40	51.4	NA	NA	34.1	3.34	Flood	55					
10/13/2002	8:38	11	3	2	21.4	8.43	48.9	NA	NA	32.0	3.48	Ebb	49	64.0	72.0	4	2	
10/14/2002	8:50	8	1	<1	26.6	8.27	47.6	NA	NA	31.2	3.78	Ebb	49	57.0	79.0	4	2	
10/15/2002	8:45	<1	<1	<1	24.8	8.30	49.6	NA	NA	32.6	4.19	Ebb	44	58.0	79.0	4	2	Chlorination

Location: Discharge Vault (DV30)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
9/18/2002	10:10	<1	<1	<1	29.1	7.90	44.9	6	NA	NR	4.24	Ebb	12	68.9	86.3	5	2	
9/19/2002	8:17	3	<1	2	29.2	7.95	46.3	10	NA	30.1	4.44	Flood	13	66.7	85.7	5	2	
9/20/2002	8:20	<1	<1	<1	27.4	8.01	46.0	18	NA	30.0	4.33	Flood	11	64.9	84.1	5	2	
9/21/2002	10:17	10	<1	1	27.9	7.85	51.7	0	NA	34.1	4.92	Ebb	17	62.5	81.9	5	2	
9/24/2002†	9:10	11	2	1	27.7	8.08	46.8	4	NA	30.5	4.28	Flood	54	64.0	84.2	6	3	
9/25/2002	8:50	40	7	<1	24.5	7.96	47.7	1	NA	31.3	3.79	Flood	57	63.0	71.0	6	2	
9/28/2002	9:15	10	5	<1	17.7	8.36	50.3	7	NA	32.9	3.55	Flood	26	56.8	57.9	5	2	
9/29/2002	8:55	10	2	<1	18.7	8.46	36.6	16	NA	NR	3.41	Flood	20	59.4	60.8	5	2	
9/30/2002	8:30	<1	<1	<1	18.4	8.42	41.4	101	NA	NR	3.52	Ebb	26	59.4	63.3	5	2	Chlorination
10/1/2002	8:40	10	2	<1	20.7	8.47	41.2	1	NA	NR	3.74	Ebb	28	60.3	72.1	4	1	
10/2/2002	8:15	2	<1	<1	20.0	8.50	41.0	NA	NA	NR	4.24	Ebb	0	59.9	62.4	4	1	
10/3/2002	8:30	10	2	5	22.0	8.50	41.0	1	NA	NR	4.67	Ebb	0	59.6	67.6	4	1	
10/4/2002	8:30	<1	<1	<1	23.0	8.50	41.0	1	NA	NR	5.14	Flood	0	61.7	64.7	3	2	Chlorination
10/5/2002	8:16	20	<1	<1	18.2	8.46	41.2	0	NA	NR	5.31	Flood	0	61.8	61.8	3	1	
10/6/2002	8:04	10	1	<1	18.0	8.26	50.8	NA	NA	33.2	5.06	Flood	0	61.4	68.2	2	1	
10/7/2002	8:35	20	2	1	24.6	8.53	51.4	10	NA	33.9	5.26	Flood	0	62.5	81.7	4	2	Chlorination
10/8/2002	8:30	9	4	<1	26.0	8.50	51.0	NA	NA	34.0	4.62	Flood	0	62.4	83.6	4	2	
10/9/2002	8:30	7	<1	1	29.0	8.48	50.9	NA	NA	33.5	3.99	Flood	0	63.0	84.5	4	2	Chlorination
10/10/2002	8:30	1	<1	<1	29.7	8.41	51.1	NA	NA	33.6	3.47	Flood	21	62.4	83.3	4	2	
10/11/2002	8:30	<1	<1	3	27.5	8.36	50.9	NA	NA	33.5	3.21	Flood	22	60.5	79.0	4	2	Chlorination
10/12/2002	8:50	5	1	<1	23.2	8.35	51.2	NA	NA	33.7	3.28	Flood	55					
10/13/2002	8:20	5	<1	1	20.9	8.39	49.2	NA	NA	32.0	3.55	Ebb	49	64.0	72.0	4	2	
10/14/2002	8:30	4	<1	<1	25.6	8.14	47.9	NA	NA	31.3	3.89	Ebb	49	57.0	79.0	4	2	
10/15/2002	8:55	<1	<1	<1	25.2	8.32	49.3	NA	NA	32.5	4.12	Ebb	44	58.0	79.0	4	2	Chlorination

Location: General Retention Basin (GP)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
7/16/2002	11:50	220	170	42	29.2	8.52	3.8	126	NA	1.9	2.40	Flood		67.0	84.6			
7/17/2002	11:30	300	150	38	28.5	8.61	3.6	9	6.16	1.8	1.83	Flood		67.4	86.1			
7/18/2002	11:17	300	130	25	28.2	8.52	3.0	23	4.47	1.4	1.77	Flood	121	62.5	75.8	4	1	
7/19/2002	11:39	210	130	45	28.3	8.44	2.6	18	4.66	1.2	2.04	Flood	64	65.0	77.0	4	1	
7/20/2002	8:30	50	30	10	27.6	7.59	2.8	10	1.20	1.3	3.47	Ebb	64	66.0	71.0	4	1	
7/21/2002	9:00	**1400**	**700**	2	26.4	7.15	3.0	13	2.22	1.5	3.69	Flood	63	66.0	72.0	4	1	
7/22/2002	7:50	800	40	40	26.7	8.26	3.2	30	6.47	1.5	2.98	Flood	133	63.0	78.0	4	1	Chlorination
7/23/2002	8:55	100	50	50	27.8	7.34	2.7	15	2.07	1.3	3.41	Flood	205	54.4	65.3	4	1	Chlorination
7/24/2002	8:35	**1100**	120	50	27.4	7.57	2.3	20	2.85	1.1	2.63	Flood	51	58.9	64.6	4	1	Chlorination
7/25/2002	8:15	300	150	12	28.6	8.34	2.3	12	5.14	1.1	1.70	Flood	52	59.4	70.2	5	2	Chlorination
7/26/2002	8:10	50	40	3	29.7	8.13	2.5	8	4.25	1.2	1.14	Flood	198	63.0	85.0	6	3	Chlorination
7/27/2002	8:34	90	70	4	29.8	7.99	2.3	13	3.35	1.0	1.25	Flood	61	65.0	92.0	6	3	
7/28/2002	8:35	100	70	<1	29.6	8.02	2.1	10	3.24	1.0	1.10	Flood	49	67.0	80.0	6	3	
7/29/2002	8:30	120	20	13	28.5	8.06	1.4	13	3.86	0.6	1.10	Flood	80	67.4	79.6	6	3	
7/30/2002	8:40	600	70	15	27.4	8.38	2.3	10	4.15	1.1	1.39	Flood	77	71.0	72.9	6	3	Chlorination
7/31/2002	8:15	**13000**	**500**	**570**	26.9	8.11	2.2	NA	4.15	1.0	1.69	Flood	141	63.0	75.5	6	2	
8/1/2002	10:05	<1	<1	<1	26.3	8.17	2.5	14	4.94	1.2	2.27	Flood	0	63.0	72.0	6	2	Chlorination
8/2/2002	8:20	<1	<1	<1	26.7	7.69	2.5	15	4.40	1.2	2.58	Ebb	0	64.8	80.0	5	2	
8/3/2002	8:05	**6800**	**900**	**180**	25.5	7.41	2.4	18	2.82	1.2	3.00	Ebb	0	63.1	77.4	5	2	
8/4/2002	8:40	**6500**	**910**	51	25.2	7.47	2.6	22	2.60	1.2	3.28	Ebb	0	64.4	73.0	5	2	Reverse Flow
8/5/2002	8:23	500	38	7	25.7	7.59	2.5	6	1.70	1.6	3.52	Flood	92	62.0	79.5	5	2	Reverse Flow
8/6/2002	8:30	**3300**	**940**	53	24.9	7.70	2.5	10	5.45	1.2	3.63	Flood	57	63.9	75.8	6	2	Reverse Flow
8/7/2002	7:55	1800	70	35	26.0	7.83	4.2	10	3.58	2.1	3.06	Flood	61	63.8	81.2	6	3	Reverse Flow
8/8/2002	8:05	220	50	11	26.0	8.29	3.8	NA	5.50	1.9	2.75	Flood	62	63.1	85.9	7	3	Reverse Flow
8/9/2002	8:05	790	220	62	26.6	8.52	4.0	NA	6.47	2.0	2.12	Flood	65	63.0	85.0	6	2	Reverse Flow
8/10/2002	7:55	**2300**	**500**	90	26.5	8.67	4.5	NA	6.94	2.4	1.24	Flood	68	63.0	74.0	7	3	Reverse Flow
8/11/2002	7:50	300	150	5	26.7	8.14	3.5	NA	5.91	1.7	0.66	Flood	70	55.0	65.0	6	2	
8/12/2002	8:00	200	50	33	26.6	8.19	4.1	10	4.27	2.1	0.66	Flood	157	58.0	74.0	7	2	
8/13/2002	8:10	90	60	22	26.7	7.96	3.5	11	4.04	1.8	0.93	Flood	64	63.4	76.5	7	2	
8/14/2002	7:32	200	50	40	22.3	7.94	3.4	NA	4.34	1.7	1.42	Ebb	67	65.1	77.6	7	3	
8/15/2002	11:30	110	30	30	28.3	8.25	3.3	9	7.34	1.6	2.98	Flood	69	60.2	87.9	7	3	
8/16/2002	10:55	110	15	40	27.8	8.30	3.1	14	5.89	1.5	2.58	Flood	130	61.7	84.7	5	2	
8/17/2002	11:30	6100	32	30	25.0	8.31	3.1	11	NA	1.5	2.71	Ebb	117	62.3	83.0	5	2	
8/18/2002	11:00	400	200	40	21.2	8.37	9.9	13	9.37	5.0	3.04	Ebb	116	63.0	72.0	5	2	
8/19/2002	11:30	200	110	8	24.2	8.17	15.2	11	10.17	8.8	3.15	Ebb	94	64.6	85.5	5	2	Chlorination
8/20/2002	11:45	100	10	4	23.2	8.18	18.7	10	NA	11.3	3.33	Ebb		65.0	85.0	5	2	
8/21/2002	11:15	100	10	2	22.4	8.25	21.8	8	NA	13.3	3.95	Ebb	98	64.2	80.0	5	2	

Location: General Retention Basin (GP)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
8/22/2002	11:20	1300	20	30	25.6	8.39	21.7	10	NA	13.1	4.18	Ebb		65.0	82.0	5	2	
8/23/2002	11:00	5000	50	40	24.5	8.65	19.3	10	NA	11.6	4.45	Ebb	90	61.5	83.7	5	2	Chlorination
8/24/2002	10:15	200	13	30	24.9	8.35	18.7	NA	NA	11.0	4.28	Flood		64.1	81.1	5	2	
8/25/2002	10:15	200	30	30	23.7	8.41	23.7	NA	NA	14.4	4.10	Flood	32	64.7	86.1	5	2	
8/26/2002	10:25	2000	20	50	25.1	8.30	25.2	NA	NA	15.5	4.00	Flood	66	63.4	81.7	6	2	
8/27/2002	11:24	7000	20	**210**	24.0	8.45	25.5	14	10.27	15.7	4.35	Flood	57	64.0	86.6	5	2	Chlorination
8/28/2002	10:55	8000	20	50	23.0	8.30	21.0	NA	9.30	12.0	3.88	Flood	73	65.2	87.2	5	2	
8/29/2002	11:05	3300	25	100	25.2	8.36	16.9	NA	8.00	9.9	3.75	Flood	86	65.2	87.9	5	2	
8/30/2002	9:20	900	20	20	24.2	8.30	13.5	NA	7.82	7.7	2.90	Flood		66.2	87.5	5	2	
8/31/2002	7:30	7000	10	60	22.3	8.21	12.5	NA	6.12	7.1	2.94	Flood	32	60.4	73.1	5	2	
9/1/2002	8:00	7000	50	48	22.9	7.97	11.8	NA	7.42	6.7	3.27	Ebb		57.0	67.1	5	2	
9/2/2002	9:15	5000	90	**700**	24.9	8.41	10.1	NA	6.81	5.7	3.45	Ebb	57	55.5	71.1	5	2	Chlorination
9/3/2002	8:40	5300	30	40	25.0	8.23	10.4	35	8.00	4.9	3.88	Ebb	25	60.0	70.0	5	2	
9/4/2002	9:55	9000	80	60	25.1	8.28	12.5	10	7.48	7.1	3.96	Ebb	21	62.4	78.6	5	2	Chlorination
9/5/2002	9:10	5000	50	30	25.3	8.27	12.5	7	7.87	7.2	4.53	Flood	15	64.6	74.4	5	2	
9/6/2002	8:55	5000	120	50	24.1	8.26	9.6	6	6.57	5.3	4.62	Flood	0	62.0	81.0	5	2	
9/7/2002	8:45	**32000**	50	30	24.9	8.58	10.6	NA	NA	6.0	4.34	Flood	0	58.0	64.0	5	2	
9/8/2002	8:40	3000	10	12	24.2	8.31	11.1	11	7.99	6.6	3.83	Flood	0	55.0	60.0	5	2	
9/9/2002	8:30	900	13	28	23.8	8.32	9.2	6	6.55	5.1	3.06	Flood	0	57.1	64.8	5	2	
9/10/2002	7:45	1300	12	11	22.4	8.31	9.3	NA	6.81	5.1	1.79	Flood	50	58.2	69.7	5	2	Chlorination
9/11/2002	7:35	3000	18	20	25.0	8.17	8.7	NA	6.04	4.7	1.76	Flood	47	58.7	72.7	5	2	
9/12/2002	7:37	500	170	**120**	20.7	8.20	8.1	6	5.90	4.3	2.21	Flood		64.1	73.3	5	2	
9/13/2002	7:55	900	50	50	24.0	8.34	7.5	16	6.74	4.0	2.78	Ebb	41	59.7	77.9	5	2	
9/14/2002	7:30	2000	34	47	23.5	8.20	6.6	27	6.92	3.5	3.43	Ebb	20	56.6	60.6	4	1	
9/15/2002	7:35	3000	21	25	23.4	8.27	6.4	NA	6.65	3.4	3.89	Ebb	19	55.0	59.6	4	1	
9/16/2002	7:35	8000	180	**110**	21.7	8.37	5.8	NA	7.05	3.0	4.15	Flood		60.0	65.0	5	2	
9/17/2002	8:50	800	13	90	23.4	8.21	5.2	21	7.21	2.7	4.39	Ebb		64.4	75.3	5	2	
9/18/2002	8:48	3000	70	30	23.5	8.18	5.7	6	6.82	3.0	4.57	Flood	12	68.9	86.3	5	2	
9/19/2002	9:27	200	40	28	24.1	8.20	6.3	7	8.15	3.3	4.70	Ebb	13	66.7	85.7	5	2	
9/20/2002	9:33	200	50	28	23.6	8.50	6.2	7	8.66	3.3	4.83	Flood	11	64.9	84.1	5	2	
9/21/2002	8:53	30	10	40	23.8	8.40	5.7	8	8.63	3.0	4.61	Flood	17	62.5	81.9	5	2	
9/22/2002	8:32	200	5	30	23.6	8.60	6.2	NA	9.07	3.3	4.13	Flood	17	57.5	66.0	5	2	
9/23/2002	8:45	10	6	20	24.6	8.64	5.7	12	9.86	2.9	4.15	Flood	35	62.4	80.2	5	2	Chlorination
9/24/2002	8:10	1600	20	30	25.0	8.12	5.2	13	10.00	2.9	3.38	Flood	54	64.0	84.2	6	3	
9/25/2002	8:00	500	5	23	25.1	8.10	5.3	9	8.59	2.9	3.10	Flood	57	63.0	71.0	6	2	
9/26/2002	8:05	50	10	50	24.5	8.48	4.3	6	7.24	2.1	3.11	Flood	32	67.0	71.0	5	2	Reverse Flow
9/27/2002	10:30	1200	40	12	24.7	8.92	4.1	11	7.87	2.1	4.32	Flood	26	57.9	62.4	5	2	Chlorination

Location: General Retention Basin (GP)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
9/28/2002	9:00	700	130	**510**	23.1	8.90	5.6	8	6.53	2.9	3.47	Flood	26	56.8	57.9	5	2	
9/29/2002	8:25	120	15	30	23.1	8.79	3.9	16	7.14	1.9	3.36	Flood	20	59.4	60.8	5	2	
9/30/2002	7:55	200	20	80	22.7	8.92	4.0	24	7.04	2.0	3.56	Ebb	26	59.4	63.3	5	2	Chlorination
10/1/2002	7:55	30	5	73	22.4	9.12	4.4	4	6.73	2.4	3.88	Ebb	28	60.3	72.1	4	1	
10/2/2002	7:55	200	8	70	21.0	9.00	3.6	40	NA	2.0	4.27	Ebb	0	59.9	62.4	4	1	
10/3/2002	7:55	1200	30	35	21.0	9.20	4.5	1	6.10	2.0	4.67	Flood	0	59.6	67.6	4	1	
10/4/2002	8:05	300	21	53	21.0	9.20	4.6	1	5.50	3.0	5.04	Flood	0	61.7	64.7	3	2	Chlorination
10/5/2002	7:48	80	10	19	21.5	8.87	5.1	6	5.98	2.6	4.99	Flood	0	61.8	61.8	3	1	
10/6/2002	7:35	100	26	73	20.9	8.97	6.1	NA	6.77	3.2	4.44	Flood	0	61.4	68.2	2	1	
10/7/2002	7:50	80	22	55	NA	NA	NA	NA	NA		4.30	Flood	0	62.5	81.7	4	2	Chlorination
10/8/2002	8:00	**1800**	360	80	22.0	9.00	6.2	NA	7.00	3.0	3.96	Flood	0	62.4	83.6	4	2	
10/9/2002	8:00	110	31	30	23.8	8.96	6.2	NA	7.61	3.3	3.41	Flood	0	63.0	84.5	4	2	Chlorination
10/10/2002	8:00	200	14	23	NA	NA	NA	NA	NA		3.07	Flood	21	62.4	83.3	4	2	
10/11/2002	8:00	150	23	91	NA	NA	NA	NA	NA		3.01	Flood	22	60.5	79.0	4	2	Chlorination
10/12/2002	8:00	400	130	**170**	NA	NA	NA	NA	NA		3.23	Flood	55					
10/13/2002	9:40	90	20	**120**	NA	NA	NA	NA	NA		3.31	Ebb	49	64.0	72.0	4	2	
10/14/2002	8:00	150	40	**110**	NA	NA	NA	NA	NA		4.04	Ebb	49	57.0	79.0	4	2	
10/15/2002	8:00	300	130	**240**	20.9	8.73	4.7	NA	7.30	2.4	4.42	Ebb	44	58.0	79.0	4	2	Chlorination

Location: Heat Treatment Opposite Flow (OF)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
8/6/2002	9:55	100	2	3	25.5	7.94	50.9	10	4.89	33.5	3.74	Ebb	57	63.9	75.8	6	2	Reverse Flow
8/7/2002	9:08	200	5	3	28.3	7.90	49.9	10	5.04	32.9	3.89	Flood	61	63.8	81.2	6	3	Reverse Flow
8/8/2002	9:15	100	5	3	29.0	7.92	51.5	NA	5.15	34.0	3.84	Flood	62	63.1	85.9	7	3	Reverse Flow
8/9/2002	9:10	20	12	2	28.8	7.77	51.4	NA	4.72	33.9	3.44	Flood	65	63.0	85.0	6	2	Reverse Flow
8/10/2002	9:50	20	4	4	26.2	7.95	52.4	NA	4.90	34.8	3.69	Flood	68	63.0	74.0	7	3	Reverse Flow
9/26/2002	9:40	20	<1	<1	22.2	8.00	43.6	4	7.82	28.2	4.16	Flood	32	67.0	71.0	5	2	Reverse Flow

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
7/16/2002	10:30	<1	<1	<1	21.3	7.57	47.4	110	7.38	31.8	1.26	Flood		67.0	84.6			
7/17/2002	10:03	2	<1	<1	20.5	8.22	48.6	0	6.83	31.8	1.22	Flood		67.4	86.1			
7/18/2002	10:00	<1	<1	<1	NA	8.18	51.6	2	6.30	33.5	1.72	Ebb	121	62.5	75.8	4	1	
7/19/2002	10:10	11	2	1	19.4	8.07	52.2	4	6.33	34.4	2.32	Ebb	64	65.0	77.0	4	1	
7/20/2002	9:20	12	5	<1	20.0	8.16	51.3	2	5.63	33.7	3.28	Ebb	64	66.0	71.0	4	1	
7/21/2002	9:30	3	<1	<1	20.0	7.98	47.5	0	6.16	31.0	3.66	Ebb	63	66.0	72.0	4	1	
7/22/2002	8:20	4	1	<1	18.4	8.09	51.2	1	6.50	33.6	3.36	Flood	133	63.0	78.0	4	1	Chlorination
7/23/2002	9:55	<1	<1	1	14.1	8.03	51.1	21	6.89	33.0	3.89	Flood	205	54.4	65.3	4	1	Chlorination
7/24/2002	9:50	1	1	2	14.0	8.05	51.2	64	7.10	33.3	3.68	Flood	51	58.9	64.6	4	1	Chlorination
7/25/2002	9:05	6	<1	1	14.8	8.07	52.0	NA	6.64	33.9	2.63	Flood	52	59.4	70.2	5	2	Chlorination
7/26/2002	8:30	5	<1	<1	16.1	8.00	50.7	NA	7.83	33.0	1.51	Flood	198	63.0	85.0	6	3	Chlorination
7/27/2002	9:05	2	<1	<1	19.1	8.00	50.3	4	6.47	33.0	1.75	Flood	61	65.0	92.0	6	3	
7/28/2002	9:05	<1	<1	<1	20.6	8.01	50.9	10	6.28	33.4	1.50	Flood	49	67.0	80.0	6	3	
7/29/2002	8:50	5	1	<1	19.0	8.04	51.4	3	6.91	33.6	1.28	Flood	80	67.4	79.6	6	3	
7/30/2002	9:54	1	<1	<1	16.0	8.07	49.9	11	6.68	32.5	1.98	Flood	77	71.0	72.9	6	3	Chlorination
7/31/2002	8:30	6	1	<1	17.9	7.82	52.4	NA	6.80	34.4	1.70	Flood	141	63.0	75.5	6	2	
8/1/2002	8:45	21	2	2	15.9	7.91	51.4	NA	7.41	33.4	2.12	Ebb	0	63.0	72.0	6	2	Chlorination
8/2/2002	9:00	2	1	<1	17.8	7.99	51.8	2	6.98	33.9	2.50	Ebb	0	64.8	80.0	5	2	
8/3/2002	8:25	20	5	<1	20.0	7.97	51.6	5	6.11	34.2	2.96	Ebb	0	63.1	77.4	5	2	
8/4/2002	8:55	30	20	5	18.5	7.98	51.4	2	5.19	33.7	3.25	Ebb	0	64.4	73.0	5	2	Reverse Flow
8/5/2002	8:36	30	1	5	17.4	7.86	51.4	0	5.47	34.1	3.54	Flood	92	62.0	79.5	5	2	Reverse Flow
8/6/2002	8:45	40	5	4	18.4	7.92	50.4	10	4.82	34.0	3.71	Flood	57	63.9	75.8	6	2	Reverse Flow
8/7/2002	8:10	30	5	<1	18.7	7.97	50.3	10	5.46	33.0	3.28	Flood	61	63.8	81.2	6	3	Reverse Flow
8/8/2002	8:30	20	2	2	18.0	7.95	51.8	NA	5.28	33.9‡	3.20	Flood	62	63.1	85.9	7	3	Reverse Flow
8/9/2002	8:15	15	7	2	18.9	7.82	51.6	NA	5.19	34.2‡	2.35	Flood	65	63.0	85.0	6	2	Reverse Flow
8/10/2002	8:15	30	11	3	18.8	7.96	51.9	NA	5.39	35.1	1.69	Flood	68	63.0	74.0	7	3	Reverse Flow
8/11/2002	8:00	20	5	2	15.8	7.92	50.2	NA	6.03	32.6	0.85	Flood	70	55.0	65.0	6	2	
8/12/2002	8:22	5	<1	2	16.3	8.03	51.5	13	5.62	33.6	0.96	Flood	157	58.0	74.0	7	2	
8/13/2002	8:30	5	3	<1	17.3	7.98	51.8	4	5.84	33.9	1.11	Flood	64	63.4	76.5	7	2	
8/14/2002	7:45	3	2	<1	18.9	7.96	50.3	NA	7.87	33.1	1.39	Ebb	67	65.1	77.6	7	3	
8/15/2002	9:56	5	2	<1	18.6	8.08	50.4	NA	7.37	33.0	2.19	Flood	69	60.2	87.9	7	3	
8/16/2002	9:45	11	2	<1	18.2	8.07	50.4	2	7.15	32.9	2.52	Ebb	130	61.7	84.7	5	2	
8/17/2002	10:00	5	<1	<1	19.3	7.74	46.2	170	NA	NR	2.96	Ebb	117	62.3	83.0	5	2	
8/18/2002	10:00	10	2	<1	17.8	8.11	42.5	0	9.98	NR	3.43	Ebb	116	63.0	72.0	5	2	
8/19/2002	9:45	2	<1	2	17.0	8.02	42.9	0	NA	NR	3.93	Ebb	94	64.6	85.5	5	2	Chlorination
8/20/2002	9:15	4	2	<1	18.5	8.01	42.6	0	10.44	NR	4.18	Flood		65.0	85.0	5	2	
8/21/2002	9:55	30	4	<1	18.3	8.08	42.9	1	NA	NR	4.31	Flood	98	64.2	80.0	5	2	

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
8/22/2002	9:50	10	<1	1	20.4	8.02	41.8	3	NA	NR	4.31	Flood		65.0	82.0	5	2	
8/23/2002	9:55	10	<1	<1	19.7	8.35	35.6	10	NA	NR	4.25	Flood	90	61.5	83.7	5	2	Chlorination
8/24/2002	9:52	10	2	<1	19.3	8.06	41.3	NA	NA	NR	4.03	Flood		64.1	81.1	5	2	
8/25/2002	9:40	3	2	1	17.9	8.02	41.7	NA	NA	NR	3.66	Flood	32	64.7	86.1	5	2	
8/26/2002	9:45	20	<1	1	18.8	8.00	41.6	NA	NA	NR	3.48	Flood	66	63.4	81.7	6	2	
8/27/2002	10:00	3	<1	<1	19.5	8.07	40.1	4	9.97	NR	3.47	Flood	57	64.0	86.6	5	2	Chlorination
8/28/2002	10:00	1	<1	<1	19.0	8.00	35.0	NA	9.80	NR	3.29	Flood	73	65.2	87.2	5	2	
8/29/2002	10:00	2	1	<1	20.6	8.06	31.7	NA	10.10	NR	3.18	Flood	86	65.2	87.9	5	2	
8/30/2002	10:00	20	<1	1	20.2	8.03	32.4	20	10.10	NR	3.12	Flood		66.2	87.5	5	2	
8/31/2002	8:00	10	<1	<1	16.9	8.11	30.5	NA	10.34	NR	2.95	Flood	32	60.4	73.1	5	2	
9/1/2002	8:50	1	<1	<1	17.2	7.99	30.9	NA	11.42	NR	3.23	Ebb		57.0	67.1	5	2	
9/2/2002	10:00	10	<1	**120**	17.5	8.01	31.0	NA	11.09	NR	3.28	Ebb	57	55.5	71.1	5	2	Chlorination
9/3/2002	9:45	2	1	<1	16.5	8.02	28.2	41	11.41	NR	3.63	Ebb	25	60.0	70.0	5	2	
9/4/2002	9:12	27	9	5	18.2	8.01	49.4	15	10.11	32.1	4.18	Ebb	21	62.4	78.6	5	2	Chlorination
9/5/2002	9:45	3	<1	1	19.5	8.02	51.1	5	10.48	33.5	4.48	Ebb	15	64.6	74.4	5	2	
9/6/2002	9:35	8	3	1	17.2	7.92	51.5	28	10.13	33.7	4.86	Flood	0	62.0	81.0	5	2	
9/7/2002	9:15	2	1	1	15.4	7.94	52.0	10	10.70	33.8	4.79	Flood	0	58.0	64.0	5	2	
9/8/2002	9:10	13	2	5	14.3	7.94	52.2	5	10.43	34.0	4.44	Flood	0	55.0	60.0	5	2	
9/9/2002	8:55	17	9	3	15.0	7.98	51.6	5	10.10	33.6	3.63	Flood	0	57.1	64.8	5	2	
9/10/2002	7:55	2	<1	<1	16.2	8.01	51.4	NA	11.30	33.6	1.96	Flood	50	58.2	69.7	5	2	Chlorination
9/11/2002	7:45	<1	<1	<1	16.1	7.96	52.3	NA	9.76	34.2	1.85	Flood	47	58.7	72.7	5	2	
9/12/2002	7:46	3	1	<1	15.7	8.03	52.4	25	9.62	34.4	2.22	Flood		64.1	73.3	5	2	
9/13/2002	8:20	2	<1	<1	15.5	8.03	52.3	14	12.55	34.3	2.77	Flood	41	59.7	77.9	5	2	
9/14/2002	7:40	50	<1	<1	15.0	7.98	49.6	21	10.62	32.2	3.40	Ebb	20	56.6	60.6	4	1	
9/15/2002	7:45	3	2	<1	16.4	7.78	51.7	NA	10.20	33.8	3.88	Ebb	19	55.0	59.6	4	1	
9/16/2002	7:45	10	1	<1	16.3	8.03	52.0	NA	10.10	33.8	4.17	Flood		60.0	65.0	5	2	
9/17/2002	8:25	5	1	<1	18.4	8.03	51.4	4	9.23	33.8	4.41	Flood		64.4	75.3	5	2	
9/18/2002	9:21	5	2	<1	20.3	8.00	45.8	0	7.90	NR	4.54	Ebb	12	68.9	86.3	5	2	
9/19/2002	9:10	5	<1	<1	21.4	8.08	46.8	10	9.46	30.5	4.70	Flood	13	66.7	85.7	5	2	
9/20/2002	9:17	1	<1	<1	19.9	8.10	47.1	1	10.29	30.7	4.80	Flood	11	64.9	84.1	5	2	
9/21/2002	9:32	<1	<1	<1	16.5	7.94	47.5	0	11.30	30.8	4.88	Flood	17	62.5	81.9	5	2	
9/22/2002	8:25	2	<1	<1	15.1	8.05	51.9	NA	11.36	33.8	4.05	Flood	17	57.5	66.0	5	2	
9/23/2002	8:12	7	5	<1	16.0	8.11	47.1	46	11.21	30.5	3.58	Flood	35	62.4	80.2	5	2	Chlorination
9/24/2002	9:30	10	<1	<1	19.2	8.20	47.2	19	11.86	30.7	4.54	Flood	54	64.0	84.2	6	3	
9/25/2002	9:15	7	1	<1	19.0	8.07	48.0	1	11.16	31.3	4.12	Flood	57	63.0	71.0	6	2	
9/26/2002	9:30	2	<1	<1	18.8	8.02	43.7	4	8.87	NR	4.06	Flood	32	67.0	71.0	5	2	Reverse Flow
9/27/2002	8:40	5	2	2	14.5	8.24	43.8	10	10.39	NR	3.40	Flood	26	57.9	62.4	5	2	Chlorination

Location: Intake Vault (IV)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
9/28/2002	9:40	10	2	<1	14.9	8.39	50.3	19	9.39	32.6	3.70	Flood	26	56.8	57.9	5	2	
9/29/2002	8:58	20	7	3	16.5	8.53	36.7	49	8.90	NR	3.42	Flood	20	59.4	60.8	5	2	
9/30/2002	8:25	<1	<1	<1	15.5	8.46	41.6	2	11.18	NR	3.52	Ebb	26	59.4	63.3	5	2	Chlorination
10/1/2002	9:00	2	<1	<1	16.5	8.49	41.3	4	NA	NR	3.65	Ebb	28	60.3	72.1	4	1	
10/2/2002	8:40	10	2	<1	16.0	8.50	41.0	NA	7.80	NR	4.13	Ebb	0	59.9	62.4	4	1	
10/3/2002	9:20	3	<1	2	16.0	8.60	41.0	1	8.00	NR	4.37	Ebb	0	59.6	67.6	4	1	
10/4/2002	9:00	20	5	2	17.0	8.60	41.0	4	8.10	NR	5.11	Ebb	0	61.7	64.7	3	2	Chlorination
10/5/2002	8:59	10	1	<1	17.3	8.61	41.5	3	8.18	NR	5.59	Flood	0	61.8	61.8	3	1	
10/6/2002	9:18	20	3	<1	17.3	8.57	51.6	NA	8.99	33.8	5.94	Flood	0	61.4	68.2	2	1	
10/7/2002	9:10	10	2	2	18.0	8.60	51.0	10	9.60	34.0	5.82	Flood	0	62.5	81.7	4	2	Chlorination
10/8/2002	9:15	5	1	<1	18.0	8.60	52.0	NA	9.30	34.0	5.48	Flood	0	62.4	83.6	4	2	
10/9/2002	9:15	2	<1	1	18.6	8.59	51.3	NA	10.30	33.4	4.83	Flood	0	63.0	84.5	4	2	Chlorination
10/10/2002	9:10	7	1	1	18.4	8.55	51.3	NA	10.95	33.6	4.06	Flood	21	62.4	83.3	4	2	
10/11/2002	9:10	3	<1	1	17.1	8.44	50.5	NA	NA	33.0	3.56	Flood	22	60.5	79.0	4	2	Chlorination
10/12/2002	9:40	3	1	<1	16.2	8.50	51.5	NA	10.10	33.6	3.43	Flood	55					
10/13/2002	9:25	4	1	3	15.9	8.51	49.3	NA	9.97	32.1	3.35	Ebb	49	64.0	72.0	4	2	
10/14/2002	9:25	15	<1	<1	15.2	8.41	48.2	2	10.18	31.1	3.54	Ebb	49	57.0	79.0	4	2	
10/15/2002	8:20	10	3	4	14.8	8.09	49.6	NA	9.40	32.4	4.34	Ebb	44	58.0	79.0	4	2	Chlorination

Location: Storm Water Sump (SWS)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
7/16/2002	12:30	120	60	**180**	27.8	8.43	0.5	164	NA	0.1	3.05	Flood		67.0	84.6			
7/17/2002	11:50	800	51	**300**	26.2	7.80	1.6	3	NA	0.7	2.06	Flood		67.4	86.1			
7/18/2002	11:38	110	5	28	25.9	7.73	1.7	1	5.09	0.8	1.87	Flood	121	62.5	75.8	4	1	
7/19/2002	11:54	650	60	11	26.0	6.90	0.6	10	5.50	0.2	2.05	Flood	64	65.0	77.0	4	1	
7/20/2002	8:10	9100	170	**2200**	24.3	7.60	3.8	13	5.24	1.9	3.49	High Tide	64	66.0	71.0	4	1	
7/21/2002	8:49	900	12	**270**	24.4	7.62	2.0	40	5.53	0.9	3.68	Flood	63	66.0	72.0	4	1	
7/22/2002	7:30	**1300**	300	**300**	26.1	7.60	1.4	7	5.20	0.6	2.68	Flood	133	63.0	78.0	4	1	Chlorination
7/23/2002	8:22	**1100**	330	**230**	24.8	7.55	2.2	55	5.85	1.0	2.92	Flood	205	54.4	65.3	4	1	Chlorination
7/24/2002	8:05	300	2	1	25.0	7.60	1.2	6	5.12	0.5	2.07	Flood	51	58.9	64.6	4	1	Chlorination
7/25/2002	8:05	200	50	31	27.0	7.36	1.1	0	5.05	0.4	1.50	Flood	52	59.4	70.2	5	2	Chlorination
7/26/2002	7:58	30	4	1	24.8	7.45	2.1	2	4.96	1.0	0.97	Flood	198	63.0	85.0	6	3	Chlorination
7/27/2002	8:19	150	90	22	25.1	7.49	1.6	12	5.55	0.7	1.02	Flood	61	65.0	92.0	6	3	
7/28/2002	8:20	80	5	12	24.5	7.47	2.8	10	5.53	1.3	0.92	Flood	49	67.0	80.0	6	3	
7/29/2002	8:15	190	3	4	24.7	7.73	1.8	15	5.11	0.8	0.99	Flood	80	67.4	79.6	6	3	
7/30/2002	8:20	320	90	22	24.7	7.69	1.4	4	5.16	0.6	1.30	Flood	77	71.0	72.9	6	3	Chlorination
7/31/2002	8:00	120	51	34	27.0	7.48	1.5	10	4.51	0.6	1.69	Ebb	141	63.0	75.5	6	2	
8/1/2002	8:20	900	62	85	24.6	7.72	1.2	2	5.74	0.5	2.14	Ebb	0	63.0	72.0	6	2	Chlorination
8/2/2002	8:05	30	4	11	24.6	7.81	1.7	14	5.29	0.8	2.61	Ebb	0	64.8	80.0	5	2	
8/3/2002	7:45	<1	<1	<1	24.6	7.49	10.0	8	6.03	5.7	3.02	Ebb	0	63.1	77.4	5	2	
8/4/2002	8:32	2100	23	24	24.8	7.61	1.7	1	5.04	0.8	3.29	Ebb	0	64.4	73.0	5	2	Reverse Flow
8/5/2002	8:05	1200	8	23	24.2	7.59	3.1	1	5.23	1.5	3.46	Flood	92	62.0	79.5	5	2	Reverse Flow
8/6/2002	8:15	**11000**	**640**	9	21.3	7.73	1.9	10	4.55	0.9	3.53	Flood	57	63.9	75.8	6	2	Reverse Flow
8/7/2002	7:45	700	9	12	24.4	7.70	1.9	10	4.89	1.2	2.90	Flood	61	63.8	81.2	6	3	Reverse Flow
8/8/2002	7:50	20	3	2	26.5	7.58	0.8	NA	4.77	0.3	2.45	Flood	62	63.1	85.9	7	3	Reverse Flow
8/9/2002	7:50	20	10	44	24.3	7.61	1.2	NA	4.57	0.3	1.78	Flood	65	63.0	85.0	6	2	Reverse Flow
8/10/2002	7:45	120	7	80	23.0	7.54	14.9	NA	5.29	8.7	1.02	Flood	68	63.0	74.0	7	3	Reverse Flow
8/11/2002	7:35	10	3	7	36.4	7.97	0.1	NA	4.20	0.0	0.40	Flood	70	55.0	65.0	6	2	
8/12/2002	7:50	300	60	50	26.3	7.40	1.6	16	4.30	0.7	0.53	Flood	157	58.0	74.0	7	2	
8/13/2002	8:01	2000	20	3	24.6	7.93	1.3	0	4.25	0.6	0.85	Flood	64	63.4	76.5	7	2	
8/14/2002	7:25	200	<1	50	20.5	7.79	10.7	NA	5.61	5.9	1.43	Ebb	67	65.1	77.6	7	3	
8/15/2002	11:15	80	5	2	25.5	7.97	1.2	10	5.57	0.5	2.82	Flood	69	60.2	87.9	7	3	
8/16/2002	10:50	400	30	30	26.5	7.65	1.6	6	4.91	0.7	2.57	Flood	130	61.7	84.7	5	2	
8/17/2002	11:15	10	<1	20	25.3	7.37	1.2	0	NA	0.5	2.72	Ebb	117	62.3	83.0	5	2	
8/18/2002	10:50	900	12	8	23.0	7.66	3.1	0	6.16	1.5	3.11	Ebb	116	63.0	72.0	5	2	
8/19/2002	11:10	400	30	60	24.1	7.46	0.5	1	5.72	0.2	3.32	Ebb	94	64.6	85.5	5	2	Chlorination
8/20/2002	11:20	100	50	21	23.6	7.18	6.8	1	1.52	3.1	3.58	Ebb		65.0	85.0	5	2	
8/21/2002	10:55	200	20	<1	21.9	7.72	0.1	0	NA	0.0	4.10	Ebb	98	64.2	80.0	5	2	

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
8/22/2002	11:05	5000	300	20	25.5	8.59	1.2	7	NA	0.5	4.28	Ebb		65.0	82.0	5	2	
8/23/2002	10:40	500	4	5	26.4	8.48	0.4	10	NA	0.1	4.46	Flood	90	61.5	83.7	5	2	Chlorination
8/24/2002	10:30	300	20	**140**	23.8	8.76	0.5	NA	NA	0.2	4.39	Flood		64.1	81.1	5	2	
8/25/2002	10:05	3000	30	**230**	23.9	8.28	1.2	NA	NA	0.5	3.99	Flood	32	64.7	86.1	5	2	
8/26/2002	10:10	1000	3	9	24.2	7.79	1.3	NA	NA	0.7	3.82	Flood	66	63.4	81.7	6	2	
8/27/2002	11:10	4000	<1	30	24.5	7.58	1.0	999	9.04	0.4	4.24	Flood	57	64.0	86.6	5	2	Chlorination
8/28/2002	10:45	200	<1	**150**	24.0	8.40	3.6	NA	4.60	2.0	3.78	Flood	73	65.2	87.2	5	2	
8/29/2002	10:55	800	80	**200**	24.1	7.73	0.6	NA	5.00	0.2	3.67	Flood	86	65.2	87.9	5	2	
8/30/2002	9:10	1200	24	**340**	25.3	7.84	0.8	NA	2.89	0.3	2.85	Flood		66.2	87.5	5	2	
8/31/2002	7:20	100	20	**200**	24.0	7.02	0.4	NA	4.81	0.1	2.94	Flood	32	60.4	73.1	5	2	
9/1/2002	7:50	400	120	50	24.1	7.29	0.3	NA	4.77	0.1	3.28	Ebb		57.0	67.1	5	2	
9/2/2002	9:05	**1200**	300	**230**	24.1	7.47	0.3	NA	5.06	0.1	3.49	Ebb	57	55.5	71.1	5	2	Chlorination
9/3/2002	8:30	90	30	70	23.6	7.39	0.2	2	5.05	0.0	3.89	Ebb	25	60.0	70.0	5	2	
9/4/2002	9:35	600	**570**	**130**	NA	NA	NA	NA	NA		4.09	Ebb	21	62.4	78.6	5	2	Chlorination
9/5/2002	9:00	**1100**	**600**	20	23.8	7.68	0.7	2	5.65	0.3	4.51	Flood	15	64.6	74.4	5	2	
9/6/2002	8:45	**2800**	**820**	**930**	24.2	8.12	0.3	1	5.13	0.1	4.51	Flood	0	62.0	81.0	5	2	
9/7/2002	8:35	700	340	80	23.4	8.26	0.5	NA	NA	0.2	4.16	Flood	0	58.0	64.0	5	2	
9/8/2002	8:30	90	12	**150**	23.9	7.52	1.0	0	5.11	0.4	3.60	Flood	0	55.0	60.0	5	2	
9/9/2002	8:25	130	70	**110**	25.0	7.57	0.9	2	2.67	0.4	2.95	Flood	0	57.1	64.8	5	2	
9/10/2002	7:30	200	7	**260**	22.4	7.36	0.1	NA	6.25	0.0	1.55	Flood	50	58.2	69.7	5	2	Chlorination
9/11/2002	7:25	300	120	70	24.1	7.49	1.1	NA	4.62	0.5	1.69	Flood	47	58.7	72.7	5	2	
9/12/2002	7:30	**3000**	**1400**	**730**	19.6	7.45	0.6	50	5.01	0.2	2.19	Flood		64.1	73.3	5	2	
9/13/2002	7:25	190	70	70	23.8	7.29	1.4	5	5.02	0.6	2.82	Ebb	41	59.7	77.9	5	2	
9/14/2002	7:20	200	54	**260**	22.9	7.25	0.2	0	6.59	0.0	3.45	Ebb	20	56.6	60.6	4	1	
9/15/2002	7:10	100	9	20	23.1	6.87	0.1	NA	6.50	0.0	3.88	Flood	19	55.0	59.6	4	1	
9/16/2002	7:30	200	34	70	22.4	7.47	0.7	NA	4.90	0.2	4.13	Flood		60.0	65.0	5	2	
9/17/2002	8:35	100	10	30	22.6	7.51	0.4	6	7.01	0.1	4.41	High Tide		64.4	75.3	5	2	
9/18/2002	8:27	70	22	**710**	21.9	7.64	2.1	0	7.35	1.0	4.52	Flood	12	68.9	86.3	5	2	
9/19/2002	9:17	90	30	**220**	23.4	7.97	1.6	4	8.79	0.7	4.71	High Tide	13	66.7	85.7	5	2	
9/20/2002	9:23	200	40	30	23.6	7.95	1.4	26	8.75	0.6	4.82	Flood	11	64.9	84.1	5	2	
9/21/2002	8:40	20	5	10	23.1	7.29	0.3	3	5.91	0.1	4.44	Flood	17	62.5	81.9	5	2	
9/22/2002	8:53	200	50	**270**	22.7	7.45	2.5	NA	5.39	1.2	4.48	Flood	17	57.5	66.0	5	2	
9/23/2002	8:38	50	10	**320**	22.6	7.48	3.9	3	5.15	1.7	4.07	Flood	35	62.4	80.2	5	2	Chlorination
9/24/2002	7:55	30	5	6	24.7	7.60	1.5	9	6.00	0.7	3.15	Flood	54	64.0	84.2	6	3	
9/25/2002	7:50	300	30	10	23.9	7.21	1.1	2	5.90	0.5	2.97	Flood	57	63.0	71.0	6	2	
9/26/2002	7:50	70	2	20	23.4	6.87	0.0	0	5.97	0.0	2.95	Flood	32	67.0	71.0	5	2	Reverse Flow
9/27/2002	10:25	600	80	**280**	27.4	8.37	4.6	3	3.76	2.4	4.28	Flood	26	57.9	62.4	5	2	Chlorination

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
9/28/2002	8:50	300	50	**190**	22.5	9.06	9.6	1	3.96	5.3	3.41	Flood	26	56.8	57.9	5	2	
9/29/2002	8:20	6300	120	30	21.6	7.53	1.3	0	5.52	0.5	3.35	Flood	20	59.4	60.8	5	2	
9/30/2002	7:45	1300	30	40	23.6	7.69	1.5	1	3.62	0.7	3.57	Ebb	26	59.4	63.3	5	2	Chlorination
10/1/2002	7:45	800	90	50	22.9	7.81	0.3	NA	4.81	0.1	3.90	Ebb	28	60.3	72.1	4	1	
10/2/2002	7:45	3000	50	40	23.0	7.90	1.1	NA	4.00	0.0	4.28	Flood	0	59.9	62.4	4	1	
10/3/2002	7:45	500	70	60	22.0	9.70	0.3	2	4.50	0.0	4.64	Flood	0	59.6	67.6	4	1	
10/4/2002	7:45	300	20	**280**	23.0	9.10	0.5	2	3.10	0.0	4.89	Flood	0	61.7	64.7	3	2	Chlorination
10/5/2002	7:42	2000	30	**110**	21.5	7.73	0.5	1	3.82	0.2	4.83	Flood	0	61.8	61.8	3	1	
10/6/2002	7:22	700	90	**150**	22.5	7.80	0.5	NA	3.90	0.2	4.10	Flood	0	61.4	68.2	2	1	
10/7/2002	7:40	1200	30	12	26.4	7.50	0.0	10	5.72	0.0	4.07	Flood	0	62.5	81.7	4	2	Chlorination
10/8/2002	7:50	3500	60	**140**	23.0	8.90	0.4	NA	5.10	0.0	3.73	Flood	0	62.4	83.6	4	2	
10/9/2002	7:50	800	50	**130**	22.1	7.77	2.3	NA	6.02	1.1	3.22	Flood	0	63.0	84.5	4	2	Chlorination
10/10/2002	7:50	50	20	**130**	21.9	8.02	0.9	NA	5.40	0.4	2.94	Flood	21	62.4	83.3	4	2	
10/11/2002	7:30	3400	50	**110**	21.8	9.52	0.6	NA	0.00	0.2	2.86	Flood	22	60.5	79.0	4	2	Chlorination
10/12/2002	7:45	300	15	**230**	22.9	9.19	1.9	NA	4.40	0.8	3.23	Ebb	55					
10/13/2002	10:30	1200	30	**180**	22.6	8.78	2.6	NA	4.61	1.1	3.26	Low Tide	49	64.0	72.0	4	2	
10/14/2002	7:55	120	20	60	21.4	7.91	0.2	NA	5.10	0.0	4.06	Ebb	49	57.0	79.0	4	2	
10/15/2002	7:45	600	50	45	21.3	8.38	0.7	NA	3.93	0.2	4.45	Ebb	44	58.0	79.0	4	2	Chlorination

Notes:
NA = Not Analyzed
NR = Not Reliable
† = Sample taken at 18 ft. due to technical challenges

TABLE 4-2
MICROBIOLOGY AND FIELD PARAMETERS (INTENSIVE SAMPLING)
CALIFORNIA ENERGY COMMISSION

Location: Blackford's Ditch (BD)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
8/15/2002a	8:45	**17000**	150	**710**	21.0	8.43	10.9	10	2.34	5.8	2.03	Ebb	69	60.2	87.9	7	3	
8/15/2002b	10:26	**7000**	**800**	**300**	22.3	7.98	33.1	10	4.61	19.9	2.38	Flood	69	60.2	87.9	7	3	
8/15/2002c	13:10	**19000**	**410**	**130**	23.0	8.15	31.5	7	3.14	18.4	4.21	Flood	69	60.2	87.9	7	3	
8/15/2002d	16:25	**4000**	**700**	**130**	23.0	8.13	34.7	8	4.30	21.8	5.31	Ebb	69	60.2	87.9	7	3	
8/15/2002e	18:50	**3000**	**600**	**110**	23.2	8.08	33.8	21	3.53	20.8	3.79	Ebb	69	60.2	87.9	7	3	
8/15/2002f	22:51	**18000**	200	**200**	21.9	8.19	14.6	345	2.47	8.3	0.85	Ebb	69	60.2	87.9	7	3	
8/16/2002a	1:25	**25000**	50	**1600**	21.4	8.14	16.3	27	1.39	10.0	1.38	Flood	130	61.7	84.7	5	2	
8/16/2002b	4:10	9000	20	**800**	19.6	8.25	10.3	5	1.81	5.7	2.91	Flood	130	61.7	84.7	5	2	
8/16/2002c	7:25	3000	30	**900**	22.1	8.00	34.6	17	1.54	22.3	3.01	Ebb	130	61.7	84.7	5	2	
8/16/2002d	10:00	4000	20	**720**	22.4	7.73	34.3	8	0.65	21.5	2.51	Ebb	130	61.7	84.7	5	2	
8/16/2002e	13:10	7000	40	**180**	21.6	7.88	36.3	15	4.45	22.6	3.58	Flood	130	61.7	84.7	5	2	
8/16/2002f	16:25	8000	120	31	22.9	8.09	36.6	8	5.08	23.2	5.46	Flood	130	61.7	84.7	5	2	
8/16/2002g	19:00	2000	50	20	22.8	7.96	36.3	4	1.56	23.0	4.72	Ebb	130	61.7	84.7	5	2	
8/16/2002h	22:30	4000	60	70	22.7	7.84	34.3	2	2.00	20.5	1.25	Ebb	130	61.7	84.7	5	2	
8/17/2002a	0:55	3000	50	**2000**	NA	NA	NA	NA	NA		0.27	Flood	117	62.3	83.0	5	2	
8/17/2002b	4:10	**18000**	**500**	**2100**	20.4	8.30	7.4	17	9.03	4.0	2.11	Flood	117	62.3	83.0	5	2	
8/17/2002c	7:35	6000	200	**800**	20.4	8.02	12.6	23	1.40	7.5	3.49	Ebb	117	62.3	83.0	5	2	
8/17/2002d	11:50	3000	220	**180**	21.3	7.58	30.2	24	NA	18.3	2.71	Flood	117	62.3	83.0	5	2	
8/17/2002e	13:25	**11000**	230	**1200**	21.8	8.24	10.5	9	NA	6.0	3.15	Flood	117	62.3	83.0	5	2	
8/17/2002f	16:18	900	190	**230**	22.9	8.43	10.5	2	8.08	6.0	5.13	Flood	117	62.3	83.0	5	2	
8/17/2002g	18:49	2000	200	**210**	18.4	7.08	29.7	NA	0.53	18.4	5.60	Ebb	117	62.3	83.0	5	2	
8/17/2002h	22:40	4000	30	50	17.3	8.07	9.5	10	2.67	6.1	1.85	Ebb	117	62.3	83.0	5	2	
8/18/2002a	0:00	6000	20	20	20.8	8.17	23.0	140	8.98	13.8	0.49	Ebb	116	63.0	72.0	5	2	
8/18/2002b	0:53	3000	10	70	14.5	8.03	10.7	10	2.02	6.2	-0.05	Ebb	116	63.0	72.0	5	2	
8/18/2002c	3:50	5000	30	70	13.4	7.93	12.0	10	1.71	6.7	0.89	Flood	116	63.0	72.0	5	2	
8/18/2002d	7:10	4000	10	**110**	19.9	7.95	29.7	22	0.12	18.4	3.56	Flood	116	63.0	72.0	5	2	
8/18/2002e	12:00	6000	10	10	21.0	8.05	28.9	7	1.74	18.0	2.73	Ebb	116	63.0	72.0	5	2	
8/18/2002f	13:00	5000	20	50	21.7	7.87	28.5	8	4.19	17.6	2.65	Flood	116	63.0	72.0	5	2	
8/18/2002g	16:05	7000	90	15	21.3	8.09	25.0	8	NA	15.1	4.30	Flood	116	63.0	72.0	5	2	
8/18/2002h	18:55	2000	70	**120**	21.0	8.37	9.9	9	6.48	5.6	5.94	Flood	116	63.0	72.0	5	2	
8/19/2002a	1:40	5000	200	60	20.1	8.04	10.7	700	4.25	5.2	-0.31	Ebb	94	64.6	85.5	5	2	Chlorination
8/19/2002b	4:35	4000	12	30	21.3	7.81	28.0	17	0.85	17.3	0.76	Flood	94	64.6	85.5	5	2	Chlorination
8/19/2002c	7:10	2000	3	**200**	21.1	7.85	28.8	9	1.39	17.8	3.34	Flood	94	64.6	85.5	5	2	Chlorination
8/19/2002d	10:10	**110000**	**2600**	**30000**	20.1	7.98	13.1	6	NA	7.3	3.79	Ebb	94	64.6	85.5	5	2	Chlorination
8/19/2002e	13:00	**370000**	**29000**	**50000**	21.5	8.07	14.8	13	6.35	7.2	2.54	Ebb	94	64.6	85.5	5	2	Chlorination
8/19/2002f	16:20	**210000**	**19000**	**21000**	22.0	8.00	28.2	12	4.01	16.6	3.76	Flood	94	64.6	85.5	5	2	Chlorination
8/19/2002g	18:50	**170000**	**12000**	**6200**	21.3	7.96	25.4	4	2.87	15.0	5.84	Flood	94	64.6	85.5	5	2	Chlorination

Location: Blackford's Ditch (BD)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
8/19/2002h	22:56	8000	150	**240**	21.8	7.90	29.0	13	4.20	18.0	3.55	Ebb	94	64.6	85.5	5	2	Chlorination
8/20/2002a	1:00	**16000**	110	**130**	21.2	8.09	24.9	83	1.80	15.6	0.66	Ebb		65.0	85.0	5	2	
8/20/2002b	4:15	**26000**	**1400**	**2300**	21.7	7.90	28.0	42	2.03	17.0	-0.14	Flood		65.0	85.0	5	2	
8/20/2002c	7:30	**21000**	**1200**	**1100**	20.3	7.90	28.3	15	NA	16.3	3.25	Flood		65.0	85.0	5	2	
8/20/2002d	9:40	**15000**	**2000**	**800**	21.1	8.15	15.2	28	NA	9.2	4.19	Ebb		65.0	85.0	5	2	
8/20/2002e	12:10	**18000**	**1700**	**1800**	20.5	8.01	12.6	17	NA	8.6	3.07	Ebb		65.0	85.0	5	2	
8/20/2002f	16:20	**3000**	**1300**	**150**	18.0	8.02	23.5	16	NA	13.2	3.04	Flood		65.0	85.0	5	2	
8/20/2002g	19:15	**3000**	**1100**	**1300**	18.2	7.82	28.8	65	NA	17.9	5.74	Flood		65.0	85.0	5	2	
8/20/2002h	22:35	**3000**	**400**	**130**	21.3	7.95	25.4	38	1.56	15.6	4.88	Ebb		65.0	85.0	5	2	
8/21/2002a	0:55	**1100**	**700**	**400**	21.9	7.89	23.5	23	1.15	14.1	1.55	Ebb	98	64.2	80.0	5	2	
8/21/2002b	3:45	2000	200	**3200**	21.2	7.79	26.6	17	0.73	16.2	-0.56	Flood	98	64.2	80.0	5	2	
8/21/2002c	7:35	**18000**	**1300**	**8000**	20.1	7.69	29.1	5	NA	18.0	2.91	Flood	98	64.2	80.0	5	2	
8/21/2002d	11:50	**1200**	**500**	**120**	20.6	7.90	28.1	7	NA	17.2	3.60	Ebb	98	64.2	80.0	5	2	
8/21/2002e	13:05	8000	**800**	80	20.8	7.78	27.4	48	NA	16.6	2.75	Ebb	98	64.2	80.0	5	2	
8/21/2002f	16:15	**3000**	**1300**	**160**	20.0	7.97	29.6	14	NA	17.3	2.39	Flood	98	64.2	80.0	5	2	
8/21/2002g	19:15	**2000**	**500**	**110**	21.0	7.91	28.6	9	NA	17.8	5.21	Flood	98	64.2	80.0	5	2	
8/21/2002h	22:15	500	200	**1700**	21.8	7.87	29.6	12	0.98	18.2	5.76	Ebb	98	64.2	80.0	5	2	
8/22/2002a	0:45	**62000**	**5100**	**4800**	22.0	7.83	24.9	4	2.89	15.1	2.65	Ebb		65.0	82.0	5	2	
8/22/2002b	3:55	**110000**	**4300**	**31000**	22.1	7.78	26.7	6	0.69	16.2	-0.44	Ebb		65.0	82.0	5	2	
8/22/2002c	7:10	**15000**	**800**	**14000**	19.9	7.92	15.2	155	NA	8.7	1.97	Flood		65.0	82.0	5	2	
8/22/2002d	11:35	**21000**	**500**	**5200**	24.8	8.18	10.5	15	NA	5.9	4.06	Ebb		65.0	82.0	5	2	
8/22/2002e	13:15	5000	80	**230**	23.1	7.93	27.1	68	NA	16.5	2.90	Ebb		65.0	82.0	5	2	
8/22/2002f	16:15	**15000**	**500**	**14000**	23.9	8.19	12.9	NA	2.10	6.2	1.98	Flood		65.0	82.0	5	2	
8/22/2002g	19:15	**11000**	**3100**	**9000**	22.6	8.40	10.4	130	0.79	11.2	4.53	Flood		65.0	82.0	5	2	
8/22/2002h	22:30	7000	**500**	**5400**	22.4	8.05	22.5	NA	1.08	13.7	5.83	Ebb		65.0	82.0	5	2	
8/23/2002a	0:55	**23000**	**800**	**13000**	22.0	8.10	21.0	NA	0.60	12.0	3.18	Ebb	90	61.5	83.7	5	2	Chlorination
8/23/2002b	3:55	**32000**	**1400**	**48000**	22.0	8.00	23.0	NA	0.16	14.0	-0.12	Ebb	90	61.5	83.7	5	2	Chlorination
8/23/2002c	7:30	**18000**	220	**13000**	20.3	8.50	11.3	10	NA	6.4	1.97	Flood	90	61.5	83.7	5	2	Chlorination
8/23/2002d	12:10	**11000**	**500**	**17000**	25.3	8.45	10.5	NA	NA	5.9	4.02	Ebb	90	61.5	83.7	5	2	Chlorination
8/23/2002e	13:25	9000	100	**13000**	23.4	8.29	20.7	NA	NA	11.9	3.11	Ebb	90	61.5	83.7	5	2	Chlorination
8/23/2002f	16:30	**15000**	**420**	**18000**	23.5	8.41	13.2	68	3.93	7.5	1.79	Flood	90	61.5	83.7	5	2	Chlorination
8/23/2002g	19:15	**21000**	240	**18000**	22.4	8.21	20.1	NA	1.78	10.0	3.81	Flood	90	61.5	83.7	5	2	Chlorination
8/23/2002h	22:20	7000	<1	**5400**	22.4	8.00	22.4	NA	0.99	13.5	5.82	Ebb	90	61.5	83.7	5	2	Chlorination
8/24/2002a	1:10	**11000**	20	**480**	19.8	8.44	14.9	NA	1.00	7.0	3.48	Ebb		64.1	81.1	5	2	
8/24/2002b	4:25	**21000**	300	**17000**	22.0	8.02	21.5	NA	0.70	12.7	0.13	Ebb		64.1	81.1	5	2	
8/24/2002c	7:25	**43000**	**1200**	**31000**	21.6	7.82	25.9	NA	NA	15.8	1.58	Flood		64.1	81.1	5	2	
8/24/2002d	11:05	**25000**	300	**1500**	23.1	8.15	12.6	NA	NA	7.2	4.52	Flood		64.1	81.1	5	2	

TABLE 4-2
MICROBIOLOGY AND FIELD PARAMETERS (INTENSIVE SAMPLING)
CALIFORNIA ENERGY COMMISSION

Location: Blackford's Ditch (BD)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
8/24/2002e	12:50	**13000**	220	**9500**	23.2	8.32	12.1	NA	NA	7.0	3.92	Ebb		64.1	81.1	5	2	
8/24/2002f	16:10	6000	50	**3000**	23.0	8.02	16.9	NA	2.94	13.5	1.74	Ebb		64.1	81.1	5	2	
8/24/2002g	19:10	5000	30	**2400**	21.2	7.85	25.8	108	1.40	15.7	3.03	Flood		64.1	81.1	5	2	
8/24/2002h	22:20	2000	20	**190**	20.7	8.27	12.4	NA	NA	7.3	5.44	Flood		64.1	81.1	5	2	
8/25/2002a	1:05	5000	4	**120**	20.5	8.26	10.9	NA	NA	6.2	4.06	Ebb	32	64.7	86.1	5	2	
8/25/2002b	4:16	**2000**	300	50	20.4	8.24	11.0	NA	NA	6.2	0.72	Ebb	32	64.7	86.1	5	2	
8/25/2002c	7:25	3000	20	**500**	19.7	8.34	11.7	NA	NA	6.7	1.42	Flood	32	64.7	86.1	5	2	
8/25/2002d	10:55	5000	20	70	22.5	8.33	11.2	58	NA	6.3	4.44	Flood	32	64.7	86.1	5	2	
8/25/2002e	13:00	4000	20	40	23.5	8.27	11.8	NA	NA	6.7	4.14	Ebb	32	64.7	86.1	5	2	
8/25/2002f	16:10	**11000**	300	**1200**	22.8	7.87	26.7	42	2.54	16.0	1.92	Ebb	32	64.7	86.1	5	2	
8/25/2002g	19:10	5000	50	**300**	22.3	7.72	25.3	NA	1.40	15.4	2.45	Flood	32	64.7	86.1	5	2	
8/25/2002h	22:15	3000	40	**2700**	21.2	8.25	11.3	NA	1.60	6.5	4.80	Flood	32	64.7	86.1	5	2	
8/26/2002a	1:10	3000	200	**1100**	18.3	8.29	11.8	NA	1.20	7.0	4.21	Ebb	66	63.4	81.7	6	2	
8/26/2002b	4:25	**3000**	**400**	**1500**	20.5	8.20	12.0	NA	0.78	6.6	1.20	Ebb	66	63.4	81.7	6	2	
8/26/2002c	7:10	4000	110	**400**	19.6	7.70	11.7	NA	NA	6.7	1.25	Flood	66	63.4	81.7	6	2	
8/26/2002d	10:50	5000	200	**800**	22.2	8.24	11.3	NA	NA	6.4	4.25	Flood	66	63.4	81.7	6	2	
8/26/2002e	13:00	3000	30	**420**	24.2	8.45	10.9	NA	NA	6.2	4.40	Ebb	66	63.4	81.7	6	2	
8/26/2002f	16:15	4000	30	**3200**	23.1	7.80	27.0	NA	NA	16.7	2.22	Ebb	66	63.4	81.7	6	2	
8/26/2002g	19:10	3000	20	**4400**	22.5	7.76	22.2	22	NA	13.4	2.04	Flood	66	63.4	81.7	6	2	
8/26/2002h	22:15	4000	30	**700**	21.9	7.91	21.1	NA	NA	12.6	4.04	Flood	66	63.4	81.7	6	2	
8/27/2002a	1:10	**14000**	120	**2300**	21.6	7.76	24.8	NA	0.80	14.8	4.17	Ebb	57	64.0	86.6	5	2	Chlorination
8/27/2002b	4:10	**28000**	**1400**	**57000**	21.9	7.72	21.5	NA	0.50	13.0	1.95	Ebb	57	64.0	86.6	5	2	Chlorination
8/27/2002c	7:15	**17000**	**900**	**37000**	20.4	8.40	9.4	385	7.40	5.2	1.49	Flood	57	64.0	86.6	5	2	Chlorination
8/27/2002d	10:15	**27000**	200	**14000**	22.1	8.40	10.2	12	9.07	5.0	3.66	Flood	57	64.0	86.6	5	2	Chlorination
8/27/2002e	13:15	**23000**	90	**11000**	22.5	8.42	10.5	49	4.50	5.9	4.50	Ebb	57	64.0	86.6	5	2	Chlorination
8/27/2002f	16:15	**15000**	70	**14000**	22.3	7.70	20.4	40	1.94	12.0	2.69	Ebb	57	64.0	86.6	5	2	Chlorination
8/27/2002g	19:10	**28000**	300	**18000**	22.5	7.96	17.2	NA	1.16	10.2	1.86	Flood	57	64.0	86.6	5	2	Chlorination
8/27/2002h	22:45	**17000**	10	**11000**	21.9	7.84	16.6	8	0.93	9.3	3.50	Flood	57	64.0	86.6	5	2	Chlorination
8/28/2002a	1:00	**36000**	**500**	**16000**	21.0	8.20	13.3	11	1.78	8.1	3.89	Ebb	73	65.2	87.2	5	2	
8/28/2002b	3:45	**23000**	300	**12000**	21.0	8.10	16.0	7	2.00	1.0	2.67	Ebb	73	65.2	87.2	5	2	
8/28/2002c	7:15	**13000**	**400**	**15000**	20.0	8.10	10.0	NA	2.70	6.0	1.80	Flood	73	65.2	87.2	5	2	
8/28/2002d	10:15	**11000**	120	**3300**	21.0	8.00	12.0	NA	2.70	7.0	3.46	Flood	73	65.2	87.2	5	2	
8/28/2002e	13:15	**16000**	70	**2700**	25.0	8.20	10.0	NA	5.30	6.0	4.58	Ebb	73	65.2	87.2	5	2	
8/28/2002f	16:15	**15000**	50	**9000**	23.8	7.87	20.0	NA	10.53	11.8	3.24	Ebb	73	65.2	87.2	5	2	
8/28/2002g	19:00	**16000**	70	**11000**	23.1	7.75	15.9	NA	2.17	9.3	1.95	Ebb	73	65.2	87.2	5	2	
8/28/2002h	22:30	**17000**	60	**15000**	22.2	8.11	11.4	5	1.36	6.2	2.63	Flood	73	65.2	87.2	5	2	
8/29/2002a	1:10	**18000**	80	**17000**	21.8	8.01	12.2	11	1.48	6.4	3.33	Flood	86	65.2	87.9	5	2	

Location: Blackford's Ditch (BD)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
8/29/2002b	4:15	**71000**	**2400**	**62000**	21.3	8.05	9.8	31	1.02	5.4	2.71	Ebb	86	65.2	87.9	5	2	
8/29/2002c	7:15	**37000**	**2100**	**26000**	20.6	8.26	9.7	NA	2.02	5.4	2.18	Flood	86	65.2	87.9	5	2	
8/29/2002d	10:15	7000	31	**13000**	21.9	8.21	10.0	NA	0.54	5.6	3.31	Flood	86	65.2	87.9	5	2	
8/29/2002e	13:15	**11000**	90	**8000**	23.8	8.31	9.5	379	5.24	5.3	4.52	Flood	86	65.2	87.9	5	2	
8/29/2002f	17:05	**18000**	300	**15000**	22.5	8.44	10.0	NA	NA	4.8	3.31	Ebb	86	65.2	87.9	5	2	
8/29/2002g	19:25	9000	200	**7300**	20.7	8.38	9.8	NA	NA	5.4	2.15	Ebb	86	65.2	87.9	5	2	
8/29/2002h	22:25	3000	110	**900**	21.1	8.39	9.4	10	8.25	5.2	2.00	Flood	86	65.2	87.9	5	2	
8/30/2002a	1:25	4000	20	70	21.5	7.97	15.2	NA	2.20	8.5	2.70	Flood		66.2	87.5	5	2	
8/30/2002b	1:25	3000	10	**300**	22.4	7.93	15.9	10	1.90	9.4	2.70	Flood		66.2	87.5	5	2	
8/30/2002c	7:15	6000	10	**130**	21.0	8.29	9.6	NA	1.11	5.4	2.57	Flood		66.2	87.5	5	2	
8/30/2002d	10:15	8000	10	**300**	21.6	8.26	9.1	NA	2.45	5.1	3.21	Flood		66.2	87.5	5	2	

Location: Boiler Fireside Wash (BFW)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
8/15/2002a	10:50	**5500**	**1800**	**23000**	19.6	6.63	21.6	10	4.02	13.0	2.58	Flood	69	60.2	87.9	7	3	
8/16/2002a	10:10	**19000**	**1300**	**50000**	19.6	6.66	21.1	115	2.51	12.6	2.51	Flood	130	61.7	84.7	5	2	
8/17/2002a	10:42	**29000**	**650**	**50000**	19.8	6.57	20.0	56	NA	11.9	2.80	Ebb	117	62.3	83.0	5	2	
8/18/2002a	10:30	**27000**	**2800**	**86000**	18.8	6.84	17.4	93	1.02	10.2	3.24	Ebb	116	63.0	72.0	5	2	
8/19/2002a	10:40	**50000**	**950**	**160000**	18.2	6.83	17.3	93	2.18	10.2	3.57	Ebb	94	64.6	85.5	5	2	Chlorination
8/20/2002a	10:45	**44000**	**500**	**57000**	17.8	6.76	16.0	96	NA	9.4	3.89	Ebb		65.0	85.0	5	2	
8/21/2002a	10:15	**68000**	**700**	**33000**	17.6	6.95	14.2	72	NA	8.2	4.29	Ebb	98	64.2	80.0	5	2	
8/22/2002a	10:10	**24000**	**700**	**25000**	19.5	7.17	16.6	80	NA	9.7	4.38	Flood		65.0	82.0	5	2	
8/23/2002a	11:10	**26000**	**610**	**23000**	18.8	7.23	10.6	10	NA	6.0	4.43	Ebb	90	61.5	83.7	5	2	Chlorination
8/24/2002a	10:45	**13000**	**500**	**11000**	19.8	6.92	10.8	NA	NA	6.0	4.46	Flood		64.1	81.1	5	2	
8/25/2002a	10:40	3000	210	**14000**	19.6	6.98	11.5	NA	NA	6.5	4.34	Flood	32	64.7	86.1	5	2	
8/26/2002a	10:40	7000	50	**38000**	20.1	6.81	10.3	NA	NA	5.8	4.16	Flood	66	63.4	81.7	6	2	
8/27/2002a	10:50	1300	50	**15000**	19.1	6.94	10.6	68	4.69	5.3	4.05	Flood	57	64.0	86.6	5	2	Chlorination
8/28/2002a	10:25	600	30	**5800**	18.0	6.90	10.0	NA	6.80	5.0	3.57	Flood	73	65.2	87.2	5	2	
8/29/2002a	10:40	900	110	**2400**	18.0	6.99	7.7	NA	6.11	4.1	3.53	Flood	86	65.2	87.9	5	2	
8/30/2002a	8:50	**6000**	**900**	**14000**	18.3	7.31	9.0	NA	7.05	4.9	2.77	Flood		66.2	87.5	5	2	

Location: Boiler Sump Wash (BSW)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
8/15/2002a	11:05	700	120	**420**	NA	NA	NA	NA	NA		2.72	Flood	69	60.2	87.9	7	3	
8/16/2002a	10:20	4000	130	**290**	NA	NA	NA	NA	NA		2.51	Flood	130	61.7	84.7	5	2	
8/17/2002a	11:00	**3300**	**1100**	**270**	NA	NA	NA	NA	NA		2.75	Ebb	117	62.3	83.0	5	2	
8/18/2002a	10:37	700	30	50	NA	NA	NA	NA	NA		3.17	Ebb	116	63.0	72.0	5	2	
8/19/2002a	10:55	500	8	80	NA	NA	NA	NA	NA		3.45	Ebb	94	64.6	85.5	5	2	Chlorination
8/20/2002a	11:00	200	20	**110**	NA	NA	NA	NA	NA		3.76	Ebb		65.0	85.0	5	2	
8/21/2002a	10:30	2000	5	80	NA	NA	NA	NA	NA		4.24	Ebb	98	64.2	80.0	5	2	
8/22/2002a	10:35	1500	22	**110**	NA	NA	NA	NA	NA		4.38	Ebb		65.0	82.0	5	2	
8/23/2002a	10:15	1500	21	**120**	NA	NA	NA	NA	NA		4.38	Flood	90	61.5	83.7	5	2	Chlorination
8/24/2002a	10:05	500	12	90	NA	NA	NA	NA	NA		4.19	Flood		64.1	81.1	5	2	
8/25/2002a	9:55	**16000**	**3200**	**1500**	NA	NA	NA	NA	NA		3.86	Flood	32	64.7	86.1	5	2	
8/26/2002a	9:55	300	40	50	NA	NA	NA	NA	NA		3.62	Flood	66	63.4	81.7	6	2	
8/27/2002a	11:00	700	5	**240**	NA	NA	NA	NA	NA		4.15	Flood	57	64.0	86.6	5	2	Chlorination
8/28/2002a	10:35	520	250	**710**	NA	NA	NA	NA	NA		3.68	Flood	73	65.2	87.2	5	2	
8/29/2002a	10:50	200	50	**200**	NA	NA	NA	NA	NA		3.62	Flood	86	65.2	87.9	5	2	
8/30/2002a	9:00	300	80	**420**	NA	NA	NA	NA	NA		2.81	Flood		66.2	87.5	5	2	

Location: Discharge Vault (DV0)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
8/15/2002a	7:00	3	<1	2	22.0	7.11	48.0	0	NA	32.7	2.41	Ebb	69	60.2	87.9	7	3	
8/15/2002b	9:48	20	4	<1	27.8	7.90	48.0	10	NA	32.0	2.17	Flood	69	60.2	87.9	7	3	
8/15/2002c	12:30	3	1	<1	30.3	7.89	52.0	6	NA	31.6	3.71	Flood	69	60.2	87.9	7	3	
8/15/2002d	15:40	<1	<1	4	32.8	7.94	49.3	3	NA	31.6	5.37	Flood	69	60.2	87.9	7	3	
8/15/2002e	18:35	20	<1	**120**	29.0	7.91	47.8	2	NA	31.3	4.02	Ebb	69	60.2	87.9	7	3	
8/15/2002f	21:38	200	5	52	28.8	7.52	36.5	6	NA	31.7	1.34	Ebb	69	60.2	87.9	7	3	
8/16/2002a	0:30	100	4	37	21.9	7.98	46.6	2	NA	30.4	0.97	Flood	130	61.7	84.7	5	2	
8/16/2002b	3:30	20	3	<1	20.9	8.05	47.7	4	NA	31.4	2.60	Flood	130	61.7	84.7	5	2	
8/16/2002c	7:10	20	6	3	23.5	7.19	49.0	3	NA	32.2	3.07	Ebb	130	61.7	84.7	5	2	
8/16/2002d	9:30	20	5	2	27.0	7.83	47.9	4	NA	32.6	2.55	Ebb	130	61.7	84.7	5	2	
8/16/2002e	12:30	<1	<1	2	29.6	7.06	49.8	1	NA	32.6	3.18	Flood	130	61.7	84.7	5	2	
8/16/2002f	16:00	<1	<1	<1	26.9	7.87	49.8	2	NA	32.6	5.34	Flood	130	61.7	84.7	5	2	
8/16/2002g	18:30	10	2	17	25.0	7.88	48.8	2	NA	32.0	5.07	Ebb	130	61.7	84.7	5	2	
8/16/2002h	22:00	120	<1	11	28.8	7.88	48.8	49	NA	32.0	1.71	Ebb	130	61.7	84.7	5	2	
8/17/2002a	0:30	900	60	**260**	28.6	6.36	69.0	NA	NA	40.0	0.27	Ebb	117	62.3	83.0	5	2	
8/17/2002b	3:37	330	8	15	22.8	8.20	41.8	NA	NA	NR	1.72	Flood	117	62.3	83.0	5	2	
8/17/2002c	6:50	300	12	11	23.7	7.72	44.3	0	NA	NR	3.45	Flood	117	62.3	83.0	5	2	
8/17/2002d	9:34	100	19	2	24.9	7.66	44.3	0	NA	NR	3.07	Ebb	117	62.3	83.0	5	2	
8/17/2002e	12:40	90	10	3	27.7	7.81	45.9	0	NA	NR	2.86	Flood	117	62.3	83.0	5	2	
8/17/2002f	15:47	50	4	10	27.9	7.83	44.5	223	NA	NR	4.79	Flood	117	62.3	83.0	5	2	
8/17/2002g	18:20	100	6	**110**	20.7	7.17	42.3	83	NA	NR	5.72	Ebb	117	62.3	83.0	5	2	
8/17/2002h	22:10	500	<1	2	23.6	7.78	38.2	10	NA	NR	2.46	Ebb	117	62.3	83.0	5	2	
8/18/2002a	0:25	300	6	21	18.2	7.68	38.4	79	NA	NR	0.20	Ebb	116	63.0	72.0	5	2	
8/18/2002b	3:19	100	16	10	16.4	7.77	38.8	10	NA	NR	0.49	Flood	116	63.0	72.0	5	2	
8/18/2002c	6:42	110	12	2	19.7	7.93	41.1	1	NA	NR	3.31	Flood	116	63.0	72.0	5	2	
8/18/2002d	9:50	200	2	2	20.0	8.06	41.2	1	NA	NR	3.49	Ebb	116	63.0	72.0	5	2	
8/18/2002e	12:30	30	10	2	21.6	8.06	40.2	1	NA	NR	2.65	Ebb	116	63.0	72.0	5	2	
8/18/2002f	15:40	100	2	8	22.1	8.10	40.6	1	NA	NR	3.95	Flood	116	63.0	72.0	5	2	
8/18/2002g	18:30	10	1	**120**	16.9	8.09	41.2	116	NA	NR	5.87	Flood	116	63.0	72.0	5	2	
8/18/2002h	21:45	300	2	2	21.3	7.32	39.3	0	NA	NR	4.07	Ebb	116	63.0	72.0	5	2	
8/19/2002a	0:30	1500	19	43	20.1	8.02	38.8	0	NA	NR	0.54	Ebb	94	64.6	85.5	5	2	Chlorination
8/19/2002b	3:35	200	12	20	19.6	7.99	38.6	0	NA	NR	-0.07	Flood	94	64.6	85.5	5	2	Chlorination
8/19/2002c	6:40	50	8	30	23.5	7.48	39.6	0	NA	NR	2.92	Flood	94	64.6	85.5	5	2	Chlorination
8/19/2002d	9:40	30	20	<1	25.5	7.97	40.6	0	NA	NR	3.95	Ebb	94	64.6	85.5	5	2	Chlorination
8/19/2002e	12:30	<1	<1	<1	28.6	7.80	40.5	2	NA	NR	2.69	Ebb	94	64.6	85.5	5	2	Chlorination
8/19/2002f	15:30	30	<1	9	27.9	7.96	40.6	2	NA	NR	3.09	Flood	94	64.6	85.5	5	2	Chlorination
8/19/2002g	18:20	10	2	**140**	28.1	7.90	40.8	341	NA	NR	5.53	Flood	94	64.6	85.5	5	2	Chlorination

Location: Discharge Vault (DV0)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
8/19/2002h	22:00	10	2	<1	22.2	7.97	40.4	2	NA	NR	4.75	Ebb	94	64.6	85.5	5	2	Chlorination
8/20/2002a	0:20	30	3	4	20.8	7.95	38.8	5	NA	NR	1.50	Ebb		65.0	85.0	5	2	
8/20/2002b	3:40	100	8	20	21.0	8.00	41.0	2	NA	NR	-0.46	Flood		65.0	85.0	5	2	
8/20/2002c	7:10	200	5	5	23.0	8.01	40.4	3	NA	NR	2.93	Flood		65.0	85.0	5	2	
8/20/2002d	9:20	10	<1	<1	25.5	7.95	42.5	1	NA	NR	4.19	Flood		65.0	85.0	5	2	
8/20/2002e	12:55	5	1	<1	23.8	7.95	42.2	3	NA	NR	2.64	Ebb		65.0	85.0	5	2	
8/20/2002f	15:20	4	2	16	24.9	7.96	43.2	1	NA	NR	2.42	Flood		65.0	85.0	5	2	
8/20/2002g	18:30	10	2	**110**	23.9	7.97	43.3	28	NA	NR	5.13	Flood		65.0	85.0	5	2	
8/20/2002h	21:50	<1	<1	<1	25.6	7.94	42.4	2	NA	NR	5.63	Ebb		65.0	85.0	5	2	
8/21/2002a	0:15	10	2	2	20.1	7.98	41.9	1	NA	NR	2.53	Ebb	98	64.2	80.0	5	2	
8/21/2002b	3:20	5	2	<1	20.4	8.02	41.8	1	NA	NR	-0.55	Ebb	98	64.2	80.0	5	2	
8/21/2002c	6:50	10	3	1	17.1	7.81	43.6	1	NA	NR	2.04	Flood	98	64.2	80.0	5	2	
8/21/2002d	9:50	20	1	<1	26.4	7.98	41.1	1	NA	NR	4.30	Flood	98	64.2	80.0	5	2	
8/21/2002e	12:40	10	<1	<1	24.5	7.99	42.4	4	NA	NR	3.03	Ebb	98	64.2	80.0	5	2	
8/21/2002f	15:30	10	<1	2	22.8	7.99	42.5	2	NA	NR	2.08	Flood	98	64.2	80.0	5	2	
8/21/2002g	18:30	<1	<1	11	23.1	8.08	43.3	1	NA	NR	4.45	Flood	98	64.2	80.0	5	2	
8/21/2002h	21:40	<1	<1	7	22.8	7.95	43.2	0	NA	NR	6.07	Ebb	98	64.2	80.0	5	2	
8/22/2002a	0:35	10	<1	8	18.9	7.97	42.6	2	NA	NR	2.90	Ebb		65.0	82.0	5	2	
8/22/2002b	3:15	20	<1	30	17.9	7.86	42.7	4	NA	NR	-0.22	Ebb		65.0	82.0	5	2	
8/22/2002c	6:50	10	7	12	19.8	7.93	42.4	2	NA	NR	1.56	Flood		65.0	82.0	5	2	
8/22/2002d	9:30	30	5	30	25.7	7.84	42.2	2	NA	NR	4.18	Flood		65.0	82.0	5	2	
8/22/2002e	12:30	20	<1	<1	28.3	7.94	41.4	7	NA	NR	3.47	Ebb		65.0	82.0	5	2	
8/22/2002f	15:30	<1	<1	<1	29.0	8.10	41.2	3	NA	NR	1.86	Ebb		65.0	82.0	5	2	
8/22/2002g	18:30	2	1	70	28.6	8.18	35.4	NA	NA	NR	3.73	Flood		65.0	82.0	5	2	
8/22/2002h	22:05	<1	<1	1	23.6	8.22	35.1	10	NA	NR	6.00	Ebb		65.0	82.0	5	2	
8/23/2002a	0:30	<1	<1	<1	19.9	8.25	35.3	NA	NA	NR	3.77	Ebb	90	61.5	83.7	5	2	Chlorination
8/23/2002b	3:25	30	11	35	20.0	8.20	35.0	NA	NA	NR	0.16	Ebb	90	61.5	83.7	5	2	Chlorination
8/23/2002c	7:00	12	2	5	20.6	8.19	35.2	10	NA	NR	1.39	Flood	90	61.5	83.7	5	2	Chlorination
8/23/2002d	9:35	40	3	<1	27.7	8.13	35.7	10	NA	NR	4.06	Flood	90	61.5	83.7	5	2	Chlorination
8/23/2002e	12:35	4	1	1	30.8	8.32	35.4	NA	NA	NR	3.75	Ebb	90	61.5	83.7	5	2	Chlorination
8/23/2002f	15:30	<1	<1	<1	30.3	8.23	34.4	NA	NA	NR	1.83	Ebb	90	61.5	83.7	5	2	Chlorination
8/23/2002g	18:30	20	<1	**470**	27.6	8.31	34.2	NA	NA	NR	3.04	Flood	90	61.5	83.7	5	2	Chlorination
8/23/2002h	21:40	100	2	3	28.0	8.20	34.2	NA	NA	NR	5.74	Flood	90	61.5	83.7	5	2	Chlorination
8/24/2002a	0:30	200	5	9	19.8	8.19	34.5	NA	NA	NR	4.33	Ebb		64.1	81.1	5	2	
8/24/2002b	3:30	120	13	20	19.8	8.14	34.2	NA	NA	NR	0.67	Ebb		64.1	81.1	5	2	
8/24/2002c	6:55	200	4	15	19.3	7.41	40.2	NA	NA	NR	1.06	Flood		64.1	81.1	5	2	
8/24/2002d	9:30	6	1	9	26.4	7.95	39.7	NA	NA	NR	3.77	Flood		64.1	81.1	5	2	

Location: Discharge Vault (DV0)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
8/24/2002e	12:30	100	5	27	28.0	8.09	28.7	NA	NA	NR	4.13	Ebb		64.1	81.1	5	2	
8/24/2002f	15:30	40	2	10	26.9	8.23	33.4	NA	NA	NR	1.98	Ebb		64.1	81.1	5	2	
8/24/2002g	18:30	20	4	12	23.1	8.06	32.6	NA	NA	NR	2.46	Flood		64.1	81.1	5	2	
8/24/2002h	21:40	500	40	40	25.0	8.26	31.6	NA	NA	NR	5.19	Flood		64.1	81.1	5	2	
8/25/2002a	0:30	50	20	50	21.8	7.62	28.2	NA	NA	NR	4.64	Ebb	32	64.7	86.1	5	2	
8/25/2002b	3:35	300	40	**330**	21.2	7.95	31.6	NA	NA	NR	1.22	Ebb	32	64.7	86.1	5	2	
8/25/2002c	6:45	100	13	11	18.7	7.87	40.8	NA	NA	NR	0.88	Flood	32	64.7	86.1	5	2	
8/25/2002d	9:30	10	2	<1	20.2	7.98	41.8	NA	NA	NR	3.51	Flood	32	64.7	86.1	5	2	
8/25/2002e	12:30	100	4	3	23.5	8.00	41.0	NA	NA	NR	4.39	Ebb	32	64.7	86.1	5	2	
8/25/2002f	15:30	100	3	5	26.4	8.03	41.1	114	NA	NR	2.29	Ebb	32	64.7	86.1	5	2	
8/25/2002g	18:30	100	4	1	26.0	7.98	40.5	NA	NA	NR	2.03	Flood	32	64.7	86.1	5	2	
8/25/2002h	21:35	30	<1	<1	24.7	7.98	41.1	200	NA	NR	4.41	Flood	32	64.7	86.1	5	2	
8/26/2002a	0:30	100	10	11	19.2	7.97	41.2	NA	NA	NR	4.68	Ebb	66	63.4	81.7	6	2	
8/26/2002b	3:40	80	2	13	18.8	7.98	41.0	NA	NA	NR	1.77	Ebb	66	63.4	81.7	6	2	
8/26/2002c	6:45	60	2	6	19.8	8.01	41.4	NA	NA	NR	1.02	Flood	66	63.4	81.7	6	2	
8/26/2002d	9:30	20	3	<1	25.6	7.94	41.6	NA	NA	NR	3.26	Flood	66	63.4	81.7	6	2	
8/26/2002e	12:30	10	<1	<1	29.2	8.04	40.7	NA	NA	NR	4.55	Ebb	66	63.4	81.7	6	2	
8/26/2002f	15:30	10	1	1	30.2	7.98	41.0	NA	NA	NR	2.72	Ebb	66	63.4	81.7	6	2	
8/26/2002g	18:30	100	5	4	28.7	7.91	39.4	44	NA	NR	1.80	Flood	66	63.4	81.7	6	2	
8/26/2002h	21:30	200	<1	5	27.8	7.94	40.5	NA	NA	NR	3.57	Flood	66	63.4	81.7	6	2	
8/27/2002a	0:30	300	<1	<1	18.9	8.00	41.1	NA	NA	NR	4.43	Ebb	57	64.0	86.6	5	2	Chlorination
8/27/2002b	3:30	300	5	6	18.8	8.01	40.8	NA	NA	NR	2.45	Ebb	57	64.0	86.6	5	2	Chlorination
8/27/2002c	6:30	500	23	21	20.9	7.95	40.4	20	NA	NR	1.26	Flood	57	64.0	86.6	5	2	Chlorination
8/27/2002d	9:30	300	5	20	25.8	7.92	40.5	215	NA	NR	3.06	Flood	57	64.0	86.6	5	2	Chlorination
8/27/2002e	12:30	400	<1	1	27.7	8.03	40.2	1	NA	NR	4.60	High Tide	57	64.0	86.6	5	2	Chlorination
8/27/2002f	15:30	500	<1	2	28.4	8.05	40.2	2	NA	NR	3.22	Ebb	57	64.0	86.6	5	2	Chlorination
8/27/2002g	18:30	300	<1	11	28.0	8.07	39.4	3	NA	NR	1.81	Ebb	57	64.0	86.6	5	2	Chlorination
8/27/2002h	21:55	900	1	3	25.8	8.06	39.5	2	NA	NR	3.07	Flood	57	64.0	86.6	5	2	Chlorination
8/28/2002a	0:15	300	4	1	20.7	8.06	39.9	3	NA	NR	3.92	Flood	73	65.2	87.2	5	2	
8/28/2002b	3:15	1100	13	2	21.0	8.03	39.2	4	NA	NR	2.96	Ebb	73	65.2	87.2	5	2	
8/28/2002c	6:30	300	4	<1	23.0	7.10	34.0	NA	NA	NR	1.70	Flood	73	65.2	87.2	5	2	
8/28/2002d	9:30	100	<1	<1	25.0	7.90	35.0	NA	NA	NR	2.95	Flood	73	65.2	87.2	5	2	
8/28/2002e	12:30	10	<1	<1	31.0	7.90	35.0	NA	NA	NR	4.53	Flood	73	65.2	87.2	5	2	
8/28/2002f	15:35	600	<1	4	30.0	7.90	34.0	NA	NA	NR	3.67	Ebb	73	65.2	87.2	5	2	
8/28/2002g	18:30	400	<1	6	30.1	8.04	34.6	NA	NA	NR	2.06	Ebb	73	65.2	87.2	5	2	
8/28/2002h	21:50	100	1	12	28.4	7.80	30.2	5	NA	NR	2.37	Flood	73	65.2	87.2	5	2	
8/29/2002a	0:35	50	1	1	20.8	7.94	30.1	8	NA	NR	3.27	Flood	86	65.2	87.9	5	2	

Location: Discharge Vault (DV0)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
8/29/2002b	3:25	300	9	2	20.5	7.93	30.7	3	NA	NR	2.99	Ebb	86	65.2	87.9	5	2	
8/29/2002c	6:45	300	6	2	22.7	7.56	31.4	44	NA	NR	2.15	Low Tide	86	65.2	87.9	5	2	
8/29/2002d	9:30	120	3	<1	28.0	7.93	31.5	NA	NA	NR	2.92	Flood	86	65.2	87.9	5	2	
8/29/2002e	12:30	10	1	1	29.2	7.99	31.6	NA	NA	NR	4.36	Flood	86	65.2	87.9	5	2	
8/29/2002f	15:45	100	2	5	30.2	7.95	31.3	NA	NA	NR	4.05	Ebb	86	65.2	87.9	5	2	
8/29/2002g	18:30	80	6	7	28.9	7.98	31.0	NA	NA	NR	2.53	Ebb	86	65.2	87.9	5	2	
8/29/2002h	21:30	40	<1	1	27.2	7.93	31.1	20	NA	NR	1.89	Flood	86	65.2	87.9	5	2	
8/30/2002a	0:30	20	1	<1	21.8	7.96	31.4	10	NA	NR	2.50	Flood		66.2	87.5	5	2	
8/30/2002b	3:30	40	2	<1	19.8	7.93	31.6	NA	NA	NR	2.88	Ebb		66.2	87.5	5	2	
8/30/2002c	6:30	20	1	<1	22.2	7.80	32.2	NA	NA	NR	2.59	Ebb		66.2	87.5	5	2	
8/30/2002d	9:30	30	4	2	25.2	7.93	32.3	NA	NA	NR	2.95	Flood		66.2	87.5	5	2	

Location: Discharge Vault (DV10)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
8/15/2002a	7:05	20	<1	<1	22.1	7.09	48.1	0	NA	33.8	2.38	Ebb	69	60.2	87.9	7	3	
8/15/2002b	9:50	10	2	2	28.6	7.94	48.4	NA	NA	31.8	2.17	Flood	69	60.2	87.9	7	3	
8/15/2002c	12:35	2	1	<1	30.6	8.01	51.4	6	NA	32.4	3.77	Flood	69	60.2	87.9	7	3	
8/15/2002d	15:45	<1	<1	4	30.3	8.01	50.1	3	NA	32.4	5.38	Flood	69	60.2	87.9	7	3	
8/15/2002e	18:40	10	1	90	30.2	7.99	49.2	1	NA	32.8	3.94	Ebb	69	60.2	87.9	7	3	
8/15/2002f	21:55	100	2	70	28.7	7.94	48.3	42	NA	31.8	1.20	Ebb	69	60.2	87.9	7	3	
8/16/2002a	0:40	100	5	10	22.3	8.06	47.8	1	NA	31.2	1.03	Flood	130	61.7	84.7	5	2	
8/16/2002b	3:40	100	3	<1	21.3	8.07	48.4	122	NA	31.6	2.68	Flood	130	61.7	84.7	5	2	
8/16/2002c	6:55	20	3	8	24.4	6.92	48.9	4	NA	32.2	3.12	Ebb	130	61.7	84.7	5	2	
8/16/2002d	9:40	10	4	1	28.2	7.96	49.7	3	NA	33.7	2.53	Ebb	130	61.7	84.7	5	2	
8/16/2002e	12:35	<1	<1	<1	29.8	7.82	50.0	4	NA	33.7	3.23	Flood	130	61.7	84.7	5	2	
8/16/2002f	16:05	<1	<1	1	27.2	7.92	50.2	124	NA	33.7	5.37	Flood	130	61.7	84.7	5	2	
8/16/2002g	18:35	20	1	87	26.2	7.91	50.3	1	NA	32.9	5.02	Ebb	130	61.7	84.7	5	2	
8/16/2002h	22:05	200	4	20	30.2	7.89	48.8	2	NA	31.9	1.63	Ebb	130	61.7	84.7	5	2	
8/17/2002a	0:35	200	10	50	29.3	6.65	70.5	NA	NA	40.0	0.26	Ebb	117	62.3	83.0	5	2	
8/17/2002b	3:39	900	30	90	23.3	8.23	39.1	0	NA	NR	1.72	Flood	117	62.3	83.0	5	2	
8/17/2002c	6:55	90	1	8	23.6	7.74	46.9	0	NA	30.7	3.46	Flood	117	62.3	83.0	5	2	
8/17/2002d	9:50	80	5	2	26.4	7.86	46.5	240	NA	30.3	3.00	Ebb	117	62.3	83.0	5	2	
8/17/2002e	12:50	40	2	2	29.2	7.84	47.2	0	NA	30.9	2.91	Flood	117	62.3	83.0	5	2	
8/17/2002f	15:54	40	3	9	26.6	7.89	45.2	112	NA	NR	4.85	Flood	117	62.3	83.0	5	2	
8/17/2002g	18:25	80	4	100	23.7	7.13	39.9	93	NA	NR	5.71	Ebb	117	62.3	83.0	5	2	
8/17/2002h	22:20	60	1	<1	22.4	7.80	41.0	24	NA	NR	2.25	Ebb	117	62.3	83.0	5	2	
8/18/2002a	0:31	900	4	18	18.4	7.76	40.3	10	NA	NR	0.15	Ebb	116	63.0	72.0	5	2	
8/18/2002b	3:30	30	7	9	17.5	7.83	39.7	10	NA	NR	0.62	Flood	116	63.0	72.0	5	2	
8/18/2002c	6:40	20	8	1	19.4	7.82	42.5	0	NA	NR	3.31	Flood	116	63.0	72.0	5	2	
8/18/2002d	9:56	120	1	2	20.8	8.07	41.5	1	NA	NR	3.46	Ebb	116	63.0	72.0	5	2	
8/18/2002e	12:40	20	1	<1	22.0	8.08	41.3	1	NA	NR	2.64	Ebb	116	63.0	72.0	5	2	
8/18/2002f	15:30	50	2	20	22.2	8.12	40.3	2	NA	NR	3.82	Flood	116	63.0	72.0	5	2	
8/18/2002g	18:40	10	1	85	21.7	8.11	40.8	0	NA	NR	5.91	Flood	116	63.0	72.0	5	2	
8/18/2002h	21:55	100	1	<1	20.9	7.99	39.8	0	NA	NR	3.86	Ebb	116	63.0	72.0	5	2	
8/19/2002a	0:40	600	10	10	20.5	8.04	39.4	0	NA	NR	0.38	Ebb	94	64.6	85.5	5	2	Chlorination
8/19/2002b	3:50	50	4	15	20.7	8.04	39.1	0	NA	NR	0.10	Flood	94	64.6	85.5	5	2	Chlorination
8/19/2002c	6:50	10	4	10	23.9	7.88	40.5	0	NA	NR	3.07	Flood	94	64.6	85.5	5	2	Chlorination
8/19/2002d	9:50	20	4	<1	27.6	7.94	40.7	0	NA	NR	3.90	Ebb	94	64.6	85.5	5	2	Chlorination
8/19/2002e	12:40	<1	<1	<1	29.8	7.87	41.8	0	NA	NR	2.63	Ebb	94	64.6	85.5	5	2	Chlorination
8/19/2002f	15:45	10	<1	15	30.2	7.94	41.7	1	NA	NR	3.28	Flood	94	64.6	85.5	5	2	Chlorination
8/19/2002g	18:30	<1	<1	**160**	27.9	7.93	41.6	129	NA	NR	5.64	Flood	94	64.6	85.5	5	2	Chlorination

Location: Discharge Vault (DV10)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
8/19/2002h	22:15	10	2	2	22.0	7.99	40.6	106	NA	NR	4.45	Ebb	94	64.6	85.5	5	2	Chlorination
8/20/2002a	0:30	90	5	6	21.0	8.00	39.2	3	NA	NR	1.28	Ebb		65.0	85.0	5	2	
8/20/2002b	3:45	70	5	12	20.8	7.99	40.6	4	NA	NR	-0.43	Flood		65.0	85.0	5	2	
8/20/2002c	7:15	90	2	4	23.9	7.99	41.5	2	NA	NR	3.01	Flood		65.0	85.0	5	2	
8/20/2002d	9:25	3	1	1	27.3	7.94	41.4	1	NA	NR	4.19	Flood		65.0	85.0	5	2	
8/20/2002e	13:10	10	2	<1	26.0	8.00	43.0	8	NA	NR	2.52	Ebb		65.0	85.0	5	2	
8/20/2002f	15:30	10	2	41	21.2	8.03	43.8	1	NA	NR	2.50	Flood		65.0	85.0	5	2	
8/20/2002g	18:45	2	<1	100	20.5	8.00	43.1	1	NA	NR	5.35	Flood		65.0	85.0	5	2	
8/20/2002h	21:50	<1	<1	<1	27.8	7.93	42.0	2	NA	NR	5.63	Ebb		65.0	85.0	5	2	
8/21/2002a	0:30	10	<1	62	20.5	8.00	41.9	1	NA	NR	2.16	Ebb	98	64.2	80.0	5	2	
8/21/2002b	3:30	<1	<1	<1	20.9	8.01	41.7	1	NA	NR	-0.57	Ebb	98	64.2	80.0	5	2	
8/21/2002c	7:00	10	5	2	21.5	7.79	42.2	1	NA	NR	2.24	Flood	98	64.2	80.0	5	2	
8/21/2002d	9:45	20	<1	2	25.0	7.95	41.9	0	NA	NR	4.30	Flood	98	64.2	80.0	5	2	
8/21/2002e	12:35	40	3	<1	25.6	8.00	41.5	4	NA	NR	3.09	Ebb	98	64.2	80.0	5	2	
8/21/2002f	15:45	120	2	2	21.0	7.99	43.4	4	NA	NR	2.16	Flood	98	64.2	80.0	5	2	
8/21/2002g	18:45	<1	<1	23	23.4	8.00	42.9	0	NA	NR	4.72	Flood	98	64.2	80.0	5	2	
8/21/2002h	22:00	<1	<1	<1	24.9	7.96	42.6	0	NA	NR	5.92	Ebb	98	64.2	80.0	5	2	
8/22/2002a	0:30	10	1	<1	19.3	7.98	42.4	2	NA	NR	3.03	Ebb		65.0	82.0	5	2	
8/22/2002b	3:35	5	<1	<1	19.2	8.01	41.8	2	NA	NR	-0.37	Ebb		65.0	82.0	5	2	
8/22/2002c	6:55	20	4	11	21.3	7.96	41.9	2	NA	NR	1.66	Flood		65.0	82.0	5	2	
8/22/2002d	9:43	<1	<1	<1	26.0	7.93	42.5	2	NA	NR	4.28	Flood		65.0	82.0	5	2	
8/22/2002e	12:30	6	1	<1	28.7	7.99	41.4	3	NA	NR	3.47	Ebb		65.0	82.0	5	2	
8/22/2002f	15:45	<1	<1	2	29.0	8.02	41.4	2	NA	NR	1.87	Flood		65.0	82.0	5	2	
8/22/2002g	18:45	5	3	14	27.6	8.22	35.1	NA	NA	NR	4.00	Flood		65.0	82.0	5	2	
8/22/2002h	22:10	<1	<1	2	25.8	8.22	35.2	10	NA	NR	5.97	Ebb		65.0	82.0	5	2	
8/23/2002a	0:35	8	<1	2	20.1	8.27	35.4	NA	NA	NR	3.66	Ebb	90	61.5	83.7	5	2	Chlorination
8/23/2002b	3:40	10	1	9	20.0	8.30	35.0	NA	NA	NR	0.00	Ebb	90	61.5	83.7	5	2	Chlorination
8/23/2002c	7:10	8	3	51	21.6	8.20	35.3	10	NA	NR	1.58	Flood	90	61.5	83.7	5	2	Chlorination
8/23/2002d	9:45	10	2	<1	NA	NA	NA	NA	NA	NA	4.16	Flood	90	61.5	83.7	5	2	Chlorination
8/23/2002e	12:50	10	1	1	30.8	8.31	35.5	NA	NA	NR	3.56	Ebb	90	61.5	83.7	5	2	Chlorination
8/23/2002f	15:45	<1	<1	<1	30.2	8.18	34.9	NA	NA	NR	1.78	Ebb	90	61.5	83.7	5	2	Chlorination
8/23/2002g	18:45	300	2	**610**	27.7	8.33	34.5	NA	NA	NR	3.29	Flood	90	61.5	83.7	5	2	Chlorination
8/23/2002h	21:50	40	<1	1	29.4	8.27	35.0	NA	NA	NR	5.78	Flood	90	61.5	83.7	5	2	Chlorination
8/24/2002a	0:40	110	2	2	19.7	8.28	35.2	NA	NA	NR	4.13	Ebb		64.1	81.1	5	2	
8/24/2002b	3:40	320	5	7	18.1	8.22	34.6	NA	NA	NR	0.54	Ebb		64.1	81.1	5	2	
8/24/2002c	7:10	50	3	3	19.9	7.60	41.6	NA	NA	NR	1.31	Flood		64.1	81.1	5	2	
8/24/2002d	9:38	11	3	7	26.1	7.97	40.7	NA	NA	NR	3.91	Flood		64.1	81.1	5	2	

Location: Discharge Vault (DV10)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
8/24/2002e	12:35	40	10	17	28.0	8.06	40.2	NA	NA	NR	4.08	Ebb		64.1	81.1	5	2	
8/24/2002f	15:40	10	<1	<1	26.9	8.01	40.9	NA	NA	NR	1.90	Ebb		64.1	81.1	5	2	
8/24/2002g	18:40	10	2	3	26.0	8.00	39.3	NA	NA	NR	2.59	Flood		64.1	81.1	5	2	
8/24/2002h	21:50	100	8	10	28.1	8.02	38.8	NA	NA	NR	5.27	Flood		64.1	81.1	5	2	
8/25/2002a	0:40	100	12	9	20.5	7.94	38.9	NA	NA	NR	4.49	Ebb	32	64.7	86.1	5	2	
8/25/2002b	3:40	400	20	70	20.1	7.96	38.2	NA	NA	NR	1.15	Ebb	32	64.7	86.1	5	2	
8/25/2002c	6:50	90	10	10	18.7	7.91	41.2	NA	NA	NR	0.94	Flood	32	64.7	86.1	5	2	
8/25/2002d	9:35	10	1	2	20.4	7.99	41.4	NA	NA	NR	3.58	Flood	32	64.7	86.1	5	2	
8/25/2002e	12:40	90	4	1	23.1	8.01	41.0	NA	NA	NR	4.32	Ebb	32	64.7	86.1	5	2	
8/25/2002f	15:40	100	3	1	26.8	8.06	41.1	NA	NA	NR	2.18	Ebb	32	64.7	86.1	5	2	
8/25/2002g	18:40	100	1	1	26.0	8.03	41.0	NA	NA	NR	2.12	Flood	32	64.7	86.1	5	2	
8/25/2002h	21:45	100	2	1	23.9	7.99	41.1	NA	NA	NR	4.52	Flood	32	64.7	86.1	5	2	
8/26/2002a	0:40	90	4	1	19.1	7.97	41.3	NA	NA	NR	4.58	Ebb	66	63.4	81.7	6	2	
8/26/2002b	3:50	100	4	50	19.2	7.99	40.6	NA	NA	NR	1.63	Ebb	66	63.4	81.7	6	2	
8/26/2002c	6:50	200	5	3	20.4	7.87	42.0	NA	NA	NR	1.06	Flood	66	63.4	81.7	6	2	
8/26/2002d	9:40	30	<1	1	26.0	7.93	41.6	NA	NA	NR	3.41	Flood	66	63.4	81.7	6	2	
8/26/2002e	12:30	10	1	<1	28.1	8.04	41.1	NA	NA	NR	4.55	Ebb	66	63.4	81.7	6	2	
8/26/2002f	15:45	<1	<1	<1	30.2	7.97	41.1	NA	NA	NR	2.54	Ebb	66	63.4	81.7	6	2	
8/26/2002g	18:45	30	1	1	28.8	7.92	39.5	23	NA	NR	1.88	Flood	66	63.4	81.7	6	2	
8/26/2002h	21:45	100	<1	2	28.1	7.96	41.1	NA	NA	NR	3.74	Flood	66	63.4	81.7	6	2	
8/27/2002a	0:40	200	2	2	18.8	8.04	41.4	NA	NA	NR	4.38	Ebb	57	64.0	86.6	5	2	Chlorination
8/27/2002b	3:40	500	3	2	18.8	8.04	41.0	NA	NA	NR	2.32	Ebb	57	64.0	86.6	5	2	Chlorination
8/27/2002c	6:45	1700	7	5	20.8	7.98	41.0	NA	NA	NR	1.32	Flood	57	64.0	86.6	5	2	Chlorination
8/27/2002d	9:45	300	3	10	26.5	7.97	40.6	NA	NA	NR	3.27	Flood	57	64.0	86.6	5	2	Chlorination
8/27/2002e	12:45	200	<1	<1	28.3	8.04	40.3	112	NA	NR	4.59	Ebb	57	64.0	86.6	5	2	Chlorination
8/27/2002f	15:45	500	<1	2	27.9	8.07	40.1	1	NA	NR	3.04	Ebb	57	64.0	86.6	5	2	Chlorination
8/27/2002g	18:45	200	2	48	28.6	8.07	39.3	2	NA	NR	1.81	Flood	57	64.0	86.6	5	2	Chlorination
8/27/2002h	22:00	100	1	1	25.8	8.08	39.5	1	NA	NR	3.12	Flood	57	64.0	86.6	5	2	Chlorination
8/28/2002a	0:20	200	3	<1	21.0	8.09	40.2	1	NA	NR	3.92	Flood	73	65.2	87.2	5	2	
8/28/2002b	3:20	200	<1	<1	20.1	8.06	40.4	0	NA	NR	2.91	Ebb	73	65.2	87.2	5	2	
8/28/2002c	6:45	200	2	<1	24.0	7.70	3.5	NA	NA	NR	1.71	Flood	73	65.2	87.2	5	2	
8/28/2002d	9:45	200	<1	1	26.0	7.90	35.0	NA	NA	NR	3.12	Flood	73	65.2	87.2	5	2	
8/28/2002e	12:45	<1	<1	<1	31.0	7.90	35.0	NA	NA	NR	4.56	Flood	73	65.2	87.2	5	2	
8/28/2002f	15:45	900	10	6	30.0	7.90	34.0	NA	NA	NR	3.56	Ebb	73	65.2	87.2	5	2	
8/28/2002g	18:40	70	<1	2	30.2	7.95	34.8	NA	NA	NR	2.02	Ebb	73	65.2	87.2	5	2	
8/28/2002h	22:00	100	1	4	28.1	7.89	30.6	NA	NA	NR	2.44	Flood	73	65.2	87.2	5	2	
8/29/2002a	0:40	30	1	<1	21.1	7.94	30.6	2	NA	NR	3.28	Flood	86	65.2	87.9	5	2	

Location: Discharge Vault (DV10)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
8/29/2002b	3:30	100	1	1	20.6	7.94	31.0	0	NA	NR	2.96	Ebb	86	65.2	87.9	5	2	
8/29/2002c	7:00	90	<1	<1	23.4	7.94	31.5	NA	NA	NR	2.16	Flood	86	65.2	87.9	5	2	
8/29/2002d	9:45	110	1	<1	30.1	7.93	31.7	NA	NA	NR	3.04	Flood	86	65.2	87.9	5	2	
8/29/2002e	12:45	20	<1	<1	30.1	7.99	31.9	NA	NA	NR	4.43	Flood	86	65.2	87.9	5	2	
8/29/2002f	15:50	30	<1	<1	28.7	8.00	31.8	NA	NA	NR	4.01	Ebb	86	65.2	87.9	5	2	
8/29/2002g	18:45	30	2	55	29.0	8.02	31.1	NA	NA	NR	2.41	Ebb	86	65.2	87.9	5	2	
8/29/2002h	21:35	70	<1	<1	28.2	7.96	31.6	10	NA	NR	1.89	Flood	86	65.2	87.9	5	2	
8/30/2002a	0:35	20	<1	<1	22.1	8.02	31.7	10	NA	NR	2.52	Flood		66.2	87.5	5	2	
8/30/2002b	3:40	40	2	<1	19.8	8.00	31.7	NA	NA	NR	2.87	Ebb		66.2	87.5	5	2	
8/30/2002c	6:45	20	3	<1	22.8	7.86	32.4	NA	NA	NR	2.58	Ebb		66.2	87.5	5	2	
8/30/2002d	9:45	20	1	<1	25.3	7.94	32.6	NA	NA	NR	3.03	Flood		66.2	87.5	5	2	

Location: General Retention Basin (GP)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
8/15/2002a	11:30	110	30	30	28.3	8.25	3.3	9	7.34	1.6	2.98	Flood	69	60.2	87.9	7	3	
8/16/2002a	10:55	110	15	40	27.8	8.30	3.1	14	5.89	1.5	2.58	Flood	130	61.7	84.7	5	2	
8/17/2002a	11:30	6100	32	30	25.0	8.31	3.1	11	NA	1.5	2.71	Ebb	117	62.3	83.0	5	2	
8/18/2002a	11:00	400	200	40	21.2	8.37	9.9	13	9.37	5.0	3.04	Ebb	116	63.0	72.0	5	2	
8/19/2002a	11:30	200	110	8	24.2	8.17	15.2	11	10.17	8.8	3.15	Ebb	94	64.6	85.5	5	2	Chlorination
8/20/2002a	11:45	100	10	4	23.2	8.18	18.7	10	NA	11.3	3.33	Ebb		65.0	85.0	5	2	
8/21/2002a	11:15	100	10	2	22.4	8.25	21.8	8	NA	13.3	3.95	Ebb	98	64.2	80.0	5	2	
8/22/2002a	11:20	1300	20	30	25.6	8.39	21.7	10	NA	13.1	4.18	Ebb		65.0	82.0	5	2	
8/23/2002a	11:00	5000	50	40	24.5	8.65	19.3	10	NA	11.6	4.45	Ebb	90	61.5	83.7	5	2	Chlorination
8/24/2002a	10:15	200	13	30	24.9	8.35	18.7	NA	NA	11.0	4.28	Flood		64.1	81.1	5	2	
8/25/2002a	10:15	200	30	30	23.7	8.41	23.7	NA	NA	14.4	4.10	Flood	32	64.7	86.1	5	2	
8/26/2002a	10:25	2000	20	50	25.1	8.30	25.2	NA	NA	15.5	4.00	Flood	66	63.4	81.7	6	2	
8/27/2002a	11:24	7000	20	**210**	24.0	8.45	25.5	14	10.27	15.7	4.35	Flood	57	64.0	86.6	5	2	Chlorination
8/28/2002a	10:55	8000	20	50	23.0	8.30	21.0	NA	9.30	12.0	3.88	Flood	73	65.2	87.2	5	2	
8/29/2002a	11:05	3300	25	100	25.2	8.36	16.9	NA	8.00	9.9	3.75	Flood	86	65.2	87.9	5	2	
8/30/2002a	9:20	900	20	20	24.2	8.30	13.5	NA	7.82	7.7	2.90	Flood		66.2	87.5	5	2	

Location: Intake Vault (IV)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
8/15/2002a	8:20	2	<1	28	17.9	8.09	50.2	10	8.00	32.9	2.06	Ebb	69	60.2	87.9	7	3	
8/15/2002b	9:56	5	2	<1	18.6	8.08	50.4	NA	7.37	33.0	2.19	Flood	69	60.2	87.9	7	3	
8/15/2002c	12:55	<1	<1	<1	18.9	8.13	50.4	59	7.66	33.0	4.02	Flood	69	60.2	87.9	7	3	
8/15/2002d	15:30	<1	<1	30	20.7	8.11	50.1	94	8.86	33.0	5.36	Flood	69	60.2	87.9	7	3	
8/15/2002e	18:30	3	<1	**590**	20.4	8.09	50.3	1	7.36	33.0	4.09	Ebb	69	60.2	87.9	7	3	
8/15/2002f	22:34	10	<1	<1	20.0	8.07	50.5	2	7.26	33.1	0.92	Ebb	69	60.2	87.9	7	3	
8/16/2002a	1:00	20	15	12	19.4	8.11	50.4	2	7.11	33.1	1.17	Flood	130	61.7	84.7	5	2	
8/16/2002b	3:55	10	1	<1	19.0	8.06	50.7	3	6.88	33.2	2.80	Flood	130	61.7	84.7	5	2	
8/16/2002c	7:00	30	5	11	19.3	8.07	50.6	2	7.02	33.2	3.10	Ebb	130	61.7	84.7	5	2	
8/16/2002d	9:45	11	2	<1	18.2	8.07	50.4	2	7.15	32.9	2.52	Ebb	130	61.7	84.7	5	2	
8/16/2002e	12:50	<1	<1	43	19.7	8.00	52.7	2	8.07	32.9	3.37	Flood	130	61.7	84.7	5	2	
8/16/2002f	15:35	20	2	18	20.2	7.97	52.3	22	7.95	34.4	5.16	Flood	130	61.7	84.7	5	2	
8/16/2002g	18:20	10	<1	**150**	20.1	7.99	52.2	21	7.83	34.3	5.17	Ebb	130	61.7	84.7	5	2	
8/16/2002h	21:42	20	1	2	19.9	7.63	52.6	2	7.26	34.7	2.04	Ebb	130	61.7	84.7	5	2	
8/17/2002a	0:14	20	2	2	18.6	7.90	52.7	1	7.87	34.7	0.30	Ebb	117	62.3	83.0	5	2	
8/17/2002b	3:25	10	2	2	19.1	7.94	45.3	NA	10.09	NR	1.53	Flood	117	62.3	83.0	5	2	
8/17/2002c	7:20	70	2	2	19.6	7.82	46.9	0	9.51	30.3	3.49	Flood	117	62.3	83.0	5	2	
8/17/2002d	10:00	5	<1	<1	19.3	7.74	46.2	170	NA	NR	2.96	Ebb	117	62.3	83.0	5	2	
8/17/2002e	13:11	10	2	<1	20.3	7.78	45.6	214	NA	NR	2.75	Flood	117	62.3	83.0	5	2	
8/17/2002f	16:04	10	<1	4	20.1	7.99	47.7	189	9.86	31.2	4.96	Flood	117	62.3	83.0	5	2	
8/17/2002g	18:37	<1	<1	**500**	16.7	7.23	42.1	NA	5.41	31.2	5.65	Ebb	117	62.3	83.0	5	2	
8/17/2002h	21:45	10	<1	<1	14.7	7.85	43.7	10	6.19	NR	2.97	Ebb	117	62.3	83.0	5	2	
8/18/2002a	0:12	5	<1	<1	NA	7.82	44.6	10	5.67	NR	0.37	Ebb	116	63.0	72.0	5	2	
8/18/2002b	3:05	8	5	1	NA	7.83	47.9	10	6.48	33.2	0.32	Flood	116	63.0	72.0	5	2	
8/18/2002c	6:50	2	1	<1	17.0	8.08	43.0	0	10.27	NR	3.40	Flood	116	63.0	72.0	5	2	
8/18/2002d	10:00	10	2	<1	17.8	8.11	42.5	0	9.98	NR	3.43	Ebb	116	63.0	72.0	5	2	
8/18/2002e	12:50	3	1	<1	18.5	8.12	41.9	1	10.06	NR	2.64	Low Tide	116	63.0	72.0	5	2	
8/18/2002f	15:45	10	<1	82	18.3	8.12	42.1	0	NA	NR	4.02	Flood	116	63.0	72.0	5	2	
8/18/2002g	18:45	10	<1	**140**	18.3	8.11	41.9	0	NA	NR	5.92	Flood	116	63.0	72.0	5	2	
8/18/2002h	22:10	10	<1	5	18.7	8.04	40.8	1	10.04	NR	3.54	Ebb	116	63.0	72.0	5	2	
8/19/2002a	1:00	40	4	2	18.9	8.05	40.8	1	9.90	NR	0.09	Ebb	94	64.6	85.5	5	2	Chlorination
8/19/2002b	4:00	4	3	2	18.6	8.06	40.9	0	9.52	NR	0.23	Flood	94	64.6	85.5	5	2	Chlorination
8/19/2002c	7:00	20	<1	2	18.4	8.02	42.4	0	10.17	NR	3.21	Flood	94	64.6	85.5	5	2	Chlorination
8/19/2002d	9:45	2	<1	2	17.0	8.02	42.9	0	NA	NR	3.93	Ebb	94	64.6	85.5	5	2	Chlorination
8/19/2002e	12:50	80	3	<1	18.5	8.04	42.5	8	9.62	NR	2.58	Ebb	94	64.6	85.5	5	2	Chlorination
8/19/2002f	16:00	<1	<1	72	18.4	7.91	42.6	2	10.65	NR	3.47	Flood	94	64.6	85.5	5	2	Chlorination
8/19/2002g	18:40	<1	<1	90	18.9	8.01	42.5	0	10.36	NR	5.75	Flood	94	64.6	85.5	5	2	Chlorination

Location: Intake Vault (IV)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
8/19/2002h	22:35	<1	<1	1	18.9	8.02	42.1	4	10.20	NR	4.01	Ebb	94	64.6	85.5	5	2	Chlorination
8/20/2002a	0:45	20	<1	**160**	18.4	8.02	41.8	4	9.87	NR	0.96	Ebb		65.0	85.0	5	2	
8/20/2002b	3:55	20	4	8	19.0	8.02	41.9	3	9.43	NR	-0.35	Flood		65.0	85.0	5	2	
8/20/2002c	7:05	20	3	<1	18.9	8.02	42.5	0	10.17	NR	2.84	Flood		65.0	85.0	5	2	
8/20/2002d	9:15	4	2	<1	18.5	8.01	42.6	0	10.44	NR	4.18	Flood		65.0	85.0	5	2	
8/20/2002e	12:40	<1	<1	<1	18.5	7.93	42.4	1	NA	NR	2.78	Ebb		65.0	85.0	5	2	
8/20/2002f	16:00	<1	<1	4	16.7	8.07	43.9	34	NA	NR	2.79	Flood		65.0	85.0	5	2	
8/20/2002g	19:00	<1	<1	**520**	17.6	8.07	43.6	1	NA	NR	5.56	Flood		65.0	85.0	5	2	
8/20/2002h	21:50	20	1	<1	17.8	8.00	43.0	1	10.44	NR	5.63	Ebb		65.0	85.0	5	2	
8/21/2002a	0:10	10	2	**210**	17.9	7.98	42.3	6	10.35	NR	2.66	Ebb	98	64.2	80.0	5	2	
8/21/2002b	3:10	<1	<1	5	18.5	7.97	41.9	2	10.27	NR	-0.51	Ebb	98	64.2	80.0	5	2	
8/21/2002c	7:20	150	110	2	17.1	7.81	43.0	1	NA	NR	2.63	Flood	98	64.2	80.0	5	2	
8/21/2002d	9:55	30	4	<1	18.3	8.08	42.9	1	NA	NR	4.31	Flood	98	64.2	80.0	5	2	
8/21/2002e	12:50	<1	<1	<1	NA	NA	NA	NA	NA	NR	2.91	Ebb	98	64.2	80.0	5	2	
8/21/2002f	16:00	<1	<1	33	18.7	8.09	43.8	6	NA	NR	2.26	Flood	98	64.2	80.0	5	2	
8/21/2002g	19:00	<1	<1	15	18.0	8.08	43.5	1	NA	NR	4.97	Flood	98	64.2	80.0	5	2	
8/21/2002h	21:45	4	<1	1	16.3	8.02	44.2	0	10.39	NR	6.04	Ebb	98	64.2	80.0	5	2	
8/22/2002a	0:25	4	2	6	16.1	7.97	43.7	1	10.83	NR	3.15	Ebb		65.0	82.0	5	2	
8/22/2002b	3:25	<1	<1	<1	17.0	7.97	42.4	4	11.09	NR	-0.30	Ebb		65.0	82.0	5	2	
8/22/2002c	7:00	8	3	8	17.4	8.01	42.0	3	NA	NR	1.76	Flood		65.0	82.0	5	2	
8/22/2002d	9:50	10	<1	1	20.4	8.02	41.8	3	NA	NR	4.31	Flood		65.0	82.0	5	2	
8/22/2002e	12:55	20	<1	<1	23.5	8.05	41.9	6	NA	NR	3.15	Ebb		65.0	82.0	5	2	
8/22/2002f	16:00	<1	<1	11	21.4	7.57	34.9	NA	NA	NR	1.91	Flood		65.0	82.0	5	2	
8/22/2002g	19:00	4	1	**210**	19.4	8.36	35.5	43	8.61	NR	4.27	Flood		65.0	82.0	5	2	
8/22/2002h	22:00	2	<1	73	18.2	8.27	35.3	10	9.73	NR	6.01	Ebb		65.0	82.0	5	2	
8/23/2002a	0:25	5	2	3	18.1	8.28	35.4	NA	9.87	NR	3.89	Ebb	90	61.5	83.7	5	2	Chlorination
8/23/2002b	3:30	12	6	5	18.0	8.30	35.0	NA	8.40	NR	0.10	Ebb	90	61.5	83.7	5	2	Chlorination
8/23/2002c	7:20	13	3	3	17.3	8.27	35.4	10	NA	NR	1.77	Flood	90	61.5	83.7	5	2	Chlorination
8/23/2002d	9:55	10	<1	<1	19.7	8.35	35.6	10	NA	NR	4.25	Flood	90	61.5	83.7	5	2	Chlorination
8/23/2002e	13:05	5	1	<1	21.8	8.41	35.3	NA	NA	NR	3.37	Ebb	90	61.5	83.7	5	2	Chlorination
8/23/2002f	16:00	9	<1	46	19.5	8.40	35.4	NA	11.02	NR	1.75	Ebb	90	61.5	83.7	5	2	Chlorination
8/23/2002g	19:00	1	<1	43	19.5	8.42	35.2	NA	11.26	NR	3.55	Flood	90	61.5	83.7	5	2	Chlorination
8/23/2002h	22:00	30	<1	<1	19.0	8.37	33.3	NA	10.76	NR	5.81	Flood	90	61.5	83.7	5	2	Chlorination
8/24/2002a	0:50	6	<1	2	17.8	8.19	35.2	NA	10.11	NR	3.92	Ebb		64.1	81.1	5	2	
8/24/2002b	4:05	7	<1	<1	16.8	8.28	35.7	NA	10.75	NR	0.27	Ebb		64.1	81.1	5	2	
8/24/2002c	7:15	10	2	<1	16.6	7.89	42.0	NA	NA	NR	1.40	Flood		64.1	81.1	5	2	
8/24/2002d	9:52	10	2	<1	19.3	8.06	41.3	NA	NA	NR	4.03	Flood		64.1	81.1	5	2	

Location: Intake Vault (IV)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
8/24/2002e	12:40	10	2	2	21.2	8.11	40.9	NA	NA	NR	4.03	Ebb		64.1	81.1	5	2	
8/24/2002f	15:50	2	<1	<1	19.3	8.09	41.4	NA	10.95	NR	1.84	Ebb		64.1	81.1	5	2	
8/24/2002g	18:50	<1	<1	<1	18.6	8.05	41.4	NA	10.10	NR	2.73	Flood		64.1	81.1	5	2	
8/24/2002h	22:00	<1	<1	<1	18.2	8.06	41.4	NA	9.91	NR	5.34	Flood		64.1	81.1	5	2	
8/25/2002a	0:50	<1	1	<1	17.4	7.94	41.5	NA	7.38	NR	4.32	Ebb	32	64.7	86.1	5	2	
8/25/2002b	3:55	5	1	<1	17.0	7.96	41.6	NA	NA	NR	0.95	Ebb	32	64.7	86.1	5	2	
8/25/2002c	7:00	3	<1	2	16.8	7.94	41.7	NA	NA	NR	1.06	Flood	32	64.7	86.1	5	2	
8/25/2002d	9:40	3	2	1	17.9	8.02	41.7	NA	NA	NR	3.66	Flood	32	64.7	86.1	5	2	
8/25/2002e	12:50	2	<1	<1	19.8	8.05	41.3	NA	NA	NR	4.23	Ebb	32	64.7	86.1	5	2	
8/25/2002f	15:50	3	1	1	18.8	8.12	39.6	94	11.12	NR	2.09	Ebb	32	64.7	86.1	5	2	
8/25/2002g	18:50	<1	<1	<1	18.4	8.08	41.6	NA	10.89	NR	2.22	Flood	32	64.7	86.1	5	2	
8/25/2002h	22:00	3	<1	<1	18.1	8.06	41.4	NA	8.15	NR	4.67	Flood	32	64.7	86.1	5	2	
8/26/2002a	0:50	5	1	<1	16.6	7.98	41.8	NA	10.06	NR	4.46	Ebb	66	63.4	81.7	6	2	
8/26/2002b	4:00	3	<1	<1	17.2	7.99	41.8	NA	9.61	NR	1.49	Ebb	66	63.4	81.7	6	2	
8/26/2002c	7:00	40	11	3	16.5	7.88	42.1	NA	NA	NR	1.15	Flood	66	63.4	81.7	6	2	
8/26/2002d	9:45	20	<1	1	18.8	8.00	41.6	NA	NA	NR	3.48	Flood	66	63.4	81.7	6	2	
8/26/2002e	12:45	2	1	<1	20.5	8.11	40.8	NA	NA	NR	4.49	Ebb	66	63.4	81.7	6	2	
8/26/2002f	16:00	<1	<1	<1	19.0	8.01	41.2	NA	NA	NR	2.37	Ebb	66	63.4	81.7	6	2	
8/26/2002g	18:00	<1	<1	<1	19.7	7.99	40.4	50	NA	NR	1.73	Flood	66	63.4	81.7	6	2	
8/26/2002h	22:00	2	<1	<1	18.7	8.04	41.0	NA	8.01	NR	3.90	Flood	66	63.4	81.7	6	2	
8/27/2002a	0:50	2	1	<1	16.2	8.02	41.5	NA	9.73	NR	4.32	Ebb	57	64.0	86.6	5	2	Chlorination
8/27/2002b	3:50	5	3	<1	16.4	8.03	41.7	NA	8.41	NR	2.19	Ebb	57	64.0	86.6	5	2	Chlorination
8/27/2002c	7:00	4	2	1	18.0	7.98	41.5	NA	8.14	NR	1.39	Flood	57	64.0	86.6	5	2	Chlorination
8/27/2002d	10:00	3	<1	<1	19.5	8.07	40.1	4	9.97	NR	3.47	Flood	57	64.0	86.6	5	2	Chlorination
8/27/2002e	13:00	<1	<1	<1	20.3	8.12	39.8	2	10.57	NR	4.56	Ebb	57	64.0	86.6	5	2	Chlorination
8/27/2002f	16:00	10	<1	3	18.7	8.16	30.3	NA	11.39	NR	2.86	Ebb	57	64.0	86.6	5	2	Chlorination
8/27/2002g	19:00	<1	<1	5	19.0	8.14	40.3	NA	11.15	NR	1.83	Flood	57	64.0	86.6	5	2	Chlorination
8/27/2002h	21:50	3	1	<1	18.7	8.09	40.7	6	10.30	NR	3.03	Flood	57	64.0	86.6	5	2	Chlorination
8/28/2002a	0:10	2	<1	<1	18.7	8.02	40.9	1	10.84	NR	3.91	Flood	73	65.2	87.2	5	2	
8/28/2002b	3:10	2	<1	<1	18.3	7.92	40.5	2	10.26	NR	3.01	Ebb	73	65.2	87.2	5	2	
8/28/2002c	7:00	5	1	<1	19.0	8.00	35.0	NA	9.50	NR	1.74	Flood	73	65.2	87.2	5	2	
8/28/2002d	10:00	1	<1	<1	19.0	8.00	35.0	NA	9.80	NR	3.29	Flood	73	65.2	87.2	5	2	
8/28/2002e	13:00	8	<1	<1	21.0	8.00	35.0	NA	11.30	NR	4.58	Flood	73	65.2	87.2	5	2	
8/28/2002f	16:00	10	<1	<1	19.0	8.01	35.0	108	10.49	NR	3.40	Ebb	73	65.2	87.2	5	2	
8/28/2002g	18:50	3	<1	<1	19.3	7.99	34.9	NA	10.75	NR	1.98	Ebb	73	65.2	87.2	5	2	
8/28/2002h	21:45	2	1	3	18.7	7.85	35.2	4	9.84	NR	2.34	Flood	73	65.2	87.2	5	2	
8/29/2002a	0:30	7	1	1	18.7	7.86	30.8	3	9.47	NR	3.26	Flood	86	65.2	87.9	5	2	

Location: Intake Vault (IV)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
8/29/2002b	3:20	310	12	3	18.0	7.87	30.8	3	9.34	NR	3.02	Ebb	86	65.2	87.9	5	2	
8/29/2002c	6:30	2	<1	<1	19.0	8.03	32.0	NA	8.92	NR	2.16	Ebb	86	65.2	87.9	5	2	
8/29/2002d	10:00	2	1	<1	20.6	8.06	31.7	NA	10.10	NR	3.18	Flood	86	65.2	87.9	5	2	
8/29/2002e	13:00	3	<1	<1	21.4	8.09	31.9	NA	9.04	NR	4.48	Flood	86	65.2	87.9	5	2	
8/29/2002f	16:45	3	1	5	20.2	8.13	31.8	NA	NA	NR	3.51	Ebb	86	65.2	87.9	5	2	
8/29/2002g	19:15	<1	<1	6	20.1	8.10	31.8	NA	NA	NR	2.21	Ebb	86	65.2	87.9	5	2	
8/29/2002h	21:55	2	<1	<1	20.5	8.09	31.8	NA	8.86	NR	1.92	Flood	86	65.2	87.9	5	2	
8/30/2002a	0:55	10	<1	<1	19.0	8.07	32.3	NA	9.01	NR	2.60	Flood		66.2	87.5	5	2	
8/30/2002b	3:55	5	1	1	18.1	8.04	32.1	NA	9.36	NR	2.85	Ebb		66.2	87.5	5	2	
8/30/2002c	7:00	2	<1	<1	18.2	7.99	32.6	NA	9.46	NR	2.57	Ebb		66.2	87.5	5	2	
8/30/2002d	10:00	20	<1	1	20.2	8.03	32.4	20	10.10	NR	3.12	Flood		66.2	87.5	5	2	

Location: Storm Water Sump (SWS)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)	Tide Height (ft above MLLW)	Tide Direction	Flow Rate (gpm)	Intake Temperature (°F)	Discharge Temperature (°F)	Number of Pumps Running	Number of Units Running	Treatment
8/15/2002a	11:15	80	5	2	25.5	7.97	1.2	10	5.57	0.5	2.82	Flood	69	60.2	87.9	7	3	
8/16/2002a	10:50	400	30	30	26.5	7.65	1.6	6	4.91	0.7	2.57	Flood	130	61.7	84.7	5	2	
8/17/2002a	11:15	10	<1	20	25.3	7.37	1.2	0	NA	0.5	2.72	Ebb	117	62.3	83.0	5	2	
8/18/2002a	10:50	900	12	8	23.0	7.66	3.1	0	6.16	1.5	3.11	Ebb	116	63.0	72.0	5	2	
8/19/2002a	11:10	400	30	60	24.1	7.46	0.5	1	5.72	0.2	3.32	Ebb	94	64.6	85.5	5	2	Chlorination
8/20/2002a	11:20	100	50	21	23.6	7.18	6.8	1	1.52	3.1	3.58	Ebb		65.0	85.0	5	2	
8/21/2002a	10:55	200	20	<1	21.9	7.72	0.1	0	NA	0.0	4.10	Ebb	98	64.2	80.0	5	2	
8/22/2002a	11:05	5000	300	20	25.5	8.59	1.2	7	NA	0.5	4.28	Ebb		65.0	82.0	5	2	
8/23/2002a	10:40	500	4	5	26.4	8.48	0.4	10	NA	0.1	4.46	Flood	90	61.5	83.7	5	2	Chlorination
8/24/2002a	10:30	300	20	**140**	23.8	8.76	0.5	NA	NA	0.2	4.39	Flood		64.1	81.1	5	2	
8/25/2002a	10:05	3000	30	**230**	23.9	8.28	1.2	NA	NA	0.5	3.99	Flood	32	64.7	86.1	5	2	
8/26/2002a	10:10	1000	3	9	24.2	7.79	1.3	NA	NA	0.7	3.82	Flood	66	63.4	81.7	6	2	
8/27/2002a	11:10	4000	<1	30	24.5	7.58	1.0	999	9.04	0.4	4.24	Flood	57	64.0	86.6	5	2	Chlorination
8/28/2002a	10:45	200	<1	**150**	24.0	8.40	3.6	NA	4.60	2.0	3.78	Flood	73	65.2	87.2	5	2	
8/29/2002a	10:55	800	80	**200**	24.1	7.73	0.6	NA	5.00	0.2	3.67	Flood	86	65.2	87.9	5	2	
8/30/2002a	9:10	1200	24	**340**	25.3	7.84	0.8	NA	2.89	0.3	2.85	Flood		66.2	87.5	5	2	

Notes:
NA = Not Analyzed
NR = Not Reliable
† = Sample taken at 18 ft. due to technical challenges

TABLE 4-3
DISCHARGE VAULT SALINITY PROFILE
CALIFORNIA ENERGY COMMISSION

Location: Discharge Vault

Sample Date	Depth Below Ground Suface (ft)	Field Salinity (ppt)	Change in Salinity (ppt)
9/4/2002	9.0	32.1	-0.2
9/4/2002	10.0	32.3	0.0
9/4/2002	10.0	31.9	-0.4
9/4/2002	11.0	31.9	-0.4
9/4/2002	11.0	32.3	0.0
9/4/2002	12.0	32.1	-0.2
9/4/2002	12.0	31.9	-0.4
9/4/2002	13.0	32.2	-0.1
9/4/2002	13.0	32.2	-0.1
9/4/2002	14.0	32.2	-0.1
9/4/2002	14.0	32.0	-0.3
9/4/2002	15.0	32.1	-0.2
9/4/2002	15.0	32.1	-0.2
9/4/2002	16.0	32.2	-0.1
9/4/2002	16.0	32.1	-0.2
9/4/2002	17.0	32.4	+0.1
9/4/2002	17.0	32.2	-0.1
9/4/2002	18.0	32.3	0.0
9/4/2002	18.0	32.4	+0.1
9/4/2002	19.0	32.3	0.0
9/4/2002	19.0	32.5	+0.2
9/4/2002	20.0	32.4	+0.1
9/4/2002	20.0	32.5	+0.2
9/4/2002	21.0	32.4	+0.1
9/4/2002	21.0	32.5	+0.2
9/4/2002	22.0	32.4	+0.1
9/4/2002	22.0	32.4	+0.1
9/4/2002	23.0	32.4	+0.1
9/4/2002	23.0	32.4	+0.1
9/4/2002	24.0	32.4	+0.1
9/4/2002	24.0	32.5	+0.2
9/4/2002	25.0	32.5	+0.2
9/4/2002	25.0	32.4	+0.1
9/4/2002	26.0	32.4	+0.1
9/4/2002	26.0	32.5	+0.2
9/4/2002	27.0	32.5	+0.2
9/4/2002	27.0	32.4	+0.1

Location: Discharge Vault

Sample Date	Depth Below Ground Suface (ft)	Field Salinity (ppt)	Change in Salinity (ppt)
9/4/2002	28.0	32.4	+0.1
9/4/2002	28.0	32.4	+0.1
9/4/2002	29.0	32.4	+0.1
9/4/2002	29.0	32.4	+0.1
9/4/2002	30.0	32.4	+0.1
9/4/2002	30.0	32.5	+0.2
9/5/2002	9.0	33.1	-0.4
9/5/2002	9.0	32.8	-0.7
9/5/2002	10.0	33.3	-0.2
9/5/2002	10.0	33.4	-0.1
9/5/2002	11.0	33.6	+0.1
9/5/2002	11.0	33.1	-0.4
9/5/2002	12.0	33.5	+0.0
9/5/2002	12.0	33.1	-0.4
9/5/2002	13.0	33.4	-0.1
9/5/2002	13.0	32.9	-0.6
9/5/2002	14.0	33.4	-0.1
9/5/2002	14.0	33.3	-0.2
9/5/2002	15.0	33.6	+0.1
9/5/2002	15.0	33.3	-0.2
9/5/2002	16.0	33.5	+0.0
9/5/2002	16.0	33.5	+0.0
9/5/2002	17.0	33.5	+0.0
9/5/2002	17.0	33.5	+0.0
9/5/2002	18.0	33.6	+0.1
9/5/2002	18.0	33.6	+0.1
9/5/2002	19.0	33.6	+0.1
9/5/2002	19.0	33.7	+0.2
9/5/2002	20.0	33.5	+0.0
9/5/2002	20.0	33.7	+0.2
9/5/2002	21.0	33.6	+0.1
9/5/2002	21.0	33.7	+0.2
9/5/2002	22.0	33.6	+0.1
9/5/2002	22.0	33.7	+0.2
9/5/2002	23.0	33.7	+0.2
9/5/2002	23.0	33.6	+0.1
9/5/2002	24.0	33.6	+0.1

Location: Discharge Vault

Sample Date	Depth Below Ground Suface (ft)	Field Salinity (ppt)	Change in Salinity (ppt)
9/5/2002	24.0	33.6	+0.1
9/5/2002	25.0	33.6	+0.1
9/5/2002	25.0	33.6	+0.1
9/5/2002	26.0	33.6	+0.1
9/5/2002	26.0	33.6	+0.1
9/5/2002	27.0	33.6	+0.1
9/5/2002	27.0	33.6	+0.1
9/5/2002	28.0	33.6	+0.1
9/5/2002	28.0	33.6	+0.1
9/5/2002	29.0	33.6	+0.1
9/5/2002	29.0	33.6	+0.1
9/5/2002	30.0	33.6	+0.1
9/5/2002	30.0	33.6	+0.1
9/6/2002	8.0	33.3	-0.6
9/6/2002	9.0	33.3	-0.6
9/6/2002	9.0	34.0	+0.1
9/6/2002	10.0	33.6	-0.3
9/6/2002	10.0	34.0	+0.1
9/6/2002	11.0	34.0	+0.1
9/6/2002	11.0	33.7	-0.2
9/6/2002	12.0	33.7	-0.2
9/6/2002	12.0	34.0	+0.1
9/6/2002	13.0	33.9	+0.0
9/6/2002	13.0	33.8	-0.1
9/6/2002	14.0	33.8	-0.1
9/6/2002	14.0	34.0	+0.1
9/6/2002	15.0	33.8	-0.1
9/6/2002	15.0	33.9	+0.0
9/6/2002	16.0	33.8	-0.1
9/6/2002	16.0	33.8	-0.1
9/6/2002	17.0	33.9	+0.0
9/6/2002	17.0	33.8	-0.1
9/6/2002	18.0	33.8	-0.1
9/6/2002	18.0	33.9	+0.0
9/6/2002	19.0	33.9	+0.0
9/6/2002	19.0	34.0	+0.1
9/6/2002	20.0	33.8	-0.1

Location: Discharge Vault

Sample Date	Depth Below Ground Suface (ft)	Field Salinity (ppt)	Change in Salinity (ppt)
9/6/2002	20.0	34.0	+0.1
9/6/2002	21.0	33.9	+0.0
9/6/2002	21.0	34.0	+0.1
9/6/2002	22.0	33.9	+0.0
9/6/2002	22.0	33.9	+0.0
9/6/2002	23.0	33.9	+0.0
9/6/2002	23.0	33.8	-0.1
9/6/2002	24.0	33.9	+0.0
9/6/2002	24.0	33.8	-0.1
9/6/2002	25.0	33.9	+0.0
9/6/2002	25.0	33.8	-0.1
9/6/2002	26.0	33.8	-0.1
9/6/2002	26.0	33.9	+0.0
9/6/2002	27.0	33.9	+0.0
9/6/2002	27.0	33.9	+0.0
9/6/2002	28.0	33.9	+0.0
9/6/2002	28.0	33.9	+0.0
9/6/2002	29.0	33.9	+0.0
9/6/2002	29.0	33.9	+0.0
9/6/2002	30.0	34.0	+0.1
9/6/2002	30.0	33.9	+0.0
9/7/2002	10.0	33.9	-0.2
9/7/2002	11.0	34.1	+0.0
9/7/2002	12.0	34.1	+0.0
9/7/2002	12.0	33.4	-0.7
9/7/2002	13.0	34.2	+0.1
9/7/2002	13.0	33.9	-0.2
9/7/2002	14.0	34.1	+0.0
9/7/2002	14.0	34.0	-0.1
9/7/2002	15.0	34.1	+0.0
9/7/2002	15.0	34.0	-0.1
9/7/2002	16.0	34.2	+0.1
9/7/2002	16.0	34.1	+0.0
9/7/2002	17.0	34.1	+0.0
9/7/2002	17.0	34.1	+0.0
9/7/2002	18.0	34.2	+0.1
9/7/2002	18.0	34.1	+0.0

Location: Discharge Vault

Sample Date	Depth Below Ground Suface (ft)	Field Salinity (ppt)	Change in Salinity (ppt)
9/7/2002	19.0	34.0	-0.1
9/7/2002	19.0	34.2	+0.1
9/7/2002	20.0	34.0	-0.1
9/7/2002	20.0	34.2	+0.1
9/7/2002	21.0	34.2	+0.1
9/7/2002	21.0	34.0	-0.1
9/7/2002	22.0	34.2	+0.1
9/7/2002	22.0	34.1	+0.0
9/7/2002	23.0	34.1	+0.0
9/7/2002	23.0	34.2	+0.1
9/7/2002	24.0	34.1	+0.0
9/7/2002	24.0	34.1	+0.0
9/7/2002	25.0	34.0	-0.1
9/7/2002	25.0	34.2	+0.1
9/7/2002	26.0	34.0	-0.1
9/7/2002	26.0	34.1	+0.0
9/7/2002	27.0	34.1	+0.0
9/7/2002	27.0	34.2	+0.1
9/7/2002	28.0	34.0	-0.1
9/7/2002	28.0	34.2	+0.1
9/7/2002	29.0	34.1	+0.0
9/7/2002	29.0	34.2	+0.1
9/7/2002	30.0	34.1	+0.0
9/7/2002	30.0	34.2	+0.1
9/8/2002	12.0	33.5	-0.6
9/8/2002	12.0	34.0	-0.1
9/8/2002	13.0	33.9	-0.2
9/8/2002	13.0	34.1	0.0
9/8/2002	14.0	34.2	+0.1
9/8/2002	14.0	34.0	-0.1
9/8/2002	15.0	34.0	-0.1
9/8/2002	15.0	34.2	+0.1
9/8/2002	16.0	34.1	0.0
9/8/2002	16.0	34.2	+0.1
9/8/2002	17.0	34.2	+0.1
9/8/2002	17.0	34.1	0.0
9/8/2002	18.0	34.1	0.0

Location: Discharge Vault

Sample Date	Depth Below Ground Suface (ft)	Field Salinity (ppt)	Change in Salinity (ppt)
9/8/2002	18.0	34.2	+0.1
9/8/2002	19.0	34.2	+0.1
9/8/2002	19.0	34.2	+0.1
9/8/2002	20.0	34.2	+0.1
9/8/2002	20.0	34.2	+0.1
9/8/2002	21.0	34.2	+0.1
9/8/2002	21.0	34.2	+0.1
9/8/2002	22.0	34.2	+0.1
9/8/2002	22.0	34.2	+0.1
9/8/2002	23.0	34.2	+0.1
9/8/2002	23.0	34.2	+0.1
9/8/2002	24.0	34.2	+0.1
9/8/2002	24.0	34.2	+0.1
9/8/2002	25.0	34.2	+0.1
9/8/2002	25.0	34.2	+0.1
9/8/2002	26.0	34.1	0.0
9/8/2002	26.0	34.2	+0.1
9/8/2002	27.0	34.1	0.0
9/8/2002	27.0	34.2	+0.1
9/8/2002	28.0	34.2	+0.1
9/8/2002	28.0	34.1	0.0
9/8/2002	29.0	34.2	+0.1
9/8/2002	29.0	34.2	+0.1
9/8/2002	30.0	34.2	+0.1
9/8/2002	30.0	34.2	+0.1
9/9/2002	12.0	33.4	-0.3
9/9/2002	12.0	33.5	-0.2
9/9/2002	13.0	33.6	-0.1
9/9/2002	13.0	33.5	-0.2
9/9/2002	14.0	33.7	+0.0
9/9/2002	14.0	33.6	-0.1
9/9/2002	15.0	33.6	-0.1
9/9/2002	15.0	33.7	+0.0
9/9/2002	16.0	33.6	-0.1
9/9/2002	16.0	33.7	+0.0
9/9/2002	17.0	33.7	+0.0
9/9/2002	17.0	33.6	-0.1

Location: Discharge Vault

Sample Date	Depth Below Ground Suface (ft)	Field Salinity (ppt)	Change in Salinity (ppt)
9/9/2002	18.0	33.6	-0.1
9/9/2002	18.0	33.8	+0.1
9/9/2002	19.0	33.7	+0.0
9/9/2002	19.0	33.8	+0.1
9/9/2002	20.0	33.8	+0.1
9/9/2002	20.0	33.6	-0.1
9/9/2002	21.0	33.7	+0.0
9/9/2002	21.0	33.7	+0.0
9/9/2002	22.0	33.6	-0.1
9/9/2002	22.0	33.7	+0.0
9/9/2002	23.0	33.6	-0.1
9/9/2002	23.0	33.7	+0.0
9/9/2002	24.0	33.7	+0.0
9/9/2002	24.0	33.6	-0.1
9/9/2002	25.0	33.7	+0.0
9/9/2002	25.0	33.7	+0.0
9/9/2002	26.0	33.6	-0.1
9/9/2002	26.0	33.7	+0.0
9/9/2002	27.0	33.7	+0.0
9/9/2002	27.0	33.6	-0.1
9/9/2002	28.0	33.7	+0.0
9/9/2002	28.0	33.7	+0.0
9/9/2002	29.0	33.7	+0.0
9/9/2002	29.0	33.6	-0.1
9/9/2002	30.0	33.6	-0.1
9/9/2002	30.0	33.7	+0.0
9/10/2002	10.0	32.9	-0.6
9/10/2002	11.0	33.0	-0.5
9/10/2002	12.0	32.9	-0.6
9/10/2002	13.0	33.0	-0.5
9/10/2002	14.0	33.3	-0.2
9/10/2002	15.0	33.0	-0.5
9/10/2002	16.0	33.5	0.0
9/10/2002	17.0	33.6	+0.1
9/10/2002	18.0	33.6	+0.1
9/10/2002	19.0	33.7	+0.2
9/10/2002	20.0	33.8	+0.3

Location: Discharge Vault

Sample Date	Depth Below Ground Suface (ft)	Field Salinity (ppt)	Change in Salinity (ppt)
9/10/2002	21.0	33.8	+0.3
9/10/2002	22.0	33.8	+0.3
9/10/2002	23.0	33.8	+0.3
9/10/2002	24.0	33.8	+0.3
9/10/2002	25.0	33.8	+0.3
9/10/2002	26.0	33.7	+0.2
9/10/2002	27.0	33.8	+0.3
9/10/2002	28.0	33.8	+0.3
9/10/2002	29.0	33.7	+0.2
9/10/2002	30.0	33.7	+0.2
9/11/2002	12.0	33.6	-0.8
9/11/2002	13.0	33.6	-0.8
9/11/2002	14.0	34.3	-0.1
9/11/2002	15.0	34.1	-0.3
9/11/2002	16.0	34.2	-0.2
9/11/2002	17.0	34.2	-0.2
9/11/2002	18.0	34.5	+0.1
9/11/2002	19.0	34.6	+0.2
9/11/2002	20.0	34.6	+0.2
9/11/2002	21.0	34.6	+0.2
9/11/2002	22.0	34.5	+0.1
9/11/2002	23.0	34.6	+0.2
9/11/2002	24.0	34.6	+0.2
9/11/2002	25.0	34.6	+0.2
9/11/2002	26.0	34.6	+0.2
9/11/2002	27.0	34.5	+0.1
9/11/2002	28.0	34.6	+0.2
9/11/2002	29.0	34.5	+0.1
9/11/2002	30.0	34.6	+0.2
9/12/2002	10.0	33.6	-0.7
9/12/2002	11.0	33.7	-0.6
9/12/2002	12.0	33.3	-1.0
9/12/2002	13.0	33.6	-0.7
9/12/2002	14.0	33.8	-0.5
9/12/2002	15.0	33.9	-0.4
9/12/2002	16.0	34.3	+0.0
9/12/2002	17.0	34.4	+0.1

Location: Discharge Vault

Sample Date	Depth Below Ground Suface (ft)	Field Salinity (ppt)	Change in Salinity (ppt)
9/12/2002	18.0	34.4	+0.1
9/12/2002	19.0	34.5	+0.2
9/12/2002	20.0	34.6	+0.3
9/12/2002	21.0	34.6	+0.3
9/12/2002	22.0	34.6	+0.3
9/12/2002	23.0	34.6	+0.3
9/12/2002	24.0	34.6	+0.3
9/12/2002	25.0	34.6	+0.3
9/12/2002	26.0	34.6	+0.3
9/12/2002	27.0	34.6	+0.3
9/12/2002	28.0	34.6	+0.3
9/12/2002	29.0	34.6	+0.3
9/12/2002	30.0	34.6	+0.3
9/13/2002	10.0	33.3	-0.7
9/13/2002	11.0	33.4	-0.6
9/13/2002	12.0	33.1	-0.9
9/13/2002	13.0	33.6	-0.4
9/13/2002	14.0	34.2	+0.2
9/13/2002	15.0	33.7	-0.3
9/13/2002	16.0	33.7	-0.3
9/13/2002	17.0	33.9	-0.1
9/13/2002	18.0	33.4	-0.6
9/13/2002	19.0	33.7	-0.3
9/13/2002	20.0	35.0	+1.0
9/13/2002	21.0	34.3	+0.3
9/13/2002	22.0	34.5	+0.5
9/13/2002	23.0	34.4	+0.4
9/13/2002	24.0	34.1	+0.1
9/13/2002	25.0	34.3	+0.3
9/13/2002	26.0	34.2	+0.2
9/13/2002	27.0	34.1	+0.1
9/13/2002	28.0	34.2	+0.2
9/13/2002	29.0	34.1	+0.1
9/13/2002	30.0	34.1	+0.1
9/14/2002	10.0	32.1	-0.1
9/14/2002	11.0	31.7	-0.5
9/14/2002	12.0	32.0	-0.2

Location: Discharge Vault

Sample Date	Depth Below Ground Suface (ft)	Field Salinity (ppt)	Change in Salinity (ppt)
9/14/2002	13.0	31.8	-0.4
9/14/2002	14.0	32.1	-0.1
9/14/2002	15.0	32.0	-0.2
9/14/2002	16.0	32.2	0.0
9/14/2002	17.0	32.1	-0.1
9/14/2002	18.0	32.3	+0.1
9/14/2002	19.0	32.1	-0.1
9/14/2002	20.0	32.4	+0.2
9/14/2002	21.0	32.3	+0.1
9/14/2002	22.0	32.4	+0.2
9/14/2002	23.0	32.2	0.0
9/14/2002	24.0	32.4	+0.2
9/14/2002	25.0	32.3	+0.1
9/14/2002	26.0	32.5	+0.3
9/14/2002	27.0	32.3	+0.1
9/14/2002	28.0	32.5	+0.3
9/14/2002	29.0	32.3	+0.1
9/14/2002	30.0	32.5	+0.3
9/15/2002	10.0	33.3	-0.5
9/15/2002	11.0	33.4	-0.4
9/15/2002	12.0	33.5	-0.3
9/15/2002	13.0	33.5	-0.3
9/15/2002	14.0	33.5	-0.3
9/15/2002	15.0	33.6	-0.2
9/15/2002	16.0	33.9	+0.1
9/15/2002	17.0	33.7	-0.1
9/15/2002	18.0	33.9	+0.1
9/15/2002	19.0	34.0	+0.2
9/15/2002	20.0	34.0	+0.2
9/15/2002	21.0	33.9	+0.1
9/15/2002	22.0	34.1	+0.3
9/15/2002	23.0	33.9	+0.1
9/15/2002	24.0	34.0	+0.2
9/15/2002	25.0	34.0	+0.2
9/15/2002	26.0	34.0	+0.2
9/15/2002	27.0	34.0	+0.2
9/15/2002	28.0	34.1	+0.3

Location: Discharge Vault

Sample Date	Depth Below Ground Suface (ft)	Field Salinity (ppt)	Change in Salinity (ppt)
9/15/2002	29.0	34.0	+0.2
9/15/2002	30.0	34.0	+0.2
9/16/2002	18.0	34.5	+0.2
9/16/2002	19.0	34.3	0.0
9/16/2002	20.0	34.4	+0.1
9/16/2002	21.0	34.4	+0.1
9/16/2002	22.0	34.5	+0.2
9/16/2002	23.0	34.1	-0.2
9/16/2002	24.0	34.3	0.0
9/16/2002	25.0	34.2	-0.1
9/16/2002	26.0	34.3	0.0
9/16/2002	27.0	34.2	-0.1
9/16/2002	28.0	34.3	0.0
9/16/2002	29.0	34.3	0.0
9/16/2002	30.0	34.3	0.0
9/17/2002	8.0	33.2	+0.0
9/17/2002	9.0	33.2	+0.0
9/17/2002	10.0	33.2	+0.0
9/17/2002	11.0	33.2	+0.0
9/17/2002	12.0	33.2	+0.0
9/17/2002	13.0	33.1	-0.1
9/17/2002	14.0	33.1	-0.1
9/17/2002	15.0	33.1	-0.1
9/17/2002	16.0	33.1	-0.1
9/17/2002	17.0	33.1	-0.1
9/17/2002	18.0	33.2	+0.0
9/17/2002	19.0	33.2	+0.0
9/17/2002	20.0	33.2	+0.0
9/17/2002	21.0	33.2	+0.0
9/17/2002	22.0	33.2	+0.0
9/17/2002	23.0	33.2	+0.0
9/17/2002	24.0	33.1	-0.1
9/17/2002	25.0	33.1	-0.1
9/17/2002	26.0	33.1	-0.1
9/17/2002	27.0	33.2	+0.0
9/17/2002	28.0	33.2	+0.0
9/17/2002	29.0	33.1	-0.1

Location: Discharge Vault

Sample Date	Depth Below Ground Suface (ft)	Field Salinity (ppt)	Change in Salinity (ppt)
9/17/2002	30.0	33.2	+0.0
9/19/2002	8.0	31.1	+0.6
9/19/2002	9.0	30.9	+0.4
9/19/2002	10.0	30.8	+0.3
9/19/2002	11.0	30.8	+0.3
9/19/2002	12.0	30.7	+0.2
9/19/2002	13.0	30.6	+0.1
9/19/2002	14.0	30.6	+0.1
9/19/2002	15.0	30.5	+0.0
9/19/2002	16.0	30.6	+0.1
9/19/2002	17.0	30.5	+0.0
9/19/2002	18.0	30.5	+0.0
9/19/2002	19.0	30.5	+0.0
9/19/2002	20.0	30.4	-0.1
9/19/2002	21.0	30.4	-0.1
9/19/2002	22.0	30.4	-0.1
9/19/2002	23.0	30.3	-0.2
9/19/2002	24.0	30.3	-0.2
9/19/2002	25.0	30.2	-0.3
9/19/2002	26.0	30.3	-0.2
9/19/2002	27.0	30.2	-0.3
9/19/2002	28.0	30.1	-0.4
9/19/2002	29.0	30.3	-0.2
9/19/2002	30.0	30.2	-0.3
9/20/2002	8.0	30.7	+0.4
9/20/2002	9.0	30.6	+0.3
9/20/2002	10.0	30.6	+0.3
9/20/2002	11.0	30.6	+0.3
9/20/2002	12.0	30.5	+0.2
9/20/2002	13.0	30.4	+0.1
9/20/2002	14.0	30.3	+0.0
9/20/2002	15.0	30.3	+0.0
9/20/2002	16.0	30.3	+0.0
9/20/2002	17.0	30.2	-0.1
9/20/2002	18.0	30.2	-0.1
9/20/2002	19.0	30.2	-0.1
9/20/2002	20.0	30.2	-0.1

Location: Discharge Vault

Sample Date	Depth Below Ground Suface (ft)	Field Salinity (ppt)	Change in Salinity (ppt)
9/20/2002	21.0	30.2	-0.1
9/20/2002	22.0	30.2	-0.1
9/20/2002	23.0	30.2	-0.1
9/20/2002	24.0	30.1	-0.2
9/20/2002	25.0	30.1	-0.2
9/20/2002	26.0	30.1	-0.2
9/21/2002	10.0	33.9	-0.3
9/21/2002	11.0	33.9	-0.3
9/21/2002	12.0	33.9	-0.3
9/21/2002	13.0	34.0	-0.2
9/21/2002	14.0	34.0	-0.2
9/21/2002	15.0	34.1	-0.1
9/21/2002	16.0	34.3	+0.1
9/21/2002	17.0	34.2	+0.0
9/21/2002	18.0	34.3	+0.1
9/21/2002	20.0	34.3	+0.1
9/21/2002	21.0	34.3	+0.1
9/21/2002	22.0	34.3	+0.1
9/21/2002	23.0	34.3	+0.1
9/21/2002	24.0	34.2	+0.0
9/21/2002	25.0	34.3	+0.1
9/21/2002	26.0	34.6	+0.4
9/21/2002	27.0	34.2	+0.0
9/21/2002	28.0	34.2	+0.0
9/21/2002	29.0	34.1	-0.1
9/21/2002	30.0	34.1	-0.1
9/22/2002	9.0	33.7	-0.2
9/22/2002	10.0	33.5	-0.4
9/22/2002	11.0	33.5	-0.4
9/22/2002	12.0	33.7	-0.2
9/22/2002	13.0	33.8	-0.1
9/22/2002	14.0	33.8	-0.1
9/22/2002	15.0	34.0	+0.1
9/22/2002	16.0	33.9	0.0
9/22/2002	17.0	33.9	0.0
9/22/2002	18.0	34.0	+0.1
9/22/2002	19.0	34.1	+0.2

Location: Discharge Vault

Sample Date	Depth Below Ground Suface (ft)	Field Salinity (ppt)	Change in Salinity (ppt)
9/22/2002	20.0	34.1	+0.2
9/22/2002	21.0	34.1	+0.2
9/22/2002	22.0	34.1	+0.2
9/22/2002	23.0	34.1	+0.2
9/22/2002	24.0	34.2	+0.3
9/22/2002	25.0	34.0	+0.1
9/22/2002	26.0	34.1	+0.2
9/22/2002	27.0	34.1	+0.2
9/22/2002	28.0	34.1	+0.2
9/22/2002	29.0	34.0	+0.1
9/22/2002	30.0	33.9	0.0
9/23/2002	18.0	30.1	+0.4
9/23/2002	24.0	30.2	+0.5
9/24/2002	8.0	30.5	0.0
9/24/2002	9.0	30.6	+0.1
9/24/2002	10.0	30.5	0.0
9/24/2002	11.0	30.6	+0.1
9/24/2002	12.0	30.5	0.0
9/24/2002	13.0	30.4	-0.1
9/24/2002	14.0	30.5	0.0
9/24/2002	15.0	30.4	-0.1
9/24/2002	16.0	30.5	0.0
9/24/2002	17.0	30.4	-0.1
9/24/2002	18.0	30.6	+0.1
9/24/2002	19.0	30.6	+0.1
9/26/2002	12.0	30.9	+0.1
9/26/2002	13.0	30.8	+0.0
9/26/2002	14.0	30.7	-0.1
9/26/2002	15.0	30.7	-0.1
9/26/2002	16.0	30.8	+0.0
9/26/2002	17.0	30.8	+0.0
9/28/2002	8.0	32.2	-0.5
9/28/2002	9.0	32.4	-0.3
9/28/2002	10.0	32.4	-0.3
9/28/2002	11.0	32.3	-0.4
9/28/2002	12.0	32.6	-0.1
9/28/2002	13.0	32.7	+0.0

Location: Discharge Vault

Sample Date	Depth Below Ground Suface (ft)	Field Salinity (ppt)	Change in Salinity (ppt)
9/28/2002	14.0	32.8	+0.1
9/28/2002	15.0	32.3	-0.4
9/28/2002	16.0	32.7	+0.0
9/28/2002	17.0	32.8	+0.1
9/28/2002	18.0	32.9	+0.2
9/28/2002	19.0	32.9	+0.2
9/28/2002	20.0	32.8	+0.1
9/28/2002	21.0	32.9	+0.2
9/28/2002	22.0	32.8	+0.1
9/28/2002	23.0	32.9	+0.2
9/28/2002	24.0	32.8	+0.1
9/28/2002	25.0	32.8	+0.1
9/28/2002	26.0	32.8	+0.1
9/28/2002	27.0	32.7	+0.0
9/28/2002	28.0	32.6	-0.1
9/28/2002	29.0	32.6	-0.1
9/28/2002	30.0	32.6	-0.1
10/6/2002	9.0	33.5	-0.4
10/6/2002	10.0	33.8	-0.1
10/6/2002	11.0	33.8	-0.1
10/6/2002	12.0	34.0	+0.1
10/6/2002	13.0	33.9	+0.0
10/6/2002	14.0	33.9	+0.0
10/6/2002	15.0	33.8	-0.1
10/6/2002	16.0	33.8	-0.1
10/6/2002	17.0	33.9	+0.0
10/6/2002	18.0	33.8	-0.1
10/6/2002	19.0	34.0	+0.1
10/6/2002	20.0	34.0	+0.1
10/6/2002	21.0	33.9	+0.0
10/6/2002	22.0	33.9	+0.0
10/6/2002	23.0	33.9	+0.0
10/6/2002	24.0	34.0	+0.1
10/6/2002	25.0	33.9	+0.0
10/6/2002	26.0	33.9	+0.0
10/6/2002	27.0	33.9	+0.0
10/6/2002	28.0	33.9	+0.0

Location: Discharge Vault

Sample Date	Depth Below Ground Suface (ft)	Field Salinity (ppt)	Change in Salinity (ppt)
10/6/2002	29.0	33.9	+0.0
10/6/2002	30.0	34.1	+0.2
10/7/2002	9.0	34.0	+0.0
10/7/2002	10.0	34.0	+0.0
10/7/2002	11.0	34.0	+0.0
10/7/2002	12.0	34.0	+0.0
10/7/2002	13.0	34.0	+0.0
10/7/2002	14.0	34.0	+0.0
10/7/2002	15.0	34.0	+0.0
10/7/2002	16.0	34.0	+0.0
10/7/2002	17.0	34.0	+0.0
10/7/2002	18.0	34.0	+0.0
10/7/2002	19.0	34.0	+0.0
10/7/2002	20.0	34.0	+0.0
10/7/2002	21.0	34.0	+0.0
10/7/2002	22.0	34.0	+0.0
10/7/2002	23.0	34.0	+0.0
10/7/2002	24.0	34.0	+0.0
10/7/2002	25.0	34.0	+0.0
10/7/2002	26.0	34.0	+0.0
10/7/2002	27.0	34.0	+0.0
10/7/2002	28.0	34.0	+0.0
10/7/2002	29.0	34.0	+0.0
10/7/2002	30.0	33.6	-0.4
10/8/2002	8.0	34.0	0.0
10/8/2002	9.0	34.0	0.0
10/8/2002	10.0	34.0	0.0
10/8/2002	11.0	34.0	0.0
10/8/2002	12.0	34.0	0.0
10/8/2002	13.0	34.0	0.0
10/8/2002	14.0	34.0	0.0
10/8/2002	15.0	34.0	0.0
10/8/2002	16.0	34.0	0.0
10/8/2002	17.0	34.0	0.0
10/8/2002	18.0	34.0	0.0
10/8/2002	19.0	34.0	0.0
10/8/2002	20.0	34.0	0.0

Location: Discharge Vault

Sample Date	Depth Below Ground Suface (ft)	Field Salinity (ppt)	Change in Salinity (ppt)
10/8/2002	21.0	34.0	0.0
10/8/2002	22.0	34.0	0.0
10/8/2002	23.0	34.0	0.0
10/8/2002	24.0	34.0	0.0
10/8/2002	25.0	34.0	0.0
10/8/2002	26.0	34.0	0.0
10/8/2002	27.0	34.0	0.0
10/8/2002	28.0	34.0	0.0
10/8/2002	29.0	34.0	0.0
10/8/2002	30.0	34.0	0.0
10/9/2002	9.0	31.6	-2.2
10/9/2002	10.0	33.9	+0.1
10/9/2002	11.0	33.8	+0.0
10/9/2002	12.0	33.8	+0.0
10/9/2002	13.0	33.8	+0.0
10/9/2002	14.0	33.8	+0.0
10/9/2002	15.0	33.8	+0.0
10/9/2002	16.0	33.8	+0.0
10/9/2002	17.0	33.8	+0.0
10/9/2002	18.0	33.9	+0.1
10/9/2002	19.0	33.9	+0.1
10/9/2002	20.0	33.9	+0.1
10/9/2002	21.0	33.9	+0.1
10/9/2002	22.0	34.0	+0.2
10/9/2002	23.0	34.0	+0.2
10/9/2002	24.0	33.9	+0.1
10/9/2002	25.0	33.9	+0.1
10/9/2002	26.0	33.9	+0.1
10/9/2002	27.0	33.9	+0.1
10/9/2002	28.0	33.9	+0.1
10/9/2002	29.0	33.9	+0.1
10/9/2002	30.0	33.5	-0.3
10/10/2002	10.0	33.6	-0.2
10/10/2002	11.0	33.7	-0.1
10/10/2002	12.0	33.8	0.0
10/10/2002	13.0	33.8	0.0
10/10/2002	14.0	33.8	0.0

Location: Discharge Vault

Sample Date	Depth Below Ground Suface (ft)	Field Salinity (ppt)	Change in Salinity (ppt)
10/10/2002	15.0	33.8	0.0
10/10/2002	16.0	33.8	0.0
10/10/2002	17.0	33.7	-0.1
10/10/2002	18.0	33.9	+0.1
10/10/2002	19.0	33.9	+0.1
10/10/2002	20.0	33.9	+0.1
10/10/2002	21.0	33.9	+0.1
10/10/2002	22.0	33.8	0.0
10/10/2002	23.0	33.7	-0.1
10/10/2002	24.0	33.8	0.0
10/10/2002	25.0	34.0	+0.2
10/10/2002	26.0	34.0	+0.2
10/10/2002	27.0	34.0	+0.2
10/10/2002	28.0	34.0	+0.2
10/10/2002	29.0	34.0	+0.2
10/10/2002	30.0	33.6	-0.2
10/11/2002	10.0	33.1	-0.5
10/11/2002	11.0	33.2	-0.4
10/11/2002	12.0	33.5	-0.1
10/11/2002	13.0	33.4	-0.2
10/11/2002	14.0	33.8	+0.2
10/11/2002	15.0	33.6	0.0
10/11/2002	16.0	33.6	0.0
10/11/2002	17.0	33.8	+0.2
10/11/2002	18.0	33.6	0.0
10/11/2002	19.0	33.9	+0.3
10/11/2002	20.0	33.8	+0.2
10/11/2002	21.0	33.9	+0.3
10/11/2002	22.0	33.8	+0.2
10/11/2002	23.0	33.4	-0.2
10/11/2002	24.0	33.7	+0.1
10/11/2002	25.0	33.5	-0.1
10/11/2002	26.0	33.9	+0.3
10/11/2002	27.0	33.9	+0.3
10/11/2002	28.0	33.8	+0.2
10/11/2002	29.0	33.5	-0.1
10/11/2002	30.0	33.5	-0.1

Location: Discharge Vault

Sample Date	Depth Below Ground Suface (ft)	Field Salinity (ppt)	Change in Salinity (ppt)
10/12/2002	10.0	32.7	-0.9
10/12/2002	11.0	33.3	-0.3
10/12/2002	12.0	32.7	-0.9
10/12/2002	13.0	32.9	-0.7
10/12/2002	14.0	33.1	-0.5
10/12/2002	15.0	33.0	-0.6
10/12/2002	16.0	33.4	-0.2
10/12/2002	17.0	33.7	+0.1
10/12/2002	18.0	33.5	-0.1
10/12/2002	19.0	34.2	+0.6
10/12/2002	20.0	34.1	+0.5
10/12/2002	21.0	33.8	+0.2
10/12/2002	22.0	34.0	+0.4
10/12/2002	23.0	33.9	+0.3
10/12/2002	24.0	33.9	+0.3
10/12/2002	25.0	33.9	+0.3
10/12/2002	26.0	34.3	+0.7
10/12/2002	27.0	34.2	+0.6
10/12/2002	28.0	34.0	+0.4
10/12/2002	29.0	33.9	+0.3
10/12/2002	30.0	33.7	+0.1
10/13/2002	10.0	30.8	-1.0
10/13/2002	11.0	30.8	-1.0
10/13/2002	12.0	31.1	-0.7
10/13/2002	13.0	30.9	-0.9
10/13/2002	14.0	30.9	-0.9
10/13/2002	15.0	31.5	-0.3
10/13/2002	16.0	31.4	-0.4
10/13/2002	17.0	31.6	-0.2
10/13/2002	18.0	31.9	+0.1
10/13/2002	19.0	32.0	+0.2
10/13/2002	20.0	32.0	+0.2
10/13/2002	21.0	32.1	+0.3
10/13/2002	22.0	32.3	+0.5
10/13/2002	23.0	32.1	+0.3
10/13/2002	24.0	32.2	+0.4
10/13/2002	25.0	32.2	+0.4

Location: Discharge Vault

Sample Date	Depth Below Ground Suface (ft)	Field Salinity (ppt)	Change in Salinity (ppt)
10/13/2002	26.0	32.4	+0.6
10/13/2002	27.0	32.2	+0.4
10/13/2002	28.0	32.2	+0.4
10/13/2002	29.0	32.4	+0.6
10/13/2002	30.0	32.0	+0.2
10/14/2002	10.0	30.5	-0.7
10/14/2002	11.0	30.6	-0.6
10/14/2002	12.0	30.7	-0.5
10/14/2002	13.0	30.5	-0.7
10/14/2002	14.0	31.1	-0.1
10/14/2002	15.0	30.9	-0.3
10/14/2002	16.0	30.6	-0.6
10/14/2002	17.0	30.9	-0.3
10/14/2002	18.0	31.2	+0.0
10/14/2002	19.0	31.0	-0.2
10/14/2002	20.0	31.2	+0.0
10/14/2002	21.0	31.1	-0.1
10/14/2002	22.0	31.3	+0.1
10/14/2002	23.0	31.9	+0.7
10/14/2002	24.0	31.4	+0.2
10/14/2002	25.0	31.5	+0.3
10/14/2002	26.0	31.5	+0.3
10/14/2002	27.0	31.8	+0.6
10/14/2002	28.0	31.8	+0.6
10/14/2002	29.0	31.8	+0.6
10/14/2002	30.0	31.3	+0.1
10/15/2002	14.0	30.8	-1.5
10/15/2002	15.0	31.6	-0.7
10/15/2002	16.0	31.6	-0.7
10/15/2002	17.0	31.8	-0.5
10/15/2002	18.0	32.3	+0.0
10/15/2002	19.0	32.6	+0.3
10/15/2002	20.0	32.5	+0.2
10/15/2002	21.0	32.6	+0.3
10/15/2002	22.0	32.5	+0.2
10/15/2002	23.0	32.5	+0.2
10/15/2002	24.0	32.5	+0.2

TABLE 4-3
DISCHARGE VAULT SALINITY PROFILE
CALIFORNIA ENERGY COMMISSION

Location: Discharge Vault

Sample Date	Depth Below Ground Suface (ft)	Field Salinity (ppt)	Change in Salinity (ppt)
10/15/2002	25.0	32.5	+0.2
10/15/2002	26.0	32.6	+0.3
10/15/2002	27.0	32.6	+0.3
10/15/2002	28.0	32.5	+0.2
10/15/2002	29.0	32.6	+0.3
10/15/2002	30.0	32.5	+0.2

Notes:
NA = Not Analyzed
? Salinity is the difference between the salinity and daily mean salinity value

TABLE 4-4
INTAKE and DISCHARGE VAULT AMMONIUM and SALINITY DATA
CALIFORNIA ENERGY COMMISSION

Location: Discharge Vault (DV0)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Ammonium (mg/L)	Lab Salinity (ppt)	Temperature °C
8/19/2002a	0:30	1500	19	43	NA	NA	20.1
8/19/2002b	3:35	200	12	20	NA	NA	19.6
8/19/2002c	6:40	50	8	30	NA	NA	23.5
8/19/2002d	9:40	30	20	<1	NA	NA	25.5
8/19/2002e	12:30	<1	<1	<1	NA	NA	28.6
8/19/2002f	15:30	30	<1	9	1.72	NA	27.9
8/19/2002g	18:20	10	2	**140**	1.32	NA	28.1
8/19/2002h	22:00	10	2	<1	1.42	NA	22.2
8/20/2002a	0:20	30	3	4	1.50	NA	20.8
8/20/2002b	3:40	100	8	20	1.45	NA	21.0
8/20/2002c	7:10	200	5	5	1.43	NA	23.0
8/20/2002d	9:20	10	<1	<1	2.10	NA	25.5
8/20/2002e	12:55	5	1	<1	1.45	NA	23.8
8/20/2002f	15:20	4	2	16	1.90	NA	24.9
8/20/2002g	18:30	10	2	**110**	1.45	NA	23.9
8/20/2002h	21:50	<1	<1	<1	NA	NA	25.6
8/21/2002a	0:15	10	2	2	NA	NA	20.1
8/21/2002b	3:20	5	2	<1	1.70	NA	20.4
8/21/2002c	6:50	10	3	1	1.75	NA	17.1
8/21/2002d	9:50	20	1	<1	2.05	NA	26.4
8/21/2002e	12:40	10	<1	<1	1.70	NA	24.5
8/21/2002f	15:30	10	<1	2	2.10	NA	22.8
8/21/2002g	18:30	<1	<1	11	1.80	NA	23.1
8/21/2002h	21:40	<1	<1	7	2.05	NA	22.8
8/22/2002a	0:35	10	<1	8	1.85	NA	18.9

TABLE 4-4
INTAKE and DISCHARGE VAULT AMMONIUM and SALINITY DATA
CALIFORNIA ENERGY COMMISSION

Location: Discharge Vault (DV0)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Ammonium (mg/L)	Lab Salinity (ppt)	Temperature °C
8/22/2002b	3:15	20	<1	30	1.20	NA	17.9
8/22/2002c	6:50	10	7	12	1.65	NA	19.8
8/22/2002d	9:30	30	5	30	1.70	NA	25.7
8/22/2002e	12:30	20	<1	<1	1.40	NA	28.3
8/22/2002f	15:30	<1	<1	<1	2.85	NA	29.0
8/22/2002g	18:30	2	1	70	NA	NA	28.6
8/22/2002h	22:05	<1	<1	1	1.90	NA	23.6
8/23/2002a	0:30	<1	<1	<1	2.00	NA	19.9
8/23/2002b	3:25	30	11	35	1.60	NA	20.0
8/23/2002c	7:00	12	2	5	2.10	NA	20.6
8/23/2002d	9:35	40	3	<1	1.80	NA	27.7
8/23/2002e	12:35	4	1	1	1.70	NA	30.8
8/23/2002f	15:30	<1	<1	<1	1.40	NA	30.3
8/23/2002g	18:30	20	<1	**470**	1.50	NA	27.6
8/23/2002h	21:40	100	2	3	1.83	NA	28.0
8/24/2002a	0:30	200	5	9	1.60	NA	19.8
8/24/2002b	3:30	120	13	20	1.65	NA	19.8
8/24/2002c	6:55	200	4	15	2.05	NA	19.3
8/24/2002d	9:30	6	1	9	1.50	NA	26.4
8/24/2002e	12:30	100	5	27	1.52	NA	28.0
8/24/2002f	15:30	40	2	10	2.00	NA	26.9
8/24/2002g	18:30	20	4	12	2.00	NA	23.1
8/24/2002h	21:40	500	40	40	1.45	NA	25.0
8/25/2002a	0:30	50	20	50	1.49	NA	21.8
8/25/2002b	3:35	300	40	**330**	1.40	NA	21.2

TABLE 4-4
INTAKE and DISCHARGE VAULT AMMONIUM and SALINITY DATA
CALIFORNIA ENERGY COMMISSION

Location: Discharge Vault (DV0)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Ammonium (mg/L)	Lab Salinity (ppt)	Temperature °C
8/25/2002c	6:45	100	13	11	1.90	NA	18.7
8/25/2002d	9:30	10	2	<1	1.80	NA	20.2
8/25/2002e	12:30	100	4	3	1.58	NA	23.5
8/25/2002f	15:30	100	3	5	1.30	NA	26.4
8/25/2002g	18:30	100	4	1	1.55	NA	26.0
8/25/2002h	21:35	30	<1	<1	1.55	NA	24.7
8/26/2002a	0:30	100	10	11	1.70	NA	19.2
8/26/2002b	3:40	80	2	13	2.00	NA	18.8
8/26/2002c	6:45	60	2	6	1.60	NA	19.8
8/26/2002d	9:30	20	3	<1	1.60	NA	25.6
8/26/2002e	12:30	10	<1	<1	1.85	NA	29.2
8/26/2002f	15:30	10	1	1	1.90	NA	30.2
8/26/2002g	18:30	100	5	4	1.60	NA	28.7
8/26/2002h	21:30	200	<1	5	1.80	NA	27.8
8/27/2002a	0:30	300	<1	<1	1.40	NA	18.9
8/27/2002b	3:30	300	5	6	1.45	NA	18.8
8/27/2002c	6:30	500	23	21	1.40	NA	20.9
8/27/2002d	9:30	300	5	20	1.40	NA	25.8
8/27/2002e	12:30	400	<1	1	1.60	NA	27.7
8/27/2002f	15:30	500	<1	2	1.85	NA	28.4
8/27/2002g	18:30	300	<1	11	1.45	NA	28.0
8/27/2002h	21:55	900	1	3	1.80	NA	25.8
8/28/2002a	0:15	300	4	1	1.60	NA	20.7
8/28/2002b	3:15	1100	13	2	1.35	NA	21.0
8/28/2002c	6:30	300	4	<1	1.85	NA	23.0

TABLE 4-4
INTAKE and DISCHARGE VAULT AMMONIUM and SALINITY DATA
CALIFORNIA ENERGY COMMISSION

Location: Discharge Vault (DV0)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Ammonium (mg/L)	Lab Salinity (ppt)	Temperature °C
8/28/2002d	9:30	100	<1	<1	2.05	NA	25.0
8/28/2002e	12:30	10	<1	<1	1.60	NA	31.0
8/28/2002f	15:35	600	<1	4	1.85	NA	30.0
8/28/2002g	18:30	400	<1	6	1.55	NA	30.1
8/28/2002h	21:50	100	1	12	1.43	NA	28.4
8/29/2002a	0:35	50	1	1	1.29	NA	20.8
8/29/2002b	3:25	300	9	2	1.42	NA	20.5
8/29/2002c	6:45	300	6	2	1.55	NA	22.7
8/29/2002d	9:30	120	3	<1	1.70	NA	28.0
8/29/2002e	12:30	10	1	1	2.50	NA	29.2
8/29/2002f	15:45	100	2	5	1.95	NA	30.2
8/29/2002g	18:30	80	6	7	2.15	NA	28.9
8/29/2002h	21:30	40	<1	1	1.30	NA	27.2
8/30/2002a	0:30	20	1	<1	1.75	NA	21.8
8/30/2002b	3:30	40	2	<1	2.60	NA	19.8
8/30/2002c	6:30	20	1	<1	2.10	NA	22.2
8/30/2002d	9:30	30	4	2	2.10	NA	25.2
8/31/2002	7:40	40	1	1	2.28	NA	20.1
9/1/2002	8:15	10	1	<1	2.87	NA	19.8
9/2/2002	9:30	<1	<1	<1	1.88	NA	22.0
9/3/2002	9:10	250	10	<1	2.46	NA	22.0
9/4/2002	8:45	600	30	16	2.55	NA	25.7
9/5/2002	9:20	300	10	2	1.85	NA	24.6
9/6/2002	9:03	300	5	3	1.55	NA	25.5
9/7/2002	8:55	200	8	3	2.70	NA	19.2

TABLE 4-4
INTAKE and DISCHARGE VAULT AMMONIUM and SALINITY DATA
CALIFORNIA ENERGY COMMISSION

Location: Discharge Vault (DV0)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Ammonium (mg/L)	Lab Salinity (ppt)	Temperature °C
9/8/2002	8:50	500	18	<1	1.95	NA	17.7
9/9/2002	8:40	70	7	<1	2.40	NA	19.8
9/10/2002	8:05	400	<1	<1	3.05	NA	20.2
9/11/2002	7:55	100	4	2	2.10	NA	17.7
9/12/2002	7:56	50	12	<1	2.55	NA	18.1
9/13/2002	8:40	40	1	<1	2.30	NA	26.9
9/14/2002	7:55	100	13	<1	2.92	NA	17.9
9/15/2002	7:55	200	6	4	2.38	NA	17.5
9/16/2002	7:55	200	10	3	2.15	NA	19.9
9/17/2002	8:10	40	3	10	3.10	NA	21.8
9/18/2002	8:09	20	3	4	3.25	33.4	27.9
9/19/2002	8:52	20	<1	3	1.90	34.4	29.8
9/20/2002	8:53	100	1	<1	2.00	31.8	28.2
9/21/2002	9:53	10	<1	<1	2.80	30.3	20.3
9/22/2002	8:12	3	<1	<1	2.05	31.0	20.9
9/23/2002	7:50	100	9	<1	2.10	30.4	23.6
9/24/2002	8:20	20	<1	1	2.60	32.972	27.4
9/25/2002	8:15	30	1	<1	3.15	32.989	24.9
9/26/2002	8:20	100	30	60	1.80	3.331	22.6
9/27/2002	8:05	100	20	<1	3.65	32.728	18.0
9/28/2002	9:10	30	13	20	2.15	32.320	18.3
9/29/2002	8:35	100	10	3	2.80	32.169	19.2
9/30/2002	8:10	150	<1	<1	3.10	32.666	19.3
10/1/2002	8:10	20	<1	1	2.30	NA	22.3
10/2/2002	8:05	5	1	<1	2.00	33.228	21.0

TABLE 4-4
INTAKE and DISCHARGE VAULT AMMONIUM and SALINITY DATA
CALIFORNIA ENERGY COMMISSION

Location: Discharge Vault (DV0)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Ammonium (mg/L)	Lab Salinity (ppt)	Temperature °C
10/3/2002	8:10	20	1	<1	2.90	33.215	22.0
10/4/2002	8:15	8	<1	5	1.85	33.221	23.0
10/5/2002	8:08	10	1	<1	2.00	33.353	18.0
10/6/2002	7:47	10	2	1	2.10	33.014	17.2
10/7/2002	8:05	30	12	1	1.65	33.281	25.4
10/8/2002	8:10	30	12	<1	2.10	33.251	26.0
10/9/2002	8:10	7	<1	1	1.85	33.288	28.0
10/10/2002	8:10	4	<1	1	1.70	NA	27.5
10/11/2002	8:10	2	<1	1	1.80	32.829	27.2
10/12/2002	9:29	10	3	9	1.60	32.431	23.9
10/13/2002	8:58	12	5	9	1.30	32.299	21.4
10/14/2002	9:15	10	2	2	1.65	32.180	25.2
10/15/2002	8:35	<1	<1	1	1.60	NA	16.0

TABLE 4-4
INTAKE and DISCHARGE VAULT AMMONIUM and SALINITY DATA
CALIFORNIA ENERGY COMMISSION

Location: Discharge Vault (DV10)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Ammonium (mg/L)	Lab Salinity (ppt)	Temperature °C
8/19/2002a	0:40	600	10	10	NA	NA	20.5
8/19/2002b	3:50	50	4	15	NA	NA	20.7
8/19/2002c	6:50	10	4	10	NA	NA	23.9
8/19/2002d	9:50	20	4	<1	NA	NA	27.6
8/19/2002e	12:40	<1	<1	<1	NA	NA	29.8
8/19/2002f	15:45	10	<1	15	1.64	NA	30.2
8/19/2002g	18:30	<1	<1	**160**	1.45	NA	27.9
8/19/2002h	22:15	10	2	2	1.55	NA	22.0
8/20/2002a	0:30	90	5	6	1.48	NA	21.0
8/20/2002b	3:45	70	5	12	1.30	NA	20.8
8/20/2002c	7:15	90	2	4	1.56	NA	23.9
8/20/2002d	9:25	3	1	1	1.80	NA	27.3
8/20/2002e	13:10	10	2	<1	1.30	NA	26.0
8/20/2002f	15:30	10	2	41	1.70	NA	21.2
8/20/2002g	18:45	2	<1	100	1.25	NA	20.5
8/20/2002h	21:50	<1	<1	<1	NA	NA	27.8
8/21/2002a	0:30	10	<1	62	NA	NA	20.5
8/21/2002b	3:30	<1	<1	<1	1.50	NA	20.9
8/21/2002c	7:00	10	5	2	1.55	NA	21.5
8/21/2002d	9:45	20	<1	2	1.90	NA	25.0
8/21/2002e	12:35	40	3	<1	1.60	NA	25.6
8/21/2002f	15:45	120	2	2	2.30	NA	21.0
8/21/2002g	18:45	<1	<1	23	1.75	NA	23.4
8/21/2002h	22:00	<1	<1	<1	1.80	NA	24.9
8/22/2002a	0:30	10	1	<1	1.65	NA	19.3

Location: Discharge Vault (DV10)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Ammonium (mg/L)	Lab Salinity (ppt)	Temperature °C
8/22/2002b	3:35	5	<1	<1	1.00	NA	19.2
8/22/2002c	6:55	20	4	11	1.50	NA	21.3
8/22/2002d	9:43	<1	<1	<1	1.55	NA	26.0
8/22/2002e	12:30	6	1	<1	1.25	NA	28.7
8/22/2002f	15:45	<1	<1	2	2.30	NA	29.0
8/22/2002g	18:45	5	3	14	NA	NA	27.6
8/22/2002h	22:10	<1	<1	2	1.75	NA	25.8
8/23/2002a	0:35	8	<1	2	1.60	NA	20.1
8/23/2002b	3:40	10	1	9	1.45	NA	20.0
8/23/2002c	7:10	8	3	51	1.80	NA	21.6
8/23/2002d	9:45	10	2	<1	1.76	NA	NA
8/23/2002e	12:50	10	1	1	1.48	NA	30.8
8/23/2002f	15:45	<1	<1	<1	1.28	NA	30.2
8/23/2002g	18:45	300	2	**610**	1.37	NA	27.7
8/23/2002h	21:50	40	<1	1	1.70	NA	29.4
8/24/2002a	0:40	110	2	2	1.45	NA	19.7
8/24/2002b	3:40	320	5	7	1.72	NA	18.1
8/24/2002c	7:10	50	3	3	1.74	NA	19.9
8/24/2002d	9:38	11	3	7	1.40	NA	26.1
8/24/2002e	12:35	40	10	17	1.39	NA	28.0
8/24/2002f	15:40	10	<1	<1	1.80	NA	26.9
8/24/2002g	18:40	10	2	3	1.49	NA	26.0
8/24/2002h	21:50	100	8	10	1.77	NA	28.1
8/25/2002a	0:40	100	12	9	1.70	NA	20.5
8/25/2002b	3:40	400	20	70	1.85	NA	20.1

Location: Discharge Vault (DV10)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Ammonium (mg/L)	Lab Salinity (ppt)	Temperature °C
8/25/2002c	6:50	90	10	10	1.74	NA	18.7
8/25/2002d	9:35	10	1	2	1.68	NA	20.4
8/25/2002e	12:40	90	4	1	1.50	NA	23.1
8/25/2002f	15:40	100	3	1	1.45	NA	26.8
8/25/2002g	18:40	100	1	1	1.41	NA	26.0
8/25/2002h	21:45	100	2	1	1.35	NA	23.9
8/26/2002a	0:40	90	4	1	1.50	NA	19.1
8/26/2002b	3:50	100	4	50	1.80	NA	19.2
8/26/2002c	6:50	200	5	3	1.50	NA	20.4
8/26/2002d	9:40	30	<1	1	1.50	NA	26.0
8/26/2002e	12:30	10	1	<1	1.55	NA	28.1
8/26/2002f	15:45	<1	<1	<1	1.70	NA	30.2
8/26/2002g	18:45	30	1	1	1.75	NA	28.8
8/26/2002h	21:45	100	<1	2	1.65	NA	28.1
8/27/2002a	0:40	200	2	2	1.00	NA	18.8
8/27/2002b	3:40	500	3	2	1.00	NA	18.8
8/27/2002c	6:45	1700	7	5	1.35	NA	20.8
8/27/2002d	9:45	300	3	10	1.30	NA	26.5
8/27/2002e	12:45	200	<1	<1	1.45	NA	28.3
8/27/2002f	15:45	500	<1	2	1.70	NA	27.9
8/27/2002g	18:45	200	2	48	1.25	NA	28.6
8/27/2002h	22:00	100	1	1	1.55	NA	25.8
8/28/2002a	0:20	200	3	<1	1.50	NA	21.0
8/28/2002b	3:20	200	<1	<1	1.05	NA	20.1
8/28/2002c	6:45	200	2	<1	1.70	NA	24.0

TABLE 4-4
INTAKE and DISCHARGE VAULT AMMONIUM and SALINITY DATA
CALIFORNIA ENERGY COMMISSION

Location: Discharge Vault (DV10)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Ammonium (mg/L)	Lab Salinity (ppt)	Temperature °C
8/28/2002d	9:45	200	<1	1	1.95	NA	26.0
8/28/2002e	12:45	<1	<1	<1	1.40	NA	31.0
8/28/2002f	15:45	900	10	6	1.35	NA	30.0
8/28/2002g	18:40	70	<1	2	1.65	NA	30.2
8/28/2002h	22:00	100	1	4	1.32	NA	28.1
8/29/2002a	0:40	30	1	<1	1.16	NA	21.1
8/29/2002b	3:30	100	1	1	1.34	NA	20.6
8/29/2002c	7:00	90	<1	<1	1.62	NA	23.4
8/29/2002d	9:45	110	1	<1	1.50	NA	30.1
8/29/2002e	12:45	20	<1	<1	2.10	NA	30.1
8/29/2002f	15:50	30	<1	<1	1.70	NA	28.7
8/29/2002g	18:45	30	2	55	1.55	NA	29.0
8/29/2002h	21:35	70	<1	<1	1.05	NA	28.2
8/30/2002a	0:35	20	<1	<1	1.70	NA	22.1
8/30/2002b	3:40	40	2	<1	2.30	NA	19.8
8/30/2002c	6:45	20	3	<1	2.00	NA	22.8
8/30/2002d	9:45	20	1	<1	1.72	NA	25.3
8/31/2002	7:50	50	<1	<1	2.20	NA	20.3
9/1/2002	8:30	10	<1	<1	2.50	NA	19.3
9/2/2002	9:40	<1	<1	<1	1.72	NA	22.0
9/3/2002	9:15	100	5	<1	2.17	NA	21.9
9/4/2002	9:03	<1	<1	<1	2.40	NA	25.6
9/5/2002	9:25	500	2	<1	1.70	NA	24.9
9/6/2002	9:10	80	2	2	1.32	NA	27.4
9/7/2002	9:00	40	6	2	2.30	NA	19.5

TABLE 4-4
INTAKE and DISCHARGE VAULT AMMONIUM and SALINITY DATA
CALIFORNIA ENERGY COMMISSION

Location: Discharge Vault (DV10)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Ammonium (mg/L)	Lab Salinity (ppt)	Temperature °C
9/8/2002	8:55	90	8	1	1.70	NA	17.8
9/9/2002	8:45	120	20	20	2.15	NA	NA
9/10/2002	8:15	180	<1	<1	2.75	NA	20.1
9/11/2002	9:30	100	2	<1	1.85	NA	20.3
9/12/2002	8:02	20	3	3	2.10	NA	19.6
9/13/2002	8:55	50	1	1	1.85	NA	26.8
9/14/2002	8:05	50	2	1	2.65	NA	17.5
9/15/2002	8:05	100	1	5	2.10	NA	18.1
9/16/2002	8:05	50	2	1	3.55	NA	19.6
9/17/2002	8:20	2	<1	<1	2.55	NA	22.0
9/18/2002	8:15	30	3	6	2.90	33.5	28.0
9/19/2002	8:56	50	4	7	1.70	34.2	30.1
9/20/2002	9:00	100	<1	<1	1.55	31.6	28.8
9/21/2002	10:03	10	<1	1	2.32	30.6	20.6
9/22/2002	9:33	10	2	<1	1.66	30.6	23.0
9/23/2002	8:00	20	2	<1	1.72	31.1	24.5
9/24/2002	8:45	10	<1	<1	2.40	33.143	28.6
9/25/2002	8:25	10	1	1	2.10	33.377	23.7
9/26/2002	8:40	500	4	<1	1.50	33.156	22.0
9/27/2002	8:20	80	10	<1	2.70	33.277	18.9
9/28/2002	9:15	20	10	5	2.05	33.045	18.0
9/29/2002	8:45	50	4	1	2.05	33.033	19.0
9/30/2002	8:20	<1	<1	<1	2.75	33.273	19.2
10/1/2002	8:15	10	3	<1	1.95	NA	21.8
10/2/2002	8:10	20	2	<1	1.78	33.379	21.0

TABLE 4-4
INTAKE and DISCHARGE VAULT AMMONIUM and SALINITY DATA
CALIFORNIA ENERGY COMMISSION

Location: Discharge Vault (DV10)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Ammonium (mg/L)	Lab Salinity (ppt)	Temperature °C
10/3/2002	8:20	10	1	<1	2.45	33.375	24.0
10/4/2002	8:15	4	<1	<1	1.60	33.309	23.0
10/5/2002	8:11	10	1	<1	1.55	33.319	18.1
10/6/2002	7:53	8	2	1	2.00	33.128	17.8
10/7/2002	8:20	50	10	3	1.50	33.402	25.8
10/8/2002	8:20	20	10	2	1.55	33.397	27.0
10/9/2002	8:20	5	<1	<1	1.60	33.265	28.9
10/10/2002	8:20	10	5	1	1.55	33.389	28.0
10/11/2002	8:20	1	<1	5	1.50	33.255	28.4
10/12/2002	9:15	5	1	<1	1.40	33.401	23.3
10/13/2002	8:38	11	3	2	1.15	33.353	21.4
10/14/2002	8:50	8	1	<1	1.30	33.337	26.6
10/15/2002	8:45	<1	<1	<1	1.50	NA	24.8

TABLE 4-4
INTAKE and DISCHARGE VAULT AMMONIUM and SALINITY DATA
CALIFORNIA ENERGY COMMISSION

Location: Discharge Vault (DV30)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Ammonium (mg/L)	Lab Salinity (ppt)	Temperature °C
9/18/2002	10:10	<1	<1	<1	2.80	36.5	29.1
9/19/2002	8:17	3	<1	2	1.43	34.9	29.2
9/20/2002	8:20	<1	<1	<1	1.20	32.1	27.4
9/21/2002	10:17	10	<1	1	2.70	30.8	27.9
9/22/2002	0:00	<1	<1	<1	1.85	31.2	NA
9/23/2002	15:12	<1	<1	<1	2.18	30.9	26.6
9/24/2002†	9:10	11	2	1	2.34	33.290	27.7
9/25/2002	8:50	40	7	<1	2.55	33.433	24.5
9/28/2002	9:15	10	5	<1	1.75	33.384	17.7
9/29/2002	8:55	10	2	<1	2.30	33.411	18.7
9/30/2002	8:30	<1	<1	<1	2.65	33.381	18.4
10/1/2002	8:40	10	2	<1	2.55	33.361	20.7
10/2/2002	8:15	2	<1	<1	1.83	33.437	20.0
10/3/2002	8:30	10	2	5	2.30	33.428	22.0
10/4/2002	8:30	<1	<1	<1	2.00	33.409	23.0
10/5/2002	8:16	20	<1	<1	1.70	33.448	18.2
10/6/2002	8:04	10	1	<1	1.65	NA	18.0
10/7/2002	8:35	20	2	1	1.20	33.419	24.6
10/8/2002	8:30	9	4	<1	1.30	33.434	26.0
10/9/2002	8:30	7	<1	1	1.80	33.470	29.0
10/10/2002	8:30	1	<1	<1	1.25	33.453	29.7
10/11/2002	8:30	<1	<1	3	1.70	33.408	27.5
10/12/2002	8:50	5	1	<1	1.20	33.431	23.2
10/13/2002	8:20	5	<1	1	1.05	33.367	20.9
10/14/2002	8:30	4	<1	<1	1.40	33.337	25.6

TABLE 4-4
INTAKE and DISCHARGE VAULT AMMONIUM and SALINITY DATA
CALIFORNIA ENERGY COMMISSION

Location: Discharge Vault (DV30)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Ammonium (mg/L)	Lab Salinity (ppt)	Temperature °C
10/15/2002	8:55	<1	<1	<1	1.30	NA	25.2

TABLE 4-4
INTAKE and DISCHARGE VAULT AMMONIUM and SALINITY DATA
CALIFORNIA ENERGY COMMISSION

Location: Intake Vault (IV)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Ammonium (mg/L)	Lab Salinity (ppt)	Temperature °C
8/19/2002a	1:00	40	4	2	NA	NA	18.9
8/19/2002b	4:00	4	3	2	NA	NA	18.6
8/19/2002c	7:00	20	<1	2	NA	NA	18.4
8/19/2002d	9:45	2	<1	2	NA	NA	17.0
8/19/2002e	12:50	80	3	<1	NA	NA	18.5
8/19/2002f	16:00	<1	<1	72	1.68	NA	18.4
8/19/2002g	18:40	<1	<1	90	1.49	NA	18.9
8/19/2002h	22:35	<1	<1	1	3.90	NA	18.9
8/20/2002a	0:45	20	<1	**160**	1.55	NA	18.4
8/20/2002b	3:55	20	4	8	1.42	NA	19.0
8/20/2002c	7:05	20	3	<1	1.36	NA	18.9
8/20/2002d	9:15	4	2	<1	1.90	NA	18.5
8/20/2002e	12:40	<1	<1	<1	1.95	NA	18.5
8/20/2002f	16:00	<1	<1	4	2.25	NA	16.7
8/20/2002g	19:00	<1	<1	**520**	1.70	NA	17.6
8/20/2002h	21:50	20	1	<1	NA	NA	17.8
8/21/2002a	0:10	10	2	**210**	NA	NA	17.9
8/21/2002b	3:10	<1	<1	5	1.40	NA	18.5
8/21/2002c	7:20	150	110	2	1.95	NA	17.1
8/21/2002d	9:55	30	4	<1	2.30	NA	18.3
8/21/2002e	12:50	<1	<1	<1	2.05	NA	NA
8/21/2002f	16:00	<1	<1	33	2.40	NA	18.7
8/21/2002g	19:00	<1	<1	15	2.05	NA	18.0
8/21/2002h	21:45	4	<1	1	2.30	NA	16.3
8/22/2002a	0:25	4	2	6	2.10	NA	16.1

Location: Intake Vault (IV)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Ammonium (mg/L)	Lab Salinity (ppt)	Temperature °C
8/22/2002b	3:25	<1	<1	<1	2.40	NA	17.0
8/22/2002c	7:00	8	3	8	2.30	NA	17.4
8/22/2002d	9:50	10	<1	1	1.87	NA	20.4
8/22/2002e	12:55	20	<1	<1	1.80	NA	23.5
8/22/2002f	16:00	<1	<1	11	3.00	NA	21.4
8/22/2002g	19:00	4	1	**210**	2.45	NA	19.4
8/22/2002h	22:00	2	<1	73	2.54	NA	18.2
8/23/2002a	0:25	5	2	3	2.30	NA	18.1
8/23/2002b	3:30	12	6	5	1.80	NA	18.0
8/23/2002c	7:20	13	3	3	2.70	NA	17.3
8/23/2002d	9:55	10	<1	<1	2.25	NA	19.7
8/23/2002e	13:05	5	1	<1	1.84	NA	21.8
8/23/2002f	16:00	9	<1	46	1.75	NA	19.5
8/23/2002g	19:00	1	<1	43	1.60	NA	19.5
8/23/2002h	22:00	30	<1	<1	1.95	NA	19.0
8/24/2002a	0:50	6	<1	2	1.77	NA	17.8
8/24/2002b	4:05	7	<1	<1	1.88	NA	16.8
8/24/2002c	7:15	10	2	<1	2.15	NA	16.6
8/24/2002d	9:52	10	2	<1	1.65	NA	19.3
8/24/2002e	12:40	10	2	2	1.60	NA	21.2
8/24/2002f	15:50	2	<1	<1	2.35	NA	19.3
8/24/2002g	18:50	<1	<1	<1	1.00	NA	18.6
8/24/2002h	22:00	<1	<1	<1	1.50	NA	18.2
8/25/2002a	0:50	<1	1	<1	1.62	NA	17.4
8/25/2002b	3:55	5	1	<1	1.60	NA	17.0

Location: Intake Vault (IV)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Ammonium (mg/L)	Lab Salinity (ppt)	Temperature °C
8/25/2002c	7:00	3	<1	2	2.00	NA	16.8
8/25/2002d	9:40	3	2	1	1.77	NA	17.9
8/25/2002e	12:50	2	<1	<1	1.64	NA	19.8
8/25/2002f	15:50	3	1	1	1.70	NA	18.8
8/25/2002g	18:50	<1	<1	<1	1.95	NA	18.4
8/25/2002h	22:00	3	<1	<1	2.05	NA	18.1
8/26/2002a	0:50	5	1	<1	1.90	NA	16.6
8/26/2002b	4:00	3	<1	<1	2.40	NA	17.2
8/26/2002c	7:00	40	11	3	1.80	NA	16.5
8/26/2002d	9:45	20	<1	1	2.10	NA	18.8
8/26/2002e	12:45	2	1	<1	1.90	NA	20.5
8/26/2002f	16:00	<1	<1	<1	3.60	NA	19.0
8/26/2002g	18:00	<1	<1	<1	2.90	NA	19.7
8/26/2002h	22:00	2	<1	<1	1.95	NA	18.7
8/27/2002a	0:50	2	1	<1	1.52	NA	16.2
8/27/2002b	3:50	5	3	<1	1.60	NA	16.4
8/27/2002c	7:00	4	2	1	1.80	NA	18.0
8/27/2002d	10:00	3	<1	<1	1.70	NA	19.5
8/27/2002e	13:00	<1	<1	<1	2.00	NA	20.3
8/27/2002f	16:00	10	<1	3	2.15	NA	18.7
8/27/2002g	19:00	<1	<1	5	2.40	NA	19.0
8/27/2002h	21:50	3	1	<1	2.30	NA	18.7
8/28/2002a	0:10	2	<1	<1	2.00	NA	18.7
8/28/2002b	3:10	2	<1	<1	1.60	NA	18.3
8/28/2002c	7:00	5	1	<1	2.20	NA	19.0

Location: Intake Vault (IV)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Ammonium (mg/L)	Lab Salinity (ppt)	Temperature °C
8/28/2002d	10:00	1	<1	<1	2.00	NA	19.0
8/28/2002e	13:00	8	<1	<1	1.80	NA	21.0
8/28/2002f	16:00	10	<1	<1	2.10	NA	19.0
8/28/2002g	18:50	3	<1	<1	1.80	NA	19.3
8/28/2002h	21:45	2	1	3	1.98	NA	18.7
8/29/2002a	0:30	7	1	1	1.77	NA	18.7
8/29/2002b	3:20	310	12	3	1.55	NA	18.0
8/29/2002c	6:30	2	<1	<1	1.74	NA	19.0
8/29/2002d	10:00	2	1	<1	3.10	NA	20.6
8/29/2002e	13:00	3	<1	<1	3.15	NA	21.4
8/29/2002f	16:45	3	1	5	1.75	NA	20.2
8/29/2002g	19:15	<1	<1	6	1.60	NA	20.1
8/29/2002h	21:55	2	<1	<1	2.35	NA	20.5
8/30/2002a	0:55	10	<1	<1	2.55	NA	19.0
8/30/2002b	3:55	5	1	1	3.05	NA	18.1
8/30/2002c	7:00	2	<1	<1	2.75	NA	18.2
8/30/2002d	10:00	20	<1	1	2.40	NA	20.2
8/31/2002	8:00	10	<1	<1	2.54	NA	16.9
9/1/2002	8:50	1	<1	<1	3.16	NA	17.2
9/2/2002	10:00	10	<1	**120**	NA	NA	17.5
9/3/2002	9:45	2	1	<1	2.80	NA	16.5
9/4/2002	9:12	27	9	5	3.10	NA	18.2
9/5/2002	9:45	3	<1	1	2.15	NA	19.5
9/6/2002	9:35	8	3	1	1.75	NA	17.2
9/7/2002	9:15	2	1	1	2.90	NA	15.4

TABLE 4-4
INTAKE and DISCHARGE VAULT AMMONIUM and SALINITY DATA
CALIFORNIA ENERGY COMMISSION

Location: Intake Vault (IV)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Ammonium (mg/L)	Lab Salinity (ppt)	Temperature °C
9/8/2002	9:10	13	2	5	2.40	NA	14.3
9/9/2002	8:55	17	9	3	2.80	NA	15.0
9/10/2002	7:55	2	<1	<1	3.45	NA	16.2
9/11/2002	7:45	<1	<1	<1	2.50	NA	16.1
9/12/2002	7:46	3	1	<1	2.30	NA	15.7
9/13/2002	8:20	2	<1	<1	3.60	NA	15.5
9/14/2002	7:40	50	<1	<1	3.15	NA	15.0
9/15/2002	7:45	3	2	<1	2.70	NA	16.4
9/16/2002	7:45	10	1	<1	2.60	NA	16.3
9/17/2002	8:25	5	1	<1	3.50	NA	18.4
9/18/2002	9:21	5	2	<1	3.40	33.4	20.3
9/19/2002	9:10	5	<1	<1	1.58	34.4	21.4
9/20/2002	9:17	1	<1	<1	2.30	32.7	19.9
9/21/2002	9:32	<1	<1	<1	2.40	30.8	16.5
9/22/2002	8:25	2	<1	<1	2.45	31.0	15.1
9/23/2002	8:12	7	5	<1	2.35	31.5	16.0
9/24/2002	9:30	10	<1	<1	2.73	33.459	19.2
9/25/2002	9:15	7	1	<1	3.50	33.447	19.0
9/26/2002	9:30	2	<1	<1	2.10	33.440	18.8
9/27/2002	8:40	5	2	2	2.15	33.391	14.5
9/28/2002	9:40	10	2	<1	2.20	33.421	14.9
9/29/2002	8:58	20	7	3	2.90	33.410	16.5
9/30/2002	8:25	<1	<1	<1	3.50	33.406	15.5
10/1/2002	9:00	2	<1	<1	1.45	NA	16.5
10/2/2002	8:40	10	2	<1	3.25	33.449	16.0

TABLE 4-4
INTAKE and DISCHARGE VAULT AMMONIUM and SALINITY DATA
CALIFORNIA ENERGY COMMISSION

Location: Intake Vault (IV)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Ammonium (mg/L)	Lab Salinity (ppt)	Temperature °C
10/3/2002	9:20	3	<1	2	3.30	33.429	16.0
10/4/2002	9:00	20	5	2	2.15	33.444	17.0
10/5/2002	8:59	10	1	<1	2.25	33.483	17.3
10/6/2002	9:18	20	3	<1	2.55	33.453	17.3
10/7/2002	9:10	10	2	2	1.90	33.421	18.0
10/8/2002	9:15	5	1	<1	1.90	33.454	18.0
10/9/2002	9:15	2	<1	1	2.15	33.487	18.6
10/10/2002	9:10	7	1	1	1.80	33.417	18.4
10/11/2002	9:10	3	<1	1	2.10	33.426	17.1
10/12/2002	9:40	3	1	<1	1.75	33.429	16.2
10/13/2002	9:25	4	1	3	1.50	33.401	15.9
10/14/2002	9:25	15	<1	<1	2.00	33.350	15.2
10/15/2002	8:20	10	3	4	1.80	NA	14.8

Notes:
NA = Not Analyzed
† = Sample taken at 18 ft. due to technical challenges
Salinity values with 3 significant figures were reported from Scripps. Sierra Analytical reported only 1 significant figure with their salinity results.

TABLE 4-5
BLACKFORD'S DITCH INVESTIGATION
CALIFORNIA ENERGY COMMISSION

Location: Blackford's Ditch (BD)

Sample Date	Sample Time	Distance (ft)	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)
8/13/2002	10:40	0	4000	30	30	22.5	8.02	35.7	12	4.43	22.7
8/13/2002	10:55	60	NA	NA	NA	21.9	7.49	22.8	48	0.80	13.7
8/13/2002	10:56	120	NA	NA	NA	24.6	8.43	14.0	21	5.97	7.9
8/13/2002	11:00	180	NA	NA	NA	25.0	9.03	7.4	101	5.03	4.1
8/13/2002	11:03	260	NA	NA	NA	20.5	8.96	2.1	38	5.11	1.0
9/10/2002	9:15	0	**13000**	**600**	**700**	20.8	7.66	25.5	NA	1.11	15.4
9/10/2002	9:25	20	NA	NA	NA	19.8	7.61	23.1	NA	0.74	13.7
9/10/2002	9:27	40	NA	NA	NA	20.4	7.31	26.2	NA	0.70	15.8
9/10/2002	9:29	60	NA	NA	NA	19.1	8.04	12.8	NA	1.22	7.3
9/10/2002	9:31	80	NA	NA	NA	19.5	7.67	13.6	NA	0.71	7.8
9/10/2002	9:33	100	NA	NA	NA	18.9	7.61	13.5	NA	3.70	7.8
11/26/2002	15:00	0	NA	NA	NA	15.6	8.18	5.1	10	NA	2.6
11/26/2002	15:05	20	NA	NA	NA	15.7	8.18	4.9	15	NA	2.5
11/26/2002	15:07	40	NA	NA	NA	15.3	8.22	4.6	4	NA	2.3
11/26/2002	15:08	60	NA	NA	NA	15.4	8.27	4.3	65	NA	2.1
11/26/2002	15:11	120	NA	NA	NA	15.0	8.21	3.9	40	NA	1.9
11/26/2002	15:20	180	NA	NA	NA	18.2	9.91	6.3	130	NA	3.3

Notes:
NA = Not Analyzed

TABLE 4-6
COROSSION INHIBITOR: TIDAL SAMPLE LOCATIONS
CALIFORNIA ENERGY COMMISSION

Location: General

Sample Location	Sample Date	Sample Time	Distance (ft)	Boron (mg/L)	Nitrite (mg/L)	Tolytriazole (mg/L)
Blackford's Ditch (BD)	10/14/2002	9:50	0	60.2	25.1	NA
Blackford's Ditch (BD)	10/14/2002	10:00	30	64.6	24.6	NA
Blackford's Ditch (BD)	10/14/2002	10:07	60	65.6	21.0	NA
Blackford's Ditch (BD)	10/14/2002	10:16	90	67.0	16.5	NA
Blackford's Ditch (BD)	10/14/2002	10:25	120	69.5	16.6	NA
Blackford's Ditch (BD)	10/14/2002	10:34	150	72.2	15.7	NA
Blackford's Ditch (BD)	11/26/2002	15:00	0	3.8	<10.0 G	0.0
Blackford's Ditch (BD)	11/26/2002	15:05	20	3.8	<10.0 G	0.0
Blackford's Ditch (BD)	11/26/2002	15:07	40	4.0	<10.0 G	0.2
Blackford's Ditch (BD)	11/26/2002	15:08	60	4.2	<10.0 G	1.2
Blackford's Ditch (BD)	11/26/2002	15:11	120	4.2	<10.0 G	1.1
Blackford's Ditch (BD)	11/26/2002	15:20	180	11.9	<10.0 G	2.0
Discharge Vault (DV0)	11/26/2002	14:15	0	4.5	<10.0 G	0.0
Intake Vault (IV)	11/26/2002	13:40	0	4.7	<10.0 G	0.0

Notes:
NA = Not Analyzed
G = Elevated reporting limit due to matrix interferance

TABLE 4-7
STORM WATER SAMPLING
CALIFORNIA ENERGY COMMISSION

Location: General

Sample ID	Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Temperature °C	pH	Conductivity (µS/cm)	Turbidity Units	Dissolved Oxygen (mg/L)	Salinity (ppt)
BCR-1109	11/9/2002	12:30	**380000**	**21000**	**5500**	18.4	8.26	2.5	430	4.90	1.2
DV-0-1109	11/9/2002	11:15	2400	50	**110**	31.6	7.12	47.7	802	NA	31.2
DV-10-1109	11/9/2002	11:30	3100	70	**130**	36.7	8.12	49.0	703	NA	32.0
GP-1109	11/9/2002	11:45	**12000**	210	**420**	21.8	7.33	4.4	7	5.94	2.2
OF-1109	11/9/2002	12:10	**8000**	**1100**	**150**	45.7	8.07	51.1	20	4.49	33.2
IV-1109	11/9/2002	12:00	**1200**	180	**250**	39.1	8.11	50.3	32	10.35	33.1
PCH-1109	11/9/2002	13:15	**210000**	**19000**	**28000**	18.8	7.80	3.4	148	4.30	1.7
WCP-1109	11/9/2002	13:00	**250000**	**13000**	**3200**	19.1	8.00	2.6	89	4.60	1.1

Notes:
NA = Not Analyzed

TABLE 4-8
RHODAMINE CONCENTRATIONS AT SHORELINE MONITORING STATIONS
CALIFORNIA ENERGY COMMISSION

Location: General

Sample Date & Time	6N	75N	9N	105N	12N	135N	15N
08/20/02 9:30	0.04	0.03	0.05	0.04	0.01	0.06	0.05
08/20/02 9:45	0.04	0.05	0.10	0.06	0.07	0.04	0.03
08/20/02 10:00	0.05	0.03	0.01	0.04	0.04	0.01	0.02
08/20/02 10:15	0.04	0.04	0.02	0.05	0.04	0.15	0.01
08/20/02 10:30	0.00	0.05	0.10	0.06	0.01	0.01	0.04
08/20/02 10:45	0.03	0.04	0.10	0.09	0.04	0.01	0.02
08/20/02 11:00	0.04	0.06	0.02	0.06	0.01	0.02	0.02
08/20/02 11:15	0.04	0.04	0.10	0.07	0.03	0.02	0.03
08/20/02 11:30	0.07	0.03	0.05	0.10	0.03	0.02	0.00
08/20/02 11:45	0.04	0.05	0.09	0.12	0.16	0.14	0.03
08/20/02 12:00	0.04	0.05	0.02	0.09	0.10	0.02	0.01
08/20/02 12:15	0.05	0.04	0.02	0.06	0.05	0.15	0.03
08/20/02 12:30	0.04	0.02	0.06	0.05	0.15	0.10	0.01
08/20/02 12:45	0.05	0.06	0.04	0.04	0.06	0.06	0.02
08/20/02 13:00	0.03	0.07	0.07	0.05	1.05	0.10	0.03
08/20/02 13:15	0.04	0.07	0.02	0.06	0.07	0.02	0.02
08/20/02 13:30	0.03	0.07	0.07	0.51	0.46	0.12	0.01
08/20/02 13:45	0.03	0.05	0.03	0.17	0.50	0.23	0.00
08/20/02 14:00	0.04	0.03	0.01	0.11	0.53	0.33	0.18
08/20/02 14:15	0.03	0.05	0.02	0.15	0.22	0.26	0.23
08/20/02 14:30	0.03	0.09	0.01	0.10	0.24	0.14	0.23
08/20/02 14:45	0.04	0.05	0.01	0.45	0.04	--	0.19
08/20/02 15:00	0.05	0.15	0.00	0.21	0.36	0.14	0.14
08/20/02 15:15	0.05	0.07	0.00	0.11	0.66	0.48	0.12
08/20/02 15:30	0.03	0.07	0.01	0.20	0.31	0.23	0.28
08/20/02 15:45	0.03	0.04	0.01	0.15	0.23	0.60	0.40
08/20/02 16:00	0.04	0.04	0.03	0.06	0.16	0.35	0.24
08/20/02 16:15	0.07	0.04	0.02	0.06	0.04	0.32	0.24
08/20/02 16:30	0.04	0.03	0.01	0.11	0.40	0.23	0.47
08/20/02 16:45	0.09	0.03	0.01	1.98	0.15	0.30	0.23
08/20/02 17:00	0.02	0.07	0.05	0.21	0.05	0.24	0.30
08/20/02 17:15	0.06	0.10	0.04	0.28	0.44	0.14	0.21
08/20/02 17:30	0.04	0.04	0.02	0.26	0.90	0.18	0.03
08/20/02 17:45	0.05	0.04	0.33	0.26	0.21	0.20	0.18
08/20/02 18:00	0.03	0.04	0.29	0.33	0.44	0.28	0.14
08/20/02 18:15	0.07	0.04	0.03	0.43	0.26	0.38	0.25
08/20/02 18:30	0.03	0.03	0.05	0.47	0.33	0.20	0.03

TABLE 4-8
RHODAMINE CONCENTRATIONS AT SHORELINE MONITORING STATIONS
CALIFORNIA ENERGY COMMISSION

Location: General

Sample Date & Time	6N	75N	9N	105N	12N	135N	15N
08/20/02 18:45	0.06	0.03	0.31	0.33	0.35	0.24	0.16
08/20/02 19:00	0.04	0.04	0.63	0.31	0.29	0.15	0.11
08/20/02 19:15	0.20	--	--	--	0.36	--	--
08/20/02 19:30	0.04	--	0.28	--	0.26	--	--
08/20/02 19:45	0.20	--	--	--	0.23	--	--
08/20/02 20:00	0.21	--	0.37	--	0.36	--	--
08/20/02 20:30	0.23	--	0.10	--	0.35	--	--
08/20/02 21:00	0.14	--	0.24	--	0.27	--	--
08/20/02 21:30	0.09	--	0.23	--	0.18	--	--
08/20/02 22:00	0.03	--	0.06	--	0.23	--	--
08/20/02 22:30	0.05	--	0.04	--	0.28	--	--
08/20/02 23:00	0.04	--	0.06	--	0.26	--	--
08/20/02 23:30	0.05	--	0.04	--	0.22	--	--
08/21/02 0:00	0.05	--	0.05	--	0.15	--	--
08/21/02 0:30	0.14	--	0.16	--	0.24	--	--
08/21/02 1:00	0.14	--	0.24	--	0.11	--	--
08/21/02 1:30	0.34	--	0.15	--	0.08	--	--
08/21/02 2:00	0.04	--	0.07	--	0.05	--	--
08/21/02 2:30	0.43	--	0.06	--	0.11	--	--
08/21/02 3:00	0.03	--	0.10	--	0.10	--	--
08/21/02 3:30	0.15	--	0.10	--	0.08	--	--
08/21/02 4:00	0.21	--	0.05	--	0.04	--	--
08/21/02 4:30	0.14	--	0.15	--	0.02	--	--
08/21/02 5:00	0.09	--	0.06	--	0.03	--	--
08/21/02 5:30	0.12	--	0.05	--	0.09	--	--
08/21/02 6:00	0.00	--	0.11	--	0.06	--	--
08/21/02 6:30	0.21	--	0.04	--	0.08	--	--
08/21/02 7:00	0.04	--	0.06	--	0.01	--	--
08/21/02 7:30	0.03	--	0.16	--	0.04	--	--
08/21/02 8:00	0.04	0.04	0.02	0.04	0.05	0.05	0.10
08/21/02 8:30	0.06	0.05	0.00	0.08	0.01	0.00	0.15
08/21/02 9:00	0.06	0.05	0.00	0.14	0.06	0.02	0.15
08/21/02 9:30	0.03	0.12	0.04	0.03	0.07	0.03	0.16
08/21/02 10:00	0.07	0.02	0.00	0.07	0.06	0.00	0.11
08/21/02 10:30	0.04	0.05	0.00	0.02	0.05	0.02	0.10
08/21/02 11:00	0.04	0.03	0.02	0.04	0.04	0.14	0.10
08/21/02 11:30	0.04	0.03	0.01	0.02	0.09	0.01	0.11

TABLE 4-8
RHODAMINE CONCENTRATIONS AT SHORELINE MONITORING STATIONS
CALIFORNIA ENERGY COMMISSION

Location: General

Sample Date & Time	6N	75N	9N	105N	12N	135N	15N
08/21/02 12:00	0.03	0.14	0.00	0.01	0.01	0.04	0.08
08/21/02 12:30	0.04	0.04	0.02	0.02	0.04	0.01	0.01
08/21/02 13:00	0.05	0.03	0.01	0.02	0.04	0.01	0.11
08/21/02 13:30	0.07	0.05	0.01	0.03	0.08	0.05	0.11
08/21/02 14:00	0.03	0.09	0.16	0.15	0.01	0.16	0.11
08/21/02 14:30	0.04	0.04	0.04	0.06	0.01	0.02	0.03
08/21/02 15:00	0.03	0.16	0.04	0.09	0.06	0.01	0.15
08/21/02 15:30	0.07	0.15	0.00	0.05	0.17	0.07	0.11

Notes:

Rhodamine WT concentrations in micrograms per liter (ug/L) which are equivalent to parts per billion (ppb).

-- denotes that a water sample was not collected at this time.

TABLE 4-9
OFFSHORE DYE STUDY NEAR SHORE BACTERIAL SAMPLES
CALIFORNIA ENERGY COMMISSION

Location: General

Sample Location	Sample Time	Latitude	Longitude	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)
Surf 1	9:23	117.95970	33.62718	2	1	<1
Surf 2	9:31	117.96390	33.62798	<1	<1	<1
Surf 3	10:00	117.97920	33.63875	<1	<1	<1
Surf 4	10:20	117.99200	33.64700	11	7	4
Surf 5	11:40	117.98370	33.63843	2	1	<1
Surf 6	12:07	118.00490	33.65350	2	<1	<1

TABLE 4-10
BACTERIAL SOURCE TRACKING
CALIFORNIA ENERGY COMMISSION

Location: General

Sample Location	Sample Date	Tracking Time	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Human *(Bacteroides/Prevotella)*	Human Enterovirus
Blackford's Ditch (BD)	8/20/2002	12:15	12:10	**18000**	**1700**	**1800**	No	No
Blackford's Ditch (BD)	8/20/2002	14:00	16:20	**3000**	**1300**	**150**	No	No
Blackford's Ditch (BD)	8/20/2002	16:00	16:20	**3000**	**1300**	**150**	No	No
Blackford's Ditch (BD)	8/20/2002	19:00	19:15	**3000**	**1100**	**1300**	No	No
Blackford's Ditch (BD)	8/21/2002	2:10	3:45	2000	200	**3200**	No	No
Blackford's Ditch (BD)	8/21/2002	3:45	3:45	2000	200	**3200**	No	No
Blackford's Ditch (BD)	8/21/2002	11:50	11:50	**1200**	**500**	**120**	No	No
Blackford's Ditch (BD)	8/21/2002	22:15	22:15	500	200	**1700**	No	No
Blackford's Ditch (BD)	8/22/2002	9:30	11:35	**21000**	**500**	**5200**	No	No
Blackford's Ditch (BD)	8/22/2002	22:05	22:30	7000	**500**	**5400**	No	No
Blackford's Ditch (BD)	8/23/2002	0:00	0:55	**23000**	**800**	**13000**	No	No
Blackford's Ditch (BD) †	8/23/2002	0:00	0:55	**23000**	**800**	**13000**	No	*
Boiler Fireside Wash (BFW)	8/20/2002	10:52	10:45	**44000**	**500**	**57000**	No	No
Boiler Fireside Wash (BFW)	8/21/2002	10:15	10:15	**68000**	**700**	**33000**	No	No
Boiler Fireside Wash (BFW)	8/22/2002	10:10	10:10	**24000**	**700**	**25000**	No	No
Boiler Fireside Wash (BFW)	8/23/2002	11:10	11:10	**26000**	**610**	**23000**	No	No
Boiler Fireside Wash (BFW) †	8/23/2002	11:10	11:10	**26000**	**610**	**23000**	No	*
Boiler Sump Wash (BSW)	8/20/2002	11:12	11:00	200	20	**110**	No	No
Boiler Sump Wash (BSW)	8/21/2002	10:30	10:30	2000	5	80	No	No
Boiler Sump Wash (BSW)	8/22/2002	9:30	10:35	1500	22	**110**	No	No
Boiler Sump Wash (BSW)	8/23/2002	10:15	10:15	1500	21	**120**	No	No
Boiler Sump Wash (BSW) †	8/23/2002	10:15	10:15	1500	21	**120**	No	*
Discharge Vault (DV0)	8/20/2002	9:47	9:20	10	<1	<1	No	No
Discharge Vault (DV0)	8/20/2002	12:55	12:55	5	1	<1	No	No
Discharge Vault (DV0)	8/20/2002	15:20	15:20	4	2	16	No	No

TABLE 4-10
BACTERIAL SOURCE TRACKING
CALIFORNIA ENERGY COMMISSION

Location: General

Sample Location	Sample Date	Tracking Time	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Human *(Bacteroides/Prevotella)*	Human Enterovirus
Discharge Vault (DV0)	8/20/2002	18:30	18:30	10	2	**110**	No	No
Discharge Vault (DV0)	8/21/2002	3:25	3:20	5	2	<1	No	No
Discharge Vault (DV0)	8/21/2002	9:45	9:50	20	1	<1	No	No
Discharge Vault (DV0)	8/21/2002	15:00	15:30	10	<1	2	No	No
Discharge Vault (DV0)	8/21/2002	21:40	21:40	<1	<1	7	No	No
Discharge Vault (DV0)	8/22/2002	9:30	9:30	30	5	30	No	No
Discharge Vault (DV0)	8/22/2002	15:30	15:30	<1	<1	<1	No	No
Discharge Vault (DV0)	8/22/2002	18:30	18:30	2	1	70	No	No
Discharge Vault (DV0)	8/22/2002	22:05	22:05	<1	<1	1	**Yes**	No
Discharge Vault (DV0)	8/23/2002	9:35	9:35	40	3	<1	No	No
Discharge Vault (DV0) †	8/23/2002	12:35	12:35	4	1	1	No	*
Discharge Vault (DV0)	8/23/2002	12:35	12:35	4	1	1	No	No
Discharge Vault (DV10)	8/20/2002	10:15	9:25	3	1	1	No	No
Discharge Vault (DV10)	8/22/2002	9:43	9:43	<1	<1	<1	No	No
Discharge Vault (DV10)	8/23/2002	9:45	9:45	10	2	<1	No	No
General Retention Basin (GP)	8/20/2002	11:40	11:45	100	10	4	No	No
General Retention Basin (GP)	8/21/2002	11:15	11:15	100	10	2	No	No
General Retention Basin (GP)	8/22/2002	11:20	11:20	1300	20	30	No	**Yes****
General Retention Basin (GP)	8/23/2002	11:00	11:00	5000	50	40	No	No
Intake Vault (IV)	8/20/2002	10:37	9:15	4	2	<1	No	No
Intake Vault (IV)	8/20/2002	12:40	12:40	<1	<1	<1	No	No
Intake Vault (IV)	8/20/2002	16:00	16:00	<1	<1	4	No	No
Intake Vault (IV)	8/20/2002	19:00	19:00	<1	<1	**520**	No	No
Intake Vault (IV)	8/21/2002	2:00	3:10	<1	<1	5	No	No
Intake Vault (IV)	8/21/2002	3:15	3:10	<1	<1	5	No	**Yes**

TABLE 4-10
BACTERIAL SOURCE TRACKING
CALIFORNIA ENERGY COMMISSION

Location: General

Sample Location	Sample Date	Tracking Time	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)	Human *(Bacteroides/Prevotella)*	Human Enterovirus
Intake Vault (IV)	8/21/2002	9:55	9:55	30	4	<1	No	No
Intake Vault (IV)	8/21/2002	15:00	16:00	<1	<1	33	No	No
Intake Vault (IV)	8/21/2002	21:40	21:45	4	<1	1	**Yes**	No
Intake Vault (IV)	8/22/2002	9:30	9:50	10	<1	1	No	No
Intake Vault (IV)	8/22/2002	15:30	16:00	<1	<1	11	No	No
Intake Vault (IV)	8/22/2002	18:30	19:00	4	1	**210**	No	No
Intake Vault (IV)	8/22/2002	22:00	22:00	2	<1	73	No	No
Intake Vault (IV)	8/23/2002	9:55	9:55	10	<1	<1	No	No
Intake Vault (IV)	8/23/2002	13:00	13:05	5	1	<1	No	No
Intake Vault (IV) †	8/23/2002	13:00	13:05	5	1	<1	No	*
Storm Water Sump (SWS)	8/20/2002	11:30	11:20	100	50	21	No	No
Storm Water Sump (SWS)	8/21/2002	10:55	10:55	200	20	<1	No	No
Storm Water Sump (SWS)	8/22/2002	11:05	11:05	5000	300	20	No	No
Storm Water Sump (SWS)	8/23/2002	10:40	10:40	500	4	5	No	No

Notes:

† = phenol extraction

* = This row represents an alternate DNA extraction method, and did not involve an enterovirus test (which uses RNA extraction).

** = This sample extract was retested and was negative, which may mean the initial positive result was false. However, due to the highly labile nature of RNA, it is possible it degraded between tests.

TABLE 4-11
QA/QC
CALIFORNIA ENERGY COMMISSION

Location: Equipment Blank (EB)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)
7/16/2002	10:00	<1	<1	<1
7/17/2002	12:50	<1	<1	<1
7/18/2002	13:40	<1	<1	<1
7/19/2002	11:30	<1	<1	<1
7/20/2002		<1	<1	<1
7/21/2002	11:05	<1	<1	<1
7/22/2002	10:05	<1	<1	<1
7/23/2002	11:05	<1	<1	<1
7/24/2002	10:30	<1	<1	<1
7/24/2002	9:38	**15**	**9**	<1
7/25/2002	9:50	**15**	<1	**1**
7/26/2002	9:50	**3**	<1	<1
7/27/2002	9:58	<1	<1	<1
7/28/2002	9:40	<1	<1	<1
7/29/2002	9:37	**12**	<1	<1
7/30/2002	10:20	<1	<1	<1
7/31/2002	9:10	<1	<1	<1
8/1/2002	9:30	<1	<1	<1
8/2/2002	9:45	<1	<1	<1
8/3/2002	9:08	<1	<1	<1
8/4/2002	9:45	**73**	<1	<1
8/5/2002	9:28	<1	<1	<1
8/6/2002	9:25	**3**	<1	<1
8/7/2002	8:40	**30**	**2**	<1
8/8/2002	9:00	**5**	<1	<1
8/9/2002	8:55	<1	<1	<1
8/10/2002	9:40	<1	<1	<1
8/11/2002	8:45	**3**	<1	<1
8/12/2002	9:00	**5**	<1	<1
8/13/2002	10:20	**5**	<1	<1
8/14/2002	8:20	<1	<1	<1
8/15/2002	11:45	<1	<1	<1
8/16/2002	9:25	<1	<1	<1
8/17/2002	9:55	<1	<1	<1
8/18/2002	11:37	<1	<1	<1
8/19/2002	11:50	<1	<1	<1
8/25/2002	10:25	<1	<1	<1

Location: Equipment Blank (EB)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)
8/26/2002	10:30	<1	<1	<1
8/27/2002	9:50	<1	<1	<1
8/28/2002	9:50	**5**	<1	<1
8/29/2002	9:40	**5**	<1	<1
8/30/2002	9:50	**2**	<1	<1
8/31/2002	7:40	**5**	<1	<1
9/1/2002	8:45	**7**	<1	<1
9/2/2002	9:50	<1	<1	<1
9/3/2002	9:30	<1	<1	<1
9/4/2002	9:40	<1	<1	<1
9/5/2002	9:30	<1	<1	<1
9/6/2002	9:15	<1	<1	<1
9/7/2002	9:07	<1	<1	<1
9/8/2002	9:00	<1	<1	<1
9/9/2002	8:50	<1	<1	<1
9/10/2002	9:02	<1	<1	<1
9/11/2002	9:35	<1	<1	<1
9/12/2002	9:00	<1	<1	<1
9/13/2002	9:15	<1	<1	<1
9/14/2002	8:10	<1	<1	<1
9/15/2002	8:35	<1	<1	<1
9/16/2002	8:07	<1	<1	<1
9/17/2002	8:58	<1	<1	<1
9/18/2002	9:03	<1	<1	<1
9/19/2002	9:04	<1	<1	<1
9/20/2002	9:06	<1	<1	<1
9/21/2002	10:30	**2**	<1	<1
9/22/2002	8:43	**1**	<1	<1
9/23/2002	8:56	**2**	<1	<1
9/24/2002	9:25	<1	<1	<1
9/25/2002	8:35	**5**	<1	<1
9/26/2002	9:45	**2**	<1	<1
9/27/2002	10:35	<1	<1	<1
9/28/2002	9:30	**5**	<1	**6**
9/29/2002	9:15	**4**	<1	<1
9/30/2002	8:40	**5**	<1	<1
10/1/2002	8:30	**3**	<1	<1

Location: Equipment Blank (EB)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)
10/2/2002	8:30	**4**	<1	<1
10/3/2002	8:55	**3**	<1	<1
10/4/2002	8:40	**3**	<1	<1
10/5/2002	8:39	**5**	<1	<1
10/6/2002	8:16	**1**	<1	<1
10/7/2002	8:45	**5**	<1	<1
10/8/2002	9:00	**2**	<1	<1
10/9/2002	8:45	<1	<1	<1
10/10/2002	8:45	**10**	<1	<1
10/11/2002	8:45	<1	<1	<1
10/12/2002	8:10	<1	<1	<1
10/13/2002	10:35	<1	<1	<1
10/14/2002	8:10	**4**	<1	<1
10/15/2002	9:50	<1	<1	<1

Location: Field Blank (FB)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)
7/16/2002	10:05	<1	<1	<1
7/17/2002	12:50	<1	<1	<1
7/18/2002	13:45	<1	<1	<1
7/19/2002	11:30	<1	<1	<1
7/20/2002		<1	<1	<1
7/21/2002	11:10	<1	<1	<1
7/22/2002	10:05	<1	<1	<1
7/23/2002		<1	<1	<1
7/24/2002	10:30	<1	<1	<1
7/25/2002	9:50	<1	<1	<1
7/26/2002	9:45	<1	<1	<1
7/27/2002	10:05	<1	<1	<1
7/28/2002	9:45	<1	<1	<1
7/29/2002	9:45	<1	<1	<1
7/30/2002	10:25	<1	<1	<1
7/31/2002	9:15	<1	<1	<1
8/1/2002	9:35	<1	<1	<1
8/2/2002	9:50	<1	<1	<1
8/3/2002	9:10	<1	<1	<1
8/4/2002	9:50	<1	<1	<1
8/5/2002	9:31	<1	<1	<1
8/6/2002	9:27	<1	<1	<1
8/7/2002	8:47	<1	<1	<1
8/8/2002	9:10	<1	<1	<1
8/9/2002	9:00	<1	<1	<1
8/10/2002	9:40	<1	<1	<1
8/11/2002	8:45	<1	<1	<1
8/12/2002	9:05	<1	<1	<1
8/13/2002	10:25	<1	<1	<1
8/14/2002	8:25	<1	<1	<1
8/15/2002	11:40	<1	<1	<1
8/16/2002	9:20	<1	<1	<1
8/17/2002	11:55	<1	<1	<1
8/18/2002	11:40	<1	<1	<1
8/19/2002	12:00	<1	<1	<1
8/25/2002	10:20	<1	<1	<1
8/26/2002	10:35	<1	<1	<1

Location: Field Blank (FB)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)
8/27/2002	9:50	<1	<1	<1
8/28/2002	9:50	<1	<1	<1
8/29/2002	9:40	<1	<1	<1
8/30/2002	9:50	<1	<1	<1
8/31/2002	7:40	<1	<1	<1
9/1/2002	8:45	<1	<1	<1
9/2/2002	9:50	<1	<1	<1
9/3/2002	9:35	<1	<1	<1
9/4/2002	9:15	<1	<1	<1
9/5/2002	9:35	<1	<1	<1
9/6/2002	9:17	<1	<1	<1
9/7/2002	9:10	<1	<1	<1
9/8/2002	9:05	<1	<1	<1
9/9/2002	8:52	<1	<1	<1
9/10/2002	9:07	<1	<1	<1
9/11/2002	9:37	<1	<1	<1
9/12/2002	9:05	<1	<1	<1
9/13/2002	9:05	<1	<1	<1
9/14/2002	8:15	<1	<1	<1
9/15/2002	8:40	<1	<1	<1
9/16/2002	8:10	<1	<1	<1
9/17/2002	9:01	<1	<1	<1
9/18/2002	9:05	<1	<1	<1
9/19/2002	9:07	<1	<1	<1
9/20/2002	9:10	<1	<1	<1
9/21/2002	10:32	<1	<1	<1
9/22/2002	8:05	<1	<1	<1
9/23/2002	9:02	<1	<1	<1
9/24/2002	9:20	<1	<1	<1
9/25/2002	8:30	<1	<1	<1
9/26/2002	9:50	<1	<1	<1
9/27/2002	10:45	<1	<1	<1
9/28/2002	9:20	<1	<1	<1
9/29/2002	8:50	<1	<1	<1
9/30/2002	8:45	<1	<1	<1
10/1/2002	8:35	<1	<1	<1
10/2/2002	8:15	<1	<1	<1

Location: Field Blank (FB)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)
10/3/2002	9:00	<1	<1	<1
10/4/2002	8:50	<1	<1	<1
10/5/2002	8:47	<1	<1	<1
10/6/2002	8:21	<1	<1	<1
10/7/2002	8:50	<1	<1	<1
10/8/2002	8:50	<1	<1	<1
10/9/2002	8:40	<1	<1	<1
10/10/2002	8:50	<1	<1	<1
10/11/2002	8:35	<1	<1	<1
10/12/2002	8:05	<1	<1	<1
10/13/2002	10:35	<1	<1	<1
10/14/2002	8:05	<1	<1	<1
10/15/2002	9:35	<1	<1	<1

Relative Percentage Difference

		Total Coliform (cfu/100 ml)			Fecal Coliform (cfu/100 ml)			Enterococcus (cfu/100 ml)		
Sample Date	**Duplicate Time**	**Sample**	**Duplicate**	**RPD (%)**	**Sample**	**Duplicate**	**RPD (%)**	**Sample**	**Duplicate**	**RPD (%)**
7/16/2002	13:15	200	300	**40.00**	13	14	**7.41**	140	160	**13.33**
7/17/2002	10:30	85	68	**22.22**	15	21	**33.33**	9	8	**11.76**
7/18/2002	11:55	750	700	**6.90**	58	60	**3.39**	170	190	**11.11**
7/19/2002	12:40	2300	2100	**9.09**	730	620	**16.30**	7500	7300	**2.70**
7/20/2002	8:10	9100	9000	**1.10**	170	150	**12.50**	2200	2100	**4.65**
7/21/2002	9:00	1400	1900	**30.30**	700	860	**20.51**	2	2	**0.00**
7/22/2002	6:55	600	500	**18.18**	240	250	**4.08**	210	250	**17.39**
7/23/2002	8:30	1100	1200	**8.70**	330	320	**3.08**	230	190	**19.05**
7/24/2002	9:02	30	20	**40.00**	20	10	**66.67**	<1	<1	**0.00**
7/25/2002	9:30	10000	11000	**9.52**	170	180	**5.71**	190	200	**5.13**
7/26/2002	7:25	110	160	**37.04**	74	81	**9.03**	880	790	**10.78**
7/27/2002	10:15	4000	4900	**20.22**	70	90	**25.00**	90	130	**36.36**
7/28/2002	7:46	550	590	**7.02**	110	120	**8.70**	1200	1300	**8.00**
7/29/2002	9:19	3	11	**114.29**	2	9	**127.27**	<1	2	**200.00**
7/30/2002	7:40	510	480	**6.06**	72	69	**4.26**	1600	1500	**6.45**
7/31/2002	9:55	15000	17000	**12.50**	530	610	**14.04**	1300	1600	**20.69**
8/1/2002	9:15	<1	<1	**0.00**	<1	<1	**0.00**	<1	<1	**0.00**
8/2/2002	8:34	<1	<1	**0.00**	<1	<1	**0.00**	<1	<1	**0.00**
8/3/2002	8:47	90	70	**25.00**	3	2	**40.00**	<1	<1	**0.00**
8/4/2002	10:12	5100	5400	**5.71**	230	250	**8.33**	150	170	**12.50**
8/5/2002	7:42	530	490	**7.84**	140	120	**15.38**	180	160	**11.76**
8/6/2002	9:22	20	20	**0.00**	11	9	**20.00**	8	9	**11.76**
8/7/2002	9:08	900	1000	**10.53**	20	10	**66.67**	22	31	**33.96**
8/8/2002	7:16	1100	1000	**9.52**	800	690	**14.77**	320	300	**6.45**
8/9/2002	7:50	20	20	**0.00**	10	11	**9.52**	44	41	**7.06**
8/10/2002	8:15	30	40	**28.57**	11	15	**30.77**	3	4	**28.57**
8/11/2002	7:35	10	10	**0.00**	3	2	**40.00**	7	5	**33.33**
8/12/2002	8:10	200	100	**66.67**	50	40	**22.22**	33	31	**6.25**
8/13/2002	8:40	5	3	**50.00**	3	2	**40.00**	<1	<1	**0.00**
8/14/2002	8:15	20	100	**133.33**	2	1	**66.67**	1	3	**100.00**
8/15/2002	11:30	110	90	**20.00**	30	20	**40.00**	30	10	**100.00**
8/16/2002	10:50	400	200	**66.67**	30	30	**0.00**	30	30	**0.00**
8/17/2002	9:40	100	90	**10.53**	19	13	**37.50**	2	2	**0.00**
8/18/2002	10:30	27000	31000	**13.79**	2800	3000	**6.90**	86000	92000	**6.74**
8/19/2002	9:40	30	20	**40.00**	20	10	**66.67**	<1	1	**200.00**
8/20/2002	8:20	100	100	**0.00**	50	20	**85.71**	21	<1	**200.00**
8/21/2002	11:25	100	100	**0.00**	10	20	**66.67**	2	<1	**200.00**

Relative Percentage Difference

		Total Coliform (cfu/100 ml)			Fecal Coliform (cfu/100 ml)			Enterococcus (cfu/100 ml)		
Sample Date	**Duplicate Time**	**Sample**	**Duplicate**	**RPD (%)**	**Sample**	**Duplicate**	**RPD (%)**	**Sample**	**Duplicate**	**RPD (%)**
8/22/2002	11:45	21000	15000	**33.33**	500	300	**50.00**	5200	4900	**5.94**
8/23/2002	9:40	40	30	**28.57**	3	3	**0.00**	<1	<1	**0.00**
8/24/2002	9:45	11	10	**9.52**	3	2	**40.00**	7	6	**15.38**
8/25/2002	9:40	3	2	**40.00**	2	1	**66.67**	1	1	**0.00**
8/26/2002	10:00	300	400	**28.57**	40	50	**22.22**	50	50	**0.00**
8/27/2002	9:30	300	200	**40.00**	5	1	**133.33**	20	10	**66.67**
8/28/2002	10:00	1	1	**0.00**	<1	<1	**0.00**	<1	<1	**0.00**
8/29/2002	9:35	120	100	**18.18**	3	2	**40.00**	<1	<1	**0.00**
8/30/2002	8:50	6000	4000	**40.00**	900	500	**57.14**	14000	11000	**24.00**
8/31/2002	7:20	100	120	**18.18**	20	20	**0.00**	200	210	**4.88**
9/1/2002	8:50	1	1	**0.00**	<1	<1	**0.00**	<1	<1	**0.00**
9/2/2002	9:50	<1	<1	**0.00**	<1	<1	**0.00**	<1	<1	**0.00**
9/3/2002	10:12	8000	7000	**13.33**	210	150	**33.33**	330	350	**5.88**
9/4/2002	8:47	600	500	**18.18**	30	18	**50.00**	16	20	**22.22**
9/5/2002	9:12	5000	6000	**18.18**	50	80	**46.15**	30	25	**18.18**
9/6/2002	9:05	300	400	**28.57**	5	9	**57.14**	3	4	**28.57**
9/7/2002	8:17	67000	59000	**12.70**	900	700	**25.00**	35000	31000	**12.12**
9/8/2002	8:57	90	100	**10.53**	8	6	**28.57**	1	1	**0.00**
9/9/2002	8:02	15000	14000	**6.90**	430	380	**12.35**	16000	14000	**13.33**
9/10/2002	7:40	200	300	**40.00**	7	8	**13.33**	260	190	**31.11**
9/11/2002	7:15	26000	31000	**17.54**	700	800	**13.33**	19000	16000	**17.14**
9/12/2002	7:42	500	700	**33.33**	170	210	**21.05**	120	110	**8.70**
9/13/2002	8:45	40	50	**22.22**	1	1	**0.00**	<1	<1	**0.00**
9/14/2002	9:20	11000	9000	**20.00**	500	400	**22.22**	2600	2900	**10.91**
9/15/2002	7:10	4000	5000	**22.22**	130	110	**16.67**	1100	150	**152.00**
9/16/2002	7:40	8000	11000	**31.58**	180	230	**24.39**	110	120	**8.70**
9/17/2002	9:17	5000	8000	**46.15**	38	43	**12.35**	1500	1700	**12.50**
9/18/2002	8:37	3000	5000	**50.00**	30	40	**28.57**	2300	28000	**169.64**
9/19/2002	9:33	200	300	**40.00**	40	50	**22.22**	28	32	**13.33**
9/20/2002	9:25	200	100	**66.67**	40	20	**66.67**	30	30	**0.00**
9/21/2002	10:17	10	<1	**200.00**	<1	<1	**0.00**	1	1	**0.00**
9/22/2002	9:57	5000	6000	**18.18**	30	40	**28.57**	170	140	**19.35**
9/23/2002	8:15	7	10	**35.29**	5	3	**50.00**	<1	<1	**0.00**
9/24/2002	8:20	20	20	**0.00**	<1	<1	**0.00**	1	1	**0.00**
9/25/2002	7:25	2000	2000	**0.00**	1900	1500	**23.53**	2200	2500	**12.77**
9/26/2002	7:50	70	90	**25.00**	2	4	**66.67**	20	12	**50.00**
9/27/2002	10:25	1200	500	**82.35**	40	60	**40.00**	12	220	**179.31**

Relative Percentage Difference

		Total Coliform (cfu/100 ml)			Fecal Coliform (cfu/100 ml)			Enterococcus (cfu/100 ml)		
Sample Date	**Duplicate Time**	**Sample**	**Duplicate**	**RPD (%)**	**Sample**	**Duplicate**	**RPD (%)**	**Sample**	**Duplicate**	**RPD (%)**
9/28/2002	8:30	800	900	**11.76**	110	130	**16.67**	5200	6100	**15.93**
9/29/2002	8:25	120	130	**8.00**	15	20	**28.57**	30	40	**28.57**
9/30/2002	7:20	300	200	**40.00**	50	30	**50.00**	3100	2800	**10.17**
10/1/2002	7:55	30	20	**40.00**	5	4	**22.22**	73	65	**11.59**
10/2/2002	7:55	200	100	**66.67**	8	5	**46.15**	70	50	**33.33**
10/3/2002	7:25	1300	1200	**8.00**	70	50	**33.33**	1200	1500	**22.22**
10/4/2002	7:45	300	500	**50.00**	20	50	**85.71**	280	350	**22.22**
10/5/2002	7:15	3000	4000	**28.57**	110	130	**16.67**	2100	2800	**28.57**
10/6/2002	7:15	800	900	**11.76**	320	330	**3.08**	3500	3800	**8.22**
10/7/2002	7:20	2100	1800	**15.38**	520	500	**3.92**	1900	1700	**11.11**
10/8/2002	7:50	3500	3100	**12.12**	60	50	**18.18**	140	110	**24.00**
10/9/2002	7:30	300	500	**50.00**	140	150	**6.90**	1300	1400	**7.41**
10/10/2002	7:30	430	50	**158.33**	150	10	**175.00**	740	170	**125.27**
10/11/2002	7:30	420	430	**2.35**	130	150	**14.29**	710	730	**2.78**
10/12/2002	7:30	600	500	**18.18**	150	180	**18.18**	420	390	**7.41**
10/13/2002	10:10	1100	1300	**16.67**	150	170	**12.50**	410	480	**15.73**
10/14/2002	7:35	1100	900	**20.00**	180	180	**0.00**	730	670	**8.57**
10/15/2002	7:25	500	400	**22.22**	260	250	**3.92**	900	1100	**20.00**
			Mean RPD: 27.90				29.41			28.60

Notes:
RPD = Relative Percentage Difference

TABLE 5-1
Exceedance of AB 411 Recreational Water Standards
CALIFORNIA ENERGY COMMISSION

Location: Discharge Vault (DV0)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)
8/7/2002	8:25	**1300**	**420**	31
8/15/2002	18:35	20	0	**120**
8/17/2002	0:30	900	60	**260**
8/17/2002	18:20	100	6	**110**
8/18/2002	18:30	10	1	**120**
8/19/2002	18:20	10	2	**140**
8/20/2002	18:30	10	2	**110**
8/23/2002	18:30	20	0	**470**
8/25/2002	3:35	300	40	**330**
11/9/2002	11:15	2400	50	**110**

TABLE 5-1
Exceedance of AB 411 Recreational Water Standards
CALIFORNIA ENERGY COMMISSION

Location: Discharge Vault (DV10)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)
8/19/2002	18:30	0	0	**160**
8/23/2002	18:45	300	2	**610**
11/9/2002	11:30	3100	70	**130**

TABLE 5-1
Exceedance of AB 411 Recreational Water Standards
CALIFORNIA ENERGY COMMISSION

Location: Intake Vault (IV)

Sample Date	Sample Time	Total Coliform (cfu/100 ml)	Fecal Coliform (cfu/100 ml)	Enterococcus (cfu/100 ml)
8/15/2002	18:30	3	0	**590**
8/16/2002	18:20	10	0	**150**
8/17/2002	18:37	0	0	**500**
8/18/2002	18:45	10	0	**140**
8/20/2002	0:45	20	0	**160**
8/20/2002	19:00	0	0	**520**
8/21/2002	0:10	10	2	**210**
8/22/2002	19:00	4	1	**210**
9/2/2002	10:00	10	0	**120**
11/9/2002	12:00	**1200**	180	**250**

Notes:
NA = Not Analyzed

Data Entry		
Description	Value	Units
Length of Intake Pipe	2,430	feet
Intake Pipe Diameter	14	feet
Number of Operational Pumps	5	#
Intake Flow Rate	210,000	gallons / minute
Bivalve Density on Intake Pipe Wall	500,000	# / m^2
Bivalve Excretion Rate	500	ug / g AFDW / hour
Bivalve Average Dry Weight	15	mg

Data Conversion		
Description	Value	Units
Internal Surface Area of Intake Pipe	9,929	m^2
Total Number of Bivalves on Pipe Wall	4,964,598,270	#
Dry Weight Mass of Bivalves	74,468,974	g
Total Excreted Mass Flux of Ammonia	10.34	g / s
Intake Flow Rate	13,249	L / s
Concentration from Ammonia Load	0.78	mg / L

Ammonia Mass Loading from Bivalves	**0.78**	**mg / L**

Ammonia Excretion Modeling		
Number of Operational Pumps	Ammonia Mass Loading (mg / L)	
	Predicted	Actual (IV / DV)
1	3.90	-
2	1.95	1.65 / 2.55
3	1.30	1.85 / 2.20
4	0.98	1.61 / 2.23
5	0.78	2.1 / 2.17
6	0.65	2.45 / 2.48
7	0.56	-
8	0.49	-

Notes:

- number
m2 - square meters
ug - micrograms
g - grams
AFDW - ash-free dry weight
mg - milligrams
s - seconds
L - liters