NOVATO SANITARY DISTRICT
Novato Effluent - E-002
Ammonia-N and Unionized Ammonia Monthly Values
Method: SM 4500 D

Ammonia

Daily Maximum Interim Limit = 21 mg/L
Monthly Average Interim Limit = 6.0 mg/L

Date	Sampler	Time of sample	Analyst	Time Anal.	Date Anal.	Ammonia Effluent E-002 mg/L		Sampler	Time of sample	Analyst	Time Anal.	Date Anal.	Un-ionized Ammonia mg/L Calculation	
3/1/2011														
3/2/2011														
3/3/2011														
3/4/2011														
3/5/2011														
3/6/2011														
3/7/2011														
3/8/2011														
3/9/2011														
3/10/2011														
3/11/2011														
3/12/2011														
3/13/2011														
3/14/2011	KB	6:10	kb2	11:10	3/18/2011	<	0.10							
3/15/2011	KB	6:10	kb2	11:10	3/18/2011	<	0.10							
3/16/2011	KB	6:10	kb2	11:10	3/18/2011		0.11	KB	6:10	PJB	11:47	4/12/2011		0.00048
3/17/2011	KB	6:10	kb2	11:10	3/18/2011		0.10							
3/18/2011	KB	6:10	kb2	11:10	3/18/2011	<	0.10							
3/19/2011														
3/20/2011														
3/21/2011														
3/22/2011														
3/23/2011														
3/24/2011														
3/25/2011														
3/26/2011														
3/27/2011														
3/28/2011														
3/29/2011														
3/30/2011														
3/31/2011														
Minimum						<	0.10							0.00048
Maximum							0.11							0.00048
Average							0.10							0.00048

Ammonia Reporting Limit (RL) = 0.1 mg/L
Ammonia Method Dectection Limit (MDL)= 0.1 mg/L

Unionized Ammonia RL = 0.0.0004 mg/L
Unionized Ammonia MDL = 0.0

ND= value less than MDL
J= est. analytical result detected below the RL above MDL

NOVATO SANITARY DISTRICT

MARCH 2011 E-002 Novato Effluent - Metals Report for Priority Toxic Pollutants

COMPOSITE SAMPLE	DATE
Sampling Start:	3/15/2011
Sampling Stop:	3/16/2011
Collection Time	6:10

GRAB SAMPLES	DATE
CN & Hg Grab Sample:	3/16/2011

CTR #	CONSTITUENT	Total Daily Flow MG	ND or J	Analytical Results ug/L	RDL[3] Reporting Limit ug/L	MDL[2] Method Detection Limit ug/L	ML[1] Method Limit ug/L	USEPA Method Used	Sample Collection Method	Analyst	Date Sample Analyzed	COMMENTS
1	Arsenic	9.15		**0.53**	0.50	0.008	0.50	200.8	Composite	SMD	3/23/2011	
2	Cadmium	9.15	**ND**		0.10	0.011	0.10	200.8	Composite	SMD	3/23/2011	
3	Chromium (T)	9.15	**J**	**0.40**	0.50	0.02	0.50	200.8	Composite	SMD	3/23/2011	Estimated Conc.
4	Copper	9.15		**2.90**	0.50	0.06	0.50	200.8	Composite	SMD	3/23/2011	
5	Lead	9.15	**J**	**0.12**	0.25	0.071	0.25	200.8	Composite	SMD	3/23/2011	Estimated Conc.
6	Mercury			**0.0032**	0.0005	0.0002	0.0005	1631E	Grab	LM	3/23/2011	
7	Nickel	9.15		**3.80**	0.50	0.01	0.50	200.8	Composite	SMD	3/23/2011	
8	Selenium	9.15	**J**	**0.25**		0.13	1.00	200.8	Composite	SMD	3/23/2011	Estimated Conc.
9	Silver	9.15	**ND**		0.10	0.063	0.10	200.8	Composite	SMD	3/23/2011	
10	Zinc	9.15		**19.0**	1.00	0.8	1.00	200.8	Composite	SMD	3/23/2011	
11	Cyanide		**ND**		3.00	0.6	3.00	SM4500	Grab	BCP	3/29/2011	
12	Oil and Grease		**ND**		5.50	1.5	5.50	1664	Grab	NP	3/18/2011	

Oil/Grease, Hg and CN :		8:00 AM	10:00 AM	12:00 PM	2:00 PM
Flow at sample time (MG)		12	13	10	11

1. **ML** (Minimum Level) is the concentration at which the entire analytical system must give a recognizable signal and acceptable calibration point. The ML is the concentration in a sample that is equivalent to the concentration of the lowest calibration standard. **ML = RDL or RL.**
2. **MDL** (Method Detection Limit) is the minimum concentration of a substance that can be measured and reported with 99 percent confidence that the concentration is greater than zero. (40CFR 136, Appendix B)
3. **RDL or RL** (Reporting Detection Limit) is the detection level that results from analyzing an actual sample, as reported on the monitoring report. The RDL reflects matrix interference's.

J VALUE: A "J" flagged result reflects a value seen below the Reporting Limit (RL or RDL), but above the Method Detection Limit (MDL). **ND** = Not detected. **0** = No flags.

Novato Sanitary District Self Monitoring Program

For the month of March, 2011

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Wastewater Reclamation Data

Date	Irrigation Spray E-009 (mgd)	Tailwater Discharge E-010 (mgd)	Pond 1 E-007 pH	Pond 1 E-007 D.O. (mg/l)	Pond 1 E-007 Temp (C)	Pond 2 E-008 pH	Pond 2 E-008 D.O. (mg/l)	Pond 2 E-008 Temp (C)
1								
2								
3								
4			9.6	11.8	15.8	9.8	13.6	14.5
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
Max			9.6	11.8	15.8	9.8	13.6	14.5
Min			9.6	11.8	15.8	9.8	13.6	14.5
Avg			9.6	11.8	15.8	9.8	13.6	14.5
Total								

Novato Sanitary District Self Monitoring Program

For the month of March, 2011

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Wastewater Reclamation - Wildlife Pond

	Influent				Effluent		
Date	Chlorine Residual (mg/l)	pH	D.O. (mg/l)	Temp (C)	pH	D.O. (mg/l)	Temp (C)
1							
2							
3							
4	0.0	8.5	11.6	16.0	7.9	10.0	14.9
5							
6							
7							
8							
9							
10							
11	0.0	7.9	8.7	15.0	7.8	9.6	14.8
12							
13							
14							
15							
16							
17							
18	0.0	7.9	9.0	12.7	7.7	9.1	12.3
19							
20							
21							
22							
23							
24							
25	0.0	8.0	10.3	13.0	7.8	10.0	12.7
26							
27							
28							
29							
30							
31							
Max	0.0	8.5	11.6	16.0	7.9	10.0	14.9
Min	0.0	7.9	8.7	12.7	7.7	9.1	12.3
Avg	0.0	8.1	9.9	14.2	7.8	9.7	13.7

Novato Sanitary District Self-Monitoring Program

Data for: March 2011

WASTEWATER RECLAMATION

Wildlife Pond - Weekly Inspection Report

	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5
DATE	3/04/2011	3/11/2011	3/18/2011	3/25/2011	
Circulation Rate (mgd)	1.5	1.5	1.5	1.5	
Water Depth (feet)	6.0	6.0	6.0	6.0	
Wildfowl Present	200	<100	<50	>200	
Dead Animals	None	None	None	None	
Plant Growth	None	None	None	None	
Cattails & Bulrushes	Dried & Green	Dried & Green	Dried & Green	Dried & Green	
Plant Growth in Pond	None	None	None	None	
Mosquitoes/Larvae	Absent	Absent	Absent	Absent	
Algal/Plant Scum	None	None	None	None	
Levee Damage	None	None	None	None	

NOTES:

Novato Sanitary District Self-Monitoring Program

Report for: **MARCH 2011**

The State Department of Health Services, Environmental Laboratory Accreditation Program, certifies the Novato Sanitary District Laboratory to perform the following analysis:

ALKALINITY	pH
AMMONIA NITROGEN	SETTLEABLE SOLIDS
BOD	SPECIFIC CONDUCTANCE
CHLORINE RESIDUAL	TOTAL SUSPENDED MATTER
TOTAL COLIFORM	TEMPERATURE
DISSOLVED OXYGEN	ENTEROCOCCI
FISH TOXICITY BIOASSAY	TURBIDITY
HARDNESS	FECAL COLIFORM

The following analyses were performed this month by the following certified contract laboratories:

CALTEST ANALYTICAL LABORATORY, 1855 N. Kelly Rd. Napa CA 94558

CYANIDE	HARDNESS
EPA 1631- Low Level Mercury	METALS
BOD	Un-ionized Ammonia
EPA METHOD 624	EPA METHOD 625
OIL AND GREASE	CONDUCTIVITY
TDS	ALKALINITY
PHENOL	EPA 614 – ORG PHOS PESTCIDES
pH	AMMONIA
EPA 1630 – METHYL MERCURY	EPA 608 – CHLOR. PESTICIDES
ENTEROCOCCUS	FECAL COLIFORM

SEWERAGE AGENCY OF SOUTHERN MARIN
26 Corte Madera Avenue, Mill Valley, CA 94941
ACUTE BIOASSAY

AQUA-Science, ENVIRONMENTAL TOXICOLOGY CONSULTANTS
17 Arboretum Drive, Davis, CA
CHRONIC TOXICITY

FRONTIER ANALYTICAL LABORATORY
5172 Hillsdale Circle, El Dorado Hills, CA 95762
DIOXINS

Standard Observations for March 2011
Plant Effluent Observations

Pond Observations

Reclamation Site	Freeboard (ft)	Leaching	Odor
Date:3/4/2011			
Time:1100			
By:KB1/KB2			
Irrigation Pond 1	2.0	None	None
Irrigation Pond 2	2.0	None	None
Wildlife Pond	4.0	None	None
Sludge Pond 1	1.0	None	None
Sludge Pond 2	1.0	None	None
Sludge Pond 3	3.0	None	None
Sludge Pond 4	3.0	None	None
Sludge Pond 5	4.0	None	None
Sludge Pond 6	3.0	None	None
Ignacio Plant			
Date:2/4/2011			
Time:1400			
By:KB1/KB2			
Sludge Pond 1	1.0	None	None
Sludge Pond 2	2.0	None	None

Periphery of Waste Treatment and/or Disposal Facilities Observations

Observation Date: 3/15/11

Novato Plant

Station	Weather Conditions		Odor				
Operator: [illegible]	Wind Direction	Estimated Velocity	Precense/ Absence	Characterizations	Source	Distance of travel	Wind Direction
1 - Plant entrance gate fence line			A				
2 - Decommissioned Secondary Clarifier #1fence line			A				
3 - Decommissioned Secondary Clarifier #2 old MCC Building			A				
4 - Decommissioned Blower Building fence line	S to SE	4 mph	P	Very Slight foul Air from	Bio Tower	Minimal	S to SE
5 - NW corner of Primary Clarifier Odor Control Area	S to SE	4 mph	P	Very Slight foul Air	Odor Bed	Minimal	S to SE
6 - West side (fence line) of Aeration Basins			A				
7 - West fence line behind Secondary Clarifiers			A				
8 - South fence line across form Secondary Clarifier #2			A				
9 - South fence line behind UV Disinfection area			A				
10 - South fence line by Wet Weather Building			A				
11 - SE corner of fence line			A				
12 - East fence line behind wet weather water storage area			A				
13 - East fence line behind Digester #2	S to SE	4 mph	P	Slight Digester Gas	#2 Digester	Minimal	
14 - East corner fence line behind Digester #1			A				
15 - East corner fence line behind Sludge Pumping Building			A				

c: my documents/Novato/Forms/Periphery of Waste Treatment and-or Disposal Facilities Observations 11-15-10

Observation Date	3-25-11
Operator [illegible]	Novato Station E-002
Material of Waste Origin	
Floating	A
Suspended	P
Odor	A
Type	A