Central Contra Costa Sanitary District

5019 Imhoff Place, Martinez, CA 94553-4392 (925) 228-9500 • www.centralsan.org

FAX: (925) 689-1232

JAMES M. KELLY
General Manager

KENTON L. ALM
Counsel for the District
(510) 808-2000

ELAINE R. BOEHME
Secretary of the District

April 22, 2009

Ms. Lila Tang
Regional Water Quality Control Board
1515 Clay Street, Suite 1400
Oakland, CA 94612

Dear Ms. Tang:

Enclosed is the March 2009 Discharger's Monitoring Program Report for Central Contra Costa Sanitary District, as required by our National Pollutant Discharge Elimination System Permit.

If you have any questions, please call Laboratory Superintendent Bhupinder Dhaliwal at 925-229-7237.

Sincerely,

Douglas J. Craig
Director of Plant Operations

BSD:msb

Enclosures

cc: D. Whitworth (.pdf via e-mail)
M. Esparza (via e-mail)

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DISCHARGER'S MONITORING PROGRAM REPORT

REPORTING DISCHARGER: Central Contra Costa Sanitary District

DATE OF REPORT: April 15, 2009

REPORTING PERIOD: March 2009

SUMMARY AND COMMENTS:

The following reports for influent, effluent, receiving water, and loading summaries cover the month of March 2009. All sampling and analyses were performed in accordance with Regional Water Quality Control Board (RWQCB) Order No. R2-2007-008.

The final effluent quality remained in compliance with all applicable National Pollutant Discharge Elimination System (NPDES) standards. Our regularly scheduled bi-monthly chronic toxicity test was conducted on March 23. Although the effluent toxicity was less than 10 Tu, the reference toxicity test did not meet the Quality Assurance/Quality Control (QA/QC) criteria. Therefore, the test was repeated on April 1, and this test met QA/QC criteria and the effluent toxicity was normal and is reported herein.

CCCSD's NPDES permit does not require analyzing for dissolved sulfide concentration. Consequently, the columns for dissolved sulfide concentration on page 2 of the E-001 report are left blank.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

BSDhaliwal

Bhupinder S. Dhaliwal
Laboratory Superintendent

BSD:msb:dk

Attachments

2009 COMPLIANCE SUMMARY TABLE
CENTRAL CONTRA COSTA NPDES #CA0037648

Parameter	Limit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Monitoring Point E-001														0/0
CarbonaceousBOD Eff Daily Maximum mg/l	Max 50	0/20	0/19	0/22	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/61
CarbonaceousBOD Eff Weekly Average mg/l	Max 40	0/5	0/4	0/4	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/13
CarbonaceousBOD Eff Monthly Average mg/l	Max 25	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
CarbonaceousBOD Eff Monthly Removal %	Min 85	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
Total Suspended Solids Eff Daily Maximum mg/l	Max 60	0/31	0/28	0/31	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/90
Total Suspended Solids Eff Daily Loading kg/d	Max	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Total Suspended Solids Eff Weekly Average mg/l	Max 45	0/5	0/4	0/4	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/13
Total Suspended Solids Eff Monthly Average mg/l	Max 30	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
Total Suspended Solids Eff Monthly Removal %	Min 85	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
Oil and Grease Eff Daily Maximum mg/l	Max 20	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
Oil and Grease Eff Monthly Average mg/l	Max 10	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
pH Eff Cont Minimum unit	Min 6	0/31	0/28	0/31	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/90
pH Eff Cont Maximum unit	Max 9	0/31	0/28	0/31	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/90
Enterococci Eff Monthly Median MPN/100ml	Max 35	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
Chronic Toxicity Eff Daily Maximum TUc	Max 20	0/2	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/2
Chronic Toxicity Eff 3Samp Median TUc	Max 10	0/2	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/2
Test1 Specie Eff 11Samp 90th% %Sur	Min 70	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
Test1 Specie Eff 11Samp MovingMed %Sur	Min 90	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
Copper Eff Daily Maximum ug/l	Max 20	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
Copper Eff Monthly Average ug/l	Max 14	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
Lead Eff Daily Maximum ug/l	Max 8.2	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
Lead Eff Monthly Average ug/l	Max 3.5	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
Mercury Eff Weekly Average ug/l	Max 0.072	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
Mercury Eff Monthly Average ug/l	Max 0.066	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
Mercury Eff Annual Loading kg/year	Max 2.23	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
Cyanide Eff Daily Maximum ug/l	Max 45	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
Cyanide Eff Monthly Average ug/l	Max 20	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
Acrylonitrile Eff Daily Maximum ug/l	Max 13	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1
Acrylonitrile Eff Monthly Average ug/l	Max 6.3	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1
TCDD-TEQ Eff Monthly MovingAvg mg/kg	Max 0.836	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1
Monitoring Point Receiving Water														0/0
Dissolved Oxygen RW1 Daily Minimum mg/l	Min 7	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
Dissolved Oxygen RW2 Daily Minimum mg/l	Min 7	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
Dissolved Oxygen RW3 Daily Minimum mg/l	Min 7	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
Dissolved Oxygen RW4 Daily Minimum mg/l	Min 7	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
Dissolved Oxygen RW5 Daily Minimum mg/l	Min 7	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
Dissolved Oxygen CR1 Daily Minimum mg/l	Min 7	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
DO Saturation RW1 Quarterly Median %	Min 80	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1
DO Saturation RW2 Quarterly Median %	Min 80	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1
DO Saturation RW3 Quarterly Median %	Min 80	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1

2009 COMPLIANCE SUMMARY TABLE
CENTRAL CONTRA COSTA NPDES #CA0037648

Parameter	Limit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
DO Saturation RW4 Quarterly Median %	Min 80	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1
DO Saturation RW5 Quarterly Median %	Min 80	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1
DO Saturation CR1 Quarterly Median %	Min 80	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1
Dissolved Sulfite RW1 Grab Maximum mg/l	Max 0.1	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
Dissolved Sulfite RW2 Grab Maximum mg/l	Max 0.1	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
Dissolved Sulfite RW3 Grab Maximum mg/l	Max 0.1	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
Dissolved Sulfite RW4 Grab Maximum mg/l	Max 0.1	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
Dissolved Sulfite RW5 Grab Maximum mg/l	Max 0.1	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
Dissolved Sulfite CR1 Grab Maximum mg/l	Max 0.1	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
pH RW1 Grab Minimum unit	Min 6.5	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
pH RW1 Grab Maximum unit	Max 8.5	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
pH RW2 Grab Minimum unit	Min 6.5	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
pH RW2 Grab Maximum unit	Max 8.5	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
pH RW3 Grab Minimum unit	Min 6.5	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
pH RW3 Grab Maximum unit	Max 8.5	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
pH RW4 Grab Minimum unit	Min 6.5	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
pH RW4 Grab Maximum unit	Max 8.5	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
pH RW5 Grab Minimum unit	Min 6.5	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
pH RW5 Grab Maximum unit	Max 8.5	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
pH CR1 Grab Maximum unit	Max 8.5	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
Un-ionized Ammonia as N RW1 Daily Maximum mg/l	Max 0.16	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
Un-ionized Ammonia as N RW1 Annual Median mg/l	Max 0.025	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Un-ionized Ammonia as N RW2 Daily Maximum mg/l	Max 0.16	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
Un-ionized Ammonia as N RW2 Annual Median mg/l	Max 0.025	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Un-ionized Ammonia as N RW3 Daily Maximum mg/l	Max 0.16	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
Un-ionized Ammonia as N RW3 Annual Median mg/l	Max 0.025	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Un-ionized Ammonia as N RW4 Daily Maximum mg/l	Max 0.16	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
Un-ionized Ammonia as N RW4 Annual Median mg/l	Max 0.025	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Un-ionized Ammonia as N RW5 Daily Maximum mg/l	Max 0.16	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
Un-ionized Ammonia as N RW5 Annual Median mg/l	Max 0.025	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Un-ionized Ammonia as N CR1 Daily Maximum mg/l	Max 0.16	0/1	0/1	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/3
Un-ionized Ammonia as N CR3 Annual Median mg/l	Max 0.025	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0

Central Contra Costa March 2009 E-001

Day	Daily Minimum Eff Flow mgd NA	Daily Maximum Eff Flow mgd NA	Daily Average Eff Flow mgd NA	Monthly Total Eff Flow Mgal NA	Monthly Average Eff Flow mgd NA	Daily Maximum Inf CBOD mg/l NA	Daily Loading Inf CBOD kg/d NA	Monthly Average Inf CBOD mg/l NA	Daily Maximum Eff CBOD mg/l Max 50	Daily Loading Eff CBOD kg/d NA	Daily Removal Eff CBOD % NA	Weekly Average Eff CBOD mg/l Max 40	Monthly Average Eff CBOD mg/l Max 25	Monthly Removal Eff CBOD % Min 85	Daily Maximum Inf TSS mg/l NA
01	23.6	67.7	47												194
02	33.4	97.4	64.9			154			8	8	94.8				180
03	45.7	83.2	70			106			6	6	94.3				168
04	53.9	82.2	74			88			4	4	95.5				115
05	53	91.5	70.1			84			5	5	94				118
06	35.1	75.8	59.2			93			6	6	93.5				122
07	36.2	72.1	54.7									5.8			144
08	33.5	70.6	53.6												166
09	31.7	58.3	50			302			5	5	98.3				168
10	29.3	57	48.1			144			6	6	95.8				179
11	27.8	55.1	46.7			155			4	4	97.4				231
12	26.9	55.1	45.5			149			8	8	94.6				210
13	26.1	55.9	44.7			149			7	7	95.3				211
14	25.2	58.4	44.8									6			181
15	23.8	58.4	43.7												217
16	24.6	52.5	43.8			170			5	5	97.1				207
17	0	51.8	40.6			182			4	4	97.8				209
18	23.9	52	41.8			184			5	5	97.3				213
19	23.7	56.1	43.1			170			6	6	96.5				229
20	25.7	56.2	43			159			5	5	96.9				227
21	25.4	60.6	42									5			196
22	22.3	75.1	45												224
23	21.5	52.9	39.3			160			7	7	95.6				197
24	20.4	46.7	41.9			164			6	6	96.3				203
25	22.4	52.6	41.9			135			5	5	96.3				215
26	24.7	56.2	41			190			6	6	96.8				219
27	22.6	50	40.7			195			6	6	96.9				243
28	21.4	63.2	41									6			196
29	20.2	60.5	38.8												238
30	19	45.7	36.5			199			9	9	95.5				211
31	20.4	45.9	38.2	1475.6	47.6	147		158.14	9	9	93.9		6	96	198
Min	0	45.7	36.5	1475.6	47.6	84		158.14	4	4	93.5	5	6	96	115
Max	53.9	97.4	74	1475.6	47.6	302		158.14	9	9	98.3	6	6	96	243
Avg	27.2065	61.829	47.6	1475.6	47.6	158.1364		158.14	6	6	95.9273	5.7	6	96	194.4839

Approved: BS Dhalla

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Central Contra Costa March 2009 E-001

Day	Daily Loading Inf TSS kg/d NA	Monthly Average Inf TSS mg/l NA	Daily Maximum Eff TSS mg/l Max 60	Daily Loading Eff TSS kg/d Max	Daily Removal Eff TSS % NA	Weekly Average Eff TSS mg/l Max 45	Monthly Average Eff TSS mg/l Max 30	Monthly Removal Eff TSS % Min 85	<	Daily Maximum Eff O&G mg/l Max 20	<	Monthly Average Eff O&G mg/l Max 10	Daily Minimum Eff DO mg/l NA	<	Grab Maximum Eff DissS mg/l NA	Monthly Average Eff DissS mg/l NA
01			12		93.8								5.69			
02			12		93.3								5.11			
03			9		94.6					4.4			5.92			
04			10		91.3								6.76			
05			6		94.9								6.19			
06			6		95.1								6.06			
07			6		95.8	8.71							6.03			
08			5		97								6.78			
09			5		97								5.75			
10			5		97.2								5.68			
11			5		97.8								6.48			
12			4		98.1								6.1			
13			4		98.1								5.88			
14			6		96.7	4.86							5.8			
15			6		97.2								5.85			
16			7		96.6								5.86			
17			6		97.1								5.82			
18			6		97.2								5.95			
19			6		97.4								5.92			
20			6		97.4								5.61			
21			9		95.4	6.57							6.11			
22			9		96								5.98			
23			9		95.4								6.33			
24			5		97.5								6.5			
25			6		97.2								6.13			
26			7		96.8								6.16			
27			9		96.3								6.12			
28			16		91.8	8.71							6.05			
29			16		93.3								5.77			
30			15		92.9								6.4			
31		194.48	15		92.4		8	96				4.4	6.24			
Min		194.48	4		91.3	4.86	8	96		4.4		4.4	5.11			
Max		194.48	16		98.1	8.71	8	96		4.4		4.4	6.78			
Avg		194.48	8		95.7613	7.2125	8	96		4.4		4.4	6.0332			

Approved: BSDahl

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Central Contra Costa March 2009 E-001

Day	Cont Minimum Eff pH unit Min 6	Cont Maximum Eff pH unit Max 9	Grab Maximum Eff Temp C NA	Daily Maximum Eff NH3 mg/l NA	Monthly Average Eff NH3 mg/l NA	<	Daily Maximum Eff Enterococci MPN/100 ml	Monthly Median Eff Enterococci MPN/100 ml	<	Daily Maximum Eff ChronicTox TUc Max 20	<	3Samp Median Eff ChronicTox TUc Max 10	96-hour -- Eff Test1 S-index NA	Daily Minimum Eff Test1 Specie %Sur NA	11Samp 90th% Eff Test1 Specie %Sur Min 70	11Samp MovingMed Eff Test1 Specie %Sur	<
01	7.48	7.48	19.8	21.3													
02	7.49	7.49	18.5	21			12										
03	7.47	7.47	17.6	15.4			13										
04	7.49	7.49	17.4	13.4			51										
05	7.51	7.51	18.4	12.3			30										
06	7.54	7.54	18.5	13.4			16										
07	7.55	7.55	19.5	15.2													
08	7.61	7.61	19.1	18.5													
09	7.51	7.51	19.1	17.9			6										
10	7.52	7.52	18.7	19.9			2							100	96	99	
11	7.6	7.6	19.1	21			2										
12	7.51	7.51	19.4	22.7			4										
13	7.52	7.52	19.6	22.1			3										
14	7.61	7.61	19.4	22.1													
15	7.56	7.56	19.8	22													
16	7.49	7.49	19.6	21.8			4										
17	7.55	7.55	20.2	21.3			8										
18	7.52	7.52	20.3	22.7			7										
19	7.52	7.52	20.3	24.1													
20	7.53	7.53	20.2	25.2			11										
21	7.54	7.54	19.8	22.4			7										
22	7.49	7.49	20.2	24.9													
23	7.51	7.51	19.4	22.7			7										
24	7.54	7.54	18.6	21.5			3										
25	7.5	7.5	19.4	21.3			5										
26	7.53	7.53	19.6	23.7			6										
27	7.48	7.48	20.2	21.8			5										
28	7.48	7.48	20.8	23.9													
29	7.46	7.46	21.3	24.1													
30	7.5	7.5	20.1	23.6			2										
31	7.55	7.55	20.4	24.1	20.88		2	6									
Min	7.46	7.46	17.4	12.3	20.88		2	6						100	96	99	
Max	7.61	7.61	21.3	25.2	20.88		51	6						100	96	99	
Avg	7.5213	7.5213	19.4935	20.8806	20.88		9.3636	6						100	96	99	

Approved: BSDhalp

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Central Contra Costa March 2009 E-001

Day	Daily Maximum Eff Cu ug/l Max 20	<	Monthly Average Eff Cu ug/l Max 14	<	Monthly Loading Eff Cu kg/month NA	<	Daily Maximum Eff Pb ug/l Max 8.2	<	Monthly Average Eff Pb ug/l Max 3.5	<	Daily Maximum Eff Hg ug/l NA	<	Daily Loading Eff Hg kg/d NA	<	Weekly Average Eff Hg ug/l Max 0.072	<	Monthly Average Eff Hg ug/l Max 0.066	<	Monthly Loading Eff Hg kg/month NA
01																			
02																			
03	5.99					DNQ	0.42				0.018		0.0048						
04																			
05																			
06																			
07															0.018				
08																			
09																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			
25																			
26																			
27																			
28																			
29																			
30																			
31			5.99		33.51			DNQ	0.42								0.018		0.1007
Min	5.99		5.99		33.51	DNQ	0.42	DNQ	0.42		0.018		0.0048		0.018		0.018		0.1007
Max	5.99		5.99		33.51	DNQ	0.42	DNQ	0.42		0.018		0.0048		0.018		0.018		0.1007
Avg	5.99		5.99		33.51	DNQ	0.42	DNQ	0.42		0.018		0.0048		0.018		0.018		0.1007

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Central Contra Costa March 2009 E-001

Day	<	Monthly MovingAvg Eff Hg kg/month NA	<	Annual Loading Eff Hg kg/year Max 2.23	<	Daily Maximum Eff CN ug/l Max 45	<	Monthly Average Eff CN ug/l Max 20	<	Daily Maximum Eff Acrylonitr ug/l Max 13	<	Monthly Average Eff Acrylonitr ug/l Max 6.3	<	Daily Maximum Eff TCDD-TEQ pg/L NA	<	Monthly Average Eff TCDD-TEQ pg/L NA	<	Monthly Average Eff TCDD-TEQ pg/L	Monthly MovingAvg Eff TCDD-TEQ mg/kg
01																			
02																			
03																			
04																			
05																			
06																			
07																			
08																			
09																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19					DNQ	4.5													
20																			
21																			
22																			
23																			
24																			
25																			
26																			
27																			
28																			
29																			
30																			
31		0.0642		0.7705			DNQ	4.5											
Min		0.0642		0.7705	DNQ	4.5	DNQ	4.5											
Max		0.0642		0.7705	DNQ	4.5	DNQ	4.5											
Avg		0.0642		0.7705	DNQ	4.5	DNQ	4.5											

Approved: BSDonald

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Central Contra Costa March 2009 E-001 (13267 Study) Metals,Cyanide and Solids

Day	<	Daily Maximum Eff TRIBUTYLTIN ug/l NA	<	Daily Maximum Eff Antinomy ug/l NA	<	Daily Maximum Eff As ug/l NA	<	Daily Maximum Eff Beryllium ug/l NA	<	Daily Maximum Eff Cd ug/l NA	<	Daily Maximum Eff Cr ug/l NA	<	Daily Maximum Eff Chrom(III) ug/l NA	<	Daily Maximum Eff Cr6 ug/l NA	<	Daily Maximum Eff Cu ug/l NA	<
01																			
02																			
03		0.002	DNQ	0.32		1.89	ND	0.03	ND	0.02	DNQ	0.41						5.99	DNQ
04																			
05																			
06																			
07																			
08																			
09																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			
25																			
26																			
27																			
28																			
29																			
30																			
31																			
Min		0.002	DNQ	0.32		1.89	ND	0.03	ND	0.02	DNQ	0.41						5.99	DNQ
Max		0.002	DNQ	0.32		1.89	ND	0.03	ND	0.02	DNQ	0.41						5.99	DNQ
Avg		0.002	DNQ	0.32		1.89	ND	0.03	ND	0.02	DNQ	0.41						5.99	DNQ

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Central Contra Costa March 2009 E-001 (13267 Study) Metals,Cyanide and Solids

Day	Daily Maximum Eff Pb ug/l NA	<	Daily Maximum Eff Hg ug/l NA	<	Daily Maximum Eff Ni ug/l NA	<	Daily Maximum Eff Se ug/l NA	<	Daily Maximum Eff Ag ug/l NA	<	Daily Maximum Eff Thallium ug/l NA	<	Daily Maximum Eff Zn ug/l NA	<	Daily Maximum Eff CN ug/l NA	<	Daily Maximum Eff Asbestos fibers/L NA	Daily Maximum Eff Total Solids mg/l NA
01																		
02																		544
03	0.42		0.018		2.65	ND	0.1		0.03	ND	0.01		22.9					
04																		
05																		
06																		
07																		
08																		
09																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19														DNQ	4.5			
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
Min	0.42		0.018		2.65	ND	0.1		0.03	ND	0.01		22.9	DNQ	4.5			544
Max	0.42		0.018		2.65	ND	0.1		0.03	ND	0.01		22.9	DNQ	4.5			544
Avg	0.42		0.018		2.65	ND	0.1		0.03	ND	0.01		22.9	DNQ	4.5			544

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Central Contra Costa March 2009 INF-001

Day	Daily Average Inf Flow mgd NA	Monthly Minimum Inf Flow mgd NA	Monthly Maximum Inf Flow mgd NA	Monthly Total Inf Flow Mgal NA	Monthly Average Inf Flow mgd NA
01	49.7				
02	67.8				
03	80.9				
04	79.5				
05	72.9				
06	61.9				
07	56.1				
08	53.8				
09	49.8				
10	48.5				
11	46.7				
12	45.4				
13	45				
14	45.2				
15	44.3				
16	44.4				
17	40.9				
18	42.6				
19	44				
20	43.1				
21	42.5				
22	45.4				
23	40.8				
24	41.9				
25	43.4				
26	41.7				
27	40.8				
28	41.4				
29	41.2				
30	38.5				
31	39.5	38.5	80.9	1519.6	49.02
Min	38.5	38.5	80.9	1519.6	49.02
Max	80.9	38.5	80.9	1519.6	49.02
Avg	49.0194	38.5	80.9	1519.6	49.02

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Central Contra Costa March 2009 Receiving Water

Day	Daily Maximum RW1 Turb NTU NA	Daily Maximum RW2 Turb NTU NA	Daily Maximum RW3 Turb NTU NA	Daily Maximum RW4 Turb NTU NA	Daily Maximum RW5 Turb NTU NA	Daily Maximum CR1 Turb NTU NA	<	Daily Minimum RW1 DO mg/l Min 7	<	Daily Minimum RW2 DO mg/l Min 7	<	Daily Minimum RW3 DO mg/l Min 7	<	Daily Minimum RW4 DO mg/l Min 7	<	Daily Minimum RW5 DO mg/l Min 7	<	Daily Minimum CR1 DO mg/l Min 7
01																		
02																		
03																		
04																		
05																		
06																		
07																		
08																		
09																		
10																		
11	73	68	73	74	76	70		10		9.2		9.8		9		9.6		9.5
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
Min	73	68	73	74	76	70		10		9.2		9.8		9		9.6		9.5
Max	73	68	73	74	76	70		10		9.2		9.8		9		9.6		9.5
Avg	73	68	73	74	76	70		10		9.2		9.8		9		9.6		9.5

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Central Contra Costa March 2009 Receiving Water

Day	Grab Minimum RW1 DOSat % NA	Quarter Median RW1 DOSat % Min 80	Grab Minimum RW2 DOSat % NA	Quarter Median RW2 DOSat % Min 80	Grab Minimum RW3 DOSat % NA	Quarter Median RW3 DOSat % Min 80	Grab Minimum RW4 DOSat % NA	Quarter Median RW4 DOSat % Min 80	Grab Minimum RW5 DOSat % NA	Quarter Median RW5 DOSat % Min 80	Grab Minimum CR1 DOSat % NA	Quarter Median CR1 DOSat % Min 80	<	Grab Maximum RW1 DissS mg/l Max 0.1	<	Grab Maximum RW2 DissS mg/l Max 0.1
01																
02																
03																
04																
05																
06																
07																
08																
09																
10																
11	96		89		94		89		93		90		ND	0.1	ND	0.1
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																
25																
26																
27																
28																
29																
30																
31		102		100		102		101		101		103				
Min	96	102	89	100	94	102	89	101	93	101	90	103	ND	0.1	ND	0.1
Max	96	102	89	100	94	102	89	101	93	101	90	103	ND	0.1	ND	0.1
Avg	96	102	89	100	94	102	89	101	93	101	90	103	ND	0.1	ND	0.1

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Central Contra Costa March 2009 Receiving Water

Day	<	Grab Maximum RW3 DissS mg/l Max 0.1	<	Grab Maximum RW4 DissS mg/l Max 0.1	<	Grab Maximum RW5 DissS mg/l Max 0.1	<	Grab Maximum CR1 DissS mg/l Max 0.1	Grab Minimum RW1 pH unit Min 6.5	Grab Maximum RW1 pH unit Max 8.5	Grab Minimum RW2 pH unit Min 6.5	Grab Maximum RW2 pH unit Max 8.5	Grab Minimum RW3 pH unit Min 6.5	Grab Maximum RW3 pH unit Max 8.5	Grab Minimum RW4 pH unit Min 6.5	Grab Maximum RW4 pH unit Max 8.5	Grab Minimum RW5 pH unit Min 6.5
01																	
02																	
03																	
04																	
05																	
06																	
07																	
08																	
09																	
10																	
11	ND	0.1	ND	0.1	ND	0.1	ND	0.1	7.6	7.6	7.6	7.6	7.7	7.7	7.5	7.5	7.6
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	
25																	
26																	
27																	
28																	
29																	
30																	
31																	
Min	ND	0.1	ND	0.1	ND	0.1	ND	0.1	7.6	7.6	7.6	7.6	7.7	7.7	7.5	7.5	7.6
Max	ND	0.1	ND	0.1	ND	0.1	ND	0.1	7.6	7.6	7.6	7.6	7.7	7.7	7.5	7.5	7.6
Avg	ND	0.1	ND	0.1	ND	0.1	ND	0.1	7.6	7.6	7.6	7.6	7.7	7.7	7.5	7.5	7.6

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Central Contra Costa March 2009 Receiving Water

Day	Grab Maximum RW5 pH unit Max 8.5	Grab Maximum CR1 pH unit Max 8.5	Grab Maximum RW1 Temp C NA	Grab Maximum RW2 Temp C NA	Grab Maximum RW3 Temp C NA	Grab Maximum RW4 Temp C NA	Grab Maximum RW5 Temp C NA	Grab Maximum CR1 Temp C NA	Instant -- RW1 Hardness mg/l NA	Instant -- RW2 Hardness mg/l NA	Instant -- RW3 Hardness mg/l NA	Instant -- RW4 Hardness mg/l NA	Instant -- RW5 Hardness mg/l NA	Instant -- CR1 Hardness mg/l NA	Grab Observ RW1 Salinity ppt NA
01															
02															
03															
04															
05															
06															
07															
08															
09															
10															
11	7.6	7.7	12	11.9	11.9	10	12.1	11.9	90	88	90	90	89	92	0.2
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															
25															
26															
27															
28															
29															
30															
31															
Min	7.6	7.7	12	11.9	11.9	10	12.1	11.9	90	88	90	90	89	92	0.2
Max	7.6	7.7	12	11.9	11.9	10	12.1	11.9	90	88	90	90	89	92	0.2
Avg	7.6	7.7	12	11.9	11.9	10	12.1	11.9	90	88	90	90	89	92	0.2

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Central Contra Costa March 2009 Receiving Water

Day	Grab Observ RW2 Salinity ppt NA	Grab Observ RW3 Salinity ppt NA	Grab Observ RW4 Salinity ppt NA	Grab Observ RW5 Salinity ppt NA	Grab Observ CR1 Salinity ppt NA	Instant Observ RW1 Conduct umho/cm NA	Instant Observ RW2 Conduct umho/cm NA	Instant Observ RW3 Conduct umho/cm NA	Instant Observ RW4 Conduct umho/cm NA	Instant Observ RW5 Conduct umho/cm NA	Instant Observ CR1 Conduct umho/cm NA	Instant Observ RW1 Odor NA	Instant Observ RW2 Odor NA	Instant Observ RW3 Odor NA	Instant Observ RW4 Odor NA
01															
02															
03															
04															
05															
06															
07															
08															
09															
10															
11	0.2	0.2	0.2	0.2	0.2	431	469	453	439	434	434	0	0	0	0
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															
25															
26															
27															
28															
29															
30															
31															
Min	0.2	0.2	0.2	0.2	0.2	431	469	453	439	434	434	0	0	0	0
Max	0.2	0.2	0.2	0.2	0.2	431	469	453	439	434	434	0	0	0	0
Avg	0.2	0.2	0.2	0.2	0.2	431	469	453	439	434	434	0	0	0	0

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Central Contra Costa March 2009 Receiving Water

Day	Instant Observ RW5 Odor	Instant Observ CR1 Odor	Instant Observ RW1 Float	Instant Observ RW2 Float	Instant Observ RW3 Float	Instant Observ RW4 Float	Instant Observ RW5 Float	Instant Observ CR1 Float	Instant Observ RW1 Oil	Instant Observ RW2 Oil	Instant Observ RW3 Oil	Instant Observ RW4 Oil	Instant Observ RW5 Oil	Instant Observ CR1 Oil	Instant Observ RW1 Suspend
	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
01															
02															
03															
04															
05															
06															
07															
08															
09															
10															
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															
25															
26															
27															
28															
29															
30															
31															
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Central Contra Costa March 2009 Receiving Water

Day	Instant Observ RW2 Suspend	Instant Observ RW3 Suspend	Instant Observ RW4 Suspend	Instant Observ RW5 Suspend	Instant Observ CR1 Suspend	<	Daily Maximum RW1 NH3 mg/l	<	Daily Maximum RW2 NH3 mg/l	<	Daily Maximum RW3 NH3 mg/l	<	Daily Maximum RW4 NH3 mg/l	<	Daily Maximum RW5 NH3 mg/l	<	Daily Maximum CR1 NH3 mg/l	<
	NA	NA	NA	NA	NA		NA		NA		NA		NA		NA		NA	
01																		
02																		
03																		
04																		
05																		
06																		
07																		
08																		
09																		
10																		
11	0	0	0	0	0		0.22		0.22		0.2		0.28		0.22		0.22	
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
Min	0	0	0	0	0		0.22		0.22		0.2		0.28		0.22		0.22	
Max	0	0	0	0	0		0.22		0.22		0.2		0.28		0.22		0.22	
Avg	0	0	0	0	0		0.22		0.22		0.2		0.28		0.22		0.22	

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Central Contra Costa March 2009 Receiving Water

Day	Daily Maximum RW1 Un-ionNH 3 mg/l Max 0.16	<	Annual Median RW1 Un-ionNH 3 mg/l Max 0.025	<	Daily Maximum RW2 Un-ionNH 3 mg/l Max 0.16	<	Annual Median RW2 Un-ionNH 3 mg/l Max 0.025	<	Daily Maximum RW3 Un-ionNH 3 mg/l Max 0.16	<	Annual Median RW3 Un-ionNH 3 mg/l Max 0.025	<	Daily Maximum RW4 Un-ionNH 3 mg/l Max 0.16	<	Annual Median RW4 Un-ionNH 3 mg/l Max 0.025	<	Daily Maximum RW5 Un-ionNH 3 mg/l Max 0.16	<	Annual Median RW5 Un-ionNH 3 mg/l Max 0.025
01																			
02																			
03																			
04																			
05																			
06																			
07																			
08																			
09																			
10																			
11	0.002				0.002				0.002				0.002				0.002		
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			
25																			
26																			
27																			
28																			
29																			
30																			
31																			
Min	0.002				0.002				0.002				0.002				0.002		
Max	0.002				0.002				0.002				0.002				0.002		
Avg	0.002				0.002				0.002				0.002				0.002		

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Central Contra Costa March 2009 Receiving Water

Day	<	Daily Maximum CR1 Un-ionNH 3 mg/l Max 0.16	<	Annual Median CR3 Un-ionNH 3 mg/l Max 0.025	<	Daily Maximum RW1 FecalColi MPN/100 ml NA	<	Daily Maximum RW2 FecalColi MPN/100 ml NA	<	Daily Maximum RW3 FecalColi MPN/100 ml NA	<	Daily Maximum RW4 FecalColi MPN/100 ml NA	<	Daily Maximum RW5 FecalColi MPN/100 ml NA	<	Daily Maximum CR1 FecalColi MPN/100 ml NA	<	Daily Maximum RW1 TotalColi mpn/100 ml NA	<
01																			
02																			
03																			
04																			
05																			
06																			
07																			
08																			
09																			
10																			
11		0.002				40		20		130		40		20		40		70	
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			
25																			
26																			
27																			
28																			
29																			
30																			
31																			
Min		0.002				40		20		130		40		20		40		70	
Max		0.002				40		20		130		40		20		40		70	
Avg		0.002				40		20		130		40		20		40		70	

Approved: BS Drahn

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Central Contra Costa March 2009 Receiving Water

Day	Daily Maximum RW2 TotalColi mpn/100 ml NA	<	Daily Maximum RW3 TotalColi mpn/100 ml NA	<	Daily Maximum RW4 TotalColi mpn/100 ml NA	<	Daily Maximum RW5 TotalColi mpn/100 ml NA	<	Daily Maximum CR1 TotalColi mpn/100 ml NA	<	Daily Maximum RW1 Enterococci MPN/100 ml	<	Daily Maximum RW2 Enterococci MPN/100 ml	<	Daily Maximum RW3 Enterococci MPN/100 ml	<	Daily Maximum RW4 Enterococci MPN/100 ml	<	Daily Maximum RW5 Enterococci MPN/100 ml
01																			
02																			
03																			
04																			
05																			
06																			
07																			
08																			
09																			
10																			
11	40		80		90		230		230		8		8		20		12		9
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
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24																			
25																			
26																			
27																			
28																			
29																			
30																			
31																			
Min	40		80		90		230		230		8		8		20		12		9
Max	40		80		90		230		230		8		8		20		12		9
Avg	40		80		90		230		230		8		8		20		12		9

Approved: B S Dhahri

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Central Contra Costa March 2009 Receiving Water

Day	<	Daily Maximum CR1 Enterococci MPN/100 ml	<	Grab Maximum RW1 CN ug/l NA	<	Grab Maximum RW2 CN ug/l NA
01						
02						
03						
04						
05						
06						
07						
08						
09						
10						
11		9				
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
Min		9				
Max		9				
Avg		9				

Approved: BS Dhaliwal

CENTRAL CONTRA COSTA SANITARY DISTRICT

EFFLUENT E-001
MASS LOADINGS OF MERCURY

MARCH 2009

	MERCURY	
Month	Monthly Total Kg/Month	Running Annual Average* Kg/Year
April 2008	0.072	--
May 2008	0.062	--
June 2008	0.068	--
July 2008	0.046	--
August 2008	0.040	--
September 2008	0.050	--
October 2008	0.067	--
November 2008	0.074	--
December 2008	0.049	--
January 2009	0.042	--
February 2009	0.080	0.06
March 2009	0.145	0.07

* Trigger level is 2.23 Kg per year running annual average.

CENTRAL CONTRA COSTA SANITARY DISTRICT

EFFLUENT E-001
CHRONIC TOXICITY DATA

MARCH 2009

MONTH	DATE	RED ABALONE TOXICITY	
		$1C_{25\%}$	TU*
February	February 5, 2008	9.7	10.3
April	April 22, 2008	13.5	7.4
June	June 17, 2008	11.0	9.1
September	September 22, 2008	9.5	10.5
October	October 20, 2008	13.5	7.4
November	November 5, 2008	13.3	7.5
January	January 6, 2009 January 20, 2009	8.9 12.0	11.2 8.3
March	April 1, 2009	13.0	7.7
3-Sample Median		12.0	8.3

* Permit requires accelerated monitoring if three-sample median value exceeds 10 TU or if a single sample exceeds 20 TU.

CENTRAL CONTRA COSTA SANITARY DISTRICT

EFFLUENT E-001
MASS LOADINGS OF 2,3,7,8-TCDD EQUIVALENTS

MARCH 2009

	2,3,7,8 – TCDD Equivalent mg/month	
Month	Monthly Total	Running Annual Average**
April 2008	--	0.00
May 2008	--	0.00
June 2008	--	0.00
July 2008	--	0.00
August 2008	0.0	0.00
September 2008	--	0.00
October 2008	--	0.00
November 2008	--	0.00
December 2008	--	0.00
January 2009	--	0.00
February 2009	0.0	0.00
March 2009	--	0.00

** Permit limit is 0.836 mg/month, 12-months, running, annual average. Monitoring frequency is twice per year.

CENTRAL CONTRA COSTA SANITARY DISTRICT

EFFLUENT E-001
ACUTE TOXICITY (FLOW-THROUGH) DATA*

MARCH 2009

MONTH	DATE	FAT-HEAD MINNOW PERCENT SURVIVAL
May 2008	05/06/08	100
June 2008	06/10/08	96.2
July 2008	07/08/08	96.2
August 2008	08/19/08	96.2
September 2008	09/16/08	92.3
October 2008	10/14/08	99.0
November 2008	11/04/08	98.0
December 2008	12/09/08	100
January 2009	01/13/09	100
February 2009	02/17/09	100
March 2009	03/10/09	100
11 Sample Median		99
11 Sample 90th Percentile		96.2

* Permit limit is 11-sample median of not less than 90 percent survival, and an 11-sample 90-percentile value of not less than 70 percent survival.