

**2011 REPORTING SUMMARY NOTES  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**Notes:**

1. For Dioxins and Furans, laboratory results may have been reported in picograms/liter (pg/L). However, the permit limit is stated in micrograms/liter (µg/L). To evaluate permit compliance, the laboratory results have been converted to µg/L, as necessary, to calculate the TCDD TEQ.
2. TCDD TEQs for the purpose of determining permit compliance are the sum of the products of the detected dioxin congener concentration multiplied by that congener's TEF. The resulting compliance TCDD TEQ does not include those congener concentrations that are reported as DNQ, as specified on Page 40 of the NPDES permit.
3. For some sample dates, pH was determined with a field instrument and was noted as such. These results were not validated. Since pH does not have an RL, the possible pH range is shown in the RL column.
4. The NPDES permit limit or benchmark limit for mercury of 0.10 µg/L (Outfalls 001, 002, 011, 018 and 019) and 0.13 µg/L (Outfalls 003-010) are not achievable by the laboratory; therefore, the laboratory reporting limit of 0.20 µg/L was used to determine compliance.
5. All of the following abbreviations and/or notes may not occur on every table.

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-92.9 +/-200	A negative radiochemical analytical result indicates the count rate of the sample was less than the background condition
\$	reported result or other information was incorrectly reported by the laboratory; result was corrected by the data validator
--	based on validation of the data, a qualifier was not required
-/-	no permit limit established for daily maximum or monthly average
<(value)	analyte not detected at a concentration greater than or equal to the DL, MDL, or RL (see laboratory report for specific detail)
*	result not validated
*1	improper preservation of sample
*2	the ICP/MS ppb check standard was recovered above the control limit; therefore, the constituent detected was qualified as estimated (J)
*3	initial and or continuing calibration recoveries were outside acceptable control limits
*5	blank spike/blank spike duplicate relative percent difference was outside the control limit

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*10	value was estimated detect or estimated non detect (J,UJ) due to deficiencies in quantitation of the constituent including constituents reported by the laboratory as Estimated Maximum Possible Concentration (EMPC) values
*11	no calibration was performed for this compound; result is reported as a tentatively identified compound (TIC)
ANR	analysis not required; e.g., constituent or outfall was not required by the permit to be sampled and analyzed (annual, semi-annual, etc.)
B	laboratory method blank contamination
C	calibration %RSD or %D were noncompliant
C5	Calibration verification %R was outside method control limits
%D	percent difference between the initial and continuing calibration relative response factors
deg F	degrees Fahrenheit
DL	detection limit
DNQ	detected but not quantified (constituent value greater than or equal to the laboratory method detection limit and less then the laboratory reporting limit)
E	duplicates show poor agreement
H	holding time was exceeded
I	ICP interference check solution results were unsatisfactory
J	estimated value
K	The sample dilution's set-up did not meet the oxygen depletion criteria of at least 2 mg/l. Therefore, the reported result is an estimated value only.
L2	the laboratory control sample %R was below the method control limits
L	laboratory control sample %R was outside control limits
LOD	limit of detection
M1	matrix spike (MS) and/or MS duplicate were above the acceptance limits due to sample matrix interference
M2	the MS and/or MS duplicate were below the acceptance limits due to sample matrix interference
MDL	method detection limit
MGD	million gallons per day
MHA*	Due to high level of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information.
mg/L	milligrams per liter
ml/L/hr	milliliters per liter per hour
NA	not applicable; no permit limit established for the constituent and/or outfall
ND	analyte value less than the LOD or MDL
NM	not measured or determined
NTU	nephelometric turbidity unit
pCi/L	picocuries per liter

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pg/L	picograms per liter
Q	matrix spike recovery outside of control limits
R	as a validation qualifier, results are rejected; the presence or absence of analyte cannot be verified
R	(reason code in parentheses) %R for calibration not within control limits
RL	laboratory reporting limit
RL-1	reporting limit raised due to sample matrix effects
%RSD	percent relative standard deviation
S	surrogate recovery was outside control limits
TEQ	toxic equivalent
T	presumed contamination, as indicated by a detect in the trip blank
TU <sub>c</sub>	toxicity units (chronic)
U	result not detected
µg/L	micrograms per liter
UJ	result not detected at the estimated reporting limit
umhos/cm	micromhos per centimeter
WHO TEF	World Health Organization toxic equivalency factor
^	analysis not completed due to hold time exceedence or insufficient sample volume

SECTION 1

OUTFALL 001 (SOUTH SLOPE BELOW PERIMETER POND)  
ANNUAL 2011 REPORTING SUMMARY

**OUTFALL 001 (South Slope below Perimeter Pond)**

**ANNUAL 2011 REPORTING SUMMARY  
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NPDES PERMIT CA0001309**

January 1 through December 31, 2011

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	03/20/2011-03/21/2011		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Ammonia as Nitrogen (N)	mg/L	10.1/-	Comp	ND < 0.500	*
Biochemical Oxygen Demand (BOD 5 day)	mg/L	30/-	Comp	2.0	*
Chloride	mg/L	150/-	Comp	3.2	*
Dissolved Oxygen	mg/L	-/-	Grab	10.38	*
E. Coli	MPN/100 ml	-/-	Grab	240	*
Fecal Coliform	MPN/100 ml	-/-	Grab	240	*
Specific Conductivity (Lab)	umhos/cm	-/-	Grab	110	--
Surfactants (MBAS)	mg/L	0.5/-	Comp	ND < 0.050	*
Fluoride	mg/L	1.6/-	Comp	0.22	*
Nitrate + Nitrite as Nitrogen (N)	mg/L	8/-	Comp	0.45	*
Nitrate as Nitrogen (N)	mg/L	8/-	Comp	0.45	*
Nitrite-N	mg/L	1/-	Comp	ND < 0.090	*
Oil & Grease	mg/L	15/-	Grab	ND < 1.3	*
Perchlorate	ug/L	6.0/-	Comp	ND < 0.90	U
pH (Field)	pH units	6.5-8.5/-	Grab	7.7	*
Total Settleable Solids	ml/L	0.3/-	Grab	0.10	*
Sulfate	mg/L	300/-	Comp	4.2	*
Temperature	deg. F	86/-	Grab	48	*
Total Cyanide	ug/L	8.5/-	Comp	ND < 2.2	*
Total Dissolved Solids	mg/L	950/-	Comp	110	*
Hardness	mg/L	-/-	Comp	40	--
Hardness, dissolved	mg/L	-/-	Comp	30	--
Total Organic Carbon	mg/L	-/-	Comp	11	--
Total Residual Chlorine (Field)	mg/L	0.1/-	Grab	0.0	*
Total Suspended Solids	mg/L	45/-	Comp	57	--
Turbidity	NTU	-/-	Comp	140	--
Volume Discharged	MGD	160/-	Meas	5.820685	*
<b>METALS</b>					
Antimony	ug/L	6.0/-	Comp	0.45	J* (DNQ)
Antimony, dissolved	ug/L	-/-	Comp	0.32	J* (DNQ)
Arsenic	ug/L	10/-	Comp	ND < 10	U (B)
Arsenic, dissolved	ug/L	-/-	Comp	ND < 7.0	U
Barium	mg/L	1.0/-	Comp	0.043	--
Barium, dissolved	mg/L	-/-	Comp	0.019	--
Beryllium	ug/L	4.0/-	Comp	ND < 0.90	U
Beryllium, dissolved	ug/L	-/-	Comp	ND < 0.90	U
Boron	mg/L	-/-	Comp	0.048	J (DNQ)
Boron, dissolved	mg/L	-/-	Comp	0.052	--
Cadmium	ug/L	(4.0) 3.1/-	Comp	0.10	J* (DNQ)
Cadmium, dissolved	ug/L	-/-	Comp	ND < 0.10	*
Calcium	mg/L	-/-	Comp	9.6	--
Calcium, Dissolved	mg/L	-/-	Comp	8.5	--
Chromium	ug/L	16/-	Comp	8.3	--
Chromium, dissolved	ug/L	-/-	Comp	2.3	J (DNQ)
Chromium VI	ug/L	16/-	Comp	ND < 0.250	H3*

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling event is a dry discharge.

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ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	03/20/2011-03/21/2011		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Cobalt	ug/L	-/-	Comp	2.7	J (DNQ)
Cobalt, dissolved	ug/L	-/-	Comp	ND < 2.0	U
Copper	ug/L	14/-	Comp	5.31	*
Copper, dissolved	ug/L	-/-	Comp	2.20	*
Iron	mg/L	0.3/-	Comp	5.7	--
Iron, dissolved	mg/L	-/-	Comp	0.088	--
Lead	ug/L	5.2/-	Comp	4.1	*
Lead, dissolved	ug/L	-/-	Comp	0.29	J* (DNQ)
Magnesium	mg/L	-/-	Comp	3.9	--
Magnesium, Dissolved	mg/L	-/-	Comp	2.2	--
Manganese	ug/L	50/-	Comp	81	--
Manganese, dissolved	ug/L	-/-	Comp	ND < 7.0	U
Mercury	ug/L	0.10/-	Comp	ND < 0.10	U
Mercury, dissolved	ug/L	-/-	Comp	ND < 0.10	U
Nickel	ug/L	96/-	Comp	6.5	J (DNQ)
Nickel, dissolved	ug/L	-/-	Comp	2.5	J (DNQ)
Selenium	ug/L	(5) 8.2/-	Comp	ND < 0.50	*
Selenium, dissolved	ug/L	-/-	Comp	ND < 0.50	*
Silver	ug/L	4.1/-	Comp	ND < 0.10	*
Silver, dissolved	ug/L	-/-	Comp	ND < 0.10	*
Thallium	ug/L	2.0/-	Comp	ND < 0.20	*
Thallium, dissolved	ug/L	-/-	Comp	ND < 0.20	*
Vanadium	ug/L	-/-	Comp	12	--
Vanadium, dissolved	ug/L	-/-	Comp	ND < 3.0	U
Zinc	ug/L	119/-	Comp	27.0	--
Zinc, Dissolved	ug/L	-/-	Comp	ND < 6.00	U
<b>ORGANICS</b>					
Benzene	ug/L	-/-	Grab	ND < 0.28	*
Carbon Tetrachloride	ug/L	-/-	Grab	ND < 0.28	*
Chloroform	ug/L	-/-	Grab	ND < 0.33	*
1,1-Dichloroethane	ug/L	-/-	Grab	ND < 0.40	*
1,2-Dichloroethane	ug/L	0.5/-	Grab	ND < 0.28	*
1,1-Dichloroethene	ug/L	6.0/-	Grab	ND < 0.42	*
1,4-Dioxane	ug/L	-/-	Comp	ND < 1.0	*
Ethylbenzene	ug/L	-/-	Grab	ND < 0.25	*
Tetrachloroethene	ug/L	-/-	Grab	ND < 0.32	*
Toluene	ug/L	-/-	Grab	ND < 0.36	*
Xylenes (Total)	ug/L	-/-	Grab	ND < 0.90	*
1,1,1-Trichloroethane	ug/L	-/-	Grab	ND < 0.30	*
1,1,2-Trichloroethane	ug/L	-/-	Grab	ND < 0.30	*
Trichloroethene	ug/L	5.0/-	Grab	ND < 0.26	*
Trichlorofluoromethane	ug/L	-/-	Grab	ND < 0.34	*
Trichlorotrifluoroethane (Freon 113)	ug/L	-/-	Grab	ND < 0.50	*
Vinyl Chloride	ug/L	-/-	Grab	ND < 0.40	*
<b>TPH</b>					
DRO (C13 - C28)	mg/L	-/-	Grab	ND < 0.094	*

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling event is a dry discharge.

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ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	03/20/2011-03/21/2011		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
GRO (C4 - C12)	mg/L	-/-	Grab	ND < 0.025	*
<b>ADDITIONAL ANALYTES</b>					
1,2-Dichloro-1,1,2-trifluoroethane	ug/L	-/-	Grab	ND < 1.1	*
1,1,2,2-Tetrachloroethane	ug/L	-/-	Grab	ND < 0.30	*
1,2,4-Trichlorobenzene	ug/L	-/-	Comp	ND < 0.0943	U
1,2-Dichlorobenzene	ug/L	-/-	Comp	ND < 0.0943	U
1,2-Dichlorobenzene	ug/L	-/-	Grab	ND < 0.32	*
1,2-Dichloropropane	ug/L	-/-	Grab	ND < 0.35	*
1,2-Diphenylhydrazine/Azobenzene	ug/L	-/-	Comp	ND < 0.0943	UJ (C)
1,3-Dichlorobenzene	ug/L	-/-	Grab	ND < 0.35	*
1,3-Dichlorobenzene	ug/L	-/-	Comp	ND < 0.0943	U
1,4-Dichlorobenzene	ug/L	-/-	Grab	ND < 0.37	*
1,4-Dichlorobenzene	ug/L	-/-	Comp	ND < 0.189	U
2,4,6-Trichlorophenol	ug/L	13/-	Comp	ND < 0.0943	U
2,4-Dichlorophenol	ug/L	-/-	Comp	ND < 0.189	U
2,4-Dimethylphenol	ug/L	-/-	Comp	ND < 0.283	U
2,4-Dinitrophenol	ug/L	-/-	Comp	ND < 0.849	U
2,4-Dinitrotoluene	ug/L	18/-	Comp	ND < 0.189	U
2,6-Dinitrotoluene	ug/L	-/-	Comp	ND < 0.0943	U
2-Chloroethylvinylether	ug/L	-/-	Grab	ND < 1.8	*
2-Chloronaphthalene	ug/L	-/-	Comp	ND < 0.0943	U
2-Chlorophenol	ug/L	-/-	Comp	ND < 0.189	U
2-Methyl-4,6-dinitrophenol	ug/L	-/-	Comp	ND < 0.189	U
2-Nitrophenol	ug/L	-/-	Comp	ND < 0.0943	U
3,3'-Dichlorobenzidine	ug/L	-/-	Comp	ND < 4.72	U
4,4'-DDD	ug/L	-/-	Comp	ND < 0.0038	C*
4,4'-DDE	ug/L	-/-	Comp	ND < 0.0028	C*
4,4'-DDT	ug/L	-/-	Comp	ND < 0.0038	*
4-Bromophenylphenylether	ug/L	-/-	Comp	ND < 0.0943	U
4-Chloro-3-methylphenol	ug/L	-/-	Comp	ND < 0.189	U
4-Chlorophenylphenylether	ug/L	-/-	Comp	ND < 0.0943	U
4-Nitrophenol	ug/L	-/-	Comp	ND < 2.36	U
Acenaphthene	ug/L	-/-	Comp	ND < 0.0943	U
Acenaphthylene	ug/L	-/-	Comp	ND < 0.0943	U
Acrolein	ug/L	-/-	Grab	ND < 4.0	*
Acrylonitrile	ug/L	-/-	Grab	ND < 1.2	*
Acute Toxicity	% SURVIVAL	70-100/-	Comp	100	*
Aldrin	ug/L	-/-	Comp	ND < 0.0014	C*
alpha-BHC	ug/L	0.03/-	Comp	ND < 0.0024	C*
Anthracene	ug/L	-/-	Comp	ND < 0.0943	U
Aroclor-1016	ug/L	-/-	Comp	ND < 0.24	*
Aroclor-1221	ug/L	-/-	Comp	ND < 0.24	*
Aroclor-1232	ug/L	-/-	Comp	ND < 0.24	*
Aroclor-1242	ug/L	-/-	Comp	ND < 0.24	*
Aroclor-1248	ug/L	-/-	Comp	ND < 0.24	*
Aroclor-1254	ug/L	-/-	Comp	ND < 0.24	*

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling event is a dry discharge.

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ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	03/20/2011-03/21/2011		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Aroclor-1260	ug/L	-/-	Comp	ND < 0.24	*
Benzidine	ug/L	-/-	Comp	ND < 4.72	R (L)
Benzo(a)anthracene	ug/L	-/-	Comp	ND < 0.0943	U
Benzo(a)pyrene	ug/L	-/-	Comp	ND < 0.0943	U
Benzo(b)fluoranthene	ug/L	-/-	Comp	ND < 0.0943	U
Benzo(g,h,i)perylene	ug/L	-/-	Comp	ND < 0.0943	U
Benzo(k)fluoranthene	ug/L	-/-	Comp	ND < 0.0943	U
beta-BHC	ug/L	-/-	Comp	ND < 0.0038	*
bis (2-Chloroethyl) ether	ug/L	-/-	Comp	ND < 0.0943	U
bis (2-ethylhexyl) Phthalate	ug/L	4.0/-	Comp	ND < 1.60	U
bis(2-Chloroethoxy) methane	ug/L	-/-	Comp	ND < 0.0943	U
bis(2-Chloroisopropyl) ether	ug/L	-/-	Comp	ND < 0.0943	U
Bromodichloromethane	ug/L	-/-	Grab	ND < 0.30	*
Bromoform	ug/L	-/-	Grab	ND < 0.40	*
Bromomethane	ug/L	-/-	Grab	ND < 0.42	*
Butylbenzylphthalate	ug/L	-/-	Comp	ND < 4.72	U (B)
Chlordane	ug/L	-/-	Comp	ND < 0.075	*
Chlorobenzene	ug/L	-/-	Grab	ND < 0.36	*
Chloroethane	ug/L	-/-	Grab	ND < 0.40	*
Chloromethane	ug/L	-/-	Grab	ND < 0.40	*
Chronic Toxicity	TUC	1.0/-	ANR	ANR	ANR
Chrysene	ug/L	-/-	Comp	ND < 0.0943	U
cis-1,2-Dichloroethene	ug/L	-/-	Grab	ND < 0.32	*
cis-1,3-Dichloropropene	ug/L	-/-	Grab	ND < 0.22	*
Cyclohexane	ug/L	-/-	Grab	ND < 0.40	*
delta-BHC	ug/L	-/-	Comp	ND < 0.0033	C*
Dibenzo(a,h)anthracene	ug/L	-/-	Comp	ND < 0.0943	U
Dibromochloromethane	ug/L	-/-	Grab	ND < 0.40	*
Dieldrin	ug/L	-/-	Comp	ND < 0.0019	C*
Diethylphthalate	ug/L	-/-	Comp	0.226	J (DNQ)
Dimethylphthalate	ug/L	-/-	Comp	ND < 0.0943	U
Di-n-butylphthalate	ug/L	-/-	Comp	0.396	J (DNQ)
Di-n-octylphthalate	ug/L	-/-	Comp	ND < 0.0943	U
Endosulfan I	ug/L	-/-	Comp	ND < 0.0019	*
Endosulfan II	ug/L	-/-	Comp	ND < 0.0028	*
Endosulfan sulfate	ug/L	-/-	Comp	ND < 0.0028	C*
Endrin	ug/L	-/-	Comp	ND < 0.0019	C*
Endrin aldehyde	ug/L	-/-	Comp	ND < 0.0019	*
Fluoranthene	ug/L	-/-	Comp	ND < 0.0943	U
Fluorene	ug/L	-/-	Comp	ND < 0.0943	U
Heptachlor	ug/L	-/-	Comp	ND < 0.0028	C*
Heptachlor epoxide	ug/L	-/-	Comp	ND < 0.0024	*
Hexachlorobenzene	ug/L	-/-	Comp	ND < 0.0943	U
Hexachlorobutadiene	ug/L	-/-	Comp	ND < 0.189	U
Hexachlorocyclopentadiene	ug/L	-/-	Comp	ND < 0.0943	UJ (C)
Hexachloroethane	ug/L	-/-	Comp	ND < 0.189	U

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling event is a dry discharge.



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ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	03/20/2011-03/21/2011		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Hydrazine	ug/L	-/-	Comp	ND < 0.439	U
Unsymmetrical Dimethyl Hydrazine	ug/L	-/-	Comp	ND < 1.13	U
Indeno(1,2,3-cd)pyrene	ug/L	-/-	Comp	ND < 0.0943	U
Isophorone	ug/L	-/-	Comp	ND < 0.0943	U
Lindane (gamma-BHC)	ug/L	-/-	Comp	ND < 0.0028	C*
Methylene Chloride	ug/L	-/-	Grab	ND < 0.95	*
Monomethyl Hydrazine	ug/L	-/-	Comp	ND < 1.77	U
Naphthalene	ug/L	-/-	Comp	ND < 0.0943	U
Nitrobenzene	ug/L	-/-	Comp	ND < 0.0943	U
n-Nitrosodimethylamine	ug/L	16/-	Comp	ND < 0.0943	U
n-Nitroso-di-n-propylamine	ug/L	-/-	Comp	ND < 0.0943	U
n-Nitrosodiphenylamine	ug/L	-/-	Comp	ND < 0.0943	U
Pentachlorophenol	ug/L	16.5/-	Comp	ND < 0.0943	U
Phenanthrene	ug/L	-/-	Comp	ND < 0.0943	U
Phenol	ug/L	-/-	Comp	ND < 0.283	U
Pyrene	ug/L	-/-	Comp	ND < 0.0943	U
Toxaphene	ug/L	-/-	Comp	ND < 0.24	*
trans-1,2-Dichloroethene	ug/L	-/-	Grab	ND < 0.30	*
trans-1,3-Dichloropropene	ug/L	-/-	Grab	ND < 0.32	L*

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ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	3/24/2011 <sup>(a)</sup>		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Ammonia as Nitrogen (N)	mg/L	10.1/-	ANR	ANR	ANR
Biochemical Oxygen Demand (BOD 5 day)	mg/L	30/-	ANR	ANR	ANR
Chloride	mg/L	150/-	ANR	ANR	ANR
Dissolved Oxygen	mg/L	-/-	ANR	ANR	ANR
E. Coli	MPN/100 ml	-/-	Grab	80.0	--
Fecal Coliform	MPN/100 ml	-/-	Grab	80.0	--
Specific Conductivity (Lab)	umhos/cm	-/-	ANR	ANR	ANR
Surfactants (MBAS)	mg/L	0.5/-	ANR	ANR	ANR
Fluoride	mg/L	1.6/-	ANR	ANR	ANR
Nitrate + Nitrite as Nitrogen (N)	mg/L	8/-	ANR	ANR	ANR
Nitrate as Nitrogen (N)	mg/L	8/-	ANR	ANR	ANR
Nitrite-N	mg/L	1/-	ANR	ANR	ANR
Oil & Grease	mg/L	15/-	ANR	ANR	ANR
Perchlorate	ug/L	6.0/-	ANR	ANR	ANR
pH (Field)	pH units	6.5-8.5/-	ANR	ANR	ANR
Total Settleable Solids	ml/L	0.3/-	ANR	ANR	ANR
Sulfate	mg/L	300/-	ANR	ANR	ANR
Temperature	deg. F	86/-	ANR	ANR	ANR
Total Cyanide	ug/L	8.5/-	ANR	ANR	ANR
Total Dissolved Solids	mg/L	950/-	ANR	ANR	ANR
Hardness	mg/L	-/-	ANR	ANR	ANR
Hardness, dissolved	mg/L	-/-	ANR	ANR	ANR
Total Organic Carbon	mg/L	-/-	ANR	ANR	ANR
Total Residual Chlorine (Field)	mg/L	0.1/-	ANR	ANR	ANR
Total Suspended Solids	mg/L	45/-	ANR	ANR	ANR
Turbidity	NTU	-/-	ANR	ANR	ANR
Volume Discharged	MGD	160/-	Meas	0.145785	*
<b>METALS</b>					
Antimony	ug/L	6.0/-	ANR	ANR	ANR
Antimony, dissolved	ug/L	-/-	ANR	ANR	ANR
Arsenic	ug/L	10/-	ANR	ANR	ANR
Arsenic, dissolved	ug/L	-/-	ANR	ANR	ANR
Barium	mg/L	1.0/-	ANR	ANR	ANR
Barium, dissolved	mg/L	-/-	ANR	ANR	ANR
Beryllium	ug/L	4.0/-	ANR	ANR	ANR
Beryllium, dissolved	ug/L	-/-	ANR	ANR	ANR
Boron	mg/L	-/-	ANR	ANR	ANR
Boron, dissolved	mg/L	-/-	ANR	ANR	ANR
Cadmium	ug/L	(4.0) 3.1/-	ANR	ANR	ANR
Cadmium, dissolved	ug/L	-/-	ANR	ANR	ANR
Calcium	mg/L	-/-	ANR	ANR	ANR
Calcium, Dissolved	mg/L	-/-	ANR	ANR	ANR
Chromium	ug/L	16/-	ANR	ANR	ANR
Chromium, dissolved	ug/L	-/-	ANR	ANR	ANR
Chromium VI	ug/L	16/-	ANR	ANR	ANR

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling event is a dry discharge.

**OUTFALL 001 (South Slope below Perimeter Pond)**

**ANNUAL 2011 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

January 1 through December 31, 2011

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	3/24/2011 <sup>(a)</sup>		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Cobalt	ug/L	-/-	ANR	ANR	ANR
Cobalt, dissolved	ug/L	-/-	ANR	ANR	ANR
Copper	ug/L	14/-	ANR	ANR	ANR
Copper, dissolved	ug/L	-/-	ANR	ANR	ANR
Iron	mg/L	0.3/-	ANR	ANR	ANR
Iron, dissolved	mg/L	-/-	ANR	ANR	ANR
Lead	ug/L	5.2/-	ANR	ANR	ANR
Lead, dissolved	ug/L	-/-	ANR	ANR	ANR
Magnesium	mg/L	-/-	ANR	ANR	ANR
Magnesium, Dissolved	mg/L	-/-	ANR	ANR	ANR
Manganese	ug/L	50/-	ANR	ANR	ANR
Manganese, dissolved	ug/L	-/-	ANR	ANR	ANR
Mercury	ug/L	0.10/-	ANR	ANR	ANR
Mercury, dissolved	ug/L	-/-	ANR	ANR	ANR
Nickel	ug/L	96/-	ANR	ANR	ANR
Nickel, dissolved	ug/L	-/-	ANR	ANR	ANR
Selenium	ug/L	(5) 8.2/-	ANR	ANR	ANR
Selenium, dissolved	ug/L	-/-	ANR	ANR	ANR
Silver	ug/L	4.1/-	ANR	ANR	ANR
Silver, dissolved	ug/L	-/-	ANR	ANR	ANR
Thallium	ug/L	2.0/-	ANR	ANR	ANR
Thallium, dissolved	ug/L	-/-	ANR	ANR	ANR
Vanadium	ug/L	-/-	ANR	ANR	ANR
Vanadium, dissolved	ug/L	-/-	ANR	ANR	ANR
Zinc	ug/L	119/-	ANR	ANR	ANR
Zinc, Dissolved	ug/L	-/-	ANR	ANR	ANR
<b>ORGANICS</b>					
Benzene	ug/L	-/-	ANR	ANR	ANR
Carbon Tetrachloride	ug/L	-/-	ANR	ANR	ANR
Chloroform	ug/L	-/-	ANR	ANR	ANR
1,1-Dichloroethane	ug/L	-/-	ANR	ANR	ANR
1,2-Dichloroethane	ug/L	0.5/-	ANR	ANR	ANR
1,1-Dichloroethene	ug/L	6.0/-	ANR	ANR	ANR
1,4-Dioxane	ug/L	-/-	ANR	ANR	ANR
Ethylbenzene	ug/L	-/-	ANR	ANR	ANR
Tetrachloroethene	ug/L	-/-	ANR	ANR	ANR
Toluene	ug/L	-/-	ANR	ANR	ANR
Xylenes (Total)	ug/L	-/-	ANR	ANR	ANR
1,1,1-Trichloroethane	ug/L	-/-	ANR	ANR	ANR
1,1,2-Trichloroethane	ug/L	-/-	ANR	ANR	ANR
Trichloroethene	ug/L	5.0/-	ANR	ANR	ANR
Trichlorofluoromethane	ug/L	-/-	ANR	ANR	ANR
Trichlorotrifluoroethane (Freon 113)	ug/L	-/-	ANR	ANR	ANR
Vinyl Chloride	ug/L	-/-	ANR	ANR	ANR
<b>TPH</b>					
DRO (C13 - C28)	mg/L	-/-	ANR	ANR	ANR

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling event is a dry discharge.

**OUTFALL 001 (South Slope below Perimeter Pond)**

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SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

January 1 through December 31, 2011

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	3/24/2011 <sup>(a)</sup>		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
GRO (C4 - C12)	mg/L	-/-	ANR	ANR	ANR
<b>ADDITIONAL ANALYTES</b>					
1,2-Dichloro-1,1,2-trifluoroethane	ug/L	-/-	ANR	ANR	ANR
1,1,2,2-Tetrachloroethane	ug/L	-/-	ANR	ANR	ANR
1,2,4-Trichlorobenzene	ug/L	-/-	ANR	ANR	ANR
1,2-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR
1,2-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR
1,2-Dichloropropane	ug/L	-/-	ANR	ANR	ANR
1,2-Diphenylhydrazine/Azobenzene	ug/L	-/-	ANR	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR
2,4,6-Trichlorophenol	ug/L	13/-	ANR	ANR	ANR
2,4-Dichlorophenol	ug/L	-/-	ANR	ANR	ANR
2,4-Dimethylphenol	ug/L	-/-	ANR	ANR	ANR
2,4-Dinitrophenol	ug/L	-/-	ANR	ANR	ANR
2,4-Dinitrotoluene	ug/L	18/-	ANR	ANR	ANR
2,6-Dinitrotoluene	ug/L	-/-	ANR	ANR	ANR
2-Chloroethylvinylether	ug/L	-/-	ANR	ANR	ANR
2-Chloronaphthalene	ug/L	-/-	ANR	ANR	ANR
2-Chlorophenol	ug/L	-/-	ANR	ANR	ANR
2-Methyl-4,6-dinitrophenol	ug/L	-/-	ANR	ANR	ANR
2-Nitrophenol	ug/L	-/-	ANR	ANR	ANR
3,3'-Dichlorobenzidine	ug/L	-/-	ANR	ANR	ANR
4,4'-DDD	ug/L	-/-	ANR	ANR	ANR
4,4'-DDE	ug/L	-/-	ANR	ANR	ANR
4,4'-DDT	ug/L	-/-	ANR	ANR	ANR
4-Bromophenylphenylether	ug/L	-/-	ANR	ANR	ANR
4-Chloro-3-methylphenol	ug/L	-/-	ANR	ANR	ANR
4-Chlorophenylphenylether	ug/L	-/-	ANR	ANR	ANR
4-Nitrophenol	ug/L	-/-	ANR	ANR	ANR
Acenaphthene	ug/L	-/-	ANR	ANR	ANR
Acenaphthylene	ug/L	-/-	ANR	ANR	ANR
Acrolein	ug/L	-/-	ANR	ANR	ANR
Acrylonitrile	ug/L	-/-	ANR	ANR	ANR
Acute Toxicity	% SURVIVAL	70-100/-	ANR	ANR	ANR
Aldrin	ug/L	-/-	ANR	ANR	ANR
alpha-BHC	ug/L	0.03/-	ANR	ANR	ANR
Anthracene	ug/L	-/-	ANR	ANR	ANR
Aroclor-1016	ug/L	-/-	ANR	ANR	ANR
Aroclor-1221	ug/L	-/-	ANR	ANR	ANR
Aroclor-1232	ug/L	-/-	ANR	ANR	ANR
Aroclor-1242	ug/L	-/-	ANR	ANR	ANR
Aroclor-1248	ug/L	-/-	ANR	ANR	ANR
Aroclor-1254	ug/L	-/-	ANR	ANR	ANR

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling event is a dry discharge.

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ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	3/24/2011 <sup>(a)</sup>		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Aroclor-1260	ug/L	-/-	ANR	ANR	ANR
Benizidine	ug/L	-/-	ANR	ANR	ANR
Benzo(a)anthracene	ug/L	-/-	ANR	ANR	ANR
Benzo(a)pyrene	ug/L	-/-	ANR	ANR	ANR
Benzo(b)fluoranthene	ug/L	-/-	ANR	ANR	ANR
Benzo(g,h,i)perylene	ug/L	-/-	ANR	ANR	ANR
Benzo(k)fluoranthene	ug/L	-/-	ANR	ANR	ANR
beta-BHC	ug/L	-/-	ANR	ANR	ANR
bis (2-Chloroethyl) ether	ug/L	-/-	ANR	ANR	ANR
bis (2-ethylhexyl) Phthalate	ug/L	4.0/-	ANR	ANR	ANR
bis(2-Chloroethoxy) methane	ug/L	-/-	ANR	ANR	ANR
bis(2-Chloroisopropyl) ether	ug/L	-/-	ANR	ANR	ANR
Bromodichloromethane	ug/L	-/-	ANR	ANR	ANR
Bromoform	ug/L	-/-	ANR	ANR	ANR
Bromomethane	ug/L	-/-	ANR	ANR	ANR
Butylbenzylphthalate	ug/L	-/-	ANR	ANR	ANR
Chlordane	ug/L	-/-	ANR	ANR	ANR
Chlorobenzene	ug/L	-/-	ANR	ANR	ANR
Chloroethane	ug/L	-/-	ANR	ANR	ANR
Chloromethane	ug/L	-/-	ANR	ANR	ANR
Chronic Toxicity	TUC	1.0/-	ANR	ANR	ANR
Chrysene	ug/L	-/-	ANR	ANR	ANR
cis-1,2-Dichloroethene	ug/L	-/-	ANR	ANR	ANR
cis-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ANR
Cyclohexane	ug/L	-/-	ANR	ANR	ANR
delta-BHC	ug/L	-/-	ANR	ANR	ANR
Dibenzo(a,h)anthracene	ug/L	-/-	ANR	ANR	ANR
Dibromochloromethane	ug/L	-/-	ANR	ANR	ANR
Dieldrin	ug/L	-/-	ANR	ANR	ANR
Diethylphthalate	ug/L	-/-	ANR	ANR	ANR
Dimethylphthalate	ug/L	-/-	ANR	ANR	ANR
Di-n-butylphthalate	ug/L	-/-	ANR	ANR	ANR
Di-n-octylphthalate	ug/L	-/-	ANR	ANR	ANR
Endosulfan I	ug/L	-/-	ANR	ANR	ANR
Endosulfan II	ug/L	-/-	ANR	ANR	ANR
Endosulfan sulfate	ug/L	-/-	ANR	ANR	ANR
Endrin	ug/L	-/-	ANR	ANR	ANR
Endrin aldehyde	ug/L	-/-	ANR	ANR	ANR
Fluoranthene	ug/L	-/-	ANR	ANR	ANR
Fluorene	ug/L	-/-	ANR	ANR	ANR
Heptachlor	ug/L	-/-	ANR	ANR	ANR
Heptachlor epoxide	ug/L	-/-	ANR	ANR	ANR
Hexachlorobenzene	ug/L	-/-	ANR	ANR	ANR
Hexachlorobutadiene	ug/L	-/-	ANR	ANR	ANR
Hexachlorocyclopentadiene	ug/L	-/-	ANR	ANR	ANR
Hexachloroethane	ug/L	-/-	ANR	ANR	ANR

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling event is a dry discharge.

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ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	3/24/2011 <sup>(a)</sup>		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Hydrazine	ug/L	-/-	ANR	ANR	ANR
Unsymmetrical Dimethyl Hydrazine	ug/L	-/-	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	ug/L	-/-	ANR	ANR	ANR
Isophorone	ug/L	-/-	ANR	ANR	ANR
Lindane (gamma-BHC)	ug/L	-/-	ANR	ANR	ANR
Methylene Chloride	ug/L	-/-	ANR	ANR	ANR
Monomethyl Hydrazine	ug/L	-/-	ANR	ANR	ANR
Naphthalene	ug/L	-/-	ANR	ANR	ANR
Nitrobenzene	ug/L	-/-	ANR	ANR	ANR
n-Nitrosodimethylamine	ug/L	16/-	ANR	ANR	ANR
n-Nitroso-di-n-propylamine	ug/L	-/-	ANR	ANR	ANR
n-Nitrosodiphenylamine	ug/L	-/-	ANR	ANR	ANR
Pentachlorophenol	ug/L	16.5/-	ANR	ANR	ANR
Phenanthrene	ug/L	-/-	ANR	ANR	ANR
Phenol	ug/L	-/-	ANR	ANR	ANR
Pyrene	ug/L	-/-	ANR	ANR	ANR
Toxaphene	ug/L	-/-	ANR	ANR	ANR
trans-1,2-Dichloroethene	ug/L	-/-	ANR	ANR	ANR
trans-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ANR

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling event is a dry discharge.

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SANTA SUSANA FIELD LABORATORY  
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ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	3/29/2011 <sup>(a)</sup>		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Ammonia as Nitrogen (N)	mg/L	10.1/-	ANR	ANR	ANR
Biochemical Oxygen Demand (BOD 5 day)	mg/L	30/-	ANR	ANR	ANR
Chloride	mg/L	150/-	ANR	ANR	ANR
Dissolved Oxygen	mg/L	-/-	ANR	ANR	ANR
E. Coli	MPN/100 ml	-/-	Grab	8.78	--
Fecal Coliform	MPN/100 ml	-/-	Grab	8.78	--
Specific Conductivity (Lab)	umhos/cm	-/-	ANR	ANR	ANR
Surfactants (MBAS)	mg/L	0.5/-	ANR	ANR	ANR
Fluoride	mg/L	1.6/-	ANR	ANR	ANR
Nitrate + Nitrite as Nitrogen (N)	mg/L	8/-	ANR	ANR	ANR
Nitrate as Nitrogen (N)	mg/L	8/-	ANR	ANR	ANR
Nitrite-N	mg/L	1/-	ANR	ANR	ANR
Oil & Grease	mg/L	15/-	ANR	ANR	ANR
Perchlorate	ug/L	6.0/-	ANR	ANR	ANR
pH (Field)	pH units	6.5-8.5/-	ANR	ANR	ANR
Total Settleable Solids	ml/L	0.3/-	ANR	ANR	ANR
Sulfate	mg/L	300/-	ANR	ANR	ANR
Temperature	deg. F	86/-	ANR	ANR	ANR
Total Cyanide	ug/L	8.5/-	ANR	ANR	ANR
Total Dissolved Solids	mg/L	950/-	ANR	ANR	ANR
Hardness	mg/L	-/-	ANR	ANR	ANR
Hardness, dissolved	mg/L	-/-	ANR	ANR	ANR
Total Organic Carbon	mg/L	-/-	ANR	ANR	ANR
Total Residual Chlorine (Field)	mg/L	0.1/-	ANR	ANR	ANR
Total Suspended Solids	mg/L	45/-	ANR	ANR	ANR
Turbidity	NTU	-/-	ANR	ANR	ANR
Volume Discharged	MGD	160/-	Meas	0.095045	*
<b>METALS</b>					
Antimony	ug/L	6.0/-	ANR	ANR	ANR
Antimony, dissolved	ug/L	-/-	ANR	ANR	ANR
Arsenic	ug/L	10/-	ANR	ANR	ANR
Arsenic, dissolved	ug/L	-/-	ANR	ANR	ANR
Barium	mg/L	1.0/-	ANR	ANR	ANR
Barium, dissolved	mg/L	-/-	ANR	ANR	ANR
Beryllium	ug/L	4.0/-	ANR	ANR	ANR
Beryllium, dissolved	ug/L	-/-	ANR	ANR	ANR
Boron	mg/L	-/-	ANR	ANR	ANR
Boron, dissolved	mg/L	-/-	ANR	ANR	ANR
Cadmium	ug/L	(4.0) 3.1/-	ANR	ANR	ANR
Cadmium, dissolved	ug/L	-/-	ANR	ANR	ANR
Calcium	mg/L	-/-	ANR	ANR	ANR
Calcium, Dissolved	mg/L	-/-	ANR	ANR	ANR
Chromium	ug/L	16/-	ANR	ANR	ANR
Chromium, dissolved	ug/L	-/-	ANR	ANR	ANR
Chromium VI	ug/L	16/-	ANR	ANR	ANR

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling event is a dry discharge.

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ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	3/29/2011 <sup>(a)</sup>		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Cobalt	ug/L	-/-	ANR	ANR	ANR
Cobalt, dissolved	ug/L	-/-	ANR	ANR	ANR
Copper	ug/L	14/-	ANR	ANR	ANR
Copper, dissolved	ug/L	-/-	ANR	ANR	ANR
Iron	mg/L	0.3/-	ANR	ANR	ANR
Iron, dissolved	mg/L	-/-	ANR	ANR	ANR
Lead	ug/L	5.2/-	ANR	ANR	ANR
Lead, dissolved	ug/L	-/-	ANR	ANR	ANR
Magnesium	mg/L	-/-	ANR	ANR	ANR
Magnesium, Dissolved	mg/L	-/-	ANR	ANR	ANR
Manganese	ug/L	50/-	ANR	ANR	ANR
Manganese, dissolved	ug/L	-/-	ANR	ANR	ANR
Mercury	ug/L	0.10/-	ANR	ANR	ANR
Mercury, dissolved	ug/L	-/-	ANR	ANR	ANR
Nickel	ug/L	96/-	ANR	ANR	ANR
Nickel, dissolved	ug/L	-/-	ANR	ANR	ANR
Selenium	ug/L	(5) 8.2/-	ANR	ANR	ANR
Selenium, dissolved	ug/L	-/-	ANR	ANR	ANR
Silver	ug/L	4.1/-	ANR	ANR	ANR
Silver, dissolved	ug/L	-/-	ANR	ANR	ANR
Thallium	ug/L	2.0/-	ANR	ANR	ANR
Thallium, dissolved	ug/L	-/-	ANR	ANR	ANR
Vanadium	ug/L	-/-	ANR	ANR	ANR
Vanadium, dissolved	ug/L	-/-	ANR	ANR	ANR
Zinc	ug/L	119/-	ANR	ANR	ANR
Zinc, Dissolved	ug/L	-/-	ANR	ANR	ANR
<b>ORGANICS</b>					
Benzene	ug/L	-/-	ANR	ANR	ANR
Carbon Tetrachloride	ug/L	-/-	ANR	ANR	ANR
Chloroform	ug/L	-/-	ANR	ANR	ANR
1,1-Dichloroethane	ug/L	-/-	ANR	ANR	ANR
1,2-Dichloroethane	ug/L	0.5/-	ANR	ANR	ANR
1,1-Dichloroethene	ug/L	6.0/-	ANR	ANR	ANR
1,4-Dioxane	ug/L	-/-	ANR	ANR	ANR
Ethylbenzene	ug/L	-/-	ANR	ANR	ANR
Tetrachloroethene	ug/L	-/-	ANR	ANR	ANR
Toluene	ug/L	-/-	ANR	ANR	ANR
Xylenes (Total)	ug/L	-/-	ANR	ANR	ANR
1,1,1-Trichloroethane	ug/L	-/-	ANR	ANR	ANR
1,1,2-Trichloroethane	ug/L	-/-	ANR	ANR	ANR
Trichloroethene	ug/L	5.0/-	ANR	ANR	ANR
Trichlorofluoromethane	ug/L	-/-	ANR	ANR	ANR
Trichlorotrifluoroethane (Freon 113)	ug/L	-/-	ANR	ANR	ANR
Vinyl Chloride	ug/L	-/-	ANR	ANR	ANR
<b>TPH</b>					
DRO (C13 - C28)	mg/L	-/-	ANR	ANR	ANR

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling event is a dry discharge.



**OUTFALL 001 (South Slope below Perimeter Pond)**

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ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	3/29/2011 <sup>(a)</sup>		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
GRO (C4 - C12)	mg/L	-/-	ANR	ANR	ANR
<b>ADDITIONAL ANALYTES</b>					
1,2-Dichloro-1,1,2-trifluoroethane	ug/L	-/-	ANR	ANR	ANR
1,1,2,2-Tetrachloroethane	ug/L	-/-	ANR	ANR	ANR
1,2,4-Trichlorobenzene	ug/L	-/-	ANR	ANR	ANR
1,2-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR
1,2-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR
1,2-Dichloropropane	ug/L	-/-	ANR	ANR	ANR
1,2-Diphenylhydrazine/Azobenzene	ug/L	-/-	ANR	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR
2,4,6-Trichlorophenol	ug/L	13/-	ANR	ANR	ANR
2,4-Dichlorophenol	ug/L	-/-	ANR	ANR	ANR
2,4-Dimethylphenol	ug/L	-/-	ANR	ANR	ANR
2,4-Dinitrophenol	ug/L	-/-	ANR	ANR	ANR
2,4-Dinitrotoluene	ug/L	18/-	ANR	ANR	ANR
2,6-Dinitrotoluene	ug/L	-/-	ANR	ANR	ANR
2-Chloroethylvinylether	ug/L	-/-	ANR	ANR	ANR
2-Chloronaphthalene	ug/L	-/-	ANR	ANR	ANR
2-Chlorophenol	ug/L	-/-	ANR	ANR	ANR
2-Methyl-4,6-dinitrophenol	ug/L	-/-	ANR	ANR	ANR
2-Nitrophenol	ug/L	-/-	ANR	ANR	ANR
3,3'-Dichlorobenzidine	ug/L	-/-	ANR	ANR	ANR
4,4'-DDD	ug/L	-/-	ANR	ANR	ANR
4,4'-DDE	ug/L	-/-	ANR	ANR	ANR
4,4'-DDT	ug/L	-/-	ANR	ANR	ANR
4-Bromophenylphenylether	ug/L	-/-	ANR	ANR	ANR
4-Chloro-3-methylphenol	ug/L	-/-	ANR	ANR	ANR
4-Chlorophenylphenylether	ug/L	-/-	ANR	ANR	ANR
4-Nitrophenol	ug/L	-/-	ANR	ANR	ANR
Acenaphthene	ug/L	-/-	ANR	ANR	ANR
Acenaphthylene	ug/L	-/-	ANR	ANR	ANR
Acrolein	ug/L	-/-	ANR	ANR	ANR
Acrylonitrile	ug/L	-/-	ANR	ANR	ANR
Acute Toxicity	% SURVIVAL	70-100/-	ANR	ANR	ANR
Aldrin	ug/L	-/-	ANR	ANR	ANR
alpha-BHC	ug/L	0.03/-	ANR	ANR	ANR
Anthracene	ug/L	-/-	ANR	ANR	ANR
Aroclor-1016	ug/L	-/-	ANR	ANR	ANR
Aroclor-1221	ug/L	-/-	ANR	ANR	ANR
Aroclor-1232	ug/L	-/-	ANR	ANR	ANR
Aroclor-1242	ug/L	-/-	ANR	ANR	ANR
Aroclor-1248	ug/L	-/-	ANR	ANR	ANR
Aroclor-1254	ug/L	-/-	ANR	ANR	ANR

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling event is a dry discharge.

**OUTFALL 001 (South Slope below Perimeter Pond)**

**ANNUAL 2011 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

January 1 through December 31, 2011

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	3/29/2011 <sup>(a)</sup>		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Aroclor-1260	ug/L	-/-	ANR	ANR	ANR
Benidine	ug/L	-/-	ANR	ANR	ANR
Benzo(a)anthracene	ug/L	-/-	ANR	ANR	ANR
Benzo(a)pyrene	ug/L	-/-	ANR	ANR	ANR
Benzo(b)fluoranthene	ug/L	-/-	ANR	ANR	ANR
Benzo(g,h,i)perylene	ug/L	-/-	ANR	ANR	ANR
Benzo(k)fluoranthene	ug/L	-/-	ANR	ANR	ANR
beta-BHC	ug/L	-/-	ANR	ANR	ANR
bis (2-Chloroethyl) ether	ug/L	-/-	ANR	ANR	ANR
bis (2-ethylhexyl) Phthalate	ug/L	4.0/-	ANR	ANR	ANR
bis(2-Chloroethoxy) methane	ug/L	-/-	ANR	ANR	ANR
bis(2-Chloroisopropyl) ether	ug/L	-/-	ANR	ANR	ANR
Bromodichloromethane	ug/L	-/-	ANR	ANR	ANR
Bromoform	ug/L	-/-	ANR	ANR	ANR
Bromomethane	ug/L	-/-	ANR	ANR	ANR
Butylbenzylphthalate	ug/L	-/-	ANR	ANR	ANR
Chlordane	ug/L	-/-	ANR	ANR	ANR
Chlorobenzene	ug/L	-/-	ANR	ANR	ANR
Chloroethane	ug/L	-/-	ANR	ANR	ANR
Chloromethane	ug/L	-/-	ANR	ANR	ANR
Chronic Toxicity	TUC	1.0/-	ANR	ANR	ANR
Chrysene	ug/L	-/-	ANR	ANR	ANR
cis-1,2-Dichloroethene	ug/L	-/-	ANR	ANR	ANR
cis-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ANR
Cyclohexane	ug/L	-/-	ANR	ANR	ANR
delta-BHC	ug/L	-/-	ANR	ANR	ANR
Dibenzo(a,h)anthracene	ug/L	-/-	ANR	ANR	ANR
Dibromochloromethane	ug/L	-/-	ANR	ANR	ANR
Dieldrin	ug/L	-/-	ANR	ANR	ANR
Diethylphthalate	ug/L	-/-	ANR	ANR	ANR
Dimethylphthalate	ug/L	-/-	ANR	ANR	ANR
Di-n-butylphthalate	ug/L	-/-	ANR	ANR	ANR
Di-n-octylphthalate	ug/L	-/-	ANR	ANR	ANR
Endosulfan I	ug/L	-/-	ANR	ANR	ANR
Endosulfan II	ug/L	-/-	ANR	ANR	ANR
Endosulfan sulfate	ug/L	-/-	ANR	ANR	ANR
Endrin	ug/L	-/-	ANR	ANR	ANR
Endrin aldehyde	ug/L	-/-	ANR	ANR	ANR
Fluoranthene	ug/L	-/-	ANR	ANR	ANR
Fluorene	ug/L	-/-	ANR	ANR	ANR
Heptachlor	ug/L	-/-	ANR	ANR	ANR
Heptachlor epoxide	ug/L	-/-	ANR	ANR	ANR
Hexachlorobenzene	ug/L	-/-	ANR	ANR	ANR
Hexachlorobutadiene	ug/L	-/-	ANR	ANR	ANR
Hexachlorocyclopentadiene	ug/L	-/-	ANR	ANR	ANR
Hexachloroethane	ug/L	-/-	ANR	ANR	ANR

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling event is a dry discharge.

**OUTFALL 001 (South Slope below Perimeter Pond)**

**ANNUAL 2011 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

January 1 through December 31, 2011

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	3/29/2011 <sup>(a)</sup>		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Hydrazine	ug/L	-/-	ANR	ANR	ANR
Unsymmetrical Dimethyl Hydrazine	ug/L	-/-	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	ug/L	-/-	ANR	ANR	ANR
Isophorone	ug/L	-/-	ANR	ANR	ANR
Lindane (gamma-BHC)	ug/L	-/-	ANR	ANR	ANR
Methylene Chloride	ug/L	-/-	ANR	ANR	ANR
Monomethyl Hydrazine	ug/L	-/-	ANR	ANR	ANR
Naphthalene	ug/L	-/-	ANR	ANR	ANR
Nitrobenzene	ug/L	-/-	ANR	ANR	ANR
n-Nitrosodimethylamine	ug/L	16/-	ANR	ANR	ANR
n-Nitroso-di-n-propylamine	ug/L	-/-	ANR	ANR	ANR
n-Nitrosodiphenylamine	ug/L	-/-	ANR	ANR	ANR
Pentachlorophenol	ug/L	16.5/-	ANR	ANR	ANR
Phenanthrene	ug/L	-/-	ANR	ANR	ANR
Phenol	ug/L	-/-	ANR	ANR	ANR
Pyrene	ug/L	-/-	ANR	ANR	ANR
Toxaphene	ug/L	-/-	ANR	ANR	ANR
trans-1,2-Dichloroethene	ug/L	-/-	ANR	ANR	ANR
trans-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ANR

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling event is a dry discharge.

**OUTFALL 001 (South Slope below Perimeter Pond)**

**ANNUAL 2011 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
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ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	4/4/2011 <sup>(a)</sup>		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Ammonia as Nitrogen (N)	mg/L	10.1/-	ANR	ANR	ANR
Biochemical Oxygen Demand (BOD 5 day)	mg/L	30/-	ANR	ANR	ANR
Chloride	mg/L	150/-	ANR	ANR	ANR
Dissolved Oxygen	mg/L	-/-	ANR	ANR	ANR
E. Coli	MPN/100 ml	-/-	Grab	30.0	*
Fecal Coliform	MPN/100 ml	-/-	Grab	30.0	*
Specific Conductivity (Lab)	umhos/cm	-/-	ANR	ANR	ANR
Surfactants (MBAS)	mg/L	0.5/-	ANR	ANR	ANR
Fluoride	mg/L	1.6/-	ANR	ANR	ANR
Nitrate + Nitrite as Nitrogen (N)	mg/L	8/-	ANR	ANR	ANR
Nitrate as Nitrogen (N)	mg/L	8/-	ANR	ANR	ANR
Nitrite-N	mg/L	1/-	ANR	ANR	ANR
Oil & Grease	mg/L	15/-	ANR	ANR	ANR
Perchlorate	ug/L	6.0/-	ANR	ANR	ANR
pH (Field)	pH units	6.5-8.5/-	ANR	ANR	ANR
Total Settleable Solids	ml/L	0.3/-	ANR	ANR	ANR
Sulfate	mg/L	300/-	ANR	ANR	ANR
Temperature	deg. F	86/-	ANR	ANR	ANR
Total Cyanide	ug/L	8.5/-	ANR	ANR	ANR
Total Dissolved Solids	mg/L	950/-	ANR	ANR	ANR
Hardness	mg/L	-/-	ANR	ANR	ANR
Hardness, dissolved	mg/L	-/-	ANR	ANR	ANR
Total Organic Carbon	mg/L	-/-	ANR	ANR	ANR
Total Residual Chlorine (Field)	mg/L	0.1/-	ANR	ANR	ANR
Total Suspended Solids	mg/L	45/-	ANR	ANR	ANR
Turbidity	NTU	-/-	ANR	ANR	ANR
Volume Discharged	MGD	160/-	Meas	0	*
<b>METALS</b>					
Antimony	ug/L	6.0/-	ANR	ANR	ANR
Antimony, dissolved	ug/L	-/-	ANR	ANR	ANR
Arsenic	ug/L	10/-	ANR	ANR	ANR
Arsenic, dissolved	ug/L	-/-	ANR	ANR	ANR
Barium	mg/L	1.0/-	ANR	ANR	ANR
Barium, dissolved	mg/L	-/-	ANR	ANR	ANR
Beryllium	ug/L	4.0/-	ANR	ANR	ANR
Beryllium, dissolved	ug/L	-/-	ANR	ANR	ANR
Boron	mg/L	-/-	ANR	ANR	ANR
Boron, dissolved	mg/L	-/-	ANR	ANR	ANR
Cadmium	ug/L	(4.0) 3.1/-	ANR	ANR	ANR
Cadmium, dissolved	ug/L	-/-	ANR	ANR	ANR
Calcium	mg/L	-/-	ANR	ANR	ANR
Calcium, Dissolved	mg/L	-/-	ANR	ANR	ANR
Chromium	ug/L	16/-	ANR	ANR	ANR
Chromium, dissolved	ug/L	-/-	ANR	ANR	ANR
Chromium VI	ug/L	16/-	ANR	ANR	ANR

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling event is a dry discharge.

**OUTFALL 001 (South Slope below Perimeter Pond)**

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THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
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ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	4/4/2011 <sup>(a)</sup>		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Cobalt	ug/L	-/-	ANR	ANR	ANR
Cobalt, dissolved	ug/L	-/-	ANR	ANR	ANR
Copper	ug/L	14/-	ANR	ANR	ANR
Copper, dissolved	ug/L	-/-	ANR	ANR	ANR
Iron	mg/L	0.3/-	ANR	ANR	ANR
Iron, dissolved	mg/L	-/-	ANR	ANR	ANR
Lead	ug/L	5.2/-	ANR	ANR	ANR
Lead, dissolved	ug/L	-/-	ANR	ANR	ANR
Magnesium	mg/L	-/-	ANR	ANR	ANR
Magnesium, Dissolved	mg/L	-/-	ANR	ANR	ANR
Manganese	ug/L	50/-	ANR	ANR	ANR
Manganese, dissolved	ug/L	-/-	ANR	ANR	ANR
Mercury	ug/L	0.10/-	ANR	ANR	ANR
Mercury, dissolved	ug/L	-/-	ANR	ANR	ANR
Nickel	ug/L	96/-	ANR	ANR	ANR
Nickel, dissolved	ug/L	-/-	ANR	ANR	ANR
Selenium	ug/L	(5) 8.2/-	ANR	ANR	ANR
Selenium, dissolved	ug/L	-/-	ANR	ANR	ANR
Silver	ug/L	4.1/-	ANR	ANR	ANR
Silver, dissolved	ug/L	-/-	ANR	ANR	ANR
Thallium	ug/L	2.0/-	ANR	ANR	ANR
Thallium, dissolved	ug/L	-/-	ANR	ANR	ANR
Vanadium	ug/L	-/-	ANR	ANR	ANR
Vanadium, dissolved	ug/L	-/-	ANR	ANR	ANR
Zinc	ug/L	119/-	ANR	ANR	ANR
Zinc, Dissolved	ug/L	-/-	ANR	ANR	ANR
<b>ORGANICS</b>					
Benzene	ug/L	-/-	ANR	ANR	ANR
Carbon Tetrachloride	ug/L	-/-	ANR	ANR	ANR
Chloroform	ug/L	-/-	ANR	ANR	ANR
1,1-Dichloroethane	ug/L	-/-	ANR	ANR	ANR
1,2-Dichloroethane	ug/L	0.5/-	ANR	ANR	ANR
1,1-Dichloroethene	ug/L	6.0/-	ANR	ANR	ANR
1,4-Dioxane	ug/L	-/-	ANR	ANR	ANR
Ethylbenzene	ug/L	-/-	ANR	ANR	ANR
Tetrachloroethene	ug/L	-/-	ANR	ANR	ANR
Toluene	ug/L	-/-	ANR	ANR	ANR
Xylenes (Total)	ug/L	-/-	ANR	ANR	ANR
1,1,1-Trichloroethane	ug/L	-/-	ANR	ANR	ANR
1,1,2-Trichloroethane	ug/L	-/-	ANR	ANR	ANR
Trichloroethene	ug/L	5.0/-	ANR	ANR	ANR
Trichlorofluoromethane	ug/L	-/-	ANR	ANR	ANR
Trichlorotrifluoroethane (Freon 113)	ug/L	-/-	ANR	ANR	ANR
Vinyl Chloride	ug/L	-/-	ANR	ANR	ANR
<b>TPH</b>					
DRO (C13 - C28)	mg/L	-/-	ANR	ANR	ANR

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling event is a dry discharge.

**OUTFALL 001 (South Slope below Perimeter Pond)**

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ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	4/4/2011 <sup>(a)</sup>		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
GRO (C4 - C12)	mg/L	-/-	ANR	ANR	ANR
<b>ADDITIONAL ANALYTES</b>					
1,2-Dichloro-1,1,2-trifluoroethane	ug/L	-/-	ANR	ANR	ANR
1,1,2,2-Tetrachloroethane	ug/L	-/-	ANR	ANR	ANR
1,2,4-Trichlorobenzene	ug/L	-/-	ANR	ANR	ANR
1,2-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR
1,2-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR
1,2-Dichloropropane	ug/L	-/-	ANR	ANR	ANR
1,2-Diphenylhydrazine/Azobenzene	ug/L	-/-	ANR	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR
2,4,6-Trichlorophenol	ug/L	13/-	ANR	ANR	ANR
2,4-Dichlorophenol	ug/L	-/-	ANR	ANR	ANR
2,4-Dimethylphenol	ug/L	-/-	ANR	ANR	ANR
2,4-Dinitrophenol	ug/L	-/-	ANR	ANR	ANR
2,4-Dinitrotoluene	ug/L	18/-	ANR	ANR	ANR
2,6-Dinitrotoluene	ug/L	-/-	ANR	ANR	ANR
2-Chloroethylvinylether	ug/L	-/-	ANR	ANR	ANR
2-Chloronaphthalene	ug/L	-/-	ANR	ANR	ANR
2-Chlorophenol	ug/L	-/-	ANR	ANR	ANR
2-Methyl-4,6-dinitrophenol	ug/L	-/-	ANR	ANR	ANR
2-Nitrophenol	ug/L	-/-	ANR	ANR	ANR
3,3'-Dichlorobenzidine	ug/L	-/-	ANR	ANR	ANR
4,4'-DDD	ug/L	-/-	ANR	ANR	ANR
4,4'-DDE	ug/L	-/-	ANR	ANR	ANR
4,4'-DDT	ug/L	-/-	ANR	ANR	ANR
4-Bromophenylphenylether	ug/L	-/-	ANR	ANR	ANR
4-Chloro-3-methylphenol	ug/L	-/-	ANR	ANR	ANR
4-Chlorophenylphenylether	ug/L	-/-	ANR	ANR	ANR
4-Nitrophenol	ug/L	-/-	ANR	ANR	ANR
Acenaphthene	ug/L	-/-	ANR	ANR	ANR
Acenaphthylene	ug/L	-/-	ANR	ANR	ANR
Acrolein	ug/L	-/-	ANR	ANR	ANR
Acrylonitrile	ug/L	-/-	ANR	ANR	ANR
Acute Toxicity	% SURVIVAL	70-100/-	ANR	ANR	ANR
Aldrin	ug/L	-/-	ANR	ANR	ANR
alpha-BHC	ug/L	0.03/-	ANR	ANR	ANR
Anthracene	ug/L	-/-	ANR	ANR	ANR
Aroclor-1016	ug/L	-/-	ANR	ANR	ANR
Aroclor-1221	ug/L	-/-	ANR	ANR	ANR
Aroclor-1232	ug/L	-/-	ANR	ANR	ANR
Aroclor-1242	ug/L	-/-	ANR	ANR	ANR
Aroclor-1248	ug/L	-/-	ANR	ANR	ANR
Aroclor-1254	ug/L	-/-	ANR	ANR	ANR

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling event is a dry discharge.

**OUTFALL 001 (South Slope below Perimeter Pond)**

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SANTA SUSANA FIELD LABORATORY  
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January 1 through December 31, 2011

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	4/4/2011 <sup>(a)</sup>		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Aroclor-1260	ug/L	-/-	ANR	ANR	ANR
Benzidine	ug/L	-/-	ANR	ANR	ANR
Benzo(a)anthracene	ug/L	-/-	ANR	ANR	ANR
Benzo(a)pyrene	ug/L	-/-	ANR	ANR	ANR
Benzo(b)fluoranthene	ug/L	-/-	ANR	ANR	ANR
Benzo(g,h,i)perylene	ug/L	-/-	ANR	ANR	ANR
Benzo(k)fluoranthene	ug/L	-/-	ANR	ANR	ANR
beta-BHC	ug/L	-/-	ANR	ANR	ANR
bis (2-Chloroethyl) ether	ug/L	-/-	ANR	ANR	ANR
bis (2-ethylhexyl) Phthalate	ug/L	4.0/-	ANR	ANR	ANR
bis(2-Chloroethoxy) methane	ug/L	-/-	ANR	ANR	ANR
bis(2-Chloroisopropyl) ether	ug/L	-/-	ANR	ANR	ANR
Bromodichloromethane	ug/L	-/-	ANR	ANR	ANR
Bromoform	ug/L	-/-	ANR	ANR	ANR
Bromomethane	ug/L	-/-	ANR	ANR	ANR
Butylbenzylphthalate	ug/L	-/-	ANR	ANR	ANR
Chlordane	ug/L	-/-	ANR	ANR	ANR
Chlorobenzene	ug/L	-/-	ANR	ANR	ANR
Chloroethane	ug/L	-/-	ANR	ANR	ANR
Chloromethane	ug/L	-/-	ANR	ANR	ANR
Chronic Toxicity	TUC	1.0/-	ANR	ANR	ANR
Chrysene	ug/L	-/-	ANR	ANR	ANR
cis-1,2-Dichloroethene	ug/L	-/-	ANR	ANR	ANR
cis-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ANR
Cyclohexane	ug/L	-/-	ANR	ANR	ANR
delta-BHC	ug/L	-/-	ANR	ANR	ANR
Dibenzo(a,h)anthracene	ug/L	-/-	ANR	ANR	ANR
Dibromochloromethane	ug/L	-/-	ANR	ANR	ANR
Dieldrin	ug/L	-/-	ANR	ANR	ANR
Diethylphthalate	ug/L	-/-	ANR	ANR	ANR
Dimethylphthalate	ug/L	-/-	ANR	ANR	ANR
Di-n-butylphthalate	ug/L	-/-	ANR	ANR	ANR
Di-n-octylphthalate	ug/L	-/-	ANR	ANR	ANR
Endosulfan I	ug/L	-/-	ANR	ANR	ANR
Endosulfan II	ug/L	-/-	ANR	ANR	ANR
Endosulfan sulfate	ug/L	-/-	ANR	ANR	ANR
Endrin	ug/L	-/-	ANR	ANR	ANR
Endrin aldehyde	ug/L	-/-	ANR	ANR	ANR
Fluoranthene	ug/L	-/-	ANR	ANR	ANR
Fluorene	ug/L	-/-	ANR	ANR	ANR
Heptachlor	ug/L	-/-	ANR	ANR	ANR
Heptachlor epoxide	ug/L	-/-	ANR	ANR	ANR
Hexachlorobenzene	ug/L	-/-	ANR	ANR	ANR
Hexachlorobutadiene	ug/L	-/-	ANR	ANR	ANR
Hexachlorocyclopentadiene	ug/L	-/-	ANR	ANR	ANR
Hexachloroethane	ug/L	-/-	ANR	ANR	ANR

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling event is a dry discharge.

**OUTFALL 001 (South Slope below Perimeter Pond)**

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January 1 through December 31, 2011

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	4/4/2011 <sup>(a)</sup>		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Hydrazine	ug/L	-/-	ANR	ANR	ANR
Unsymmetrical Dimethyl Hydrazine	ug/L	-/-	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	ug/L	-/-	ANR	ANR	ANR
Isophorone	ug/L	-/-	ANR	ANR	ANR
Lindane (gamma-BHC)	ug/L	-/-	ANR	ANR	ANR
Methylene Chloride	ug/L	-/-	ANR	ANR	ANR
Monomethyl Hydrazine	ug/L	-/-	ANR	ANR	ANR
Naphthalene	ug/L	-/-	ANR	ANR	ANR
Nitrobenzene	ug/L	-/-	ANR	ANR	ANR
n-Nitrosodimethylamine	ug/L	16/-	ANR	ANR	ANR
n-Nitroso-di-n-propylamine	ug/L	-/-	ANR	ANR	ANR
n-Nitrosodiphenylamine	ug/L	-/-	ANR	ANR	ANR
Pentachlorophenol	ug/L	16.5/-	ANR	ANR	ANR
Phenanthrene	ug/L	-/-	ANR	ANR	ANR
Phenol	ug/L	-/-	ANR	ANR	ANR
Pyrene	ug/L	-/-	ANR	ANR	ANR
Toxaphene	ug/L	-/-	ANR	ANR	ANR
trans-1,2-Dichloroethene	ug/L	-/-	ANR	ANR	ANR
trans-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ANR

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling event is a dry discharge.



**OUTFALL 001 (South Slope below Perimeter Pond)**

**ANNUAL 2011 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**Sample Type Composite  
Sample Date March 20-21, 2011**

<b>ANALYTE</b>	<b>LAB LOD (ug/L)</b>	<b>LAB RL (ug/L)</b>	<b>LAB RESULT (ug/L)</b>	<b>VALIDATION QUALIFIER</b>	<b>1998 WHO TEF</b>	<b>BEF Great Lakes Water Quality Initiative</b>	<b>TCDD Equivalent (w/out DNQ Values) (ug/L)</b>
1,2,3,4,6,7,8-HpCDD	5.70E-06	5.00E-05	6.40E-05	--	0.01	0.05	<b>3.20E-08</b>
1,2,3,4,6,7,8-HpCDF	3.80E-06	5.00E-05	1.80E-05	J (DNQ)	0.01	0.01	<b>ND</b>
1,2,3,4,7,8,9-HpCDF	5.60E-06	5.00E-05	ND	U	0.01	0.4	<b>ND</b>
1,2,3,4,7,8-HxCDD	1.80E-06	5.00E-05	ND	U	0.1	0.3	<b>ND</b>
1,2,3,4,7,8-HxCDF	1.60E-06	5.00E-05	ND	U	0.1	0.08	<b>ND</b>
1,2,3,6,7,8-HxCDD	1.70E-06	5.00E-05	ND	UJ (*III)	0.1	0.1	<b>ND</b>
1,2,3,6,7,8-HxCDF	1.30E-06	5.00E-05	ND	U	0.1	0.2	<b>ND</b>
1,2,3,7,8,9-HxCDD	1.50E-06	5.00E-05	ND	UJ (*III)	0.1	0.1	<b>ND</b>
1,2,3,7,8,9-HxCDF	1.70E-06	5.00E-05	ND	U	0.1	0.6	<b>ND</b>
1,2,3,7,8-PeCDD	1.30E-06	5.00E-05	ND	U	1	0.9	<b>ND</b>
1,2,3,7,8-PeCDF	1.40E-06	5.00E-05	ND	U	0.05	0.2	<b>ND</b>
2,3,4,6,7,8-HxCDF	1.30E-06	5.00E-05	ND	U	0.1	0.7	<b>ND</b>
2,3,4,7,8-PeCDF	1.40E-06	5.00E-05	ND	U	0.5	1.6	<b>ND</b>
2,3,7,8-TCDD	1.10E-06	1.00E-05	ND	U	1	1	<b>ND</b>
2,3,7,8-TCDF	1.40E-06	1.00E-05	ND	U	0.1	0.8	<b>ND</b>
OCDD	7.90E-06	1.00E-04	7.20E-04	--	0.0001	0.01	<b>7.20E-10</b>
OCDF	3.20E-06	1.00E-04	4.40E-05	J (DNQ)	0.0001	0.02	<b>ND</b>

<b>TCDD TEQ w/out DNQ Values</b>	<b>3.27E-08</b>
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**TCDD TEQ BENCHMARK LIMIT = 2.80E-08**

See attached notes for abbreviations, definitions, and other explanations for the data presented in this table.

## OUTFALL 001 (Frontier Park Receiving Water)

### ANNUAL 2011 REPORTING SUMMARY THE BOEING COMPANY SANTA SUSANA FIELD LABORATORY NPDES PERMIT CA0001309

January 1 through December 31, 2011

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	03/20-21/2011 (Comp)		
			RESULT	MDA	VALIDATION QUALIFIER
<b>RADIOACTIVITY</b>					
Gross Alpha	pCi/L	15/-	3.09 ± 0.55	0.307	J (C)
Gross Beta	pCi/L	50/-	6.03 ± 0.68	0.819	--
Strontium-90	pCi/L	8.0/-	-0.071 ± 0.31	0.744	U
Total Combined Radium-226 & Radium 228	pCi/L	5.0/-	0.01 ± 0.76	1.15	U
Tritium	pCi/L	20000/-	-59.7 ± 96	166	U
Uranium, Total	pCi/L	20/-	0.438 ± 0.051	0.02	J (DNQ)
Potassium-40	pCi/L	-/-	ND < 23.5	23.5	U
Cesium 137	pCi/L	200/-	ND < 1.46	1.46	U

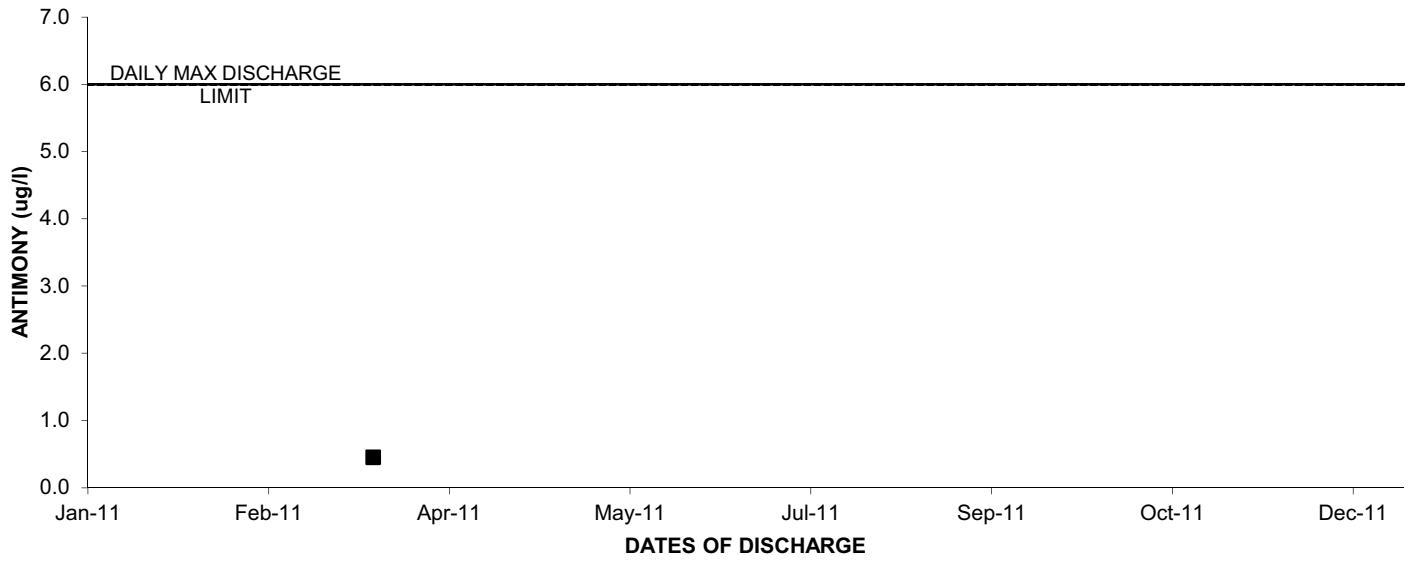
**OUTFALL 001 (South Slope below Perimeter Pond)**

**ANNUAL 2011 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

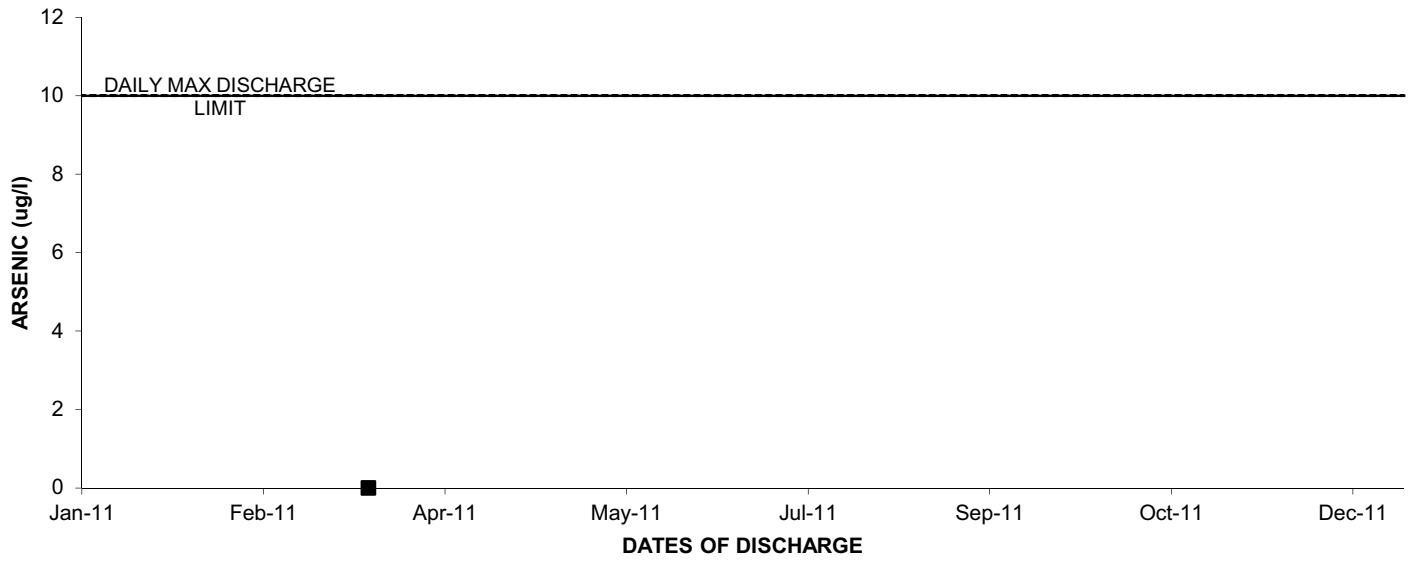
**January 1 through December 31, 2011**

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	03/20/2011-03/21/2011		
			Sample Type	Result	Concentration Result Validation Qualifier
Max Discharge for event	MGD	160	Meas	3.569	
Ammonia as Nitrogen (N)	LBS/DAY	13,500/-	Comp	ND	*
Biochemical Oxygen Demand (BOD 5 day)	LBS/DAY	40,032/-	Comp	59.53	*
Chloride	LBS/DAY	200,160/-	Comp	95.25	*
Surfactants (MBAS)	LBS/DAY	667/-	Comp	ND	*
Fluoride	LBS/DAY	2,135/-	Comp	6.55	*
Nitrate + Nitrite as Nitrogen (N)	LBS/DAY	10,700/-	Comp	13.39	*
Nitrate as Nitrogen (N)	LBS/DAY	10,700/-	Comp	13.39	*
Nitrite-N	LBS/DAY	1,334/-	Comp	ND	*
Oil & Grease	LBS/DAY	20,016/-	Grab	ND	*
Perchlorate	LBS/DAY	8.0/-	Comp	ND	U
Sulfate	LBS/DAY	400,320/-	Comp	125.01	*
Total Cyanide	LBS/DAY	11/-	Comp	ND	*
Total Dissolved Solids	LBS/DAY	1,270,000/-	Comp	3274.20	*
Total Suspended Solids	LBS/DAY	60,048/-	Comp	1696.63	--
Total Residual Chlorine (Field)	LBS/DAY	133/-	Grab	0.0	*
Antimony	LBS/DAY	8.0/-	Comp	0.01	J* (DNQ)
Arsenic	LBS/DAY	67/-	Comp	ND	U (B)
Barium	LBS/DAY	1,330/-	Comp	1.28	--
Beryllium	LBS/DAY	5.3/-	Comp	ND	U
Cadmium	LBS/DAY	4.1/-	Comp	0.003	J* (DNQ)
Chromium	LBS/DAY	22/-	Comp	0.25	--
Copper	LBS/DAY	19/-	Comp	0.16	*
Iron	LBS/DAY	400/-	Comp	169.66	--
Lead	LBS/DAY	6.9/-	Comp	0.12	*
Manganese	LBS/DAY	66.7/-	Comp	2.41	--
Mercury	LBS/DAY	0.13/-	Comp	ND	U
Nickel	LBS/DAY	128/-	Comp	0.19	J (DNQ)
Selenium	LBS/DAY	11/-	Comp	ND	*
Silver	LBS/DAY	5.5/-	Comp	ND	*
Thallium	LBS/DAY	2.7/-	Comp	ND	*
Zinc	LBS/DAY	159/-	Comp	0.80	--
1,2-Dichloroethane	LBS/DAY	0.67/-	Grab	ND	*
1,1-Dichloroethene	LBS/DAY	8.0/-	Grab	ND	*
Trichloroethene	LBS/DAY	6.7/-	Grab	ND	*
2,4,6-Trichlorophenol	LBS/DAY	17/-	Comp	ND	U
2,4-Dinitrotoluene	LBS/DAY	24/-	Comp	ND	U
alpha-BHC	LBS/DAY	0.04/-	Comp	ND	C*
bis (2-ethylhexyl) Phthalate	LBS/DAY	5.3/-	Comp	ND	U
n-Nitrosodimethylamine	LBS/DAY	22/-	Comp	ND	U
Pentachlorophenol	LBS/DAY	22/-	Comp	ND	U
TCDD TEQ_NoDNQ	LBS/DAY	3.70E-08/-	Comp	9.74E-10	--

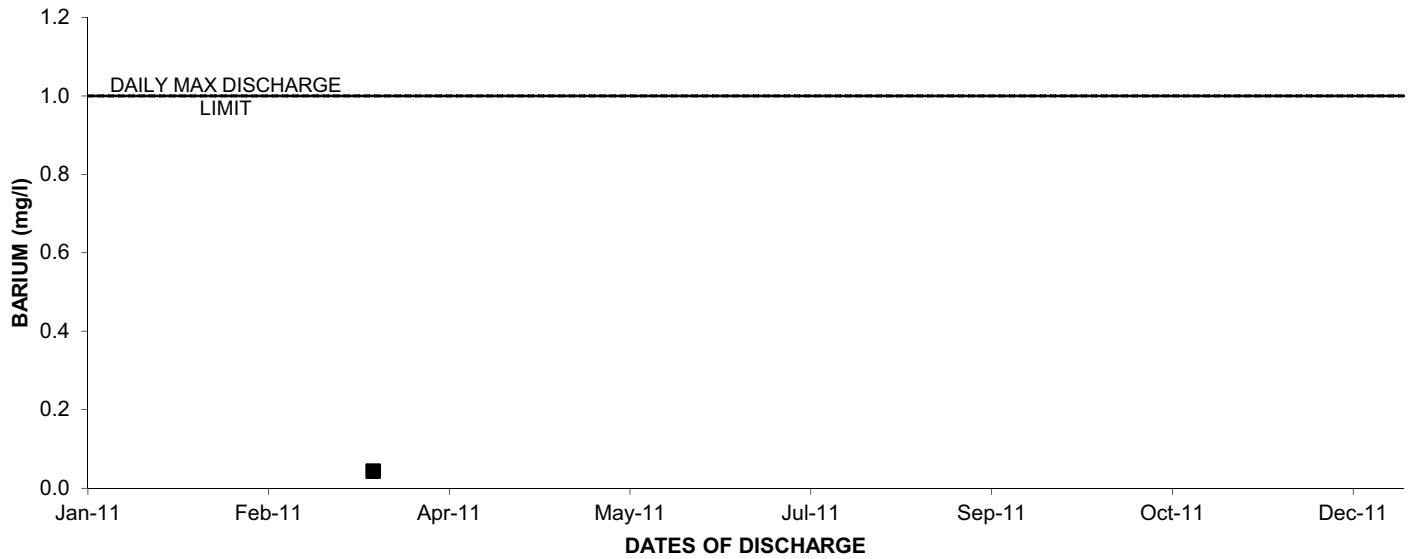
### 2011: OUTFALL 001 ANTIMONY



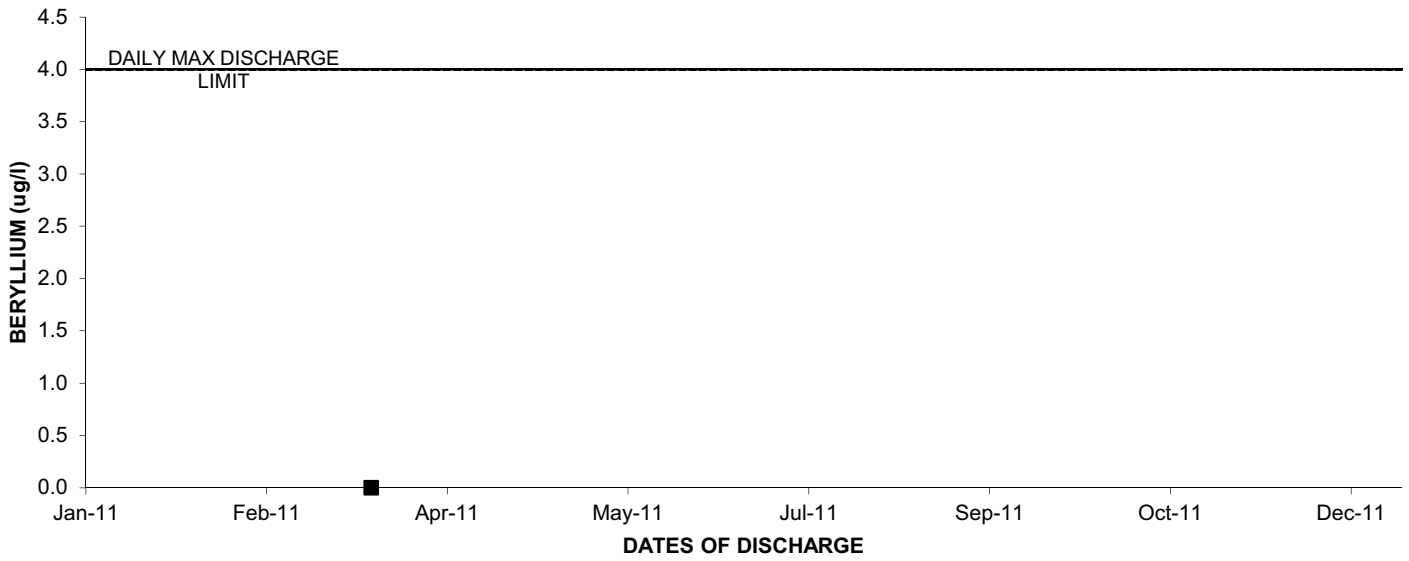
### 2011: OUTFALL 001 ARSENIC



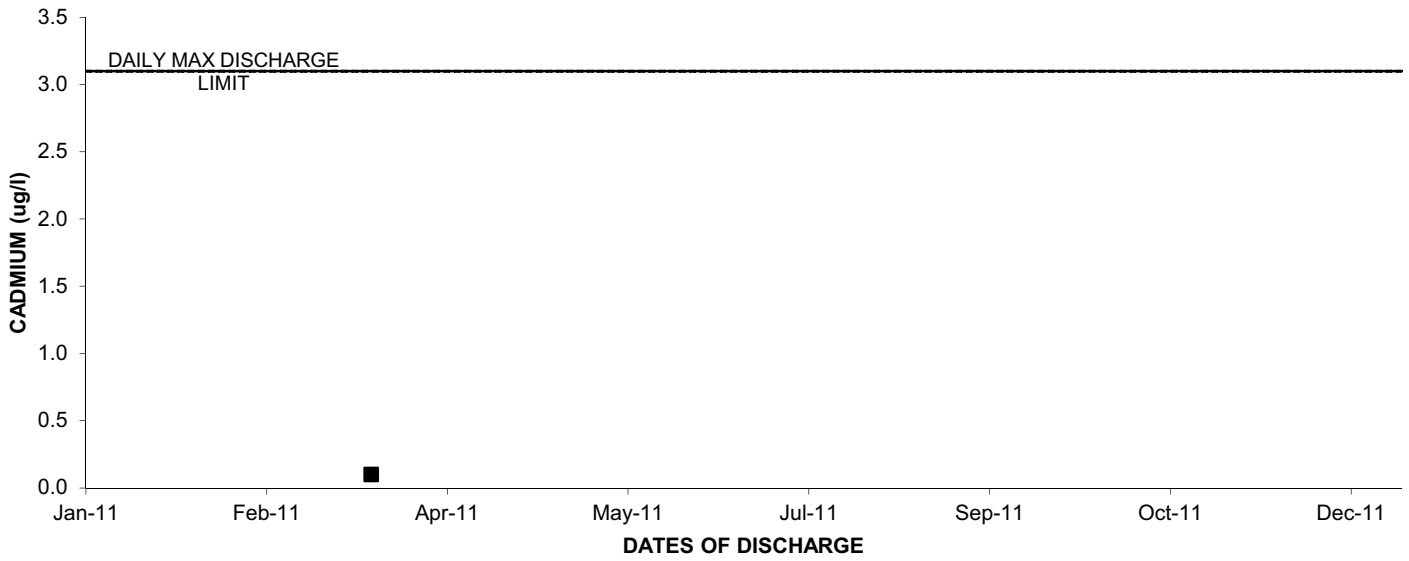
### 2011: OUTFALL 001 BARIUM



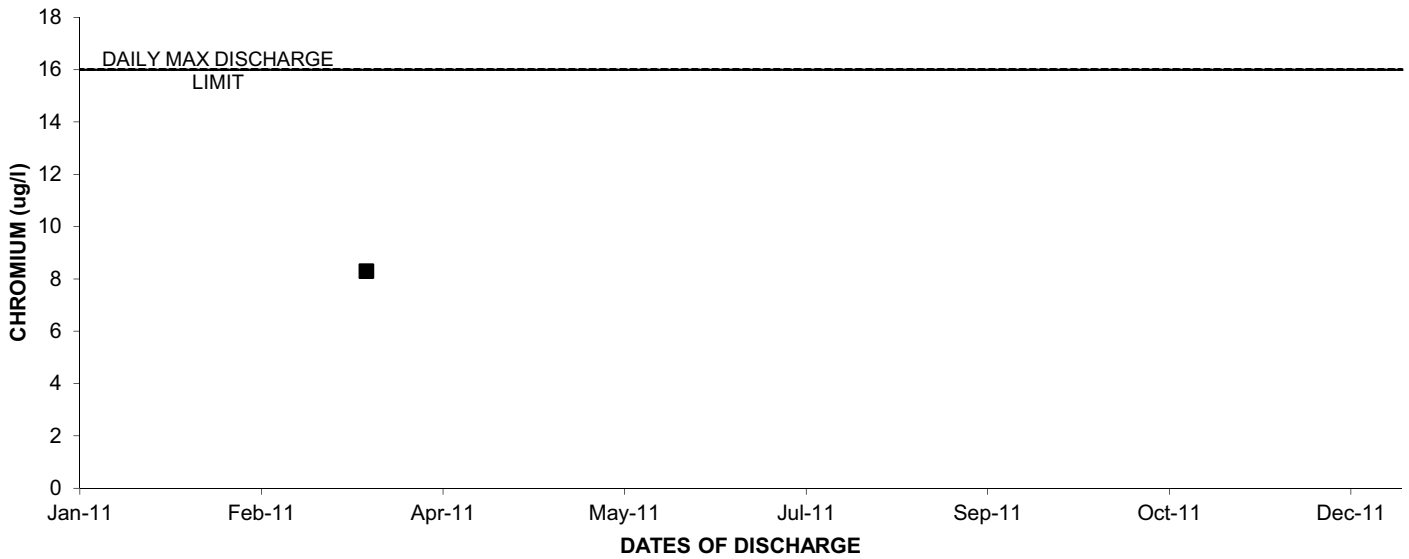
### 2011: OUTFALL 001 BERYLLIUM



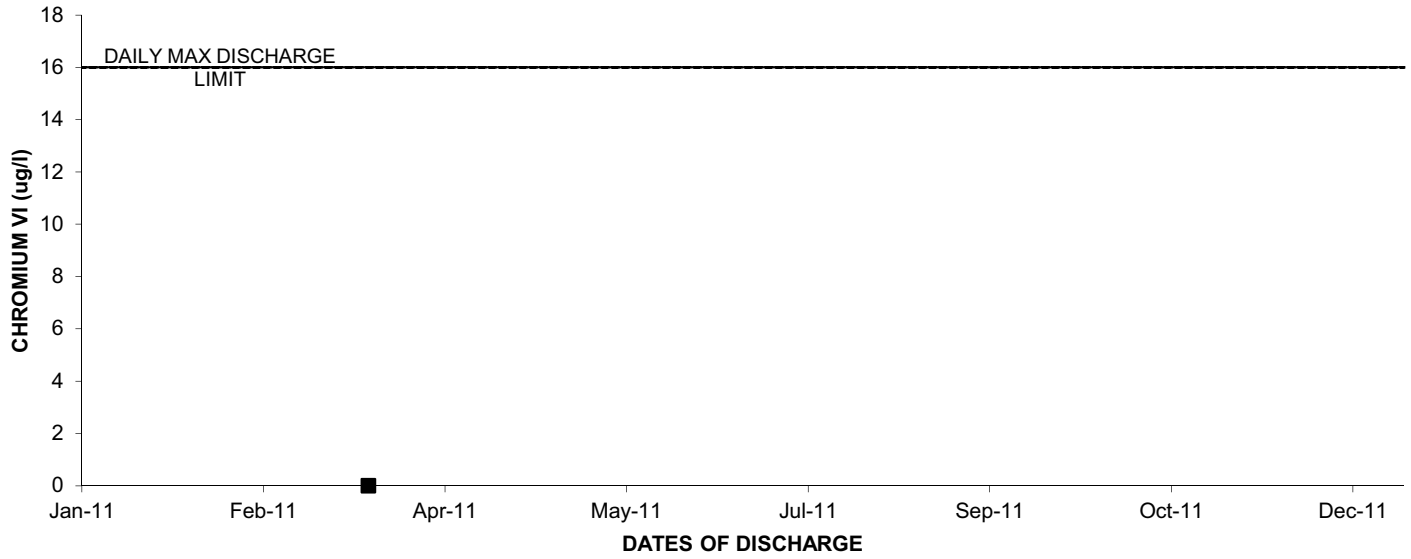
### 2011: OUTFALL 001 CADMIUM



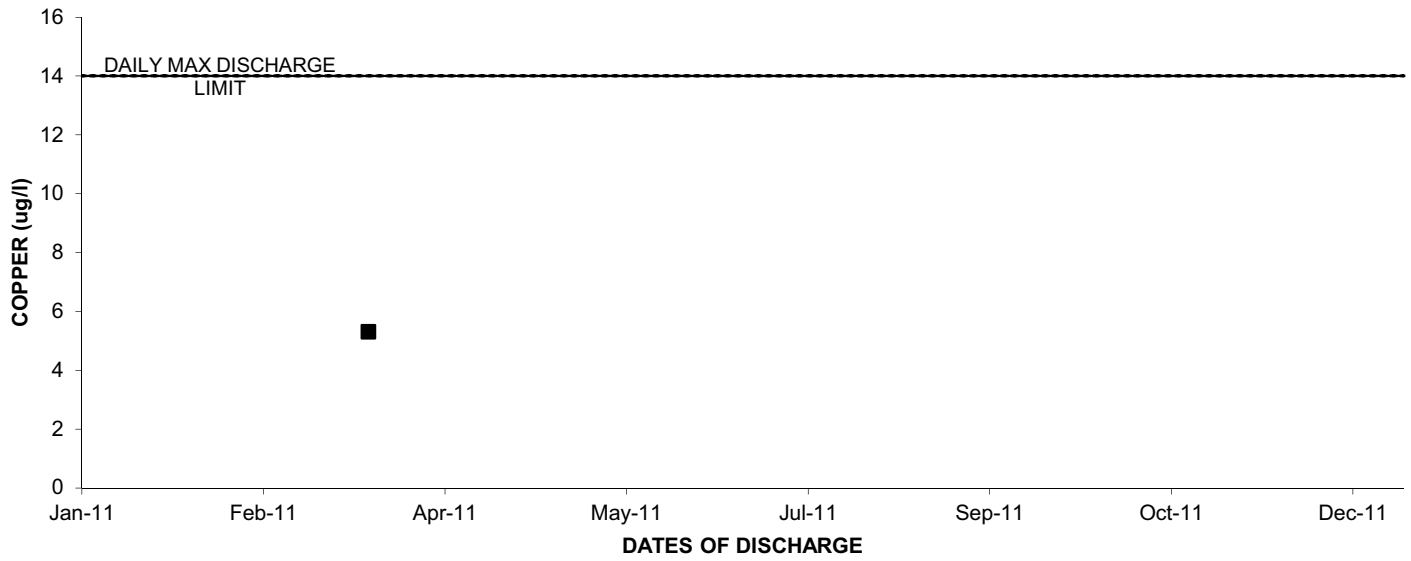
### 2011: OUTFALL 001 CHROMIUM



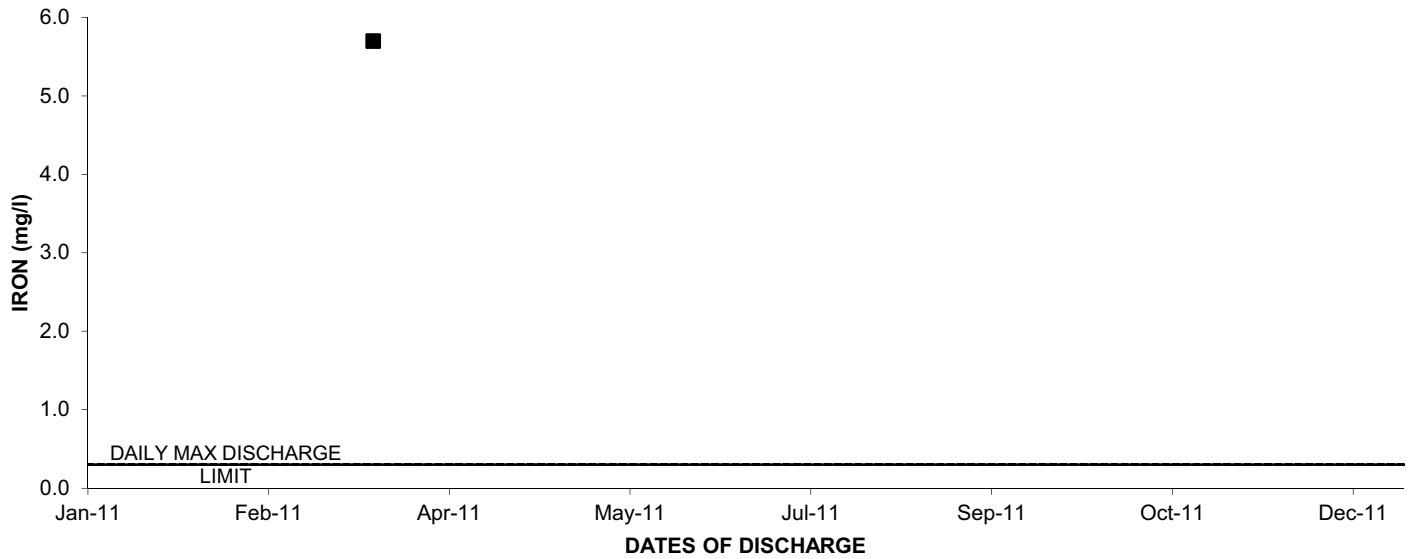
### 2011: OUTFALL 001 CHROMIUM VI



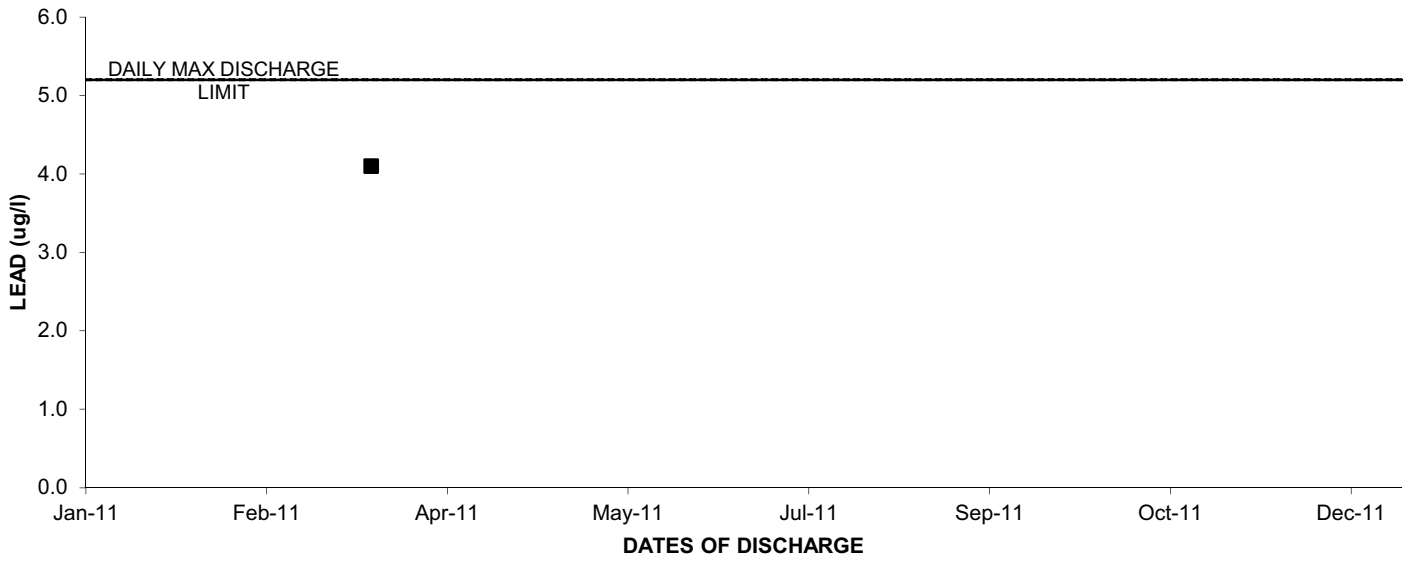
### 2011: OUTFALL 001 COPPER



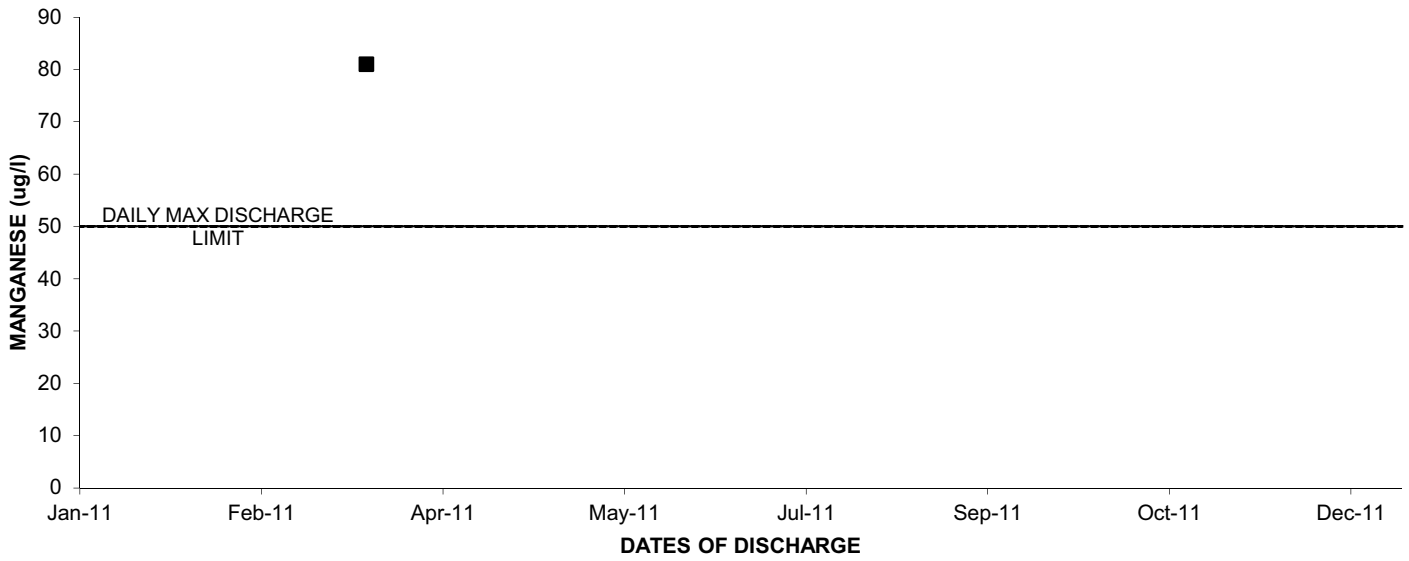
### 2011: OUTFALL 001 IRON



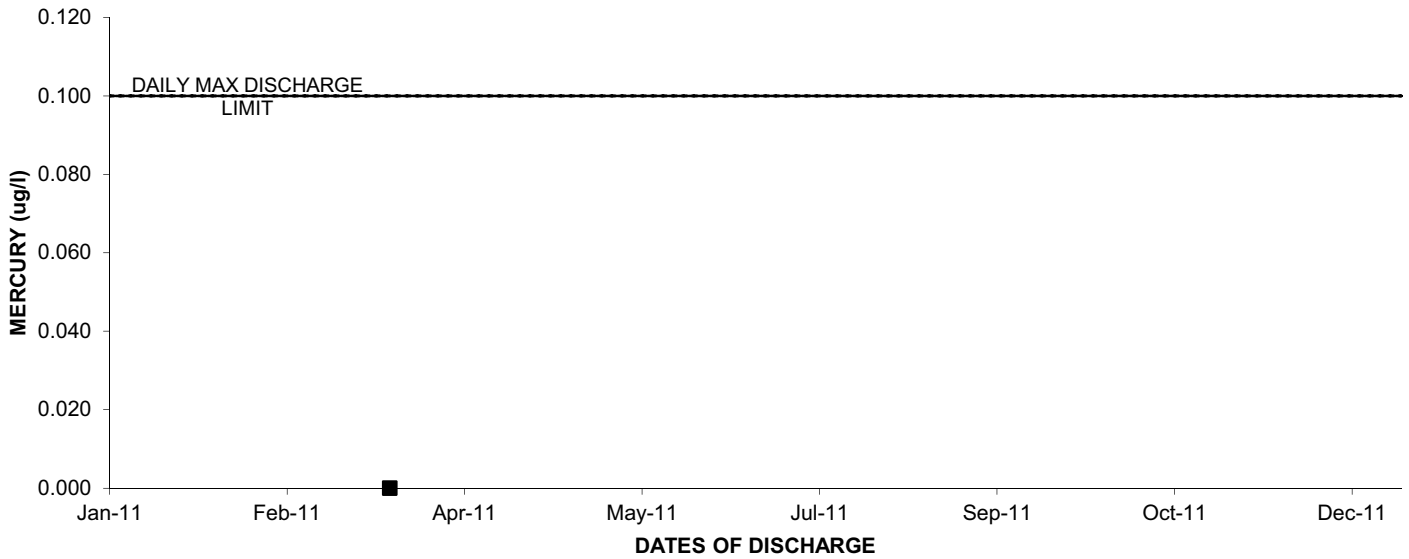
### 2011: OUTFALL 001 LEAD



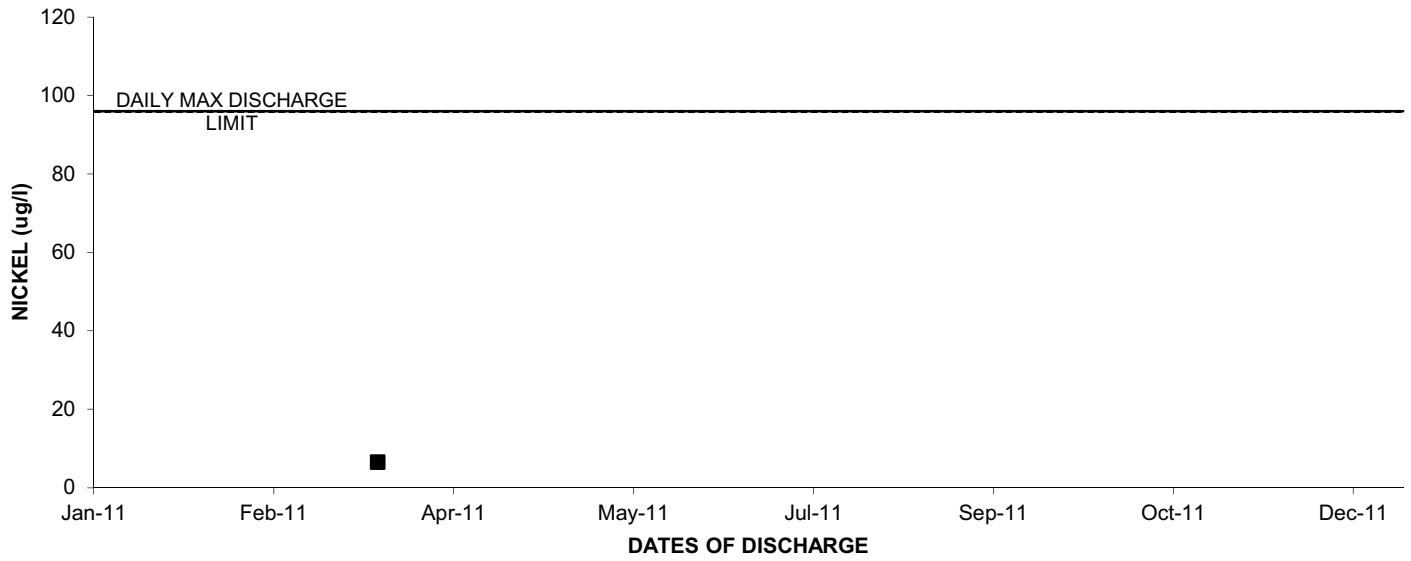
### 2011: OUTFALL 001 MANGANESE



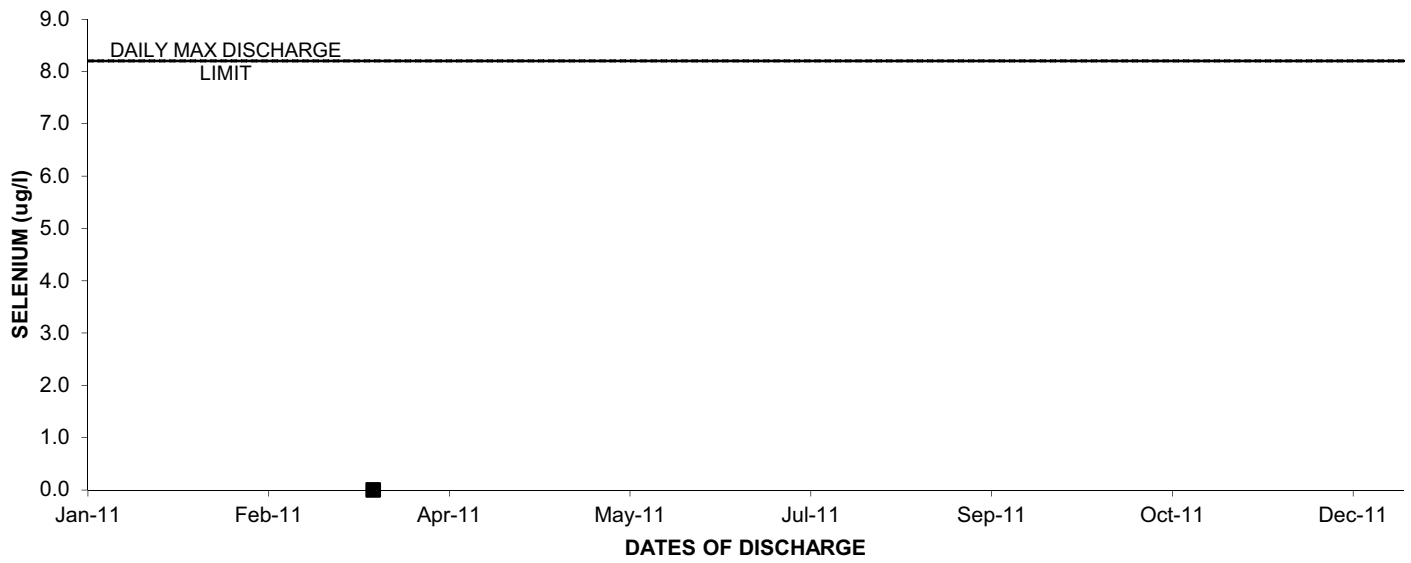
### 2011: OUTFALL 001 MERCURY



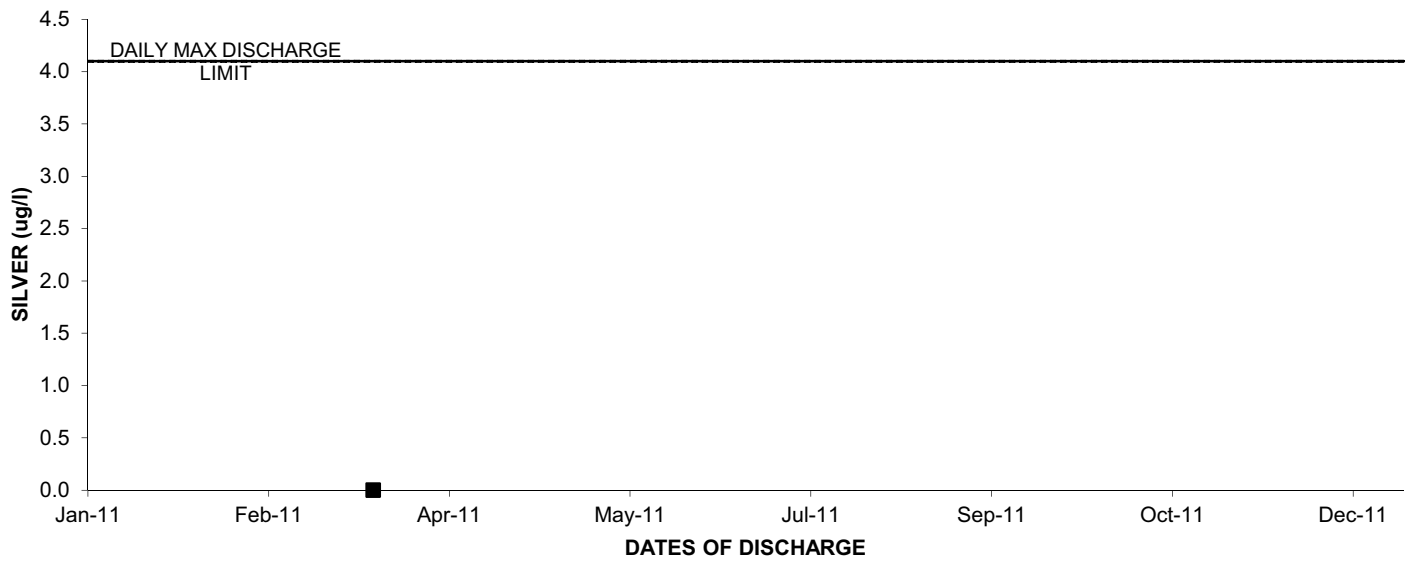
### 2011: OUTFALL 001 NICKEL



### 2011: OUTFALL 001 SELENIUM

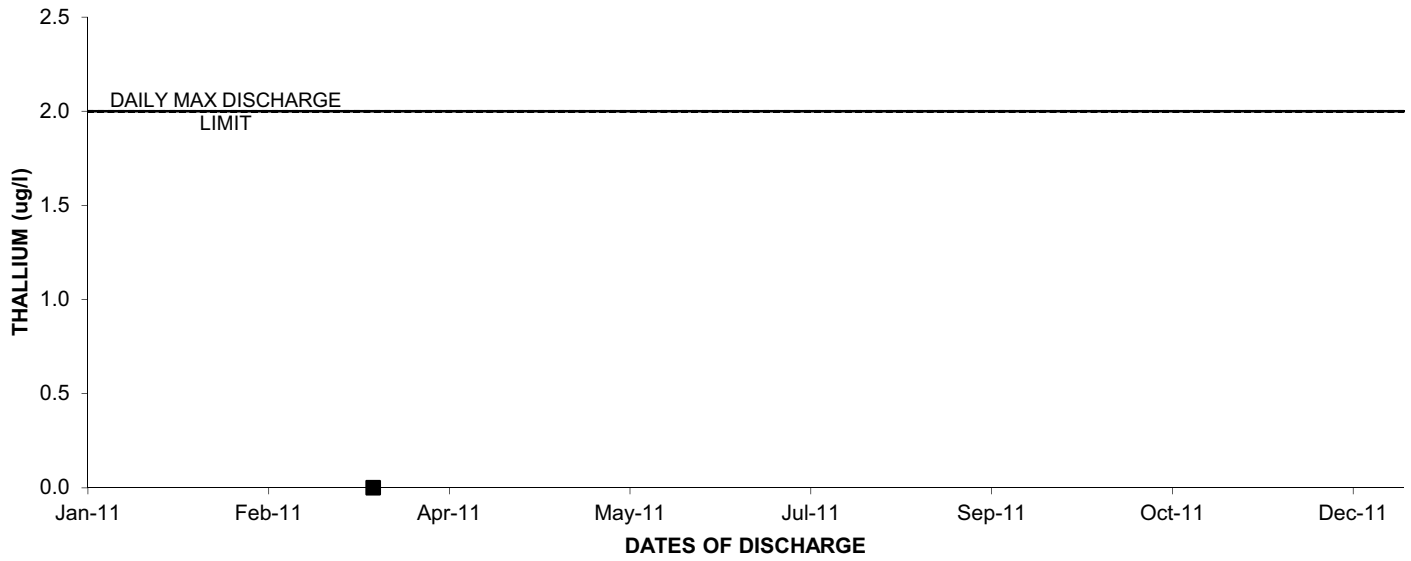


### 2011: OUTFALL 001 SILVER

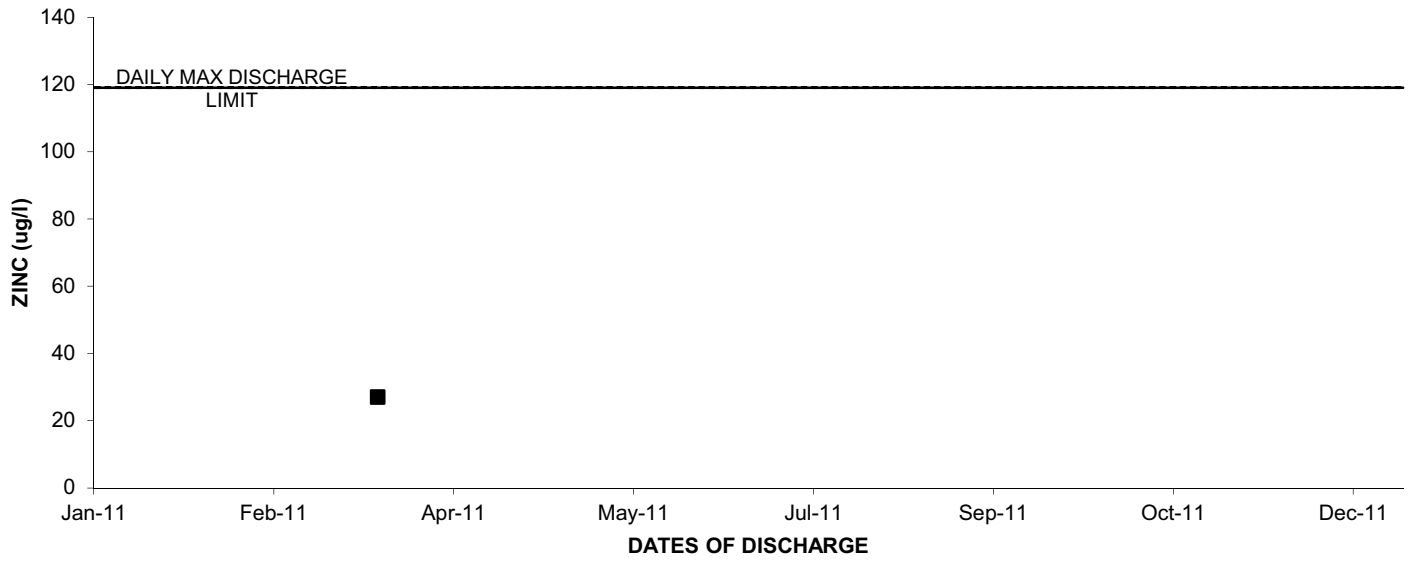




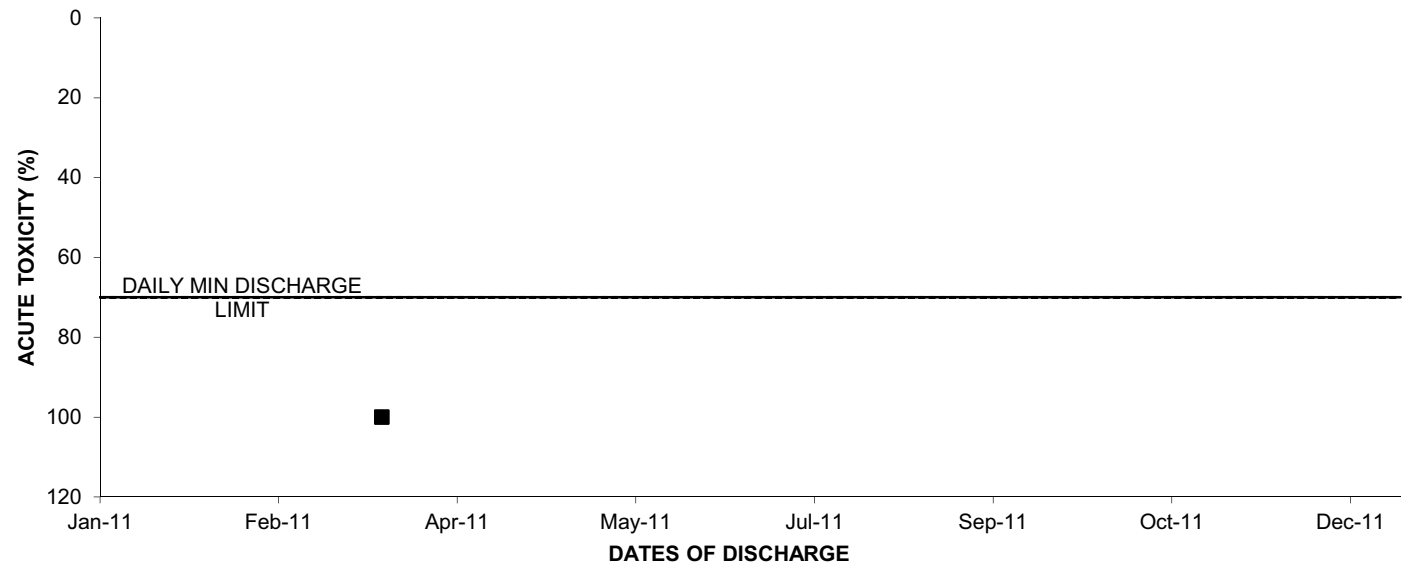
### 2011: OUTFALL 001 THALLIUM



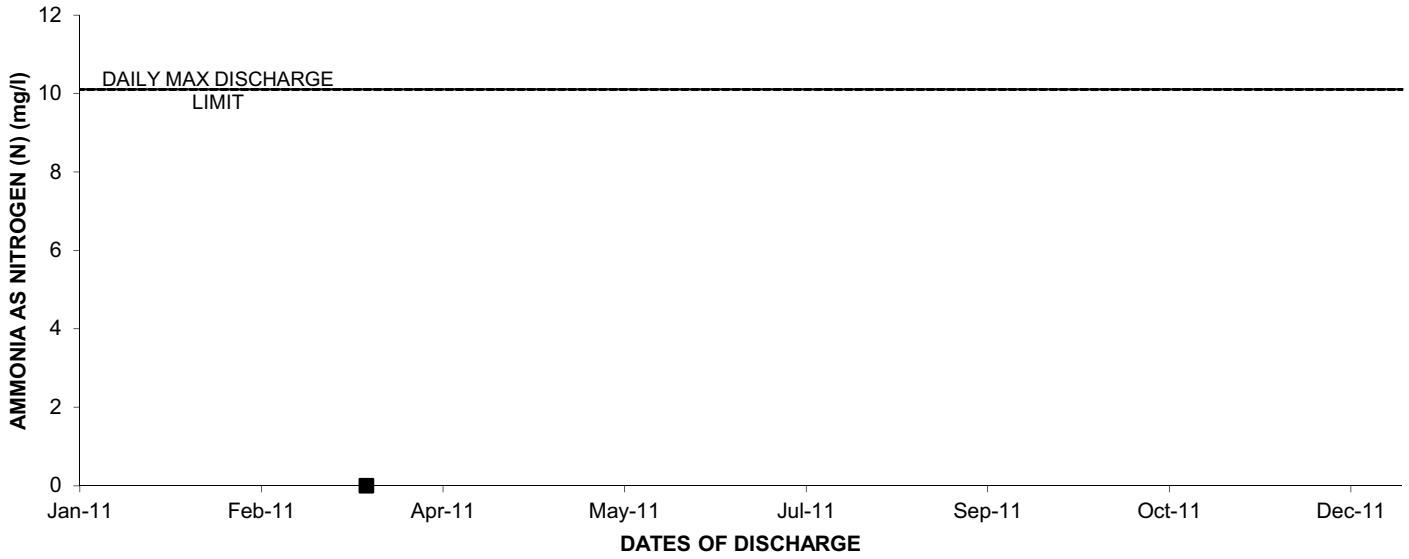
### 2011: OUTFALL 001 ZINC



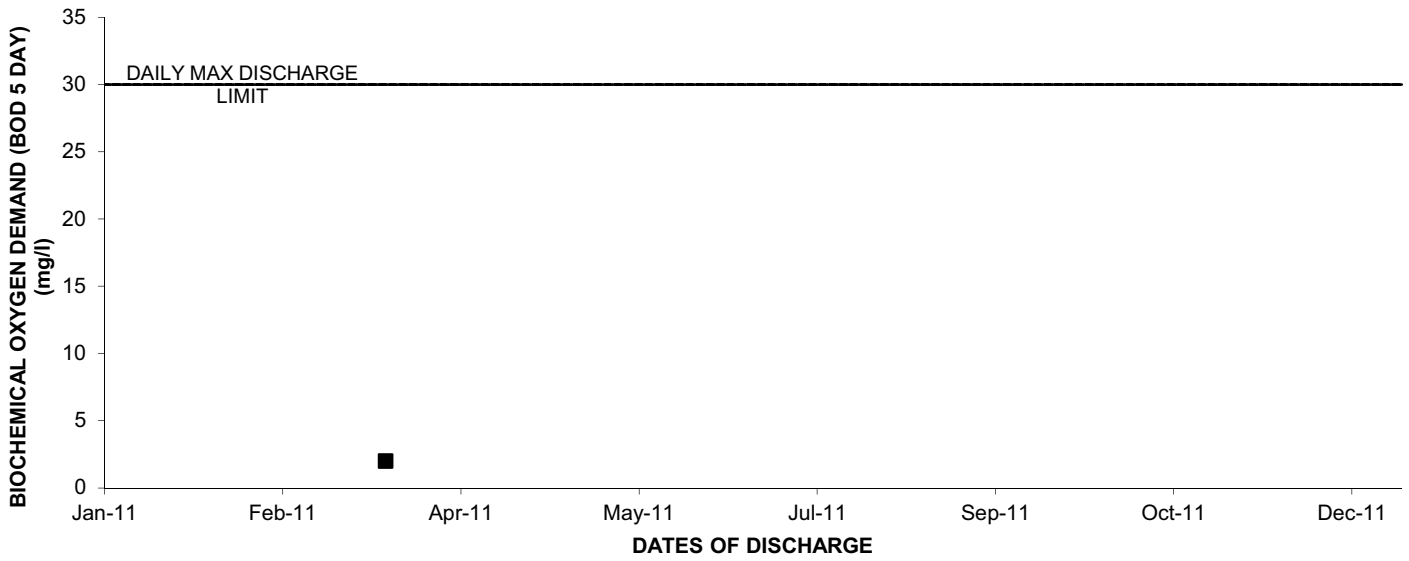
### 2011: OUTFALL 001 ACUTE TOXICITY



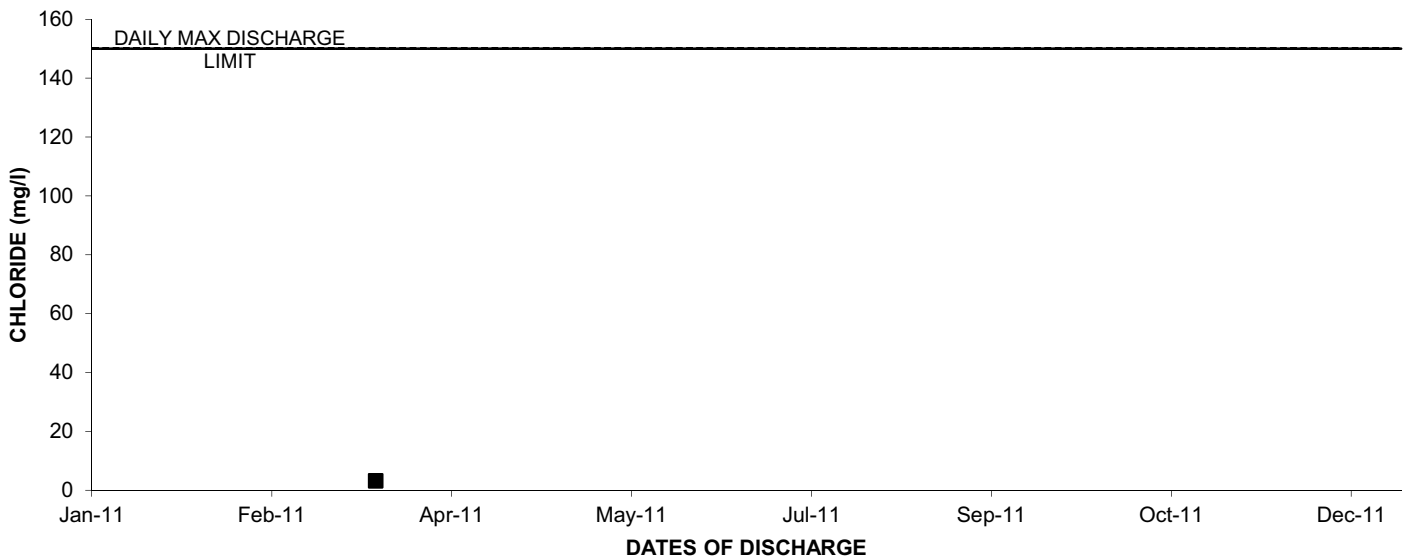
### 2011: OUTFALL 001 AMMONIA AS NITROGEN (N)



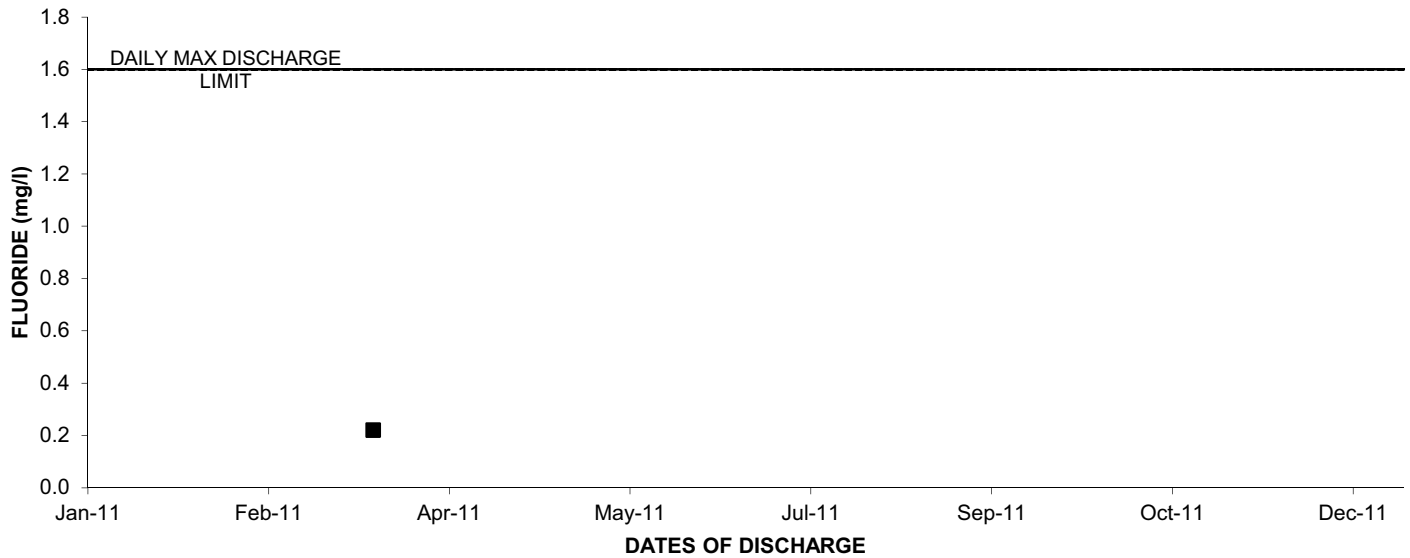
### 2011: OUTFALL 001 BIOCHEMICAL OXYGEN DEMAND (BOD 5 DAY)



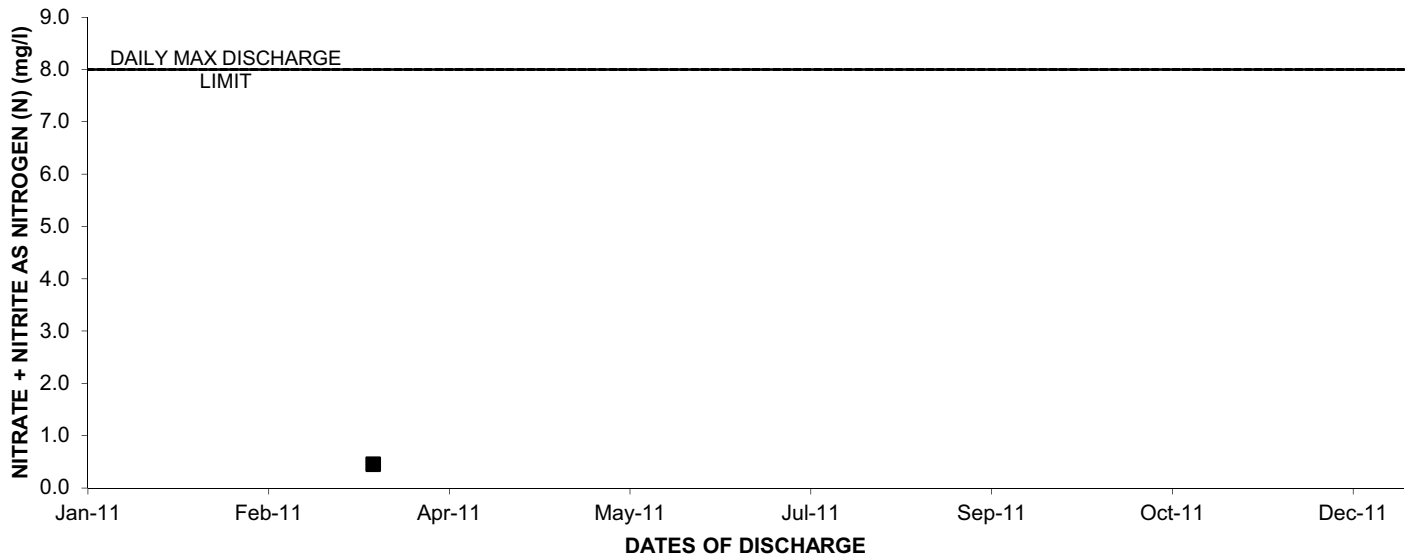
### 2011: OUTFALL 001 CHLORIDE



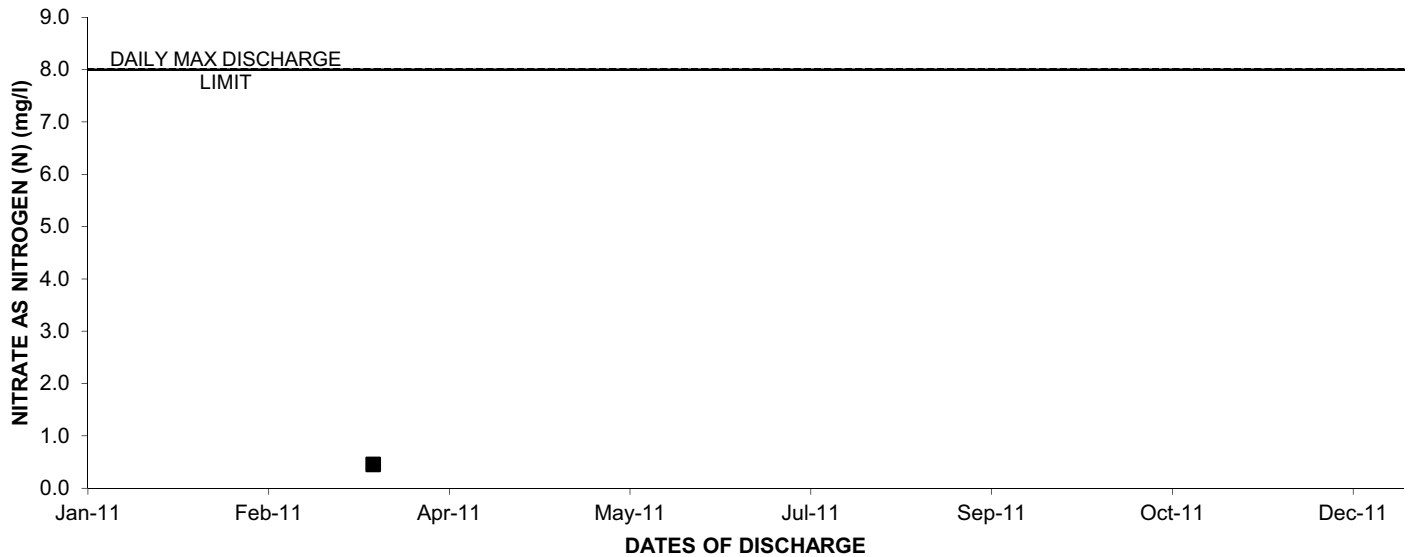
### 2011: OUTFALL 001 FLUORIDE



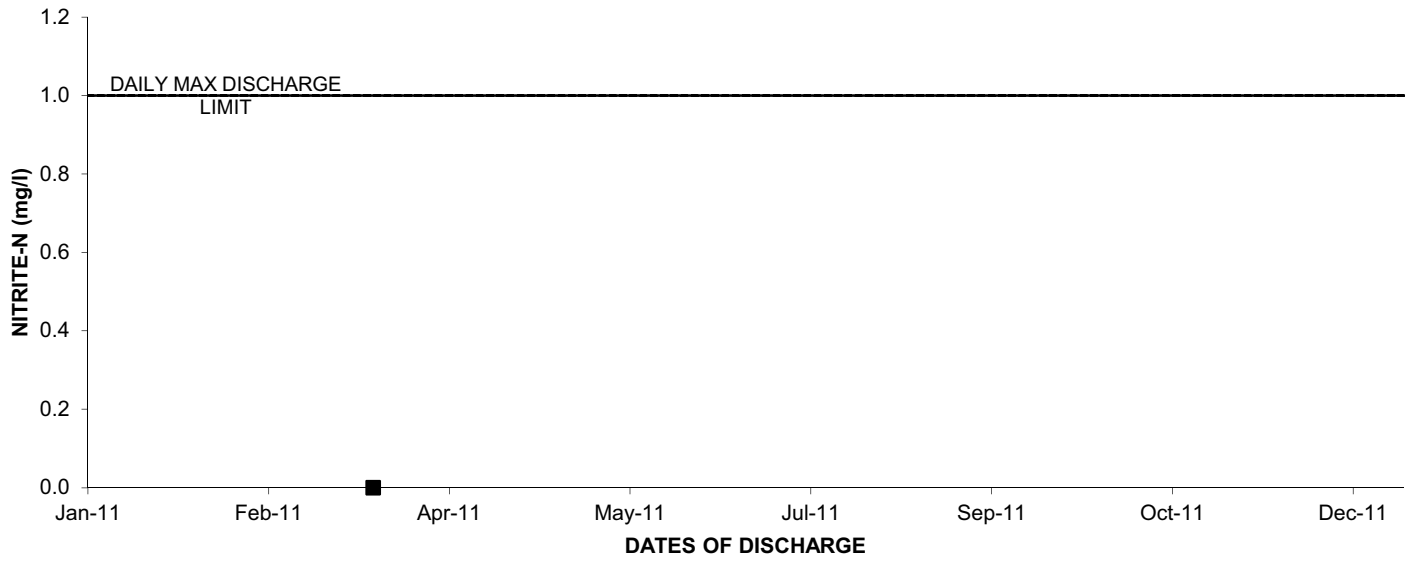
### 2011: OUTFALL 001 NITRATE + NITRITE AS NITROGEN (N)



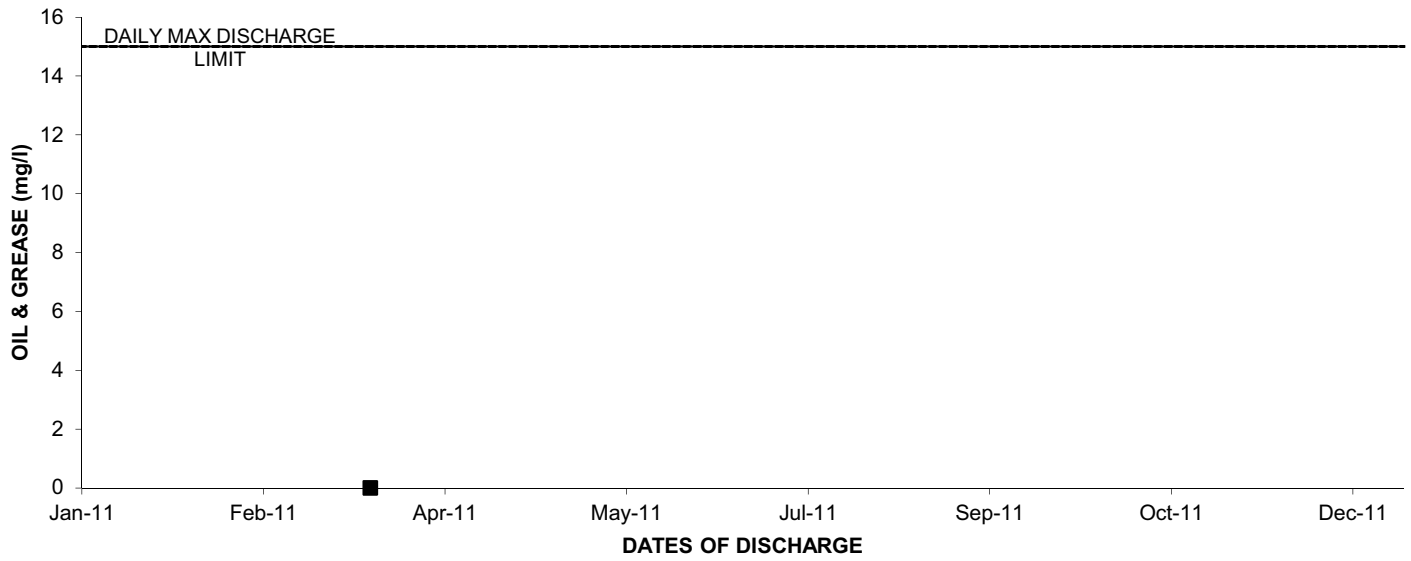
### 2011: OUTFALL 001 NITRATE AS NITROGEN (N)



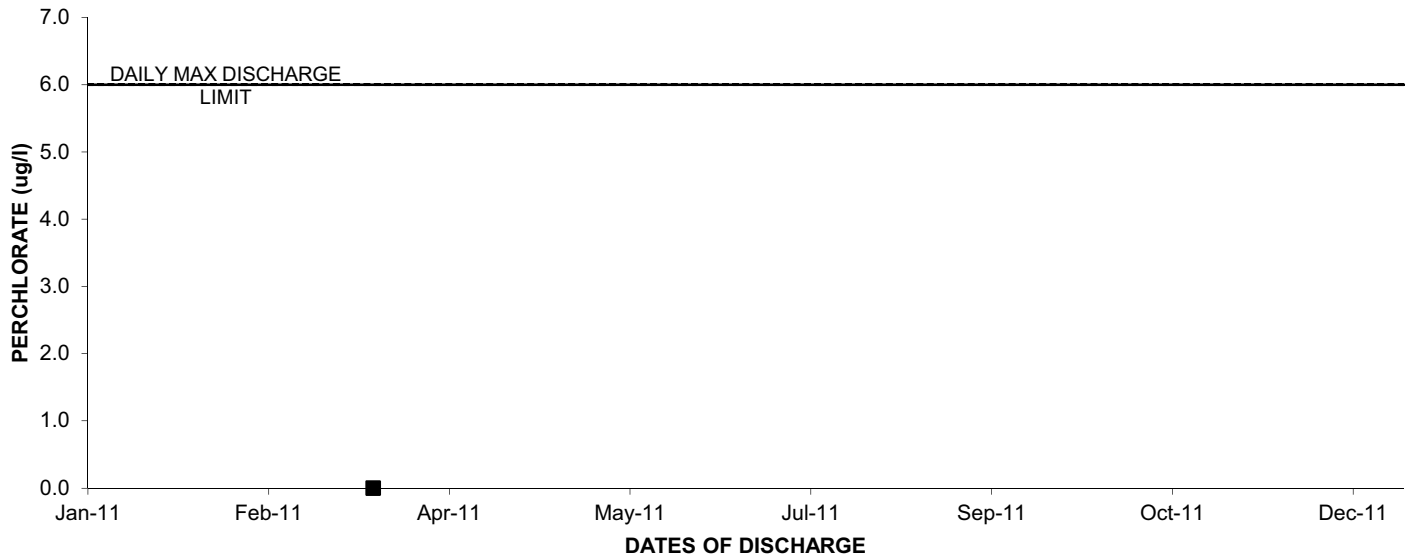
### 2011: OUTFALL 001 NITRITE-N



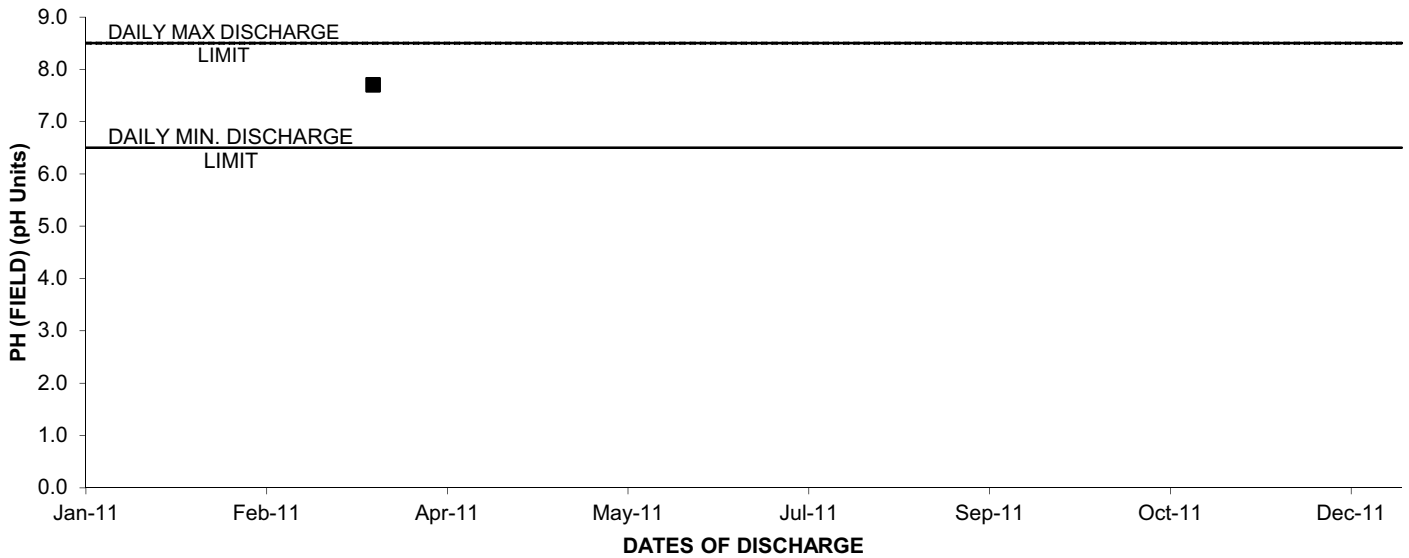
### 2011: OUTFALL 001 OIL & GREASE



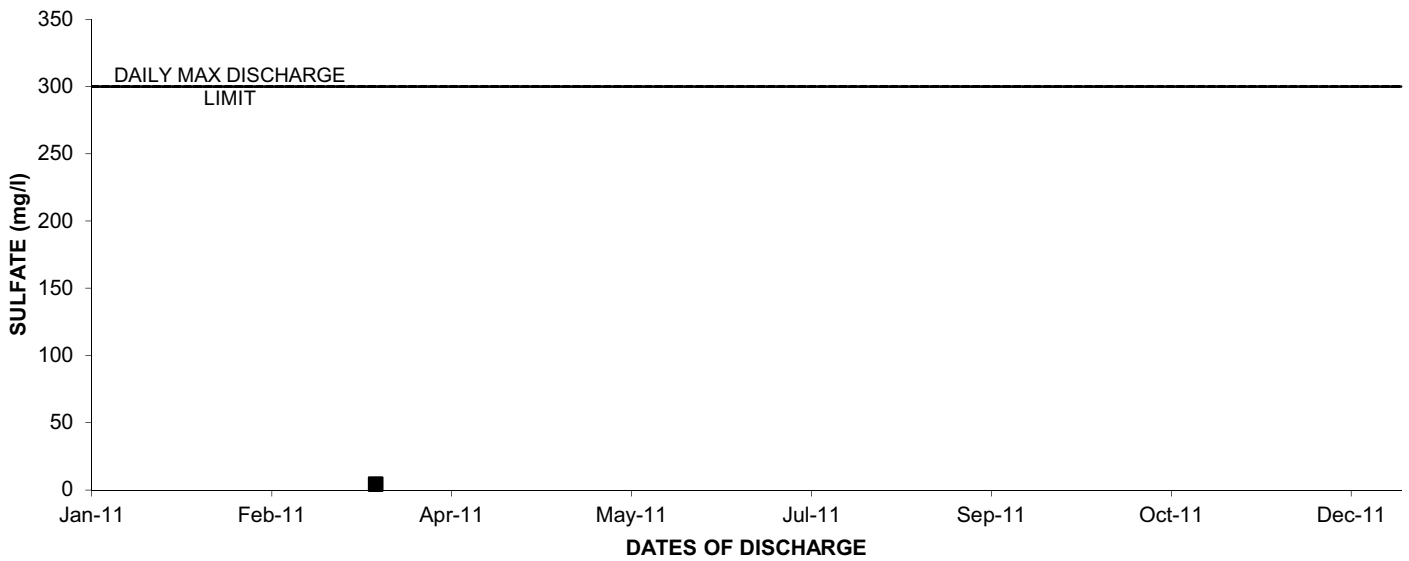
### 2011: OUTFALL 001 PERCHLORATE



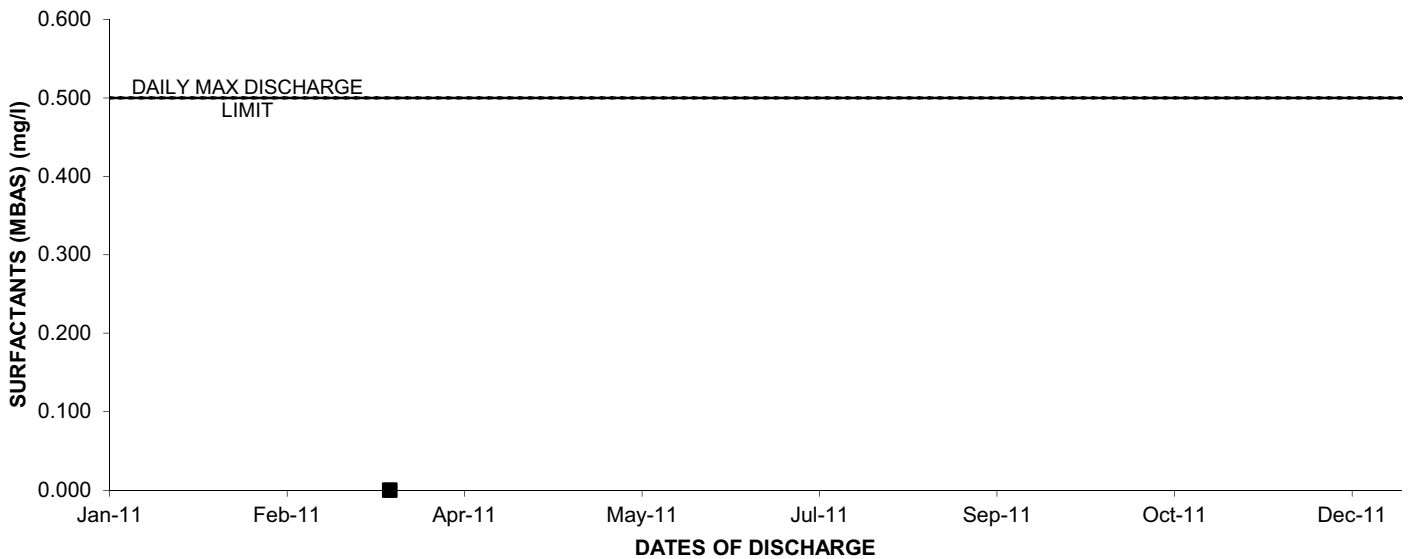
### 2011: OUTFALL 001 PH (FIELD)



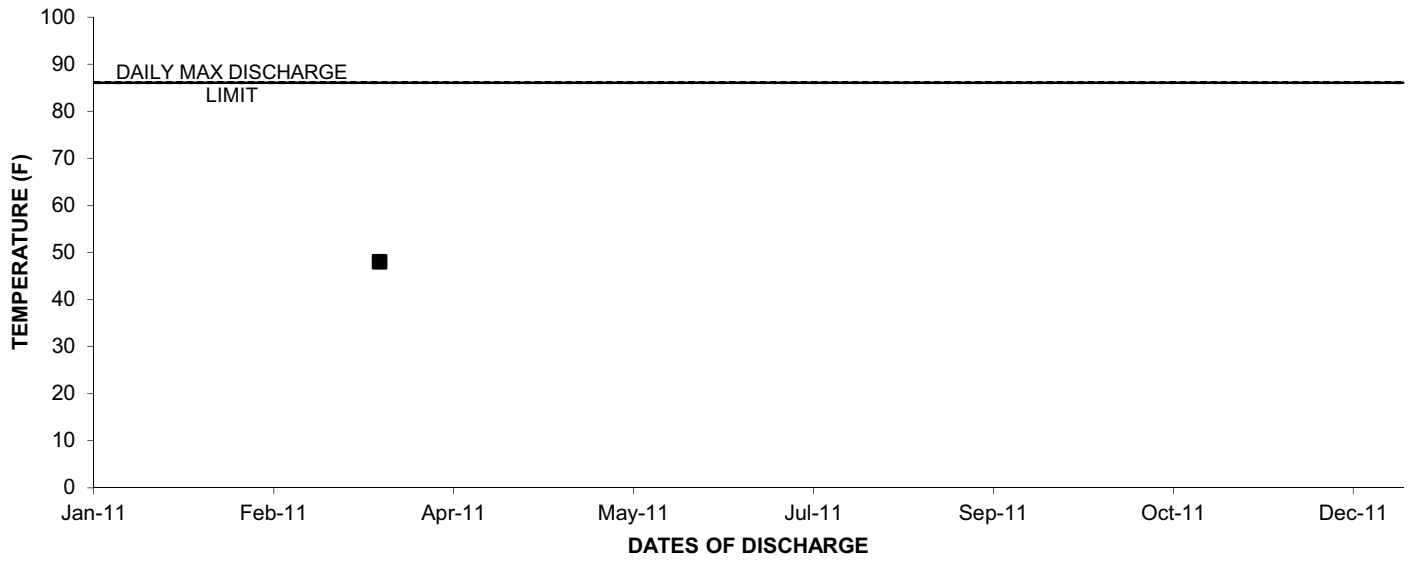
### 2011: OUTFALL 001 SULFATE



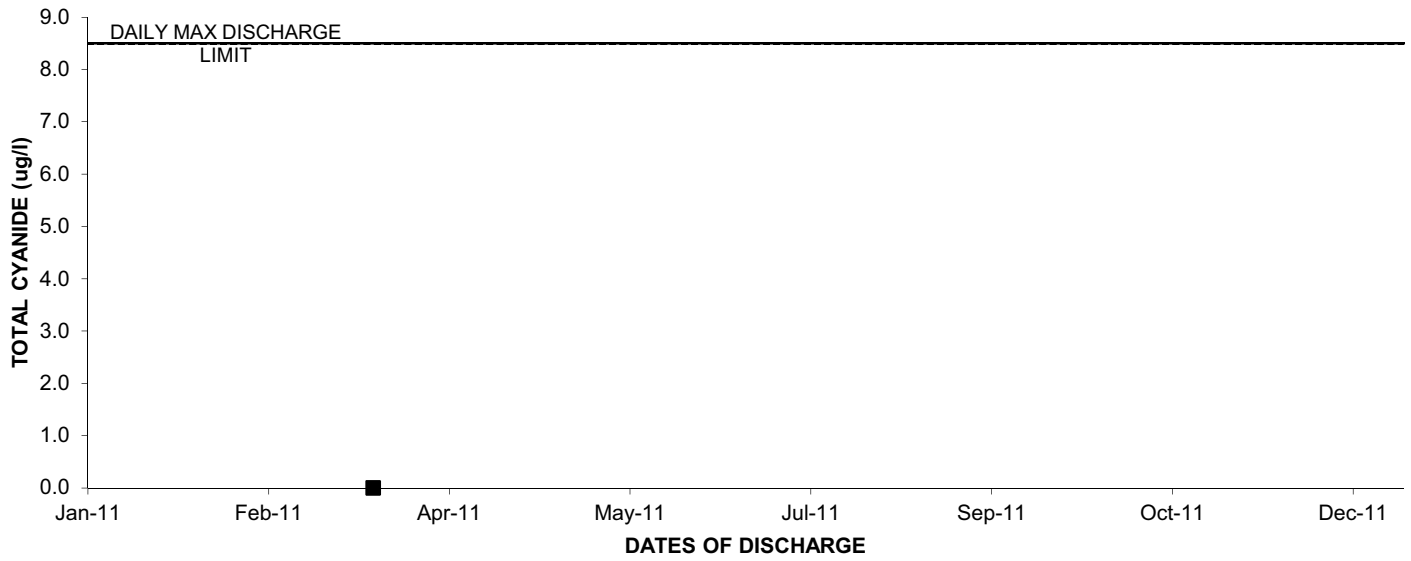
### 2011: OUTFALL 001 SURFACTANTS (MBAS)



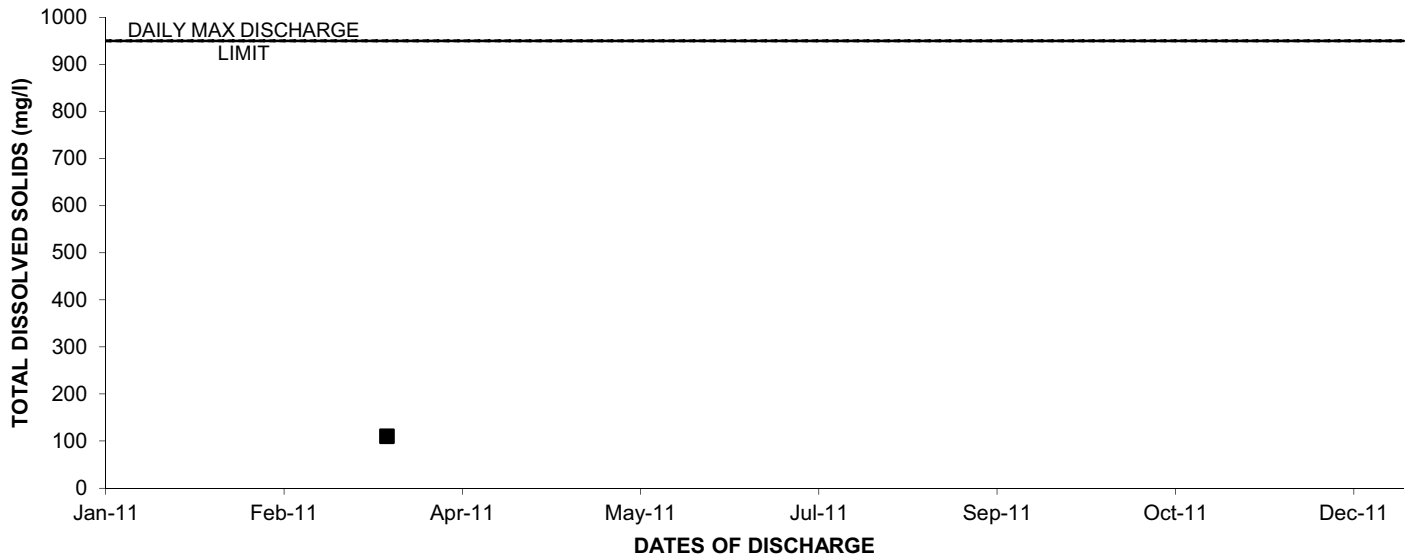
### 2011: OUTFALL 001 TEMPERATURE



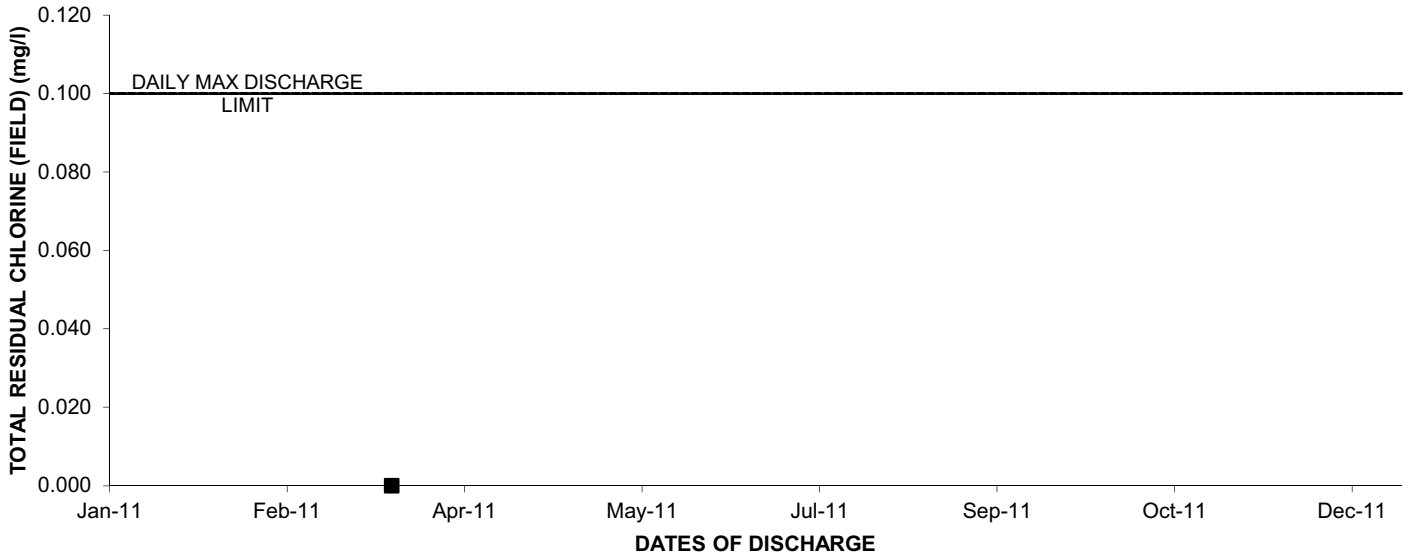
### 2011: OUTFALL 001 TOTAL CYANIDE



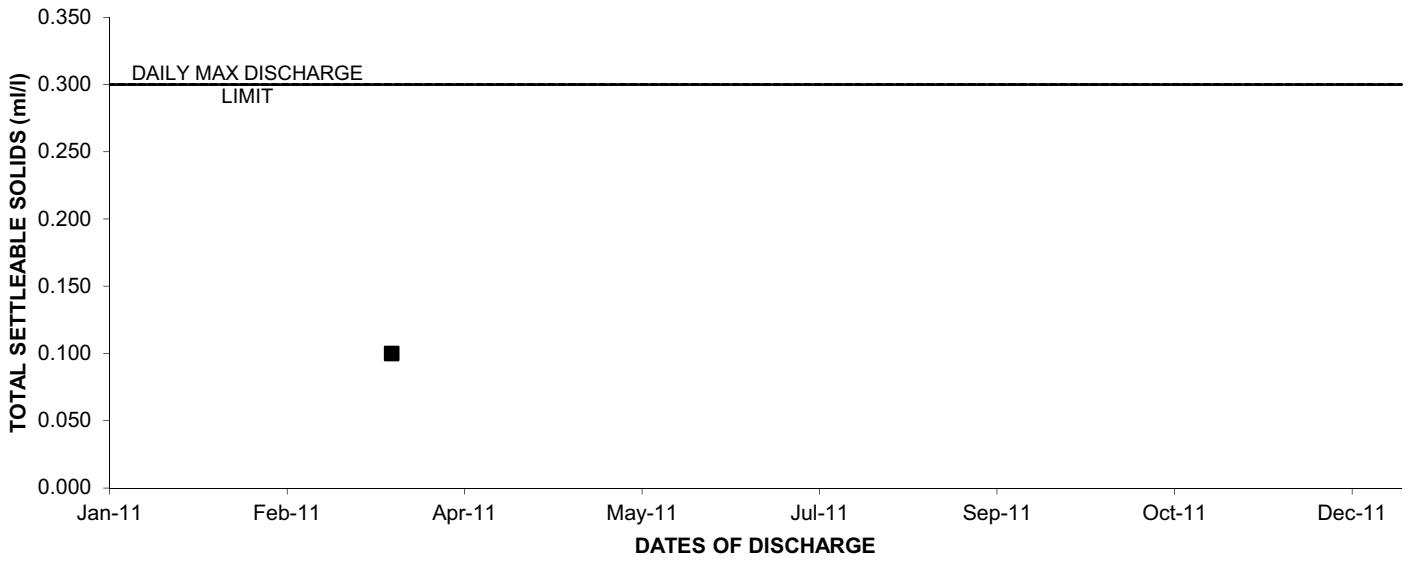
### 2011: OUTFALL 001 TOTAL DISSOLVED SOLIDS



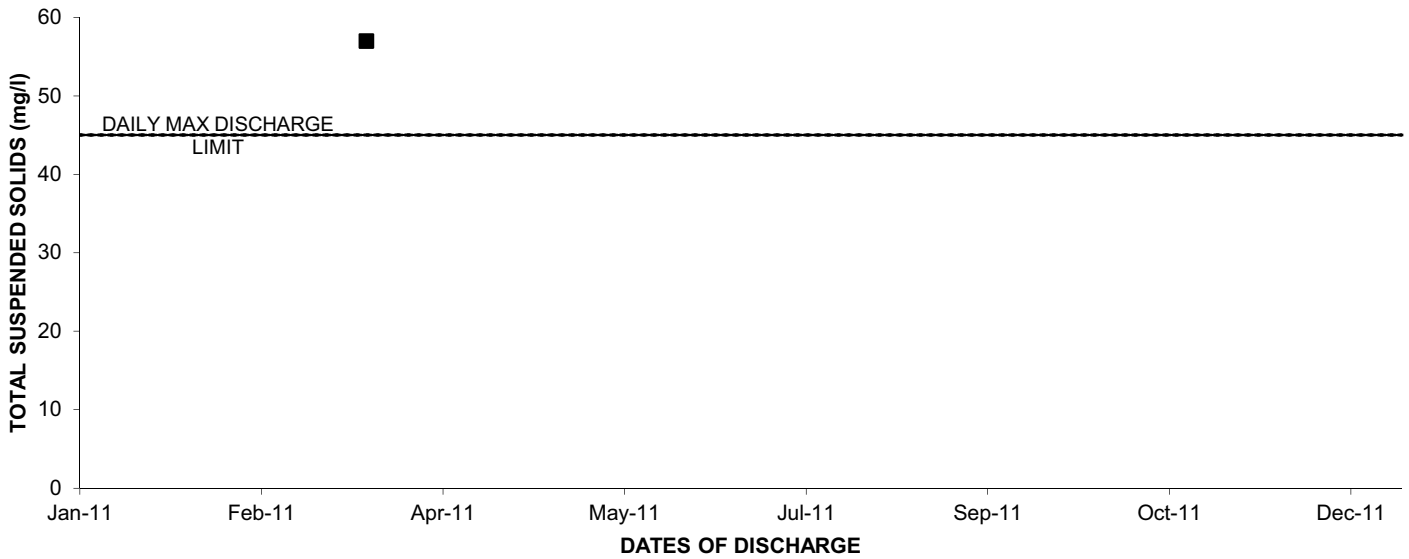
### 2011: OUTFALL 001 TOTAL RESIDUAL CHLORINE (FIELD)



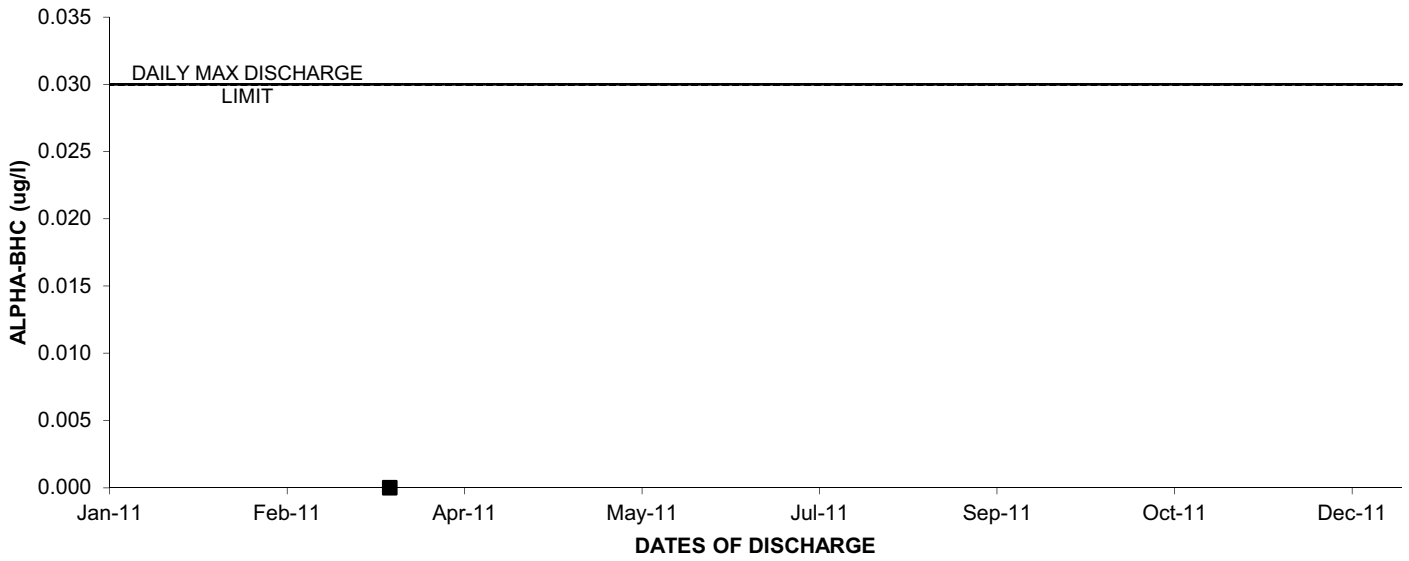
### 2011: OUTFALL 001 TOTAL SETTLEABLE SOLIDS



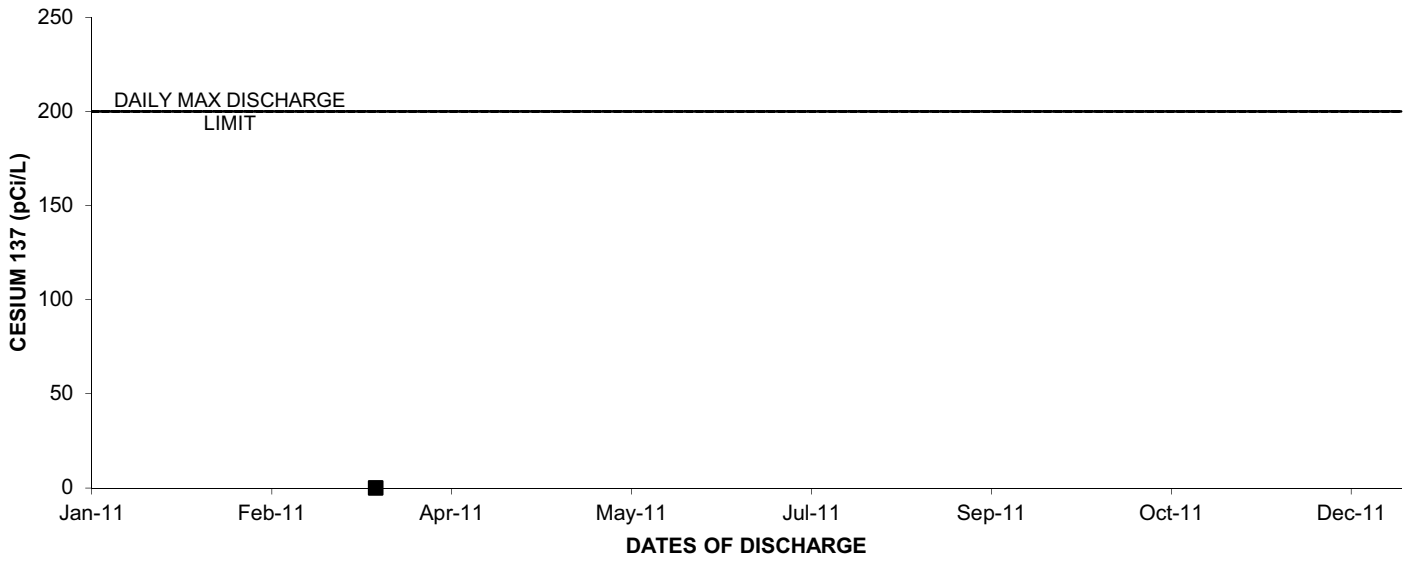
### 2011: OUTFALL 001 TOTAL SUSPENDED SOLIDS



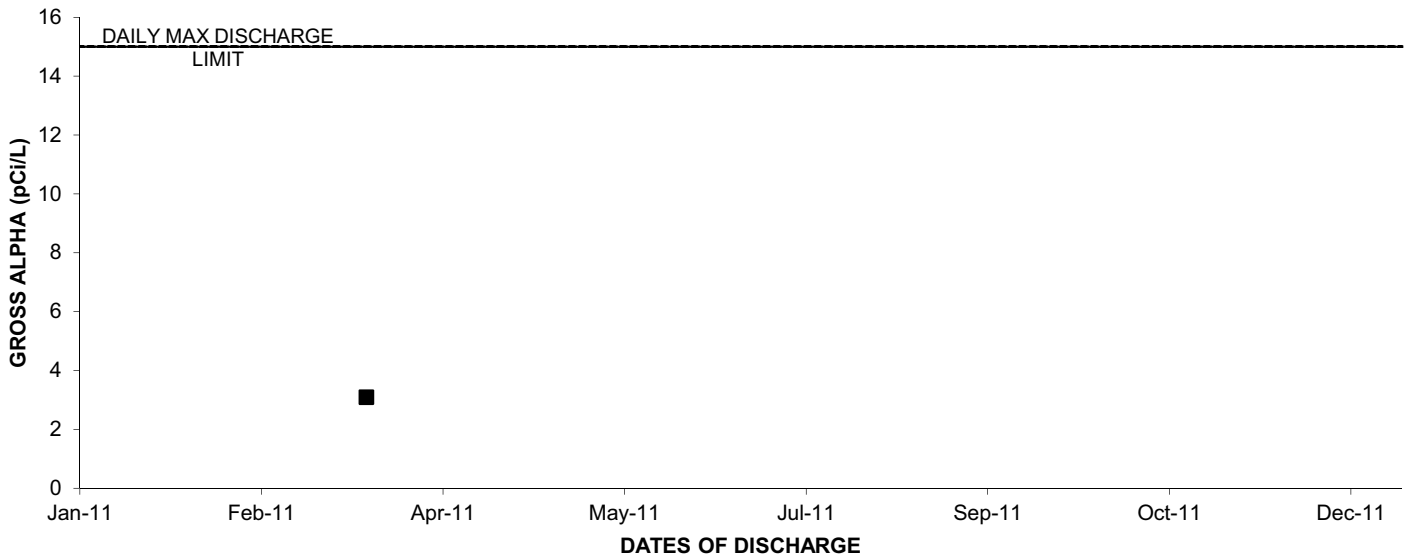
### 2011: OUTFALL 001 ALPHA-BHC



### 2011: OUTFALL 001 CESIUM 137

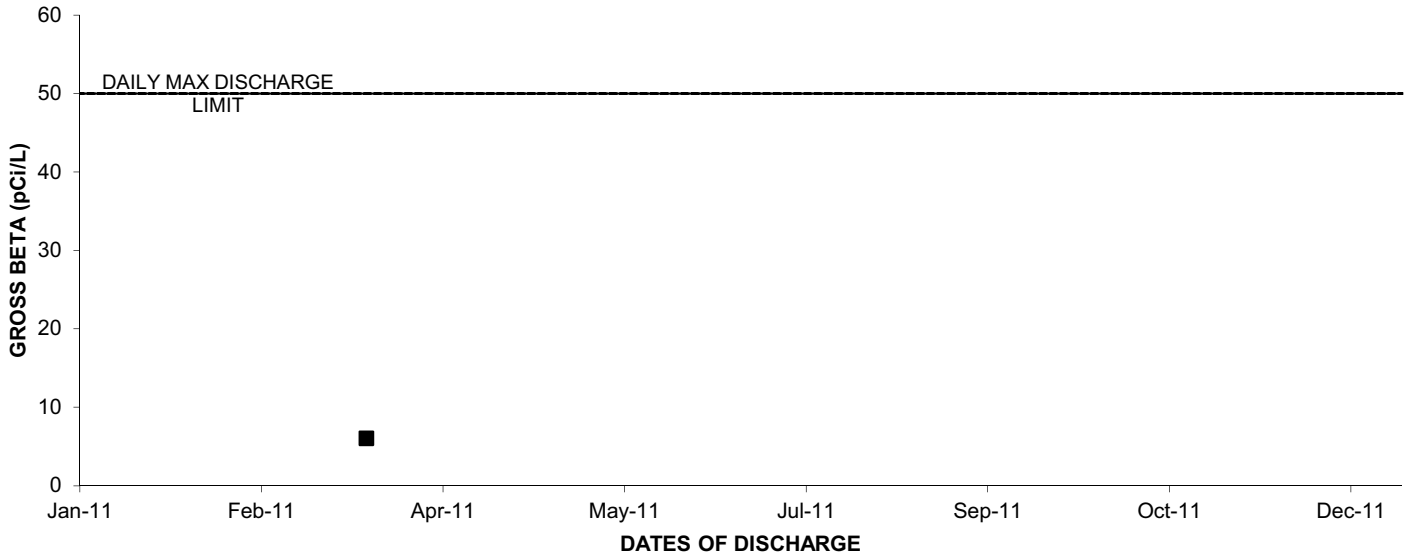


### 2011: OUTFALL 001 GROSS ALPHA

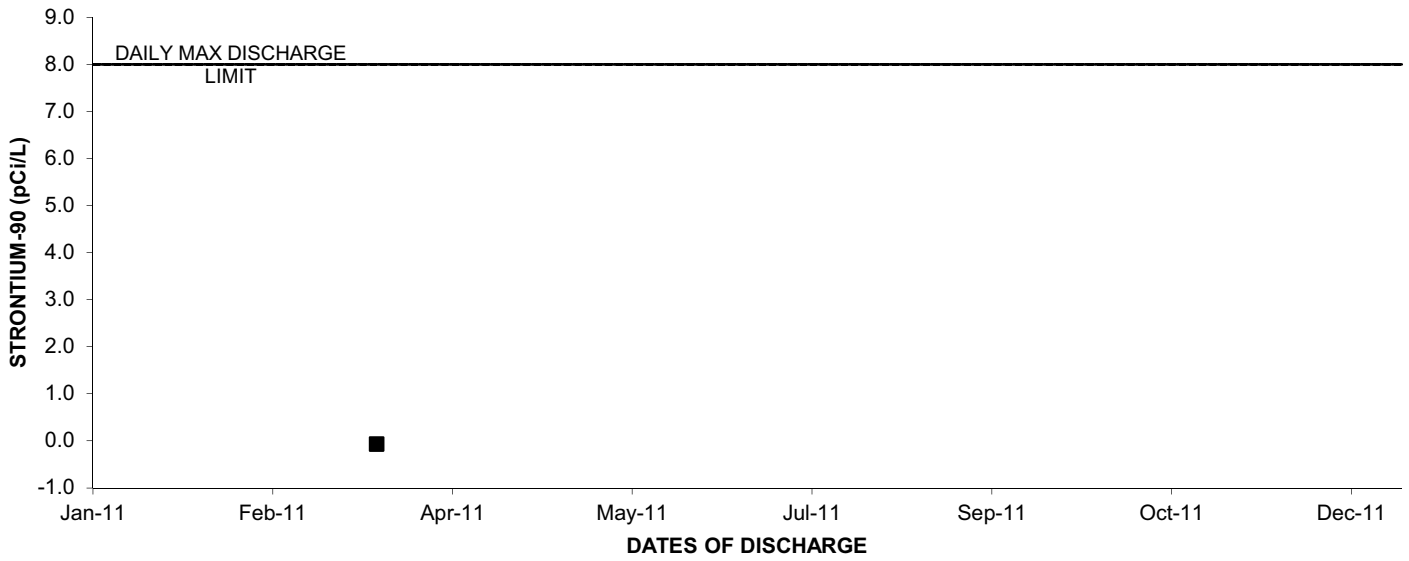




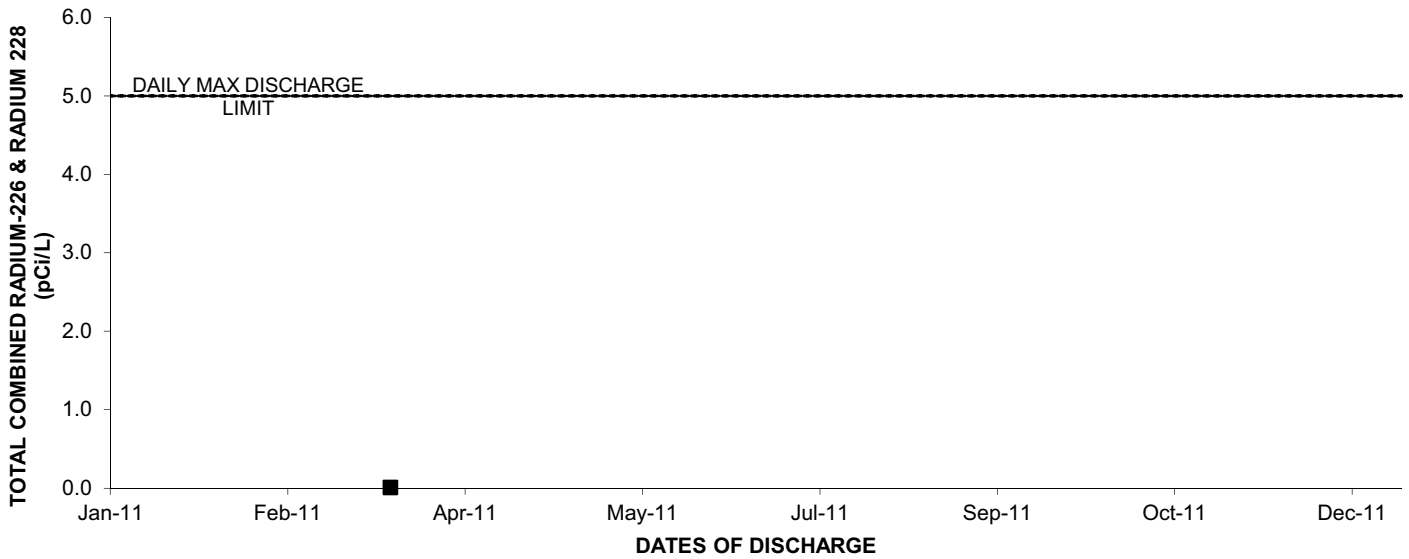
### 2011: OUTFALL 001 GROSS BETA



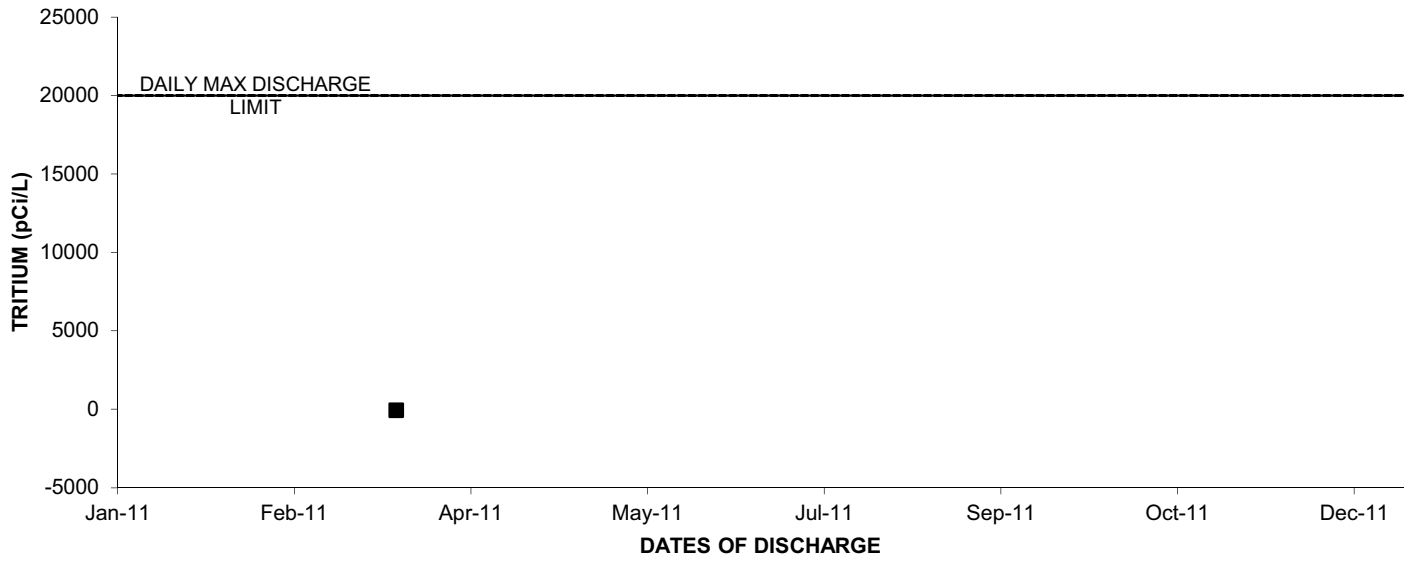
### 2011: OUTFALL 001 STRONTIUM-90



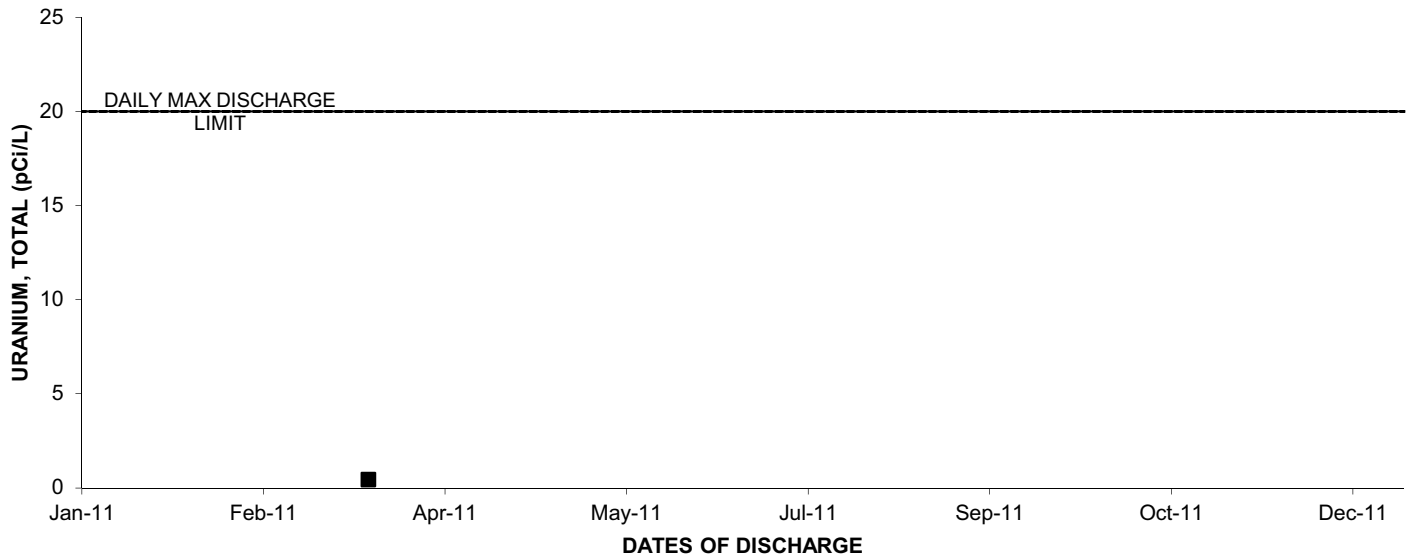
### 2011: OUTFALL 001 TOTAL COMBINED RADIUM-226 & RADIUM 228



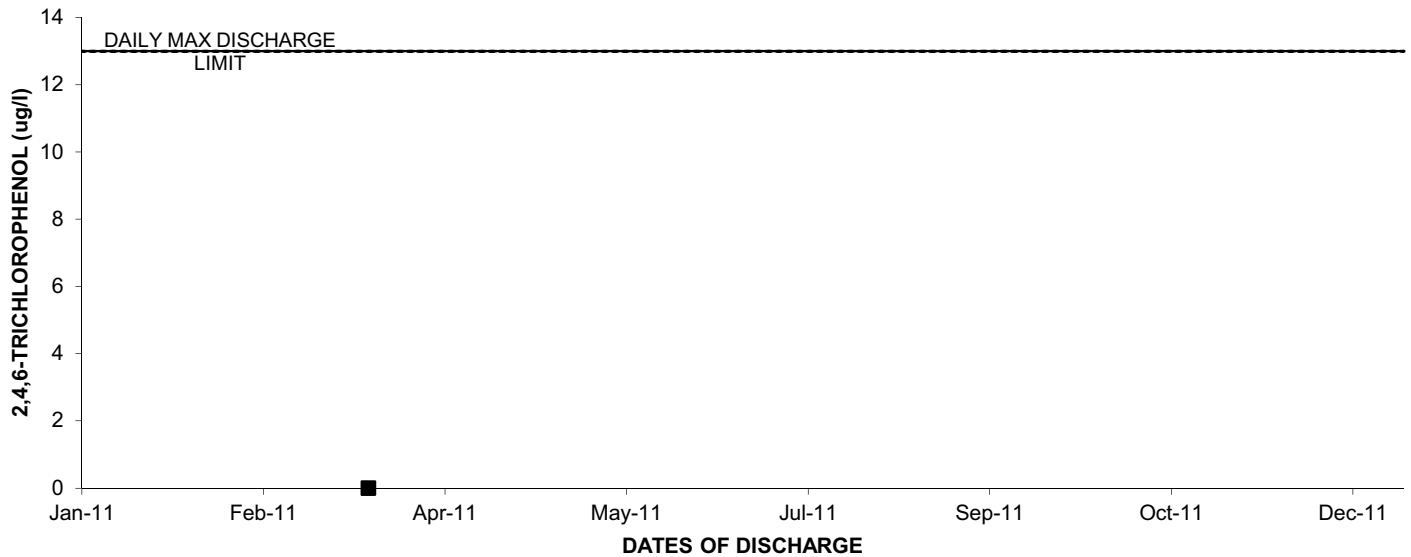
### 2011: OUTFALL 001 TRITIUM



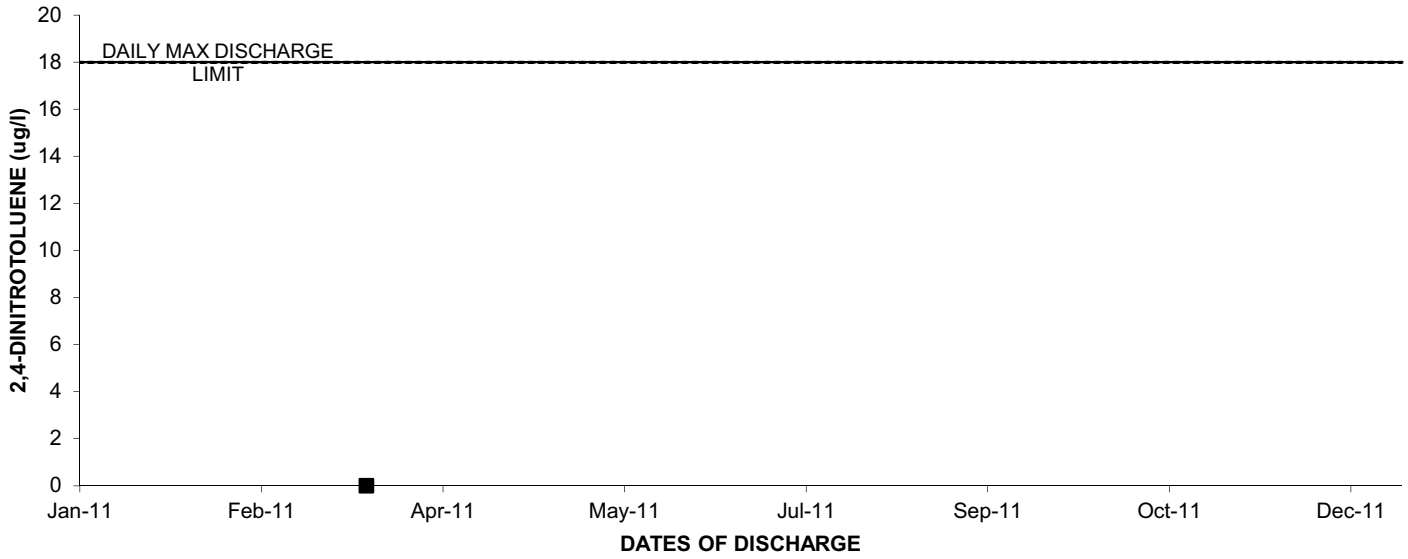
### 2011: OUTFALL 001 URANIUM, TOTAL



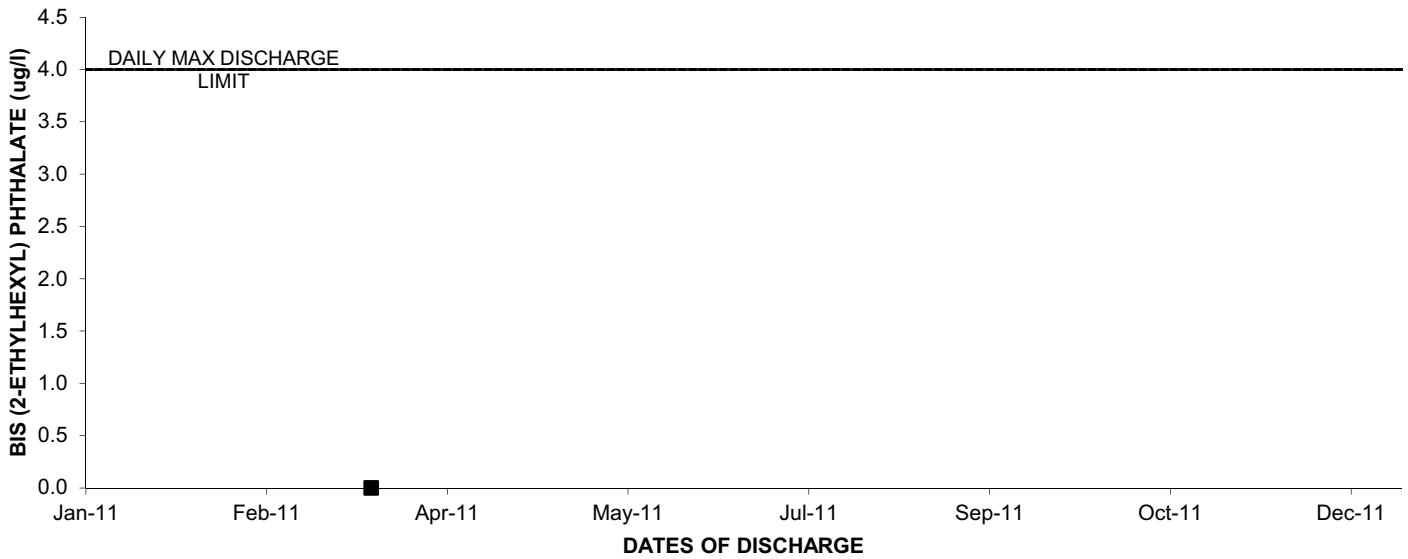
### 2011: OUTFALL 001 2,4,6-TRICHLOROPHENOL



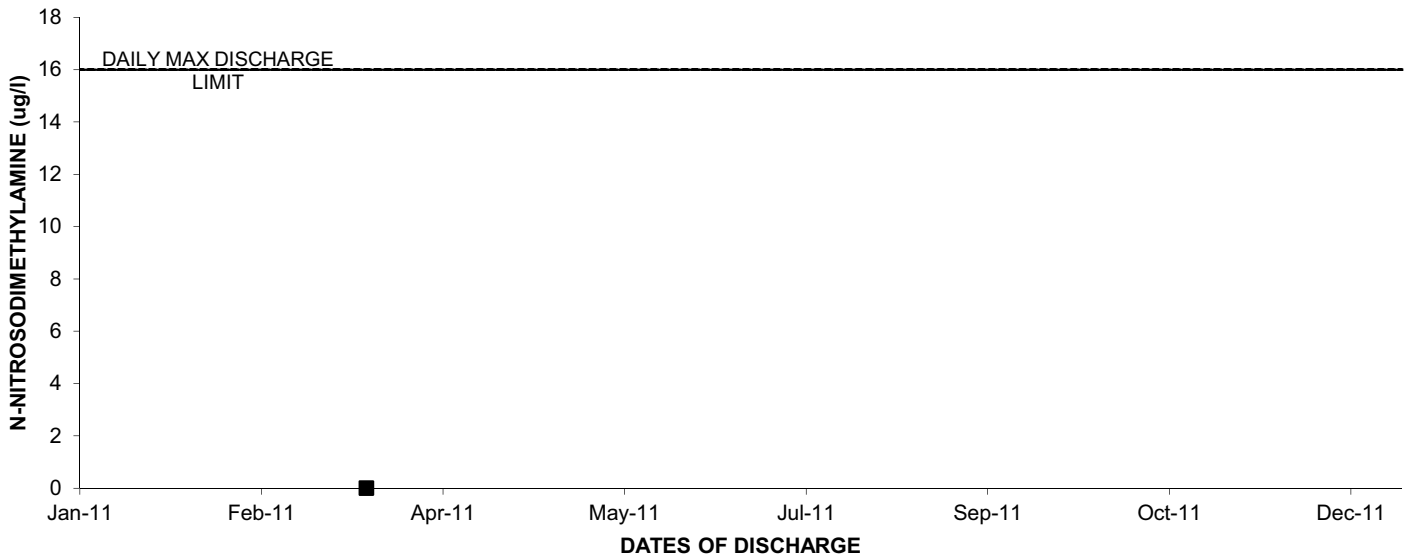
### 2011: OUTFALL 001 2,4-DINITROTOLUENE



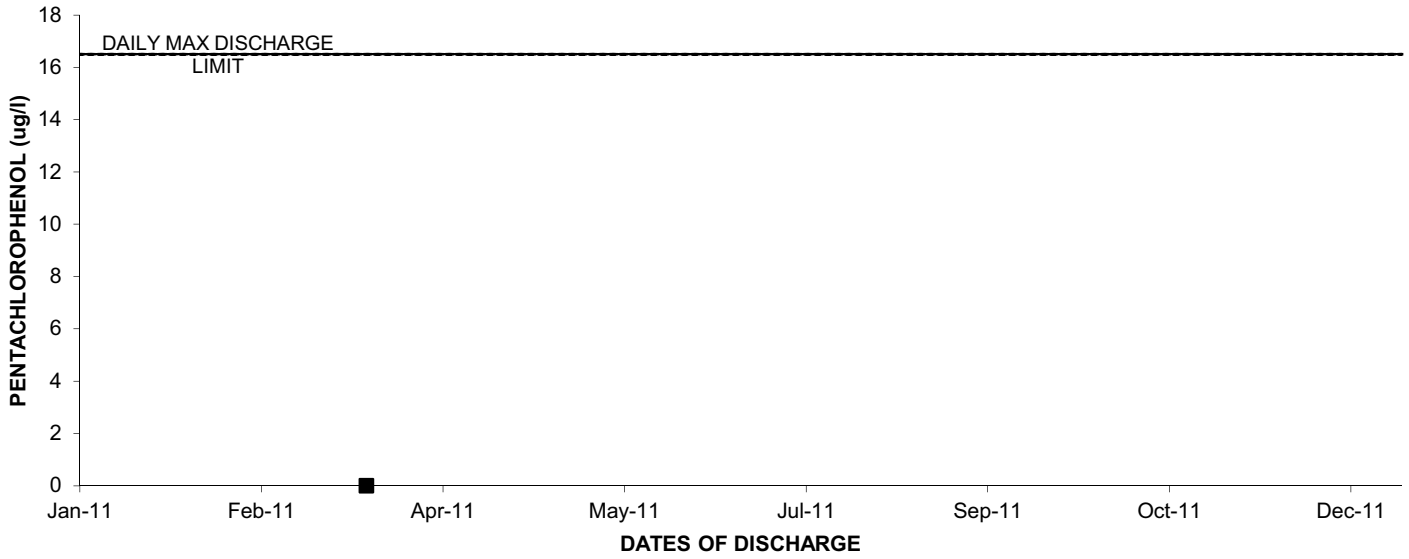
### 2011: OUTFALL 001 BIS (2-ETHYLHEXYL) PHTHALATE



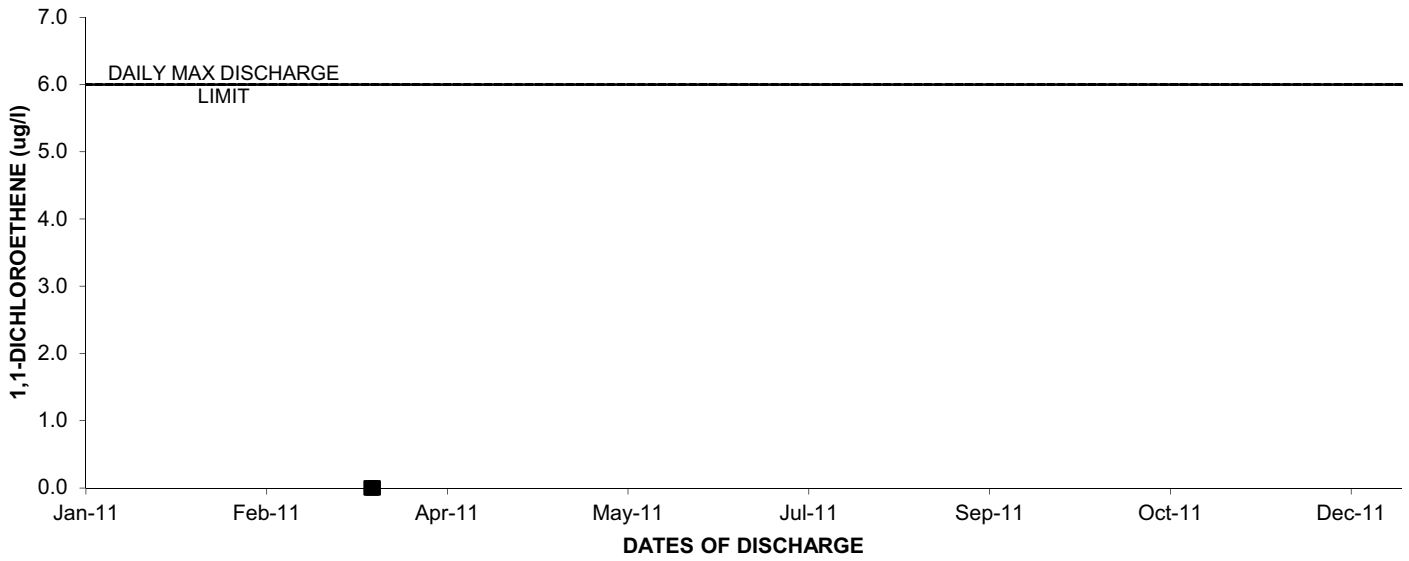
### 2011: OUTFALL 001 N-NITROSODIMETHYLAMINE



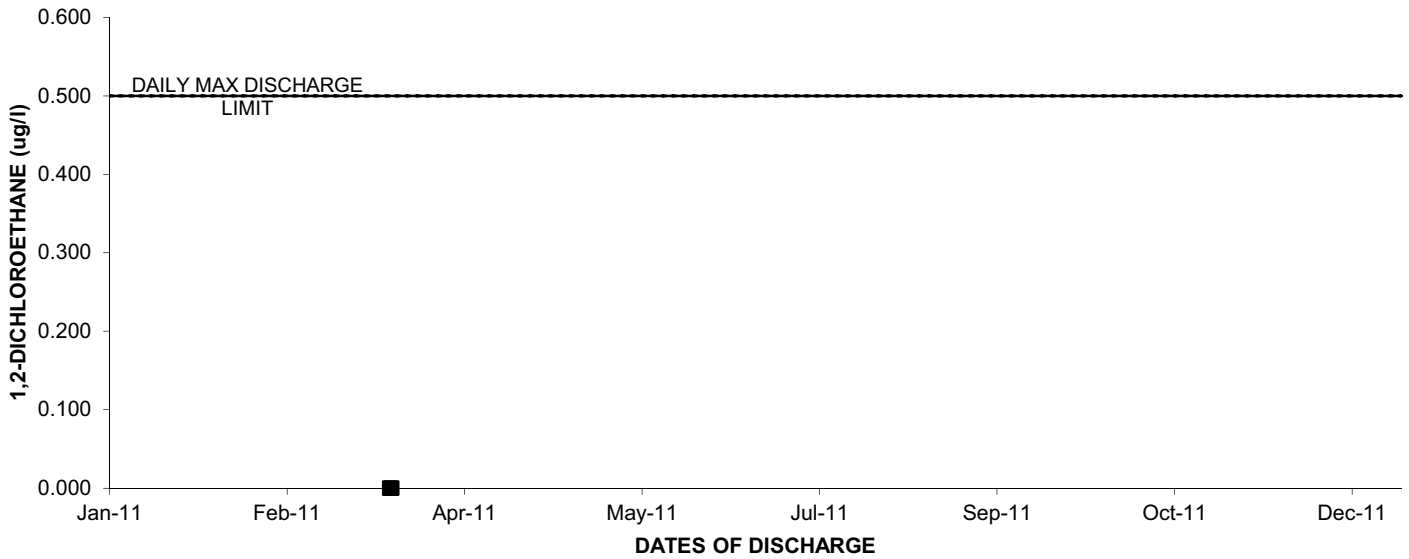
### 2011: OUTFALL 001 PENTACHLOROPHENOL



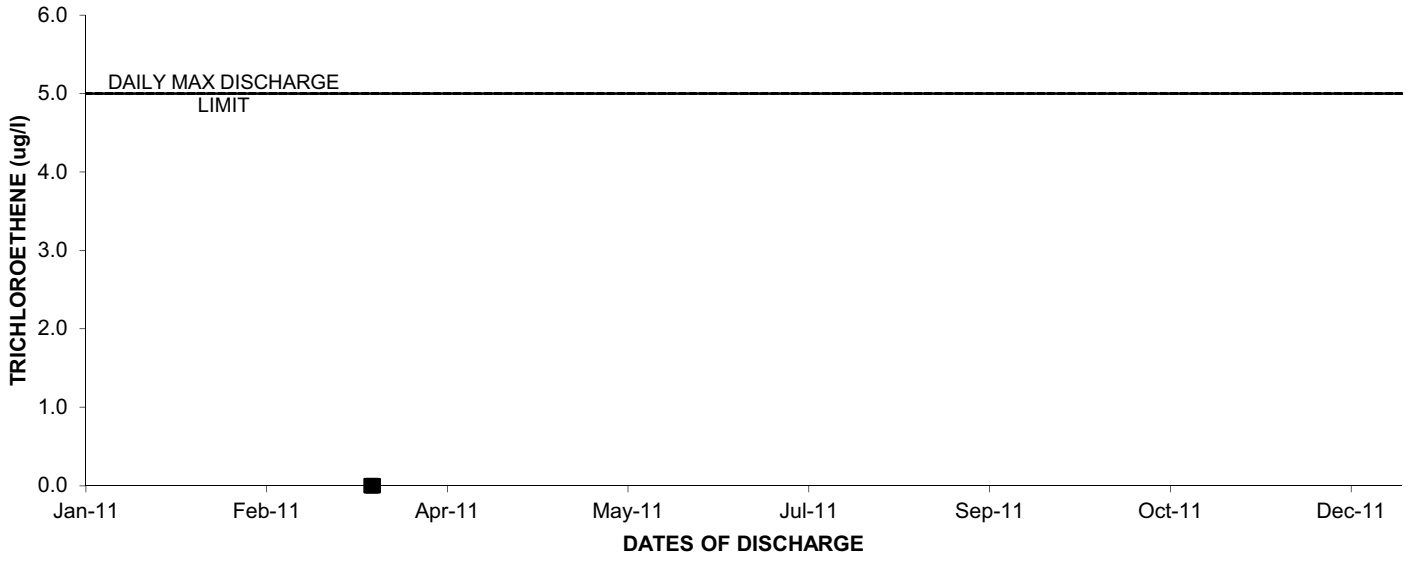
### 2011: OUTFALL 001 1,1-DICHLOROETHENE



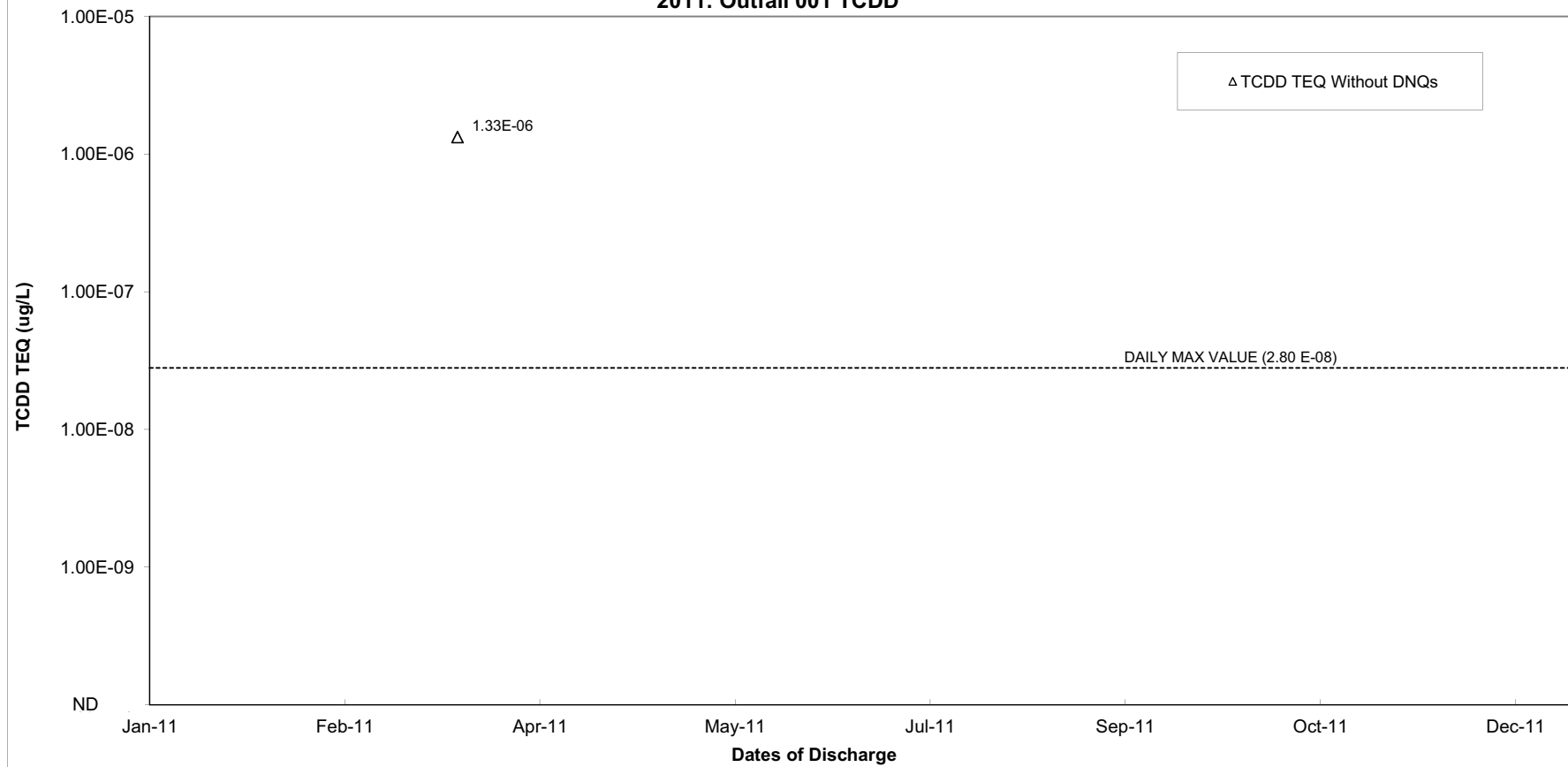
### 2011: OUTFALL 001 1,2-DICHLOROETHANE



2011: OUTFALL 001 TRICHLOROETHENE



### 2011: Outfall 001 TCDD



SECTION 2

OUTFALL 002 (SOUTH SLOPE BELOW R-2 POND)  
ANNUAL 2011 REPORTING SUMMARY

OUTFALL 002 (South Slope below R-2 Pond)

ANNUAL 2011 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309

January 1 through December 31, 2011

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	1/3/2011 <sup>(a)</sup>			2/19/2011		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Ammonia as Nitrogen (N)	mg/L	10.1/-	Comp	ND < 0.500	*	Comp	ND < 0.500	*
Biochemical Oxygen Demand (BOD 5 day)	mg/L	30/-	Comp	1.3	Ja* (DNQ)	Comp	2.0	*
Chloride	mg/L	150/-	Comp	28	*	Comp	16	*
Dissolved Oxygen	mg/L	-/-	ANR	50	*	Grab	8.45	*
E. Coli	MPN/100 ml	-/-	ANR	ANR	ANR	Grab	50.0	*
Fecal Coliform	MPN/100 ml	-/-	ANR	ANR	ANR	Grab	50.0	*
Specific Conductivity (Lab)	umhos/cm	-/-	Grab	700	--	Grab	500	--
Surfactants (MBAS)	mg/L	0.5/-	Comp	0.053	Ja* (DNQ)	Comp	ND < 0.050	*
Fluoride	mg/L	1.6/-	ANR	ANR	ANR	Comp	0.33	*
Nitrate + Nitrite as Nitrogen (N)	mg/L	8/-	Comp	ND < 0.15	*	Comp	0.15	Ja* (DNQ)
Nitrate as Nitrogen (N)	mg/L	8/-	Comp	0.12	*	Comp	0.15	*
Nitrite-N	mg/L	1/-	Comp	ND < 0.090	*	Comp	ND < 0.090	*
Oil & Grease	mg/L	15/-	Grab	ND < 1.3	*	Grab	ND < 1.3	*
Perchlorate	ug/L	6.0/-	Comp	ND < 0.90	*	Comp	ND < 0.90	*
pH (Field)	pH units	6.5-8.5/-	Grab	7.3	*	Grab	7.1	*
Total Settleable Solids	ml/L	0.3/-	Grab	ND < 0.10	*	Grab	ND < 0.10	*
Sulfate	mg/L	300/-	Comp	140	*	Comp	84	*
Temperature	deg. F	86/-	Grab	42	*	Grab	44	*
Total Cyanide	ug/L	8.5/-	Comp	ND < 2.2	*	Comp	ND < 2.2	*
Total Dissolved Solids	mg/L	950/-	Comp	450	*	Comp	310	*
Hardness	mg/L	-/-	ANR	ANR	ANR	Comp	150	--
Hardness, dissolved	mg/L	-/-	ANR	ANR	ANR	Comp	150	--
Total Organic Carbon	mg/L	-/-	ANR	ANR	ANR	Comp	8.8	--
Total Residual Chlorine (Field)	mg/L	0.1/-	ANR	ANR	ANR	Grab	0.0	*
Total Suspended Solids	mg/L	45/-	Comp	ND < 1.0	*	Comp	12	*
Turbidity	NTU	-/-	Comp	0.68	J (DNQ)	Comp	26	--
Volume Discharged	MGD	160/-	Meas	0.008565	*	Meas	0.288645	*
<b>METALS</b>								
Antimony	ug/L	6.0/-	ANR	ANR	ANR	Comp	ND < 0.30	*
Antimony, dissolved	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.30	*
Arsenic	ug/L	10/-	ANR	ANR	ANR	Comp	ND < 7.0	U
Arsenic, dissolved	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 7.0	U
Barium	mg/L	1.0/-	ANR	ANR	ANR	Comp	0.034	--
Barium, dissolved	mg/L	-/-	ANR	ANR	ANR	Comp	0.031	--
Beryllium	ug/L	4.0/-	ANR	ANR	ANR	Comp	ND < 0.90	U
Beryllium, dissolved	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.90	U
Boron	mg/L	-/-	ANR	ANR	ANR	Comp	0.069	--
Boron, dissolved	mg/L	-/-	ANR	ANR	ANR	Comp	0.076	--
Cadmium	ug/L	(4.0) 3.1/-	Comp	ND < 0.10	*	Comp	ND < 0.10	*
Cadmium, dissolved	ug/L	-/-	Comp	ND < 0.10	*	Comp	ND < 0.10	*
Calcium	mg/L	-/-	ANR	ANR	ANR	Comp	43	--
Calcium, Dissolved	mg/L	-/-	ANR	ANR	ANR	Comp	38	--
Chromium	ug/L	16/-	ANR	ANR	ANR	Comp	ND < 2.0	U
Chromium, dissolved	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 2.0	U
Chromium VI	ug/L	16/-	ANR	ANR	ANR	Comp	ND < 0.250	*
Cobalt	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 2.0	U
Cobalt, dissolved	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 2.0	U
Copper	ug/L	14/-	Comp	2.51	*	Comp	4.63	*
Copper, dissolved	ug/L	-/-	Comp	1.75	Ja* (DNQ)	Comp	1.83	Ja* (DNQ)
Iron	mg/L	0.3/-	Comp	0.024	Ja* (DNQ)	Comp	0.97	--

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling events are dry discharges.



OUTFALL 002 (South Slope below R-2 Pond)

ANNUAL 2011 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309

January 1 through December 31, 2011

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	1/3/2011 <sup>(a)</sup>			2/19/2011		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Iron, dissolved	mg/L	-/-	Comp	ND < 0.015	*	Comp	0.043	--
Lead	ug/L	5.2/-	Comp	ND < 0.200	*	Comp	0.53	Ja* (DNQ)
Lead, dissolved	ug/L	-/-	Comp	ND < 0.200	*	Comp	ND < 0.20	*
Magnesium	mg/L	-/-	ANR	ANR	ANR	Comp	11	--
Magnesium, Dissolved	mg/L	-/-	ANR	ANR	ANR	Comp	14	--
Manganese	ug/L	50/-	Comp	ND < 7.0	*	Comp	32	--
Manganese, dissolved	ug/L	-/-	Comp	ND < 7.0	*	Comp	ND < 7.0	U
Mercury	ug/L	0.10/-	Comp	ND < 0.10	U	Comp	ND < 0.10	U
Mercury, dissolved	ug/L	-/-	Comp	ND < 0.10	U	Comp	ND < 0.10	U
Nickel	ug/L	96/-	ANR	ANR	ANR	Comp	ND < 2.0	U
Nickel, dissolved	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 2.0	U
Selenium	ug/L	(5) 8.2/-	Comp	0.61	Ja* (DNQ)	Comp	ND < 0.50	*
Selenium, dissolved	ug/L	-/-	Comp	ND < 0.50	*	Comp	ND < 0.50	*
Silver	ug/L	4.1/-	ANR	ANR	ANR	Comp	ND < 0.10	*
Silver, dissolved	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.10	*
Thallium	ug/L	2.0/-	ANR	ANR	ANR	Comp	ND < 0.20	*
Thallium, dissolved	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.20	*
Vanadium	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 3.0	U
Vanadium, dissolved	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 3.0	U
Zinc	ug/L	119/-	Comp	ND < 6.00	*	Comp	7.68	J (DNQ)
Zinc, Dissolved	ug/L	-/-	Comp	11.7	Ja* (DNQ)	Comp	ND < 6.00	U
<b>ORGANICS</b>								
Benzene	ug/L	-/-	Grab	ND < 0.28	*	Grab	ND < 0.28	U
Carbon Tetrachloride	ug/L	-/-	Grab	ND < 0.28	*	Grab	ND < 0.28	U
Chloroform	ug/L	-/-	Grab	ND < 0.33	*	Grab	ND < 0.33	U
1,1-Dichloroethane	ug/L	-/-	Grab	ND < 0.40	*	Grab	ND < 0.40	U
1,2-Dichloroethane	ug/L	0.5/-	Grab	ND < 0.28	*	Grab	ND < 0.28	U
1,1-Dichloroethene	ug/L	6.0/-	Grab	ND < 0.42	*	Grab	ND < 0.42	U
1,4-Dioxane	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 2.0	U (B)
Ethylbenzene	ug/L	-/-	Grab	ND < 0.25	*	Grab	ND < 0.25	U
Tetrachloroethene	ug/L	-/-	Grab	ND < 0.32	*	Grab	ND < 0.32	U
Toluene	ug/L	-/-	Grab	ND < 0.36	*	Grab	ND < 0.36	U
Xylenes (Total)	ug/L	-/-	Grab	ND < 0.90	*	Grab	ND < 0.90	*
1,1,1-Trichloroethane	ug/L	-/-	Grab	ND < 0.30	*	Grab	ND < 0.30	U
1,1,2-Trichloroethane	ug/L	-/-	Grab	ND < 0.30	*	Grab	ND < 0.30	U
Trichloroethene	ug/L	5.0/-	Grab	ND < 0.26	*	Grab	1.8	--
Trichlorofluoromethane	ug/L	-/-	Grab	ND < 0.34	*	Grab	ND < 0.34	*
Trichlorotrifluoroethane (Freon 113)	ug/L	-/-	Grab	ND < 0.50	*	Grab	ND < 0.50	U
Vinyl Chloride	ug/L	-/-	Grab	ND < 0.40	*	Grab	ND < 0.40	U
<b>TPH</b>								
DRO (C13 - C28)	mg/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	*
GRO (C4 - C12)	mg/L	-/-	ANR	ANR	ANR	Grab	ND < 0.025	*
<b>ADDITIONAL ANALYTES</b>								
1,2-Dichloro-1,1,2-trifluoroethane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 1.1	U
1,1,1,2-Tetrachloroethane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.30	U
1,2,4-Trichlorobenzene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	U
1,2-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	U
1,2-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.32	U
1,2-Dichloropropane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.35	U
1,2-Diphenylhydrazine/Azobenzene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	UJ (C)
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	U

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling events are dry discharges.

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ANNUAL 2011 REPORTING SUMMARY  
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SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309

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ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	1/3/2011 <sup>(a)</sup>			2/19/2011		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.35	U
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.37	U
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.189	U
2,4,6-Trichlorophenol	ug/L	13/-	Comp	ND < 0.0952	*	Comp	ND < 0.0943	U
2,4-Dichlorophenol	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.189	U
2,4-Dimethylphenol	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.283	U
2,4-Dinitrophenol	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.849	U
2,4-Dinitrotoluene	ug/L	18/-	Comp	ND < 0.190	*	Comp	ND < 0.189	U
2,6-Dinitrotoluene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	U
2-Chloroethylvinylether	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 1.8	U
2-Chloronaphthalene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	U
2-Chlorophenol	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.189	U
2-Methyl-4,6-dinitrophenol	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.189	U
2-Nitrophenol	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	U
3,3'-Dichlorobenzidine	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 4.72	U
4,4'-DDD	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0040	*
4,4'-DDE	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0030	*
4,4'-DDT	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0040	*
4-Bromophenylphenylether	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	U
4-Chloro-3-methylphenol	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.189	U
4-Chlorophenylphenylether	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	U
4-Nitrophenol	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 2.36	U
Acenaphthene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	U
Acenaphthylene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	U
Acrolein	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 4.0	U
Acrylonitrile	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 1.2	U
Acute Toxicity	% SURVIVAL	70-100/-	ANR	ANR	ANR	Grab	100	--
Aldrin	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0015	*
alpha-BHC	ug/L	0.03/-	Comp	ND < 0.0024	*	Comp	ND < 0.0025	*
Anthracene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	U
Aroclor-1016	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.25	*
Aroclor-1221	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.25	*
Aroclor-1232	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.25	*
Aroclor-1242	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.25	*
Aroclor-1248	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.25	*
Aroclor-1254	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.25	*
Aroclor-1260	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.25	*
Benzdine	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 4.72	R (L)
Benzo(a)anthracene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	U
Benzo(a)pyrene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	U
Benzo(b)fluoranthene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	U
Benzo(g,h,i)perylene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	UJ (*III)
Benzo(k)fluoranthene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	U
beta-BHC	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0040	*
bis (2-Chloroethyl) ether	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	UJ (*III)
bis (2-ethylhexyl) Phthalate	ug/L	4.0/-	Comp	ND < 1.62	*	Comp	ND < 1.60	UJ (*III)
bis(2-Chloroethoxy) methane	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	U
bis(2-Chloroisopropyl) ether	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	U
Bromodichloromethane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.30	U
Bromoform	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.40	U
Bromomethane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.42	U

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling events are dry discharges.

OUTFALL 002 (South Slope below R-2 Pond)

ANNUAL 2011 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309

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ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	1/3/2011 <sup>(a)</sup>			2/19/2011		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Butylbenzylphthalate	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.660	U
Chlordane	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.079	*
Chlorobenzene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.36	U
Chloroethane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.40	U
Chloromethane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.40	U
Chronic Toxicity	TUC	1.0/-	ANR	ANR	ANR	ANR	ANR	ANR
Chrysene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	U
cis-1,2-Dichloroethene	ug/L	-/-	ANR	ANR	ANR	Grab	3.0	--
cis-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.22	U
Cyclohexane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.40	U
delta-BHC	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0035	*
Dibenzo(a,h)anthracene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	U
Dibromochloromethane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.40	U
Dieldrin	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0020	*
Diethylphthalate	ug/L	-/-	ANR	ANR	ANR	Comp	0.245	J (DNQ)
Dimethylphthalate	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	U
Di-n-butylphthalate	ug/L	-/-	ANR	ANR	ANR	Comp	0.396	J (DNQ)
Di-n-octylphthalate	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	U
Endosulfan I	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0020	*
Endosulfan II	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0030	*
Endosulfan sulfate	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0030	*
Endrin	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0020	*
Endrin aldehyde	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0020	*
Fluoranthene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	U
Fluorene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	U
Heptachlor	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0030	*
Heptachlor epoxide	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0025	L*
Hexachlorobenzene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	U
Hexachlorobutadiene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.189	U
Hexachlorocyclopentadiene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	U
Hexachloroethane	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.189	U
Hydrazine	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.439	U
Unsymmetrical Dimethyl Hydrazine	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 1.13	U
Indeno(1,2,3-cd)pyrene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	U
Isophorone	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	U
Lindane (gamma-BHC)	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0030	*
Methylene Chloride	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.95	U
Monomethyl Hydrazine	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 1.77	U
Naphthalene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	U
Nitrobenzene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	U
n-Nitrosodimethylamine	ug/L	16/-	Comp	ND < 0.0952	*	Comp	ND < 0.0943	U
n-Nitroso-di-n-propylamine	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	U
n-Nitrosodiphenylamine	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	U
Pentachlorophenol	ug/L	16.5/-	Comp	ND < 0.0952	*	Comp	ND < 0.0943	U
Phenanthrene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	U
Phenol	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.283	U
Pyrene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0943	U
Toxaphene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.25	*
trans-1,2-Dichloroethene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.30	U
trans-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.32	U

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**OUTFALL 002 (South Slope below R-2 Pond)**

**ANNUAL 2011 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

January 1 through December 31, 2011

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	02/25/2011-02/26/2011			3/3/2011 <sup>(a)</sup>		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Ammonia as Nitrogen (N)	mg/L	10.1/-	Comp	ND < 0.500	*	Comp	ND < 0.500	*
Biochemical Oxygen Demand (BOD 5 day)	mg/L	30/-	Comp	ND < 0.50	*	Comp	1.2	Ja* (DNQ)
Chloride	mg/L	150/-	Comp	20	*	Comp	21	MHA*
Dissolved Oxygen	mg/L	-/-	Grab	8.30	*	Grab	7.96	*
E. Coli	MPN/100 ml	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Fecal Coliform	MPN/100 ml	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Specific Conductivity (Lab)	umhos/cm	-/-	Grab	440	--	Grab	590	--
Surfactants (MBAS)	mg/L	0.5/-	Comp	0.20	*	Comp	ND < 0.050	*
Fluoride	mg/L	1.6/-	ANR	ANR	ANR	ANR	ANR	ANR
Nitrate + Nitrite as Nitrogen (N)	mg/L	8/-	Comp	ND < 0.15	*	Comp	ND < 0.15	*
Nitrate as Nitrogen (N)	mg/L	8/-	Comp	0.14	*	Comp	0.096	Ja* (DNQ)
Nitrite-N	mg/L	1/-	Comp	ND < 0.090	*	Comp	ND < 0.090	*
Oil & Grease	mg/L	15/-	Grab	ND < 1.3	*	Grab	ND < 1.3	*
Perchlorate	ug/L	6.0/-	Comp	ND < 0.90	*	Comp	ND < 0.90	*
pH (Field)	pH units	6.5-8.5/-	Grab	7.3	*	Grab	7.4	*
Total Settleable Solids	ml/L	0.3/-	Grab	ND < 0.10	*	Grab	ND < 0.10	*
Sulfate	mg/L	300/-	Comp	92	*	Comp	110	MHA*
Temperature	deg. F	86/-	Grab	42	*	Grab	49	*
Total Cyanide	ug/L	8.5/-	Comp	ND < 2.2	*	Comp	ND < 2.2	*
Total Dissolved Solids	mg/L	950/-	Comp	370	*	Comp	380	*
Hardness	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Hardness, dissolved	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Total Organic Carbon	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Total Residual Chlorine (Field)	mg/L	0.1/-	ANR	ANR	ANR	ANR	ANR	ANR
Total Suspended Solids	mg/L	45/-	Comp	3.0	J* (DNQ)	Comp	1.0	Ja* (DNQ)
Turbidity	NTU	-/-	Comp	9.8	--	Comp	1.3	--
Volume Discharged	MGD	160/-	Meas	0.47393	*	Meas	0.10741	*
<b>METALS</b>								
Antimony	ug/L	6.0/-	ANR	ANR	ANR	ANR	ANR	ANR
Antimony, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Arsenic	ug/L	10/-	ANR	ANR	ANR	ANR	ANR	ANR
Arsenic, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Barium	mg/L	1.0/-	ANR	ANR	ANR	ANR	ANR	ANR
Barium, dissolved	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Beryllium	ug/L	4.0/-	ANR	ANR	ANR	ANR	ANR	ANR
Beryllium, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Boron	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Boron, dissolved	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Cadmium	ug/L	(4.0) 3.1/-	Comp	ND < 0.10	*	Comp	ND < 0.10	*
Cadmium, dissolved	ug/L	-/-	Comp	ND < 0.10	*	Comp	ND < 0.10	*
Calcium	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Calcium, Dissolved	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Chromium	ug/L	16/-	ANR	ANR	ANR	ANR	ANR	ANR
Chromium, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Chromium VI	ug/L	16/-	ANR	ANR	ANR	ANR	ANR	ANR
Cobalt	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Cobalt, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Copper	ug/L	14/-	Comp	2.3	*	Comp	2.3	*
Copper, dissolved	ug/L	-/-	Comp	0.77	J* (DNQ)	Comp	1.4	Ja* (DNQ)
Iron	mg/L	0.3/-	Comp	0.49	--	Comp	0.042	B*

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling events are dry discharges.

OUTFALL 002 (South Slope below R-2 Pond)

ANNUAL 2011 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309

January 1 through December 31, 2011

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	02/25/2011-02/26/2011			3/3/2011 <sup>(a)</sup>		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Iron, dissolved	mg/L	-/-	Comp	0.063	--	Comp	ND < 0.015	*
Lead	ug/L	5.2/-	Comp	0.24	J* (DNQ)	Comp	ND < 0.20	*
Lead, dissolved	ug/L	-/-	Comp	ND < 0.20	*	Comp	ND < 0.20	C*
Magnesium	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Magnesium, Dissolved	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Manganese	ug/L	50/-	ANR	ANR	ANR	ANR	ANR	ANR
Manganese, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Mercury	ug/L	0.10/-	Comp	ND < 0.10	U	Comp	ND < 0.10	U
Mercury, dissolved	ug/L	-/-	Comp	ND < 0.10	U	Comp	ND < 0.10	U
Nickel	ug/L	96/-	ANR	ANR	ANR	ANR	ANR	ANR
Nickel, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Selenium	ug/L	(5) 8.2/-	Comp	ND < 0.50	*	Comp	ND < 0.50	*
Selenium, dissolved	ug/L	-/-	Comp	ND < 0.50	*	Comp	ND < 0.50	*
Silver	ug/L	4.1/-	ANR	ANR	ANR	ANR	ANR	ANR
Silver, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Thallium	ug/L	2.0/-	ANR	ANR	ANR	ANR	ANR	ANR
Thallium, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Vanadium	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Vanadium, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Zinc	ug/L	119/-	Comp	ND < 6.00	U	Comp	ND < 6.00	*
Zinc, Dissolved	ug/L	-/-	Comp	7.68	J (DNQ)	Comp	6.2	Ja* (DNQ)
<b>ORGANICS</b>								
Benzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Carbon Tetrachloride	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Chloroform	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,1-Dichloroethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,2-Dichloroethane	ug/L	0.5/-	Grab	ND < 0.28	*	Grab	ND < 0.28	*
1,1-Dichloroethene	ug/L	6.0/-	Grab	ND < 0.42	*	Grab	ND < 0.42	*
1,4-Dioxane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Ethylbenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Tetrachloroethene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Toluene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Xylenes (Total)	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,1,1-Trichloroethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,1,2-Trichloroethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Trichloroethene	ug/L	5.0/-	Grab	0.86	J* (DNQ)	Grab	0.43	Ja* (DNQ)
Trichlorofluoromethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Trichlorotrifluoroethane (Freon 113)	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Vinyl Chloride	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
<b>TPH</b>								
DRO (C13 - C28)	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
GRO (C4 - C12)	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
<b>ADDITIONAL ANALYTES</b>								
1,2-Dichloro-1,1,2-trifluoroethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,1,2,2-Tetrachloroethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,2,4-Trichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,2-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,2-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,2-Dichloropropane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,2-Diphenylhydrazine/Azobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling events are dry discharges.

OUTFALL 002 (South Slope below R-2 Pond)

ANNUAL 2011 REPORTING SUMMARY  
 THE BOEING COMPANY  
 SANTA SUSANA FIELD LABORATORY  
 NPDES PERMIT CA0001309

January 1 through December 31, 2011

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	02/25/2011-02/26/2011			3/3/2011 <sup>(a)</sup>		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2,4,6-Trichlorophenol	ug/L	13/-	Comp	ND < 0.0943	*	Comp	ND < 0.0943	*
2,4-Dichlorophenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2,4-Dimethylphenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2,4-Dinitrophenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2,4-Dinitrotoluene	ug/L	18/-	Comp	ND < 0.189	*	Comp	ND < 0.189	*
2,6-Dinitrotoluene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2-Chloroethylvinylether	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2-Chloronaphthalene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2-Chlorophenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2-Methyl-4,6-dinitrophenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2-Nitrophenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
3,3'-Dichlorobenzidine	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
4,4'-DDD	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
4,4'-DDE	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
4,4'-DDT	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
4-Bromophenylphenylether	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
4-Chloro-3-methylphenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
4-Chlorophenylphenylether	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
4-Nitrophenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthylene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Acrolein	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Acrylonitrile	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Acute Toxicity	% SURVIVAL	70-100/-	ANR	ANR	ANR	ANR	ANR	ANR
Aldrin	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
alpha-BHC	ug/L	0.03/-	Comp	ND < 0.0024	*	Comp	ND < 0.0024	*
Anthracene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor-1016	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor-1221	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor-1232	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor-1242	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor-1248	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor-1254	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor-1260	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Ben-zidine	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)anthracene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)pyrene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(b)fluoranthene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(g,h,i)perylene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(k)fluoranthene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
beta-BHC	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
bis (2-Chloroethyl) ether	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
bis (2-ethylhexyl) Phthalate	ug/L	4.0/-	Comp	ND < 1.60	*	Comp	ND < 1.60	*
bis(2-Chloroethoxy) methane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
bis(2-Chloroisopropyl) ether	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Bromodichloromethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Bromoform	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Bromomethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling events are dry discharges.

OUTFALL 002 (South Slope below R-2 Pond)

ANNUAL 2011 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309

January 1 through December 31, 2011

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	02/25/2011-02/26/2011			3/3/2011 <sup>(a)</sup>		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Butylbenzylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Chlordane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Chlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Chloroethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Chloromethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Chronic Toxicity	TUC	1.0/-	ANR	ANR	ANR	ANR	ANR	ANR
Chrysene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
cis-1,2-Dichloroethene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
cis-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Cyclohexane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
delta-BHC	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzo(a,h)anthracene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Dibromochloromethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Dieldrin	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Diethylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Dimethylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Di-n-butylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Di-n-octylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Endosulfan I	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Endosulfan II	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Endosulfan sulfate	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Endrin	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Endrin aldehyde	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Fluoranthene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Fluorene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Heptachlor	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Heptachlor epoxide	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Hexachlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Hexachlorobutadiene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Hexachlorocyclopentadiene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Hexachloroethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Hydrazine	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Unsymmetrical Dimethyl Hydrazine	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Isophorone	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Lindane (gamma-BHC)	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Methylene Chloride	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Monomethyl Hydrazine	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Naphthalene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Nitrobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
n-Nitrosodimethylamine	ug/L	16/-	Comp	ND < 0.0943	*	Comp	ND < 0.0943	*
n-Nitroso-di-n-propylamine	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
n-Nitrosodiphenylamine	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Pentachlorophenol	ug/L	16.5/-	Comp	ND < 0.0943	*	Comp	ND < 0.0943	*
Phenanthrene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Phenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Pyrene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Toxaphene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
trans-1,2-Dichloroethene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
trans-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling events are dry discharges.

OUTFALL 002 (South Slope below R-2 Pond)

ANNUAL 2011 REPORTING SUMMARY  
 THE BOEING COMPANY  
 SANTA SUSANA FIELD LABORATORY  
 NPDES PERMIT CA0001309

January 1 through December 31, 2011

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	3/7/2011 <sup>(a)</sup>			3/20/2011		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Ammonia as Nitrogen (N)	mg/L	10.1/-	Comp	ND < 0.500	U	Comp	ND < 0.500	*
Biochemical Oxygen Demand (BOD 5 day)	mg/L	30/-	Comp	0.50	J (DNQ)	Comp	2.9	*
Chloride	mg/L	150/-	Comp	26	--	Comp	8.6	*
Dissolved Oxygen	mg/L	-/-	Grab	8.12	*	Grab	8.14	*
E. Coli	MPN/100 ml	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Fecal Coliform	MPN/100 ml	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Specific Conductivity (Lab)	umhos/cm	-/-	Grab	660	--	Grab	580	--
Surfactants (MBAS)	mg/L	0.5/-	Comp	ND < 0.050	U	Comp	ND < 0.050	*
Fluoride	mg/L	1.6/-	ANR	ANR	ANR	ANR	ANR	ANR
Nitrate + Nitrite as Nitrogen (N)	mg/L	8/-	Comp	ND < 0.15	U	Comp	0.30	*
Nitrate as Nitrogen (N)	mg/L	8/-	Comp	ND < 0.060	U	Comp	0.30	*
Nitrite-N	mg/L	1/-	Comp	ND < 0.090	U	Comp	ND < 0.090	*
Oil & Grease	mg/L	15/-	Grab	ND < 1.3	U	Grab	ND < 1.3	*
Perchlorate	ug/L	6.0/-	Comp	ND < 0.90	U	Comp	ND < 0.90	U
pH (Field)	pH units	6.5-8.5/-	Grab	7.7	*	Grab	7.7	*
Total Settleable Solids	ml/L	0.3/-	Grab	ND < 0.10	U	Grab	ND < 0.10	*
Sulfate	mg/L	300/-	Comp	130	--	Comp	37	*
Temperature	deg. F	86/-	Grab	51	*	Grab	50	*
Total Cyanide	ug/L	8.5/-	Comp	ND < 2.2	U	Comp	ND < 2.2	*
Total Dissolved Solids	mg/L	950/-	Comp	470	--	Comp	180	*
Hardness	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Hardness, dissolved	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Total Organic Carbon	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Total Residual Chlorine (Field)	mg/L	0.1/-	ANR	ANR	ANR	ANR	ANR	ANR
Total Suspended Solids	mg/L	45/-	Comp	ND < 1.0	U	Comp	63	--
Turbidity	NTU	-/-	Comp	0.47	J (DNQ)	Comp	130	--
Volume Discharged	MGD	160/-	Meas	0.026185	*	Meas	10.3968	*
<b>METALS</b>								
Antimony	ug/L	6.0/-	ANR	ANR	ANR	ANR	ANR	ANR
Antimony, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Arsenic	ug/L	10/-	ANR	ANR	ANR	ANR	ANR	ANR
Arsenic, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Barium	mg/L	1.0/-	ANR	ANR	ANR	ANR	ANR	ANR
Barium, dissolved	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Beryllium	ug/L	4.0/-	ANR	ANR	ANR	ANR	ANR	ANR
Beryllium, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Boron	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Boron, dissolved	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Cadmium	ug/L	(4.0) 3.1/-	Comp	ND < 0.10	U	Comp	0.11	Ja*
Cadmium, dissolved	ug/L	-/-	Comp	ND < 0.10	U	Comp	ND < 0.10	*
Calcium	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Calcium, Dissolved	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Chromium	ug/L	16/-	ANR	ANR	ANR	ANR	ANR	ANR
Chromium, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Chromium VI	ug/L	16/-	ANR	ANR	ANR	ANR	ANR	ANR
Cobalt	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Cobalt, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Copper	ug/L	14/-	Comp	1.4	J (DNQ)	Comp	6.0	*
Copper, dissolved	ug/L	-/-	Comp	1.9	J (DNQ)	Comp	2.1	*
Iron	mg/L	0.3/-	Comp	ND < 0.015	U	Comp	5.4	--

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling events are dry discharges.



OUTFALL 002 (South Slope below R-2 Pond)

ANNUAL 2011 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309

January 1 through December 31, 2011

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	3/7/2011 <sup>(a)</sup>			3/20/2011		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Iron, dissolved	mg/L	-/-	Comp	ND < 0.015	U	Comp	0.058	--
Lead	ug/L	5.2/-	Comp	ND < 0.20	UJ (*III)	Comp	3.0	*
Lead, dissolved	ug/L	-/-	Comp	ND < 0.20	UJ (*III)	Comp	ND < 0.20	*
Magnesium	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Magnesium, Dissolved	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Manganese	ug/L	50/-	ANR	ANR	ANR	ANR	ANR	ANR
Manganese, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Mercury	ug/L	0.10/-	Comp	ND < 0.10	U	Comp	ND < 0.10	U
Mercury, dissolved	ug/L	-/-	Comp	ND < 0.10	U	Comp	ND < 0.10	U
Nickel	ug/L	96/-	ANR	ANR	ANR	ANR	ANR	ANR
Nickel, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Selenium	ug/L	(5) 8.2/-	Comp	ND < 0.50	U	Comp	ND < 0.50	*
Selenium, dissolved	ug/L	-/-	Comp	ND < 0.50	U	Comp	ND < 0.50	*
Silver	ug/L	4.1/-	ANR	ANR	ANR	ANR	ANR	ANR
Silver, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Thallium	ug/L	2.0/-	ANR	ANR	ANR	ANR	ANR	ANR
Thallium, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Vanadium	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Vanadium, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Zinc	ug/L	119/-	Comp	ND < 6.00	U	Comp	30.4	--
Zinc, Dissolved	ug/L	-/-	Comp	ND < 6.00	U	Comp	ND < 20.0	U (B)
<b>ORGANICS</b>								
Benzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Carbon Tetrachloride	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Chloroform	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,1-Dichloroethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,2-Dichloroethane	ug/L	0.5/-	Grab	ND < 0.28	U	Grab	ND < 0.28	*
1,1-Dichloroethene	ug/L	6.0/-	Grab	ND < 0.42	U	Grab	ND < 0.42	*
1,4-Dioxane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Ethylbenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Tetrachloroethene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Toluene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Xylenes (Total)	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,1,1-Trichloroethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,1,2-Trichloroethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Trichloroethene	ug/L	5.0/-	Grab	ND < 0.26	U	Grab	ND < 0.26	*
Trichlorofluoromethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Trichlorotrifluoroethane (Freon 113)	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Vinyl Chloride	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
<b>TPH</b>								
DRO (C13 - C28)	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
GRO (C4 - C12)	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
<b>ADDITIONAL ANALYTES</b>								
1,2-Dichloro-1,1,2-trifluoroethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,1,2,2-Tetrachloroethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,2,4-Trichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,2-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,2-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,2-Dichloropropane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,2-Diphenylhydrazine/Azobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling events are dry discharges.

OUTFALL 002 (South Slope below R-2 Pond)

ANNUAL 2011 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309

January 1 through December 31, 2011

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	3/7/2011 <sup>(a)</sup>			3/20/2011		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2,4,6-Trichlorophenol	ug/L	13/-	Comp	ND < 0.0943	U	Comp	ND < 0.0943	*
2,4-Dichlorophenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2,4-Dimethylphenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2,4-Dinitrophenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2,4-Dinitrotoluene	ug/L	18/-	Comp	ND < 0.189	U	Comp	ND < 0.189	*
2,6-Dinitrotoluene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2-Chloroethylvinylether	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2-Chloronaphthalene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2-Chlorophenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2-Methyl-4,6-dinitrophenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2-Nitrophenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
3,3'-Dichlorobenzidine	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
4,4'-DDD	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
4,4'-DDE	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
4,4'-DDT	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
4-Bromophenylphenylether	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
4-Chloro-3-methylphenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
4-Chlorophenylphenylether	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
4-Nitrophenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthylene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Acrolein	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Acrylonitrile	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Acute Toxicity	% SURVIVAL	70-100/-	ANR	ANR	ANR	ANR	ANR	ANR
Aldrin	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
alpha-BHC	ug/L	0.03/-	Comp	ND < 0.0024	U	Comp	ND < 0.0024	C*
Anthracene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor-1016	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor-1221	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor-1232	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor-1242	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor-1248	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor-1254	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor-1260	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Benidine	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)anthracene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)pyrene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(b)fluoranthene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(g,h,i)perylene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(k)fluoranthene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
beta-BHC	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
bis (2-Chloroethyl) ether	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
bis (2-ethylhexyl) Phthalate	ug/L	4.0/-	Comp	ND < 1.60	U	Comp	ND < 1.60	*
bis(2-Chloroethoxy) methane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
bis(2-Chloroisopropyl) ether	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Bromodichloromethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Bromoform	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Bromomethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling events are dry discharges.

OUTFALL 002 (South Slope below R-2 Pond)

ANNUAL 2011 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309

January 1 through December 31, 2011

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	3/7/2011 <sup>(a)</sup>			3/20/2011		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Butylbenzylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Chlordane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Chlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Chloroethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Chloromethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Chronic Toxicity	TUC	1.0/-	ANR	ANR	ANR	ANR	ANR	ANR
Chrysene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
cis-1,2-Dichloroethene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
cis-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Cyclohexane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
delta-BHC	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzo(a,h)anthracene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Dibromochloromethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Dieldrin	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Diethylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Dimethylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Di-n-butylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Di-n-octylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Endosulfan I	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Endosulfan II	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Endosulfan sulfate	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Endrin	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Endrin aldehyde	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Fluoranthene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Fluorene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Heptachlor	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Heptachlor epoxide	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Hexachlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Hexachlorobutadiene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Hexachlorocyclopentadiene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Hexachloroethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Hydrazine	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Unsymmetrical Dimethyl Hydrazine	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Isophorone	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Lindane (gamma-BHC)	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Methylene Chloride	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Monomethyl Hydrazine	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Naphthalene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Nitrobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
n-Nitrosodimethylamine	ug/L	16/-	Comp	ND < 0.0943	U	Comp	ND < 0.0943	*
n-Nitroso-di-n-propylamine	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
n-Nitrosodiphenylamine	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Pentachlorophenol	ug/L	16.5/-	Comp	ND < 0.0943	U	Comp	ND < 0.0943	*
Phenanthrene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Phenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Pyrene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Toxaphene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
trans-1,2-Dichloroethene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
trans-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling events are dry discharges.

**OUTFALL 002 (South Slope below R-2 Pond)**

**ANNUAL 2011 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

January 1 through December 31, 2011

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	07/20/2011-07/21/2011 <sup>(a)</sup>		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Ammonia as Nitrogen (N)	mg/L	10.1/-	Comp	ND < 0.500	*
Biochemical Oxygen Demand (BOD 5 day)	mg/L	30/-	Comp	1.7	Ja* (DNQ)
Chloride	mg/L	150/-	Comp	42	*
Dissolved Oxygen	mg/L	-/-	Grab	3.81	*
E. Coli	MPN/100 ml	-/-	ANR	ANR	ANR
Fecal Coliform	MPN/100 ml	-/-	ANR	ANR	ANR
Specific Conductivity (Lab)	umhos/cm	-/-	Grab	630	--
Surfactants (MBAS)	mg/L	0.5/-	Comp	0.093	Ja* (DNQ)
Fluoride	mg/L	1.6/-	ANR	ANR	ANR
Nitrate + Nitrite as Nitrogen (N)	mg/L	8/-	Comp	ND < 0.15	*
Nitrate as Nitrogen (N)	mg/L	8/-	Comp	0.088	Ja* (DNQ)
Nitrite-N	mg/L	1/-	Comp	ND < 0.090	*
Oil & Grease	mg/L	15/-	Grab	ND < 1.4	*
Perchlorate	ug/L	6.0/-	Comp	ND < 0.95	U
pH (Field)	pH units	6.5-8.5/-	Grab	7.2	*
Total Settleable Solids	ml/L	0.3/-	Grab	ND < 0.10	*
Sulfate	mg/L	300/-	Comp	140	*
Temperature	deg. F	86/-	Grab	76	*
Total Cyanide	ug/L	8.5/-	Comp	ND < 2.2	*
Total Dissolved Solids	mg/L	950/-	Comp	440	*
Hardness	mg/L	-/-	ANR	ANR	ANR
Hardness, dissolved	mg/L	-/-	ANR	ANR	ANR
Total Organic Carbon	mg/L	-/-	ANR	ANR	ANR
Total Residual Chlorine (Field)	mg/L	0.1/-	ANR	ANR	ANR
Total Suspended Solids	mg/L	45/-	Comp	ND < 1.0	*
Turbidity	NTU	-/-	Comp	0.84	J (DNQ)
Volume Discharged	MGD	160/-	Meas	1.3997	*
<b>METALS</b>					
Antimony	ug/L	6.0/-	ANR	ANR	ANR
Antimony, dissolved	ug/L	-/-	ANR	ANR	ANR
Arsenic	ug/L	10/-	ANR	ANR	ANR
Arsenic, dissolved	ug/L	-/-	ANR	ANR	ANR
Barium	mg/L	1.0/-	ANR	ANR	ANR
Barium, dissolved	mg/L	-/-	ANR	ANR	ANR
Beryllium	ug/L	4.0/-	ANR	ANR	ANR
Beryllium, dissolved	ug/L	-/-	ANR	ANR	ANR
Boron	mg/L	-/-	ANR	ANR	ANR
Boron, dissolved	mg/L	-/-	ANR	ANR	ANR
Cadmium	ug/L	(4.0) 3.1/-	Comp	ND < 0.10	*
Cadmium, dissolved	ug/L	-/-	Comp	ND < 0.10	*
Calcium	mg/L	-/-	ANR	ANR	ANR
Calcium, Dissolved	mg/L	-/-	ANR	ANR	ANR
Chromium	ug/L	16/-	ANR	ANR	ANR
Chromium, dissolved	ug/L	-/-	ANR	ANR	ANR
Chromium VI	ug/L	16/-	ANR	ANR	ANR
Cobalt	ug/L	-/-	ANR	ANR	ANR
Cobalt, dissolved	ug/L	-/-	ANR	ANR	ANR
Copper	ug/L	14/-	Comp	0.968	Ja* (DNQ)
Copper, dissolved	ug/L	-/-	Comp	0.824	Ja*
Iron	mg/L	0.3/-	Comp	0.041	B*

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling events are dry discharges.

OUTFALL 002 (South Slope below R-2 Pond)

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			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Iron, dissolved	mg/L	-/-	Comp	ND < 0.015	*
Lead	ug/L	5.2/-	Comp	ND < 0.20	*
Lead, dissolved	ug/L	-/-	Comp	ND < 0.20	*
Magnesium	mg/L	-/-	ANR	ANR	ANR
Magnesium, Dissolved	mg/L	-/-	ANR	ANR	ANR
Manganese	ug/L	50/-	ANR	ANR	ANR
Manganese, dissolved	ug/L	-/-	ANR	ANR	ANR
Mercury	ug/L	0.10/-	Comp	ND < 0.10	U
Mercury, dissolved	ug/L	-/-	Comp	ND < 0.10	U
Nickel	ug/L	96/-	ANR	ANR	ANR
Nickel, dissolved	ug/L	-/-	ANR	ANR	ANR
Selenium	ug/L	(5) 8.2/-	Comp	ND < 0.50	*
Selenium, dissolved	ug/L	-/-	Comp	ND < 0.50	*
Silver	ug/L	4.1/-	ANR	ANR	ANR
Silver, dissolved	ug/L	-/-	ANR	ANR	ANR
Thallium	ug/L	2.0/-	ANR	ANR	ANR
Thallium, dissolved	ug/L	-/-	ANR	ANR	ANR
Vanadium	ug/L	-/-	ANR	ANR	ANR
Vanadium, dissolved	ug/L	-/-	ANR	ANR	ANR
Zinc	ug/L	119/-	Comp	ND < 6.00	*
Zinc, Dissolved	ug/L	-/-	Comp	ND < 6.00	*
<b>ORGANICS</b>					
Benzene	ug/L	-/-	Grab	ND < 0.28	*
Carbon Tetrachloride	ug/L	-/-	Grab	ND < 0.28	*
Chloroform	ug/L	-/-	Grab	ND < 0.33	*
1,1-Dichloroethane	ug/L	-/-	Grab	ND < 0.40	*
1,2-Dichloroethane	ug/L	0.5/-	Grab	ND < 0.28	*
1,1-Dichloroethene	ug/L	6.0/-	Grab	ND < 0.42	*
1,4-Dioxane	ug/L	-/-	ANR	ANR	ANR
Ethylbenzene	ug/L	-/-	Grab	ND < 0.25	*
Tetrachloroethene	ug/L	-/-	Grab	ND < 0.32	*
Toluene	ug/L	-/-	Grab	ND < 0.36	*
Xylenes (Total)	ug/L	-/-	Grab	ND < 0.90	*
1,1,1-Trichloroethane	ug/L	-/-	Grab	ND < 0.30	*
1,1,2-Trichloroethane	ug/L	-/-	Grab	ND < 0.30	*
Trichloroethene	ug/L	5.0/-	Grab	ND < 0.26	*
Trichlorofluoromethane	ug/L	-/-	Grab	ND < 0.34	*
Trichlorotrifluoroethane (Freon 113)	ug/L	-/-	Grab	ND < 0.50	*
Vinyl Chloride	ug/L	-/-	Grab	ND < 0.40	*
<b>TPH</b>					
DRO (C13 - C28)	mg/L	-/-	ANR	ANR	ANR
GRO (C4 - C12)	mg/L	-/-	ANR	ANR	ANR
<b>ADDITIONAL ANALYTES</b>					
1,2-Dichloro-1,1,2-trifluoroethane	ug/L	-/-	ANR	ANR	ANR
1,1,2,2-Tetrachloroethane	ug/L	-/-	ANR	ANR	ANR
1,2,4-Trichlorobenzene	ug/L	-/-	ANR	ANR	ANR
1,2-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR
1,2-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR
1,2-Dichloropropane	ug/L	-/-	ANR	ANR	ANR
1,2-Diphenylhydrazine/Azobenzene	ug/L	-/-	ANR	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling events are dry discharges.

OUTFALL 002 (South Slope below R-2 Pond)

ANNUAL 2011 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309

January 1 through December 31, 2011

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	07/20/2011-07/21/2011 <sup>(a)</sup>		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR
2,4,6-Trichlorophenol	ug/L	13/-	Comp	ND < 0.0952	*
2,4-Dichlorophenol	ug/L	-/-	ANR	ANR	ANR
2,4-Dimethylphenol	ug/L	-/-	ANR	ANR	ANR
2,4-Dinitrophenol	ug/L	-/-	ANR	ANR	ANR
2,4-Dinitrotoluene	ug/L	18/-	Comp	ND < 0.190	*
2,6-Dinitrotoluene	ug/L	-/-	ANR	ANR	ANR
2-Chloroethylvinylether	ug/L	-/-	ANR	ANR	ANR
2-Chloronaphthalene	ug/L	-/-	ANR	ANR	ANR
2-Chlorophenol	ug/L	-/-	ANR	ANR	ANR
2-Methyl-4,6-dinitrophenol	ug/L	-/-	ANR	ANR	ANR
2-Nitrophenol	ug/L	-/-	ANR	ANR	ANR
3,3'-Dichlorobenzidine	ug/L	-/-	ANR	ANR	ANR
4,4'-DDD	ug/L	-/-	ANR	ANR	ANR
4,4'-DDE	ug/L	-/-	ANR	ANR	ANR
4,4'-DDT	ug/L	-/-	ANR	ANR	ANR
4-Bromophenylphenylether	ug/L	-/-	ANR	ANR	ANR
4-Chloro-3-methylphenol	ug/L	-/-	ANR	ANR	ANR
4-Chlorophenylphenylether	ug/L	-/-	ANR	ANR	ANR
4-Nitrophenol	ug/L	-/-	ANR	ANR	ANR
Acenaphthene	ug/L	-/-	ANR	ANR	ANR
Acenaphthylene	ug/L	-/-	ANR	ANR	ANR
Acrolein	ug/L	-/-	ANR	ANR	ANR
Acrylonitrile	ug/L	-/-	ANR	ANR	ANR
Acute Toxicity	% SURVIVAL	70-100/-	ANR	ANR	ANR
Aldrin	ug/L	-/-	ANR	ANR	ANR
alpha-BHC	ug/L	0.03/-	Comp	ND < 0.0024	*
Anthracene	ug/L	-/-	ANR	ANR	ANR
Aroclor-1016	ug/L	-/-	ANR	ANR	ANR
Aroclor-1221	ug/L	-/-	ANR	ANR	ANR
Aroclor-1232	ug/L	-/-	ANR	ANR	ANR
Aroclor-1242	ug/L	-/-	ANR	ANR	ANR
Aroclor-1248	ug/L	-/-	ANR	ANR	ANR
Aroclor-1254	ug/L	-/-	ANR	ANR	ANR
Aroclor-1260	ug/L	-/-	ANR	ANR	ANR
Benzidine	ug/L	-/-	ANR	ANR	ANR
Benzo(a)anthracene	ug/L	-/-	ANR	ANR	ANR
Benzo(a)pyrene	ug/L	-/-	ANR	ANR	ANR
Benzo(b)fluoranthene	ug/L	-/-	ANR	ANR	ANR
Benzo(g,h,i)perylene	ug/L	-/-	ANR	ANR	ANR
Benzo(k)fluoranthene	ug/L	-/-	ANR	ANR	ANR
beta-BHC	ug/L	-/-	ANR	ANR	ANR
bis (2-Chloroethyl) ether	ug/L	-/-	ANR	ANR	ANR
bis (2-ethylhexyl) Phthalate	ug/L	4.0/-	Comp	ND < 1.62	*
bis(2-Chloroethoxy) methane	ug/L	-/-	ANR	ANR	ANR
bis(2-Chloroisopropyl) ether	ug/L	-/-	ANR	ANR	ANR
Bromodichloromethane	ug/L	-/-	ANR	ANR	ANR
Bromoform	ug/L	-/-	ANR	ANR	ANR
Bromomethane	ug/L	-/-	ANR	ANR	ANR

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling events are dry discharges.

OUTFALL 002 (South Slope below R-2 Pond)

ANNUAL 2011 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309

January 1 through December 31, 2011

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	07/20/2011-07/21/2011 <sup>(a)</sup>		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Butylbenzylphthalate	ug/L	-/-	ANR	ANR	ANR
Chlordane	ug/L	-/-	ANR	ANR	ANR
Chlorobenzene	ug/L	-/-	ANR	ANR	ANR
Chloroethane	ug/L	-/-	ANR	ANR	ANR
Chloromethane	ug/L	-/-	ANR	ANR	ANR
Chronic Toxicity	TUC	1.0/-	ANR	ANR	ANR
Chrysene	ug/L	-/-	ANR	ANR	ANR
cis-1,2-Dichloroethene	ug/L	-/-	ANR	ANR	ANR
cis-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ANR
Cyclohexane	ug/L	-/-	ANR	ANR	ANR
delta-BHC	ug/L	-/-	ANR	ANR	ANR
Dibenzo(a,h)anthracene	ug/L	-/-	ANR	ANR	ANR
Dibromochloromethane	ug/L	-/-	ANR	ANR	ANR
Dieldrin	ug/L	-/-	ANR	ANR	ANR
Diethylphthalate	ug/L	-/-	ANR	ANR	ANR
Dimethylphthalate	ug/L	-/-	ANR	ANR	ANR
Di-n-butylphthalate	ug/L	-/-	ANR	ANR	ANR
Di-n-octylphthalate	ug/L	-/-	ANR	ANR	ANR
Endosulfan I	ug/L	-/-	ANR	ANR	ANR
Endosulfan II	ug/L	-/-	ANR	ANR	ANR
Endosulfan sulfate	ug/L	-/-	ANR	ANR	ANR
Endrin	ug/L	-/-	ANR	ANR	ANR
Endrin aldehyde	ug/L	-/-	ANR	ANR	ANR
Fluoranthene	ug/L	-/-	ANR	ANR	ANR
Fluorene	ug/L	-/-	ANR	ANR	ANR
Heptachlor	ug/L	-/-	ANR	ANR	ANR
Heptachlor epoxide	ug/L	-/-	ANR	ANR	ANR
Hexachlorobenzene	ug/L	-/-	ANR	ANR	ANR
Hexachlorobutadiene	ug/L	-/-	ANR	ANR	ANR
Hexachlorocyclopentadiene	ug/L	-/-	ANR	ANR	ANR
Hexachloroethane	ug/L	-/-	ANR	ANR	ANR
Hydrazine	ug/L	-/-	ANR	ANR	ANR
Unsymmetrical Dimethyl Hydrazine	ug/L	-/-	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	ug/L	-/-	ANR	ANR	ANR
Isophorone	ug/L	-/-	ANR	ANR	ANR
Lindane (gamma-BHC)	ug/L	-/-	ANR	ANR	ANR
Methylene Chloride	ug/L	-/-	ANR	ANR	ANR
Monomethyl Hydrazine	ug/L	-/-	ANR	ANR	ANR
Naphthalene	ug/L	-/-	ANR	ANR	ANR
Nitrobenzene	ug/L	-/-	ANR	ANR	ANR
n-Nitrosodimethylamine	ug/L	16/-	Comp	ND < 0.0952	*
n-Nitroso-di-n-propylamine	ug/L	-/-	ANR	ANR	ANR
n-Nitrosodiphenylamine	ug/L	-/-	ANR	ANR	ANR
Pentachlorophenol	ug/L	16.5/-	Comp	ND < 0.0952	*
Phenanthrene	ug/L	-/-	ANR	ANR	ANR
Phenol	ug/L	-/-	ANR	ANR	ANR
Pyrene	ug/L	-/-	ANR	ANR	ANR
Toxaphene	ug/L	-/-	ANR	ANR	ANR
trans-1,2-Dichloroethene	ug/L	-/-	ANR	ANR	ANR
trans-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ANR

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling events are dry discharges.

**OUTFALL 002 (South Slope below R-2 Pond)  
ANNUAL 2011 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**Sample Type Composite  
Sample Date January 3, 2011**

<b>ANALYTE</b>	<b>LAB LOD (ug/L)</b>	<b>LAB RL (ug/L)</b>	<b>LAB RESULT (ug/L)</b>	<b>VALIDATION QUALIFIER</b>	<b>1998 WHO TEF</b>	<b>BEF Great Lakes Water Quality Initiative</b>	<b>TCDD Equivalent (w/out DNQ Values) (ug/L)</b>
1,2,3,4,6,7,8-HpCDD	4.50E-07	5.00E-05	ND	UJ (*III)	0.01	0.05	ND
1,2,3,4,6,7,8-HpCDF	4.50E-07	5.00E-05	ND	UJ (*III)	0.01	0.01	ND
1,2,3,4,7,8,9-HpCDF	6.10E-07	5.00E-05	ND	U	0.01	0.4	ND
1,2,3,4,7,8-HxCDD	8.50E-07	5.00E-05	ND	U	0.1	0.3	ND
1,2,3,4,7,8-HxCDF	4.40E-07	5.00E-05	ND	UJ (*III)	0.1	0.08	ND
1,2,3,6,7,8-HxCDD	6.70E-07	5.00E-05	ND	U	0.1	0.1	ND
1,2,3,6,7,8-HxCDF	4.30E-07	5.00E-05	6.70E-07	J (DNQ)	0.1	0.2	ND
1,2,3,7,8,9-HxCDD	7.00E-07	5.00E-05	ND	U	0.1	0.1	ND
1,2,3,7,8,9-HxCDF	5.20E-07	5.00E-05	ND	UJ (*III)	0.1	0.6	ND
1,2,3,7,8-PeCDD	1.10E-06	5.00E-05	ND	U	1	0.9	ND
1,2,3,7,8-PeCDF	5.50E-07	5.00E-05	ND	U	0.05	0.2	ND
2,3,4,6,7,8-HxCDF	4.20E-07	5.00E-05	ND	U	0.1	0.7	ND
2,3,4,7,8-PeCDF	6.00E-07	5.00E-05	ND	U	0.5	1.6	ND
2,3,7,8-TCDD	5.90E-07	1.00E-05	ND	U	1	1	ND
2,3,7,8-TCDF	3.70E-07	1.00E-05	ND	U	0.1	0.8	ND
OCDD	9.40E-07	1.00E-04	ND	U (B)	0.0001	0.01	ND
OCDF	1.20E-06	1.00E-04	ND	U (B)	0.0001	0.02	ND

<b>TCDD TEQ w/out DNQ Values</b>	<b>ND</b>
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**TCDD TEQ BENCHMARK LIMIT = 2.80E-08**

See attached notes for abbreviations, definitions, and other explanations for the data presented in this table.



**OUTFALL 002 (South Slope below R-2 Pond)**

**ANNUAL 2011 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**Sample Type Composite  
Sample Date February 19, 2011**

<b>ANALYTE</b>	<b>LAB LOD (ug/L)</b>	<b>LAB RL (ug/L)</b>	<b>LAB RESULT (ug/L)</b>	<b>VALIDATION QUALIFIER</b>	<b>1998 WHO TEF</b>	<b>BEF Great Lakes Water Quality Initiative</b>	<b>TCDD Equivalent (w/out DNQ Values) (ug/L)</b>
1,2,3,4,6,7,8-HpCDD	6.30E-07	5.00E-05	ND	U (B)	0.01	0.05	ND
1,2,3,4,6,7,8-HpCDF	3.50E-07	5.00E-05	ND	U (B)	0.01	0.01	ND
1,2,3,4,7,8,9-HpCDF	5.10E-07	5.00E-05	ND	U	0.01	0.4	ND
1,2,3,4,7,8-HxCDD	2.90E-07	5.00E-05	ND	U	0.1	0.3	ND
1,2,3,4,7,8-HxCDF	1.80E-07	5.00E-05	ND	U (B)	0.1	0.08	ND
1,2,3,6,7,8-HxCDD	2.40E-07	5.00E-05	ND	U (B)	0.1	0.1	ND
1,2,3,6,7,8-HxCDF	1.60E-07	5.00E-05	ND	U (B)	0.1	0.2	ND
1,2,3,7,8,9-HxCDD	2.60E-07	5.00E-05	ND	U (B)	0.1	0.1	ND
1,2,3,7,8,9-HxCDF	2.20E-07	5.00E-05	ND	U	0.1	0.6	ND
1,2,3,7,8-PeCDD	3.90E-07	5.00E-05	ND	U	1	0.9	ND
1,2,3,7,8-PeCDF	2.60E-07	5.00E-05	ND	U	0.05	0.2	ND
2,3,4,6,7,8-HxCDF	1.60E-07	5.00E-05	ND	U (B)	0.1	0.7	ND
2,3,4,7,8-PeCDF	2.80E-07	5.00E-05	ND	U	0.5	1.6	ND
2,3,7,8-TCDD	2.70E-07	1.00E-05	ND	U	1	1	ND
2,3,7,8-TCDF	2.10E-06	1.00E-05	ND	U	0.1	0.8	ND
OCDD	1.30E-06	1.00E-04	ND	U (B)	0.0001	0.01	ND
OCDF	5.00E-07	1.00E-04	ND	U (B)	0.0001	0.02	ND

<b>TCDD TEQ w/out DNQ Values</b>	<b>ND</b>
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**TCDD TEQ BENCHMARK LIMIT = 2.80E-08**

See attached notes for abbreviations, definitions, and other explanations for the data presented in this table.

**OUTFALL 002 (South Slope below R-2 Pond)**

**ANNUAL 2011 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**Sample Type Composite  
Sample Date February 25-26, 2011**

<b>ANALYTE</b>	<b>LAB LOD (ug/L)</b>	<b>LAB RL (ug/L)</b>	<b>LAB RESULT (ug/L)</b>	<b>VALIDATION QUALIFIER</b>	<b>1998 WHO TEF</b>	<b>BEF Great Lakes Water Quality Initiative</b>	<b>TCDD Equivalent (w/out DNQ Values) (ug/L)</b>
1,2,3,4,6,7,8-HpCDD	2.00E-06	5.00E-05	ND	U (B)	0.01	0.05	ND
1,2,3,4,6,7,8-HpCDF	1.70E-06	5.00E-05	ND	U (B)	0.01	0.01	ND
1,2,3,4,7,8,9-HpCDF	2.60E-06	5.00E-05	ND	U	0.01	0.4	ND
1,2,3,4,7,8-HxCDD	4.20E-06	5.00E-05	ND	U	0.1	0.3	ND
1,2,3,4,7,8-HxCDF	2.50E-06	5.00E-05	ND	U	0.1	0.08	ND
1,2,3,6,7,8-HxCDD	3.30E-06	5.00E-05	ND	U	0.1	0.1	ND
1,2,3,6,7,8-HxCDF	2.30E-06	5.00E-05	ND	U	0.1	0.2	ND
1,2,3,7,8,9-HxCDD	3.10E-06	5.00E-05	ND	U	0.1	0.1	ND
1,2,3,7,8,9-HxCDF	3.20E-06	5.00E-05	ND	U	0.1	0.6	ND
1,2,3,7,8-PeCDD	7.00E-06	5.00E-05	ND	U	1	0.9	ND
1,2,3,7,8-PeCDF	8.10E-06	5.00E-05	ND	U	0.05	0.2	ND
2,3,4,6,7,8-HxCDF	2.20E-06	5.00E-05	ND	U	0.1	0.7	ND
2,3,4,7,8-PeCDF	8.90E-06	5.00E-05	ND	U	0.5	1.6	ND
2,3,7,8-TCDD	2.80E-06	1.00E-05	ND	U	1	1	ND
2,3,7,8-TCDF	3.80E-06	1.00E-05	ND	U	0.1	0.8	ND
OCDD	7.20E-06	1.00E-04	ND	U (B)	0.0001	0.01	ND
OCDF	5.60E-06	1.00E-04	8.80E-06	J (DNQ)	0.0001	0.02	ND

<b>TCDD TEQ w/out DNQ Values</b>	<b>ND</b>
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**TCDD TEQ BENCHMARK LIMIT = 2.80E-08**

See attached notes for abbreviations, definitions, and other explanations for the data presented in this table.

**OUTFALL 002 (South Slope below R-2 Pond)**

**ANNUAL 2011 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**Sample Type Composite  
Sample Date March 3, 2011**

<b>ANALYTE</b>	<b>LAB LOD (ug/L)</b>	<b>LAB RL (ug/L)</b>	<b>LAB RESULT (ug/L)</b>	<b>VALIDATION QUALIFIER</b>	<b>1998 WHO TEF</b>	<b>BEF Great Lakes Water Quality Initiative</b>	<b>TCDD Equivalent (w/out DNQ Values) (ug/L)</b>
1,2,3,4,6,7,8-HpCDD	2.10E-06	5.00E-05	ND	U (B)	0.01	0.05	ND
1,2,3,4,6,7,8-HpCDF	2.50E-06	5.00E-05	ND	U (B)	0.01	0.01	ND
1,2,3,4,7,8,9-HpCDF	3.80E-06	5.00E-05	ND	U	0.01	0.4	ND
1,2,3,4,7,8-HxCDD	1.80E-06	5.00E-05	ND	U	0.1	0.3	ND
1,2,3,4,7,8-HxCDF	1.10E-06	5.00E-05	ND	U	0.1	0.08	ND
1,2,3,6,7,8-HxCDD	1.70E-06	5.00E-05	ND	U	0.1	0.1	ND
1,2,3,6,7,8-HxCDF	9.90E-07	5.00E-05	ND	U	0.1	0.2	ND
1,2,3,7,8,9-HxCDD	1.50E-06	5.00E-05	ND	U	0.1	0.1	ND
1,2,3,7,8,9-HxCDF	1.30E-06	5.00E-05	ND	U	0.1	0.6	ND
1,2,3,7,8-PeCDD	2.40E-06	5.00E-05	ND	U	1	0.9	ND
1,2,3,7,8-PeCDF	1.70E-06	5.00E-05	ND	U	0.05	0.2	ND
2,3,4,6,7,8-HxCDF	9.60E-07	5.00E-05	ND	U	0.1	0.7	ND
2,3,4,7,8-PeCDF	1.90E-06	5.00E-05	ND	U	0.5	1.6	ND
2,3,7,8-TCDD	1.80E-06	1.00E-05	ND	U	1	1	ND
2,3,7,8-TCDF	1.70E-06	1.00E-05	ND	U	0.1	0.8	ND
OCDD	3.50E-06	1.00E-04	ND	U (B)	0.0001	0.01	ND
OCDF	3.50E-06	1.00E-04	ND	U (B)	0.0001	0.02	ND

<b>TCDD TEQ w/out DNQ Values</b>	<b>ND</b>
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**TCDD TEQ BENCHMARK LIMIT = 2.80E-08**

See attached notes for abbreviations, definitions, and other explanations for the data presented in this table.

**OUTFALL 002 (South Slope below R-2 Pond)**

**ANNUAL 2011 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**Sample Type Composite  
Sample Date March 7, 2011**

<b>ANALYTE</b>	<b>LAB LOD (ug/L)</b>	<b>LAB RL (ug/L)</b>	<b>LAB RESULT (ug/L)</b>	<b>VALIDATION QUALIFIER</b>	<b>1998 WHO TEF</b>	<b>BEF Great Lakes Water Quality Initiative</b>	<b>TCDD Equivalent (w/out DNQ Values) (ug/L)</b>
1,2,3,4,6,7,8-HpCDD	1.90E-06	5.00E-05	ND	U (B)	0.01	0.05	ND
1,2,3,4,6,7,8-HpCDF	2.80E-06	5.00E-05	ND	U (B)	0.01	0.01	ND
1,2,3,4,7,8,9-HpCDF	4.10E-06	5.00E-05	ND	U	0.01	0.4	ND
1,2,3,4,7,8-HxCDD	1.50E-06	5.00E-05	ND	U	0.1	0.3	ND
1,2,3,4,7,8-HxCDF	1.10E-06	5.00E-05	ND	U	0.1	0.08	ND
1,2,3,6,7,8-HxCDD	1.40E-06	5.00E-05	ND	U	0.1	0.1	ND
1,2,3,6,7,8-HxCDF	1.00E-06	5.00E-05	ND	U	0.1	0.2	ND
1,2,3,7,8,9-HxCDD	1.30E-06	5.00E-05	ND	U	0.1	0.1	ND
1,2,3,7,8,9-HxCDF	1.30E-06	5.00E-05	ND	U	0.1	0.6	ND
1,2,3,7,8-PeCDD	2.30E-06	5.00E-05	ND	U	1	0.9	ND
1,2,3,7,8-PeCDF	1.90E-06	5.00E-05	ND	U	0.05	0.2	ND
2,3,4,6,7,8-HxCDF	9.90E-07	5.00E-05	ND	U	0.1	0.7	ND
2,3,4,7,8-PeCDF	1.90E-06	5.00E-05	ND	U	0.5	1.6	ND
2,3,7,8-TCDD	1.70E-06	1.00E-05	ND	U	1	1	ND
2,3,7,8-TCDF	1.70E-06	1.00E-05	ND	U	0.1	0.8	ND
OCDD	3.60E-06	1.00E-04	ND	U (B)	0.0001	0.01	ND
OCDF	2.40E-06	1.00E-04	ND	U (B)	0.0001	0.02	ND

<b>TCDD TEQ w/out DNQ Values</b>	<b>ND</b>
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**TCDD TEQ BENCHMARK LIMIT = 2.80E-08**

See attached notes for abbreviations, definitions, and other explanations for the data presented in this table.

**OUTFALL 002 (South Slope below R-2 Pond)**

**ANNUAL 2011 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**Sample Type Composite  
Sample Date March 20, 2011**

<b>ANALYTE</b>	<b>LAB LOD (ug/L)</b>	<b>LAB RL (ug/L)</b>	<b>LAB RESULT (ug/L)</b>	<b>VALIDATION QUALIFIER</b>	<b>1998 WHO TEF</b>	<b>BEF Great Lakes Water Quality Initiative</b>	<b>TCDD Equivalent (w/out DNQ Values) (ug/L)</b>
1,2,3,4,6,7,8-HpCDD	2.90E-06	5.00E-05	9.70E-05	--	0.01	0.05	<b>4.85E-08</b>
1,2,3,4,6,7,8-HpCDF	1.70E-06	5.00E-05	2.10E-05	J (DNQ)	0.01	0.01	<b>ND</b>
1,2,3,4,7,8,9-HpCDF	2.50E-06	5.00E-05	ND	U	0.01	0.4	<b>ND</b>
1,2,3,4,7,8-HxCDD	1.00E-06	5.00E-05	ND	UJ (*III)	0.1	0.3	<b>ND</b>
1,2,3,4,7,8-HxCDF	4.70E-07	5.00E-05	8.70E-07	J (DNQ)	0.1	0.08	<b>ND</b>
1,2,3,6,7,8-HxCDD	9.20E-07	5.00E-05	3.20E-06	J (DNQ)	0.1	0.1	<b>ND</b>
1,2,3,6,7,8-HxCDF	4.20E-07	5.00E-05	ND	U	0.1	0.2	<b>ND</b>
1,2,3,7,8,9-HxCDD	8.40E-07	5.00E-05	ND	UJ (*III)	0.1	0.1	<b>ND</b>
1,2,3,7,8,9-HxCDF	5.80E-07	5.00E-05	ND	U	0.1	0.6	<b>ND</b>
1,2,3,7,8-PeCDD	1.00E-06	5.00E-05	ND	U	1	0.9	<b>ND</b>
1,2,3,7,8-PeCDF	1.00E-06	5.00E-05	ND	U	0.05	0.2	<b>ND</b>
2,3,4,6,7,8-HxCDF	4.20E-07	5.00E-05	ND	UJ (*III)	0.1	0.7	<b>ND</b>
2,3,4,7,8-PeCDF	1.10E-06	5.00E-05	ND	U	0.5	1.6	<b>ND</b>
2,3,7,8-TCDD	6.60E-07	1.00E-05	ND	U	1	1	<b>ND</b>
2,3,7,8-TCDF	9.90E-07	1.00E-05	ND	U	0.1	0.8	<b>ND</b>
OCDD	9.80E-06	1.00E-04	1.30E-03	--	0.0001	0.01	<b>1.30E-09</b>
OCDF	4.50E-06	1.00E-04	5.10E-05	J (DNQ)	0.0001	0.02	<b>ND</b>

<b>TCDD TEQ w/out DNQ Values</b>	<b>4.98E-08</b>
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**TCDD TEQ BENCHMARK LIMIT = 2.80E-08**

See attached notes for abbreviations, definitions, and other explanations for the data presented in this table.

**OUTFALL 002 (South Slope below R-2 Pond)**

**ANNUAL 2011 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

Sample Date July 20-21, 2011

ANALYTE	LAB LOD (ug/L)	LAB RL (ug/L)	LAB RESULT (ug/L)	VALIDATION QUALIFIER	1998 WHO TEF	BEF Great Lakes Water Quality Initiative	TCDD Equivalent (w/out DNQ Values) (ug/L)
1,2,3,4,6,7,8-HpCDD	6.50E-07	5.00E-05	ND	U (B)	0.01	0.05	ND
1,2,3,4,6,7,8-HpCDF	4.50E-07	5.00E-05	ND	U (B)	0.01	0.01	ND
1,2,3,4,7,8,9-HpCDF	5.50E-07	5.00E-05	1.20E-06	J (DNQ)	0.01	0.4	ND
1,2,3,4,7,8-HxCDD	3.90E-07	5.00E-05	ND	UJ (*III)	0.1	0.3	ND
1,2,3,4,7,8-HxCDF	3.30E-07	5.00E-05	ND	U (B)	0.1	0.08	ND
1,2,3,6,7,8-HxCDD	3.40E-07	5.00E-05	ND	UJ (*III)	0.1	0.1	ND
1,2,3,6,7,8-HxCDF	3.20E-07	5.00E-05	ND	U (B)	0.1	0.2	ND
1,2,3,7,8,9-HxCDD	3.30E-07	5.00E-05	ND	UJ (*III)	0.1	0.1	ND
1,2,3,7,8,9-HxCDF	3.60E-07	5.00E-05	1.10E-06	J (DNQ)	0.1	0.6	ND
1,2,3,7,8-PeCDD	9.50E-07	5.00E-05	ND	U	1	0.9	ND
1,2,3,7,8-PeCDF	5.90E-07	5.00E-05	2.00E-06	J (DNQ)	0.05	0.2	ND
2,3,4,6,7,8-HxCDF	3.10E-07	5.00E-05	ND	U (B)	0.1	0.7	ND
2,3,4,7,8-PeCDF	7.90E-07	5.00E-05	ND	U	0.5	1.6	ND
2,3,7,8-TCDD	5.20E-07	1.00E-05	ND	U	1	1	ND
2,3,7,8-TCDF	1.60E-06	1.00E-05	ND	U	0.1	0.8	ND
OCDD	5.00E-07	1.00E-04	ND	U (B)	0.0001	0.01	ND
OCDF	9.20E-07	1.00E-04	ND	U (B)	0.0001	0.02	ND

<b>TCDD TEQ w/out DNQ Values</b>	<b>ND</b>
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**TCDD TEQ BENCHMARK LIMIT = 2.80E-08**

See attached notes for abbreviations, definitions, and other explanations for the data presented in this table.

**OUTFALL 002 (South Slope below R-2 Pond)**

**ANNUAL 2011 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

January 1 through December 31, 2011

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	01/03/2011 (Comp)			02/19/2011 (Comp)			02/26/2011 (Comp)		
			RESULT	MDA	VALIDATION QUALIFIER	RESULT	MDA	VALIDATION QUALIFIER	RESULT	MDA	VALIDATION QUALIFIER
<b>RADIOACTIVITY</b>											
Gross Alpha	pCi/L	15/-	0.986 ± 0.76	1.08	UJ (C)	0.905 ± 0.45	0.568	J (C, DNQ)	1.34 ± 0.69	0.795	J (C, DNQ)
Gross Beta	pCi/L	50/-	3.26 ± 1.1	1.69	J (DNQ)	2.96 ± 0.64	0.96	J (DNQ)	2.56 ± 0.76	1.13	J (DNQ)
Strontium-90	pCi/L	8.0/-	0.159 ± 0.56	1.27	U	0.013 ± 0.29	0.662	U	-0.155 ± 0.48	1.22	U
Total Combined Radium-226 & Radium 228	pCi/L	5.0/-	0.06 ± 0.39	1.10	U	0.54 ± 0.45	1.17	U	0.21 ± 0.51	1.28	U
Tritium	pCi/L	20000/-	-58.1 ± 150	265	U	-67.1 ± 120	211	U	11.9 ± 100	169	U
Uranium, Total	pCi/L	20/-	1.68 ± 0.20	0.016	--	0.594 ± 0.068	0.02	J (DNQ)	0.941 ± 0.11	0.022	J (DNQ)
Potassium-40	pCi/L	-/-	ND < 18.6	18.6	U	ND < 16.6	16.6	U	ND < 18	18	U
Cesium 137	pCi/L	200/-	ND < 1.17	1.17	U	ND < 1.05	1.05	U	ND < 1.6	1.6	U

**OUTFALL 002 (South Slope below R-2 Pond)**

**ANNUAL 2011 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

January 1 through December 31, 2011

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	03/03/2011 (Comp)			03/07/2011 (Comp)			03/20/2011 (Comp)		
			RESULT	MDA	VALIDATION QUALIFIER	RESULT	MDA	VALIDATION QUALIFIER	RESULT	MDA	VALIDATION QUALIFIER
<b>RADIOACTIVITY</b>											
Gross Alpha	pCi/L	15/-	1.17 ± 0.69	0.883	J (C, DNQ)	1.2 ± 0.98	1.4	UJ (C)	2.64 ± 0.60	0.41	J (C, DNQ)
Gross Beta	pCi/L	50/-	1.94 ± 0.81	1.25	J (DNQ)	2.92 ± 1.2	1.78	J (DNQ)	7.4 ± 0.80	1.02	--
Strontium-90	pCi/L	8.0/-	0.018 ± 0.39	0.892	U	0.068 ± 0.52	1.21	U	0.101 ± 0.32	0.701	U
Total Combined Radium-226 & Radium 228	pCi/L	5.0/-	0.20 ± 0.48	1.27	U	0.35 ± 0.41	1.10	U	0.17 ± 0.41	1.15	U
Tritium	pCi/L	20000/-	16.1 ± 85	144	U	49 ± 88	146	U	-54.7 ± 96	164	U
Uranium, Total	pCi/L	20/-	0.859 ± 0.093	0.025	J (DNQ)	1.47 ± 0.16	0.025	--	0.634 ± 0.074	0.02	J (DNQ)
Potassium-40	pCi/L	-/-	ND < 17.4	17.4	U	ND < 34.8	34.8	U	ND < 22.6	22.6	U
Cesium 137	pCi/L	200/-	ND < 1.36	1.36	U	ND < 1.66	1.66	U	ND < 2.01	2.01	U



**OUTFALL 002 (South Slope below R-2 Pond)**

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THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

January 1 through December 31, 2011

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	07/20-21/2011 (Comp)		
			RESULT	MDA	VALIDATION QUALIFIER
<b>RADIOACTIVITY</b>					
Gross Alpha	pCi/L	15/-	0.285 ± 0.73	1.2	UJ (C)
Gross Beta	pCi/L	50/-	4.29 ± 1.0	1.47	--
Strontium-90	pCi/L	8.0/-	0.296 ± 0.42	0.844	U
Total Combined Radium-226 & Radium 228	pCi/L	5.0/-	-0.13 ± 0.33	0.96	U
Tritium	pCi/L	20000/-	61.8 ± 96	159	U
Uranium, Total	pCi/L	20/-	0.356 ± 0.043	0.023	J (DNQ)
Potassium-40	pCi/L	-/-	ND < 72.1	72.1	U
Cesium 137	pCi/L	200/-	ND < 2.25	2.25	U

**OUTFALL 002 (South Slope below R-2 Pond)**

**ANNUAL 2011 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

January 1 through December 31, 2011

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	1/3/2011 <sup>(a)</sup>		
			Sample Type	Result	Concentration Result Validation Qualifier
Max Discharge for event	MGD	160	Meas	0.015795	
Ammonia as Nitrogen (N)	LBS/DAY	13,500/-	Comp	ND	*
Biochemical Oxygen Demand (BOD 5 day)	LBS/DAY	40,032/-	Comp	0.17	Ja* (DNQ)
Chloride	LBS/DAY	200,160/-	Comp	3.69	*
Surfactants (MBAS)	LBS/DAY	667/-	Comp	0.01	Ja* (DNQ)
Fluoride	LBS/DAY	2,135/-	ANR	ANR	ANR
Nitrate + Nitrite as Nitrogen (N)	LBS/DAY	10,700/-	Comp	ND	*
Nitrate as Nitrogen (N)	LBS/DAY	10,700/-	Comp	0.02	*
Nitrite-N	LBS/DAY	1,334/-	Comp	ND	*
Oil & Grease	LBS/DAY	20,016/-	Grab	ND	*
Perchlorate	LBS/DAY	8.0/-	Comp	ND	*
Sulfate	LBS/DAY	400,320/-	Comp	18.44	*
Total Cyanide	LBS/DAY	11/-	Comp	ND	*
Total Dissolved Solids	LBS/DAY	1,270,000/-	Comp	59.28	*
Total Suspended Solids	LBS/DAY	60,048/-	Comp	ND	*
Total Residual Chlorine (Field)	LBS/DAY	133/-	ANR	ANR	ANR
Antimony	LBS/DAY	8.0/-	ANR	ANR	ANR
Arsenic	LBS/DAY	67/-	ANR	ANR	ANR
Barium	LBS/DAY	1,330/-	ANR	ANR	ANR
Beryllium	LBS/DAY	5.3/-	ANR	ANR	ANR
Cadmium	LBS/DAY	(5.3) 4.1/-	Comp	ND	*
Chromium	LBS/DAY	22/-	ANR	ANR	ANR
Copper	LBS/DAY	19/-	Comp	0.0003	*
Iron	LBS/DAY	400/-	Comp	0.003	Ja* (DNQ)
Lead	LBS/DAY	6.9/-	Comp	ND	*
Manganese	LBS/DAY	66.7/-	Comp	ND	*
Mercury	LBS/DAY	0.13/-	Comp	ND	U
Nickel	LBS/DAY	128/-	ANR	ANR	ANR
Selenium	LBS/DAY	(6.7) 11/-	Comp	0.0001	Ja* (DNQ)
Silver	LBS/DAY	5.5/-	ANR	ANR	ANR
Thallium	LBS/DAY	2.7/-	ANR	ANR	ANR
Zinc	LBS/DAY	159/-	Comp	ND	*
1,2-Dichloroethane	LBS/DAY	0.67/-	Grab	ND	*
1,1-Dichloroethene	LBS/DAY	8.0/-	Grab	ND	*
Trichloroethene	LBS/DAY	6.7/-	Grab	ND	*
2,4,6-Trichlorophenol	LBS/DAY	17/-	Comp	ND	*
2,4-Dinitrotoluene	LBS/DAY	24/-	Comp	ND	*
alpha-BHC	LBS/DAY	0.04/-	Comp	ND	*
bis (2-ethylhexyl) Phthalate	LBS/DAY	5.3/-	Comp	ND	*
n-Nitrosodimethylamine	LBS/DAY	22/-	Comp	ND	*
Pentachlorophenol	LBS/DAY	22/-	Comp	ND	*
TCDD TEQ_NoDNQ	LBS/DAY	3.70E-08/-	Comp	ND	--

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling events are dry discharges.

**OUTFALL 002 (South Slope below R-2 Pond)**

**ANNUAL 2011 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

January 1 through December 31, 2011

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	2/19/2011		
			Sample Type	Result	Concentration Result Validation Qualifier
Max Discharge for event	MGD	160	Meas	0.288645	
Ammonia as Nitrogen (N)	LBS/DAY	13,500/-	Comp	ND	*
Biochemical Oxygen Demand (BOD 5 day)	LBS/DAY	40,032/-	Comp	4.81	*
Chloride	LBS/DAY	200,160/-	Comp	38.52	*
Surfactants (MBAS)	LBS/DAY	667/-	Comp	ND	*
Fluoride	LBS/DAY	2,135/-	Comp	0.79	*
Nitrate + Nitrite as Nitrogen (N)	LBS/DAY	10,700/-	Comp	0.36	Ja* (DNQ)
Nitrate as Nitrogen (N)	LBS/DAY	10,700/-	Comp	0.36	*
Nitrite-N	LBS/DAY	1,334/-	Comp	ND	*
Oil & Grease	LBS/DAY	20,016/-	Grab	ND	*
Perchlorate	LBS/DAY	8.0/-	Comp	ND	*
Sulfate	LBS/DAY	400,320/-	Comp	202.21	*
Total Cyanide	LBS/DAY	11/-	Comp	ND	*
Total Dissolved Solids	LBS/DAY	1,270,000/-	Comp	746.26	*
Total Suspended Solids	LBS/DAY	60,048/-	Comp	28.89	*
Total Residual Chlorine (Field)	LBS/DAY	133/-	Grab	0.0	*
Antimony	LBS/DAY	8.0/-	Comp	ND	*
Arsenic	LBS/DAY	67/-	Comp	ND	U
Barium	LBS/DAY	1,330/-	Comp	0.08	--
Beryllium	LBS/DAY	5.3/-	Comp	ND	U
Cadmium	LBS/DAY	(5.3) 4.1/-	Comp	ND	*
Chromium	LBS/DAY	22/-	Comp	ND	U
Copper	LBS/DAY	19/-	Comp	0.01	*
Iron	LBS/DAY	400/-	Comp	2.34	--
Lead	LBS/DAY	6.9/-	Comp	0.001	Ja* (DNQ)
Manganese	LBS/DAY	66.7/-	Comp	0.08	--
Mercury	LBS/DAY	0.13/-	Comp	ND	U
Nickel	LBS/DAY	128/-	Comp	ND	U
Selenium	LBS/DAY	(6.7) 11/-	Comp	ND	*
Silver	LBS/DAY	5.5/-	Comp	ND	*
Thallium	LBS/DAY	2.7/-	Comp	ND	*
Zinc	LBS/DAY	159/-	Comp	0.02	J (DNQ)
1,2-Dichloroethane	LBS/DAY	0.67/-	Grab	ND	U
1,1-Dichloroethene	LBS/DAY	8.0/-	Grab	ND	U
Trichloroethene	LBS/DAY	6.7/-	Grab	0.004	--
2,4,6-Trichlorophenol	LBS/DAY	17/-	Comp	ND	U
2,4-Dinitrotoluene	LBS/DAY	24/-	Comp	ND	U
alpha-BHC	LBS/DAY	0.04/-	Comp	ND	*
bis (2-ethylhexyl) Phthalate	LBS/DAY	5.3/-	Comp	ND	UJ (*III)
n-Nitrosodimethylamine	LBS/DAY	22/-	Comp	ND	U
Pentachlorophenol	LBS/DAY	22/-	Comp	ND	U
TCDD TEQ_NoDNQ	LBS/DAY	3.70E-08/-	Comp	ND	--

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling events are dry discharges.

**OUTFALL 002 (South Slope below R-2 Pond)**

**ANNUAL 2011 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

January 1 through December 31, 2011

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	02/25/2011-02/26/2011		
			Sample Type	Result	Concentration Result Validation Qualifier
Max Discharge for event	MGD	160	Meas	0.238935	
Ammonia as Nitrogen (N)	LBS/DAY	13,500/-	Comp	ND	*
Biochemical Oxygen Demand (BOD 5 day)	LBS/DAY	40,032/-	Comp	ND	*
Chloride	LBS/DAY	200,160/-	Comp	39.85	*
Surfactants (MBAS)	LBS/DAY	667/-	Comp	0.40	*
Fluoride	LBS/DAY	2,135/-	ANR	ANR	ANR
Nitrate + Nitrite as Nitrogen (N)	LBS/DAY	10,700/-	Comp	ND	*
Nitrate as Nitrogen (N)	LBS/DAY	10,700/-	Comp	0.28	*
Nitrite-N	LBS/DAY	1,334/-	Comp	ND	*
Oil & Grease	LBS/DAY	20,016/-	Grab	ND	*
Perchlorate	LBS/DAY	8.0/-	Comp	ND	*
Sulfate	LBS/DAY	400,320/-	Comp	183.33	*
Total Cyanide	LBS/DAY	11/-	Comp	ND	*
Total Dissolved Solids	LBS/DAY	1,270,000/-	Comp	737.31	*
Total Suspended Solids	LBS/DAY	60,048/-	Comp	5.98	J* (DNQ)
Total Residual Chlorine (Field)	LBS/DAY	133/-	ANR	ANR	ANR
Antimony	LBS/DAY	8.0/-	ANR	ANR	ANR
Arsenic	LBS/DAY	67/-	ANR	ANR	ANR
Barium	LBS/DAY	1,330/-	ANR	ANR	ANR
Beryllium	LBS/DAY	5.3/-	ANR	ANR	ANR
Cadmium	LBS/DAY	(5.3) 4.1/-	Comp	ND	*
Chromium	LBS/DAY	22/-	ANR	ANR	ANR
Copper	LBS/DAY	19/-	Comp	0.0046	*
Iron	LBS/DAY	400/-	Comp	0.98	--
Lead	LBS/DAY	6.9/-	Comp	0.00048	J* (DNQ)
Manganese	LBS/DAY	66.7/-	ANR	ANR	ANR
Mercury	LBS/DAY	0.13/-	Comp	ND	U
Nickel	LBS/DAY	128/-	ANR	ANR	ANR
Selenium	LBS/DAY	(6.7) 11/-	Comp	ND	*
Silver	LBS/DAY	5.5/-	ANR	ANR	ANR
Thallium	LBS/DAY	2.7/-	ANR	ANR	ANR
Zinc	LBS/DAY	159/-	Comp	ND	U
1,2-Dichloroethane	LBS/DAY	0.67/-	Grab	ND	*
1,1-Dichloroethene	LBS/DAY	8.0/-	Grab	ND	*
Trichloroethene	LBS/DAY	6.7/-	Grab	0.002	J* (DNQ)
2,4,6-Trichlorophenol	LBS/DAY	17/-	Comp	ND	*
2,4-Dinitrotoluene	LBS/DAY	24/-	Comp	ND	*
alpha-BHC	LBS/DAY	0.04/-	Comp	ND	*
bis (2-ethylhexyl) Phthalate	LBS/DAY	5.3/-	Comp	ND	*
n-Nitrosodimethylamine	LBS/DAY	22/-	Comp	ND	*
Pentachlorophenol	LBS/DAY	22/-	Comp	ND	*
TCDD TEQ_NoDNQ	LBS/DAY	3.70E-08/-	Comp	ND	--

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling events are dry discharges.

**OUTFALL 002 (South Slope below R-2 Pond)**

**ANNUAL 2011 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

January 1 through December 31, 2011

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	3/3/2011 <sup>(a)</sup>		
			Sample Type	Result	Concentration Result Validation Qualifier
Max Discharge for event	MGD	160	Meas	0.243845	
Ammonia as Nitrogen (N)	LBS/DAY	13,500/-	Comp	ND	*
Biochemical Oxygen Demand (BOD 5 day)	LBS/DAY	40,032/-	Comp	2.44	Ja* (DNQ)
Chloride	LBS/DAY	200,160/-	Comp	42.71	MHA*
Surfactants (MBAS)	LBS/DAY	667/-	Comp	ND	*
Fluoride	LBS/DAY	2,135/-	ANR	ANR	ANR
Nitrate + Nitrite as Nitrogen (N)	LBS/DAY	10,700/-	Comp	ND	*
Nitrate as Nitrogen (N)	LBS/DAY	10,700/-	Comp	0.20	Ja* (DNQ)
Nitrite-N	LBS/DAY	1,334/-	Comp	ND	*
Oil & Grease	LBS/DAY	20,016/-	Grab	ND	*
Perchlorate	LBS/DAY	8.0/-	Comp	ND	*
Sulfate	LBS/DAY	400,320/-	Comp	223.70	MHA*
Total Cyanide	LBS/DAY	11/-	Comp	ND	*
Total Dissolved Solids	LBS/DAY	1,270,000/-	Comp	772.79	*
Total Suspended Solids	LBS/DAY	60,048/-	Comp	2.03	Ja* (DNQ)
Total Residual Chlorine (Field)	LBS/DAY	133/-	ANR	ANR	ANR
Antimony	LBS/DAY	8.0/-	ANR	ANR	ANR
Arsenic	LBS/DAY	67/-	ANR	ANR	ANR
Barium	LBS/DAY	1,330/-	ANR	ANR	ANR
Beryllium	LBS/DAY	5.3/-	ANR	ANR	ANR
Cadmium	LBS/DAY	(5.3) 4.1/-	Comp	ND	*
Chromium	LBS/DAY	22/-	ANR	ANR	ANR
Copper	LBS/DAY	19/-	Comp	0.005	*
Iron	LBS/DAY	400/-	Comp	0.09	B*
Lead	LBS/DAY	6.9/-	Comp	ND	*
Manganese	LBS/DAY	66.7/-	ANR	ANR	ANR
Mercury	LBS/DAY	0.13/-	Comp	ND	U
Nickel	LBS/DAY	128/-	ANR	ANR	ANR
Selenium	LBS/DAY	(6.7) 11/-	Comp	ND	*
Silver	LBS/DAY	5.5/-	ANR	ANR	ANR
Thallium	LBS/DAY	2.7/-	ANR	ANR	ANR
Zinc	LBS/DAY	159/-	Comp	ND	*
1,2-Dichloroethane	LBS/DAY	0.67/-	Grab	ND	*
1,1-Dichloroethene	LBS/DAY	8.0/-	Grab	ND	*
Trichloroethene	LBS/DAY	6.7/-	Grab	0.001	Ja* (DNQ)
2,4,6-Trichlorophenol	LBS/DAY	17/-	Comp	ND	*
2,4-Dinitrotoluene	LBS/DAY	24/-	Comp	ND	*
alpha-BHC	LBS/DAY	0.04/-	Comp	ND	*
bis (2-ethylhexyl) Phthalate	LBS/DAY	5.3/-	Comp	ND	*
n-Nitrosodimethylamine	LBS/DAY	22/-	Comp	ND	*
Pentachlorophenol	LBS/DAY	22/-	Comp	ND	*
TCDD TEQ_NoDNQ	LBS/DAY	3.70E-08/-	Comp	ND	--

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling events are dry discharges.

**OUTFALL 002 (South Slope below R-2 Pond)**

**ANNUAL 2011 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

January 1 through December 31, 2011

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	3/7/2011 <sup>(a)</sup>		
			Sample Type	Result	Concentration Result Validation Qualifier
Max Discharge for event	MGD	160	Meas	0.036425	
Ammonia as Nitrogen (N)	LBS/DAY	13,500/-	Comp	ND	U
Biochemical Oxygen Demand (BOD 5 day)	LBS/DAY	40,032/-	Comp	0.15	J (DNQ)
Chloride	LBS/DAY	200,160/-	Comp	7.90	--
Surfactants (MBAS)	LBS/DAY	667/-	Comp	ND	U
Fluoride	LBS/DAY	2,135/-	ANR	ANR	ANR
Nitrate + Nitrite as Nitrogen (N)	LBS/DAY	10,700/-	Comp	ND	U
Nitrate as Nitrogen (N)	LBS/DAY	10,700/-	Comp	ND	U
Nitrite-N	LBS/DAY	1,334/-	Comp	ND	U
Oil & Grease	LBS/DAY	20,016/-	Grab	ND	U
Perchlorate	LBS/DAY	8.0/-	Comp	ND	U
Sulfate	LBS/DAY	400,320/-	Comp	39.49	--
Total Cyanide	LBS/DAY	11/-	Comp	ND	U
Total Dissolved Solids	LBS/DAY	1,270,000/-	Comp	142.78	--
Total Suspended Solids	LBS/DAY	60,048/-	Comp	ND	U
Total Residual Chlorine (Field)	LBS/DAY	133/-	ANR	ANR	ANR
Antimony	LBS/DAY	8.0/-	ANR	ANR	ANR
Arsenic	LBS/DAY	67/-	ANR	ANR	ANR
Barium	LBS/DAY	1,330/-	ANR	ANR	ANR
Beryllium	LBS/DAY	5.3/-	ANR	ANR	ANR
Cadmium	LBS/DAY	(5.3) 4.1/-	Comp	ND	U
Chromium	LBS/DAY	22/-	ANR	ANR	ANR
Copper	LBS/DAY	19/-	Comp	0.0004	J (DNQ)
Iron	LBS/DAY	400/-	Comp	ND	U
Lead	LBS/DAY	6.9/-	Comp	ND	UJ (*III)
Manganese	LBS/DAY	66.7/-	ANR	ANR	ANR
Mercury	LBS/DAY	0.13/-	Comp	ND	U
Nickel	LBS/DAY	128/-	ANR	ANR	ANR
Selenium	LBS/DAY	(6.7) 11/-	Comp	ND	U
Silver	LBS/DAY	5.5/-	ANR	ANR	ANR
Thallium	LBS/DAY	2.7/-	ANR	ANR	ANR
Zinc	LBS/DAY	159/-	Comp	ND	U
1,2-Dichloroethane	LBS/DAY	0.67/-	Grab	ND	U
1,1-Dichloroethene	LBS/DAY	8.0/-	Grab	ND	U
Trichloroethene	LBS/DAY	6.7/-	Grab	ND	U
2,4,6-Trichlorophenol	LBS/DAY	17/-	Comp	ND	U
2,4-Dinitrotoluene	LBS/DAY	24/-	Comp	ND	U
alpha-BHC	LBS/DAY	0.04/-	Comp	ND	U
bis (2-ethylhexyl) Phthalate	LBS/DAY	5.3/-	Comp	ND	U
n-Nitrosodimethylamine	LBS/DAY	22/-	Comp	ND	U
Pentachlorophenol	LBS/DAY	22/-	Comp	ND	U
TCDD TEQ_NoDNQ	LBS/DAY	3.70E-08/-	Comp	ND	--

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling events are dry discharges.

**OUTFALL 002 (South Slope below R-2 Pond)**

**ANNUAL 2011 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

January 1 through December 31, 2011

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	3/20/2011		
			Sample Type	Result	Concentration Result Validation Qualifier
Max Discharge for event	MGD	160	Meas	10.3968	
Ammonia as Nitrogen (N)	LBS/DAY	13,500/-	Comp	ND	*
Biochemical Oxygen Demand (BOD 5 day)	LBS/DAY	40,032/-	Comp	251.46	*
Chloride	LBS/DAY	200,160/-	Comp	745.70	*
Surfactants (MBAS)	LBS/DAY	667/-	Comp	ND	*
Fluoride	LBS/DAY	2,135/-	ANR	ANR	ANR
Nitrate + Nitrite as Nitrogen (N)	LBS/DAY	10,700/-	Comp	26.01	*
Nitrate as Nitrogen (N)	LBS/DAY	10,700/-	Comp	26.01	*
Nitrite-N	LBS/DAY	1,334/-	Comp	ND	*
Oil & Grease	LBS/DAY	20,016/-	Grab	ND	*
Perchlorate	LBS/DAY	8.0/-	Comp	ND	U
Sulfate	LBS/DAY	400,320/-	Comp	3208.24	*
Total Cyanide	LBS/DAY	11/-	Comp	ND	*
Total Dissolved Solids	LBS/DAY	1,270,000/-	Comp	15607.68	*
Total Suspended Solids	LBS/DAY	60,048/-	Comp	5462.69	--
Total Residual Chlorine (Field)	LBS/DAY	133/-	ANR	ANR	ANR
Antimony	LBS/DAY	8.0/-	ANR	ANR	ANR
Arsenic	LBS/DAY	67/-	ANR	ANR	ANR
Barium	LBS/DAY	1,330/-	ANR	ANR	ANR
Beryllium	LBS/DAY	5.3/-	ANR	ANR	ANR
Cadmium	LBS/DAY	(5.3) 4.1/-	Comp	0.01	Ja*
Chromium	LBS/DAY	22/-	ANR	ANR	ANR
Copper	LBS/DAY	19/-	Comp	0.52	*
Iron	LBS/DAY	400/-	Comp	468.23	--
Lead	LBS/DAY	6.9/-	Comp	0.26	*
Manganese	LBS/DAY	66.7/-	ANR	ANR	ANR
Mercury	LBS/DAY	0.13/-	Comp	ND	U
Nickel	LBS/DAY	128/-	ANR	ANR	ANR
Selenium	LBS/DAY	(6.7) 11/-	Comp	ND	*
Silver	LBS/DAY	5.5/-	ANR	ANR	ANR
Thallium	LBS/DAY	2.7/-	ANR	ANR	ANR
Zinc	LBS/DAY	159/-	Comp	2.64	--
1,2-Dichloroethane	LBS/DAY	0.67/-	Grab	ND	*
1,1-Dichloroethene	LBS/DAY	8.0/-	Grab	ND	*
Trichloroethene	LBS/DAY	6.7/-	Grab	ND	*
2,4,6-Trichlorophenol	LBS/DAY	17/-	Comp	ND	*
2,4-Dinitrotoluene	LBS/DAY	24/-	Comp	ND	*
alpha-BHC	LBS/DAY	0.04/-	Comp	ND	C*
bis (2-ethylhexyl) Phthalate	LBS/DAY	5.3/-	Comp	ND	*
n-Nitrosodimethylamine	LBS/DAY	22/-	Comp	ND	*
Pentachlorophenol	LBS/DAY	22/-	Comp	ND	*
TCDD TEQ_NoDNQ	LBS/DAY	3.70E-08/-	Comp	4.32E-09	--

See attached notes for abbreviations, definitions, and other explanations for the data presented.

<sup>(a)</sup> Based on peak LA River flow, sampling events are dry discharges.

**OUTFALL 002 (South Slope below R-2 Pond)**

**ANNUAL 2011 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

January 1 through December 31, 2011

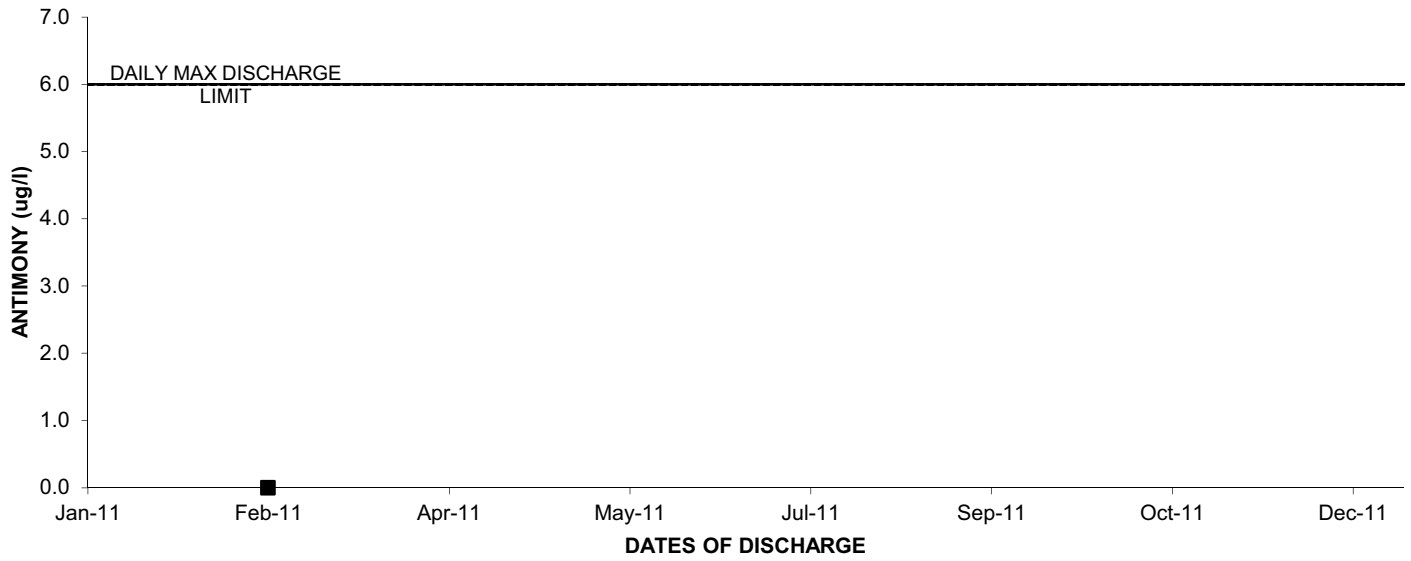
ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	07/20/2011-07/21/2011 <sup>(a)</sup>		
			Sample Type	Result	Concentration Result Validation Qualifier
Max Discharge for event	MGD	160	Meas	0.757265	
Ammonia as Nitrogen (N)	LBS/DAY	13,500/-	Comp	ND	*
Biochemical Oxygen Demand (BOD 5 day)	LBS/DAY	40,032/-	Comp	10.74	Ja* (DNQ)
Chloride	LBS/DAY	200,160/-	Comp	265.25	*
Surfactants (MBAS)	LBS/DAY	667/-	Comp	0.59	Ja* (DNQ)
Fluoride	LBS/DAY	2,135/-			
Nitrate + Nitrite as Nitrogen (N)	LBS/DAY	10,700/-	Comp	ND	*
Nitrate as Nitrogen (N)	LBS/DAY	10,700/-	Comp	0.56	Ja* (DNQ)
Nitrite-N	LBS/DAY	1,334/-	Comp	ND	*
Oil & Grease	LBS/DAY	20,016/-	Grab	ND	*
Perchlorate	LBS/DAY	8.0/-	Comp	ND	U
Sulfate	LBS/DAY	400,320/-	Comp	884.18	*
Total Cyanide	LBS/DAY	11/-	Comp	ND	*
Total Dissolved Solids	LBS/DAY	1,270,000/-	Comp	2778.86	*
Total Suspended Solids	LBS/DAY	60,048/-	Comp	ND	*
Total Residual Chlorine (Field)	LBS/DAY	133/-	ANR	ANR	ANR
Antimony	LBS/DAY	8.0/-	ANR	ANR	ANR
Arsenic	LBS/DAY	67/-	ANR	ANR	ANR
Barium	LBS/DAY	1,330/-	ANR	ANR	ANR
Beryllium	LBS/DAY	5.3/-	ANR	ANR	ANR
Cadmium	LBS/DAY	(5.3) 4.1/-	Comp	ND	*
Chromium	LBS/DAY	22/-	ANR	ANR	ANR
Copper	LBS/DAY	19/-	Comp	0.01	Ja* (DNQ)
Iron	LBS/DAY	400/-	Comp	0.26	B*
Lead	LBS/DAY	6.9/-	Comp	ND	*
Manganese	LBS/DAY	66.7/-	ANR	ANR	ANR
Mercury	LBS/DAY	0.13/-	Comp	ND	U
Nickel	LBS/DAY	128/-	ANR	ANR	ANR
Selenium	LBS/DAY	(6.7) 11/-	Comp	ND	*
Silver	LBS/DAY	5.5/-	ANR	ANR	ANR
Thallium	LBS/DAY	2.7/-	ANR	ANR	ANR
Zinc	LBS/DAY	159/-	Comp	ND	*
1,2-Dichloroethane	LBS/DAY	0.67/-	Grab	ND	*
1,1-Dichloroethene	LBS/DAY	8.0/-	Grab	ND	*
Trichloroethene	LBS/DAY	6.7/-	Grab	ND	*
2,4,6-Trichlorophenol	LBS/DAY	17/-	Comp	ND	*
2,4-Dinitrotoluene	LBS/DAY	24/-	Comp	ND	*
alpha-BHC	LBS/DAY	0.04/-	Comp	ND	*
bis (2-ethylhexyl) Phthalate	LBS/DAY	5.3/-	Comp	ND	*
n-Nitrosodimethylamine	LBS/DAY	22/-	Comp	ND	*
Pentachlorophenol	LBS/DAY	22/-	Comp	ND	*
TCDD TEQ_NoDNQ	LBS/DAY	3.70E-08/-	Comp	ND	--

See attached notes for abbreviations, definitions, and other explanations for the data presented.

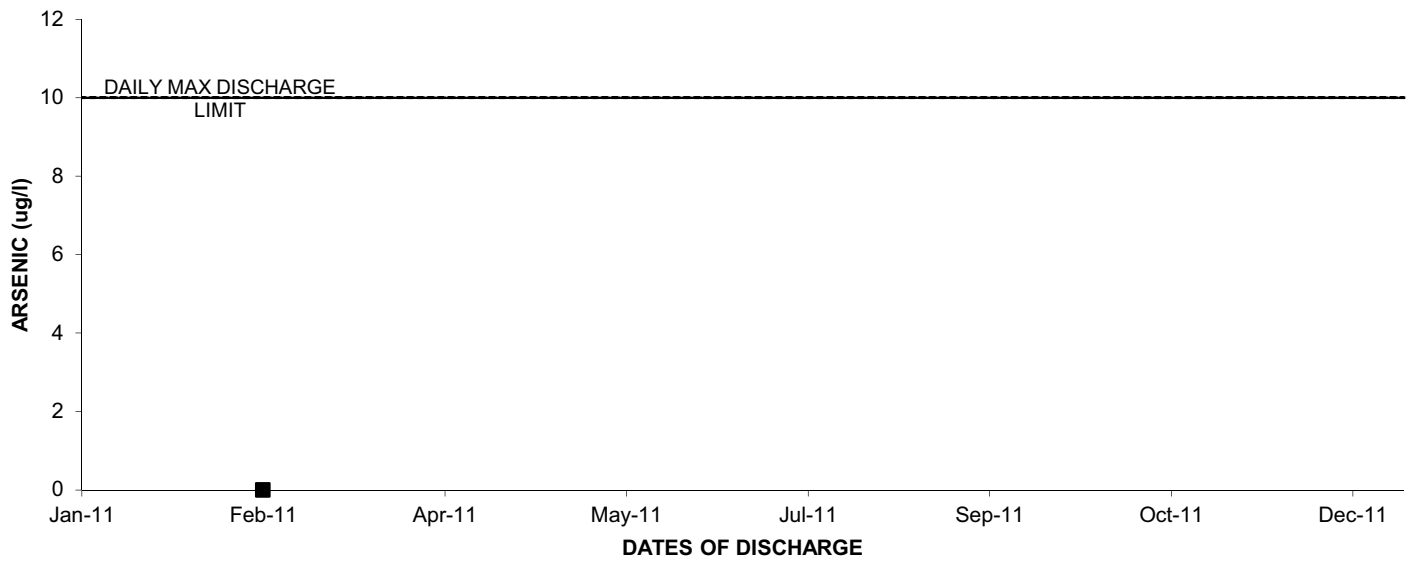
<sup>(a)</sup> Based on peak LA River flow, sampling events are dry discharges.



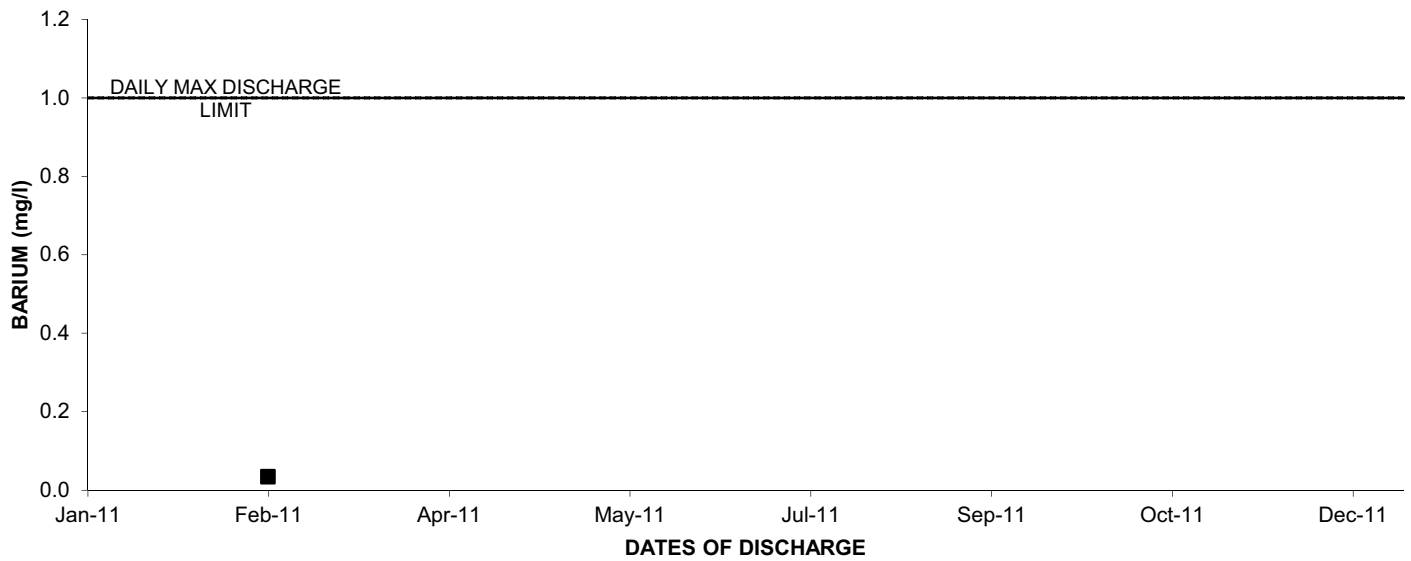
### 2011: OUTFALL 002 ANTIMONY



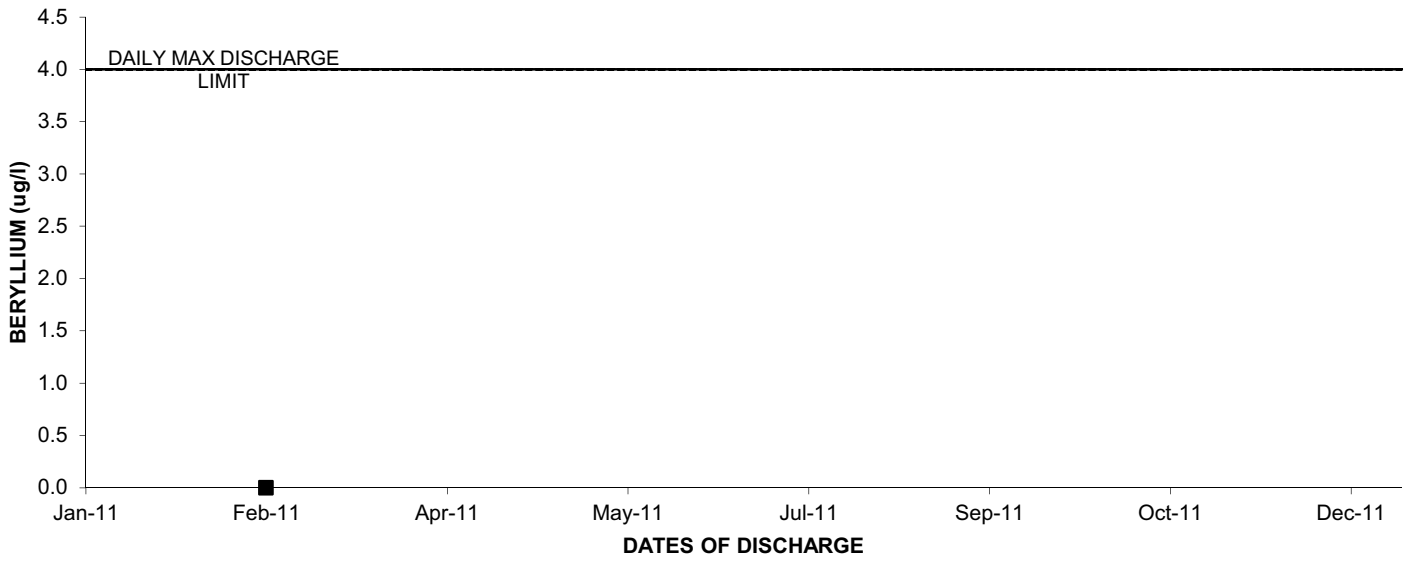
### 2011: OUTFALL 002 ARSENIC



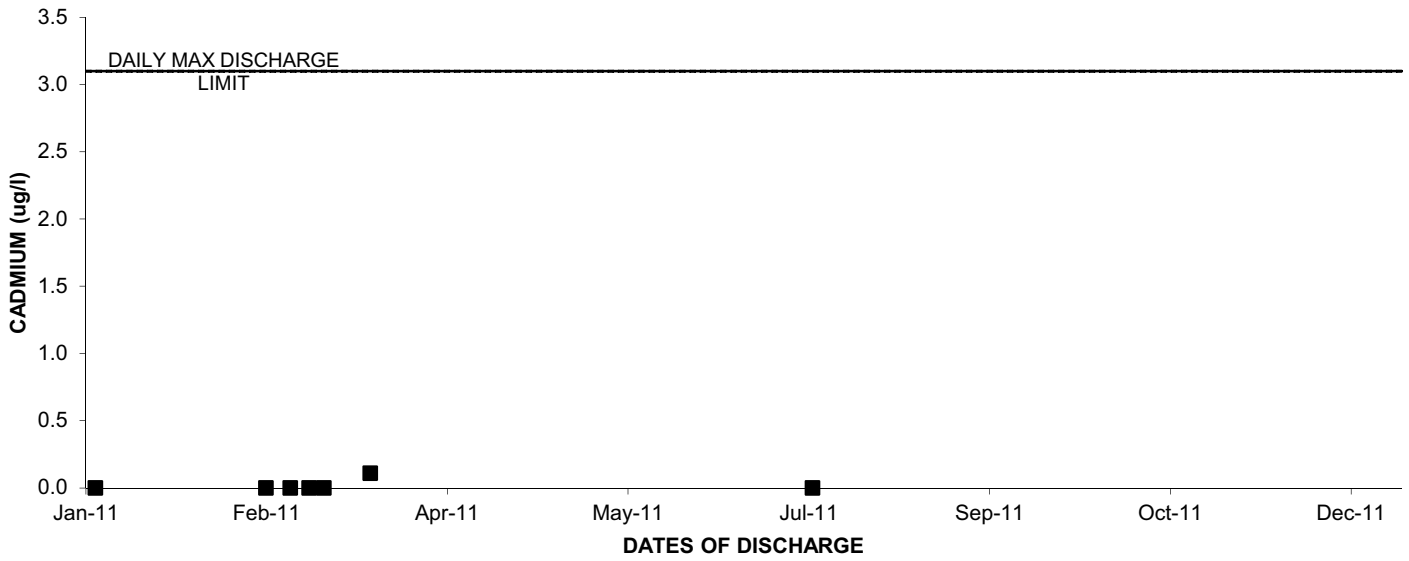
### 2011: OUTFALL 002 BARIUM



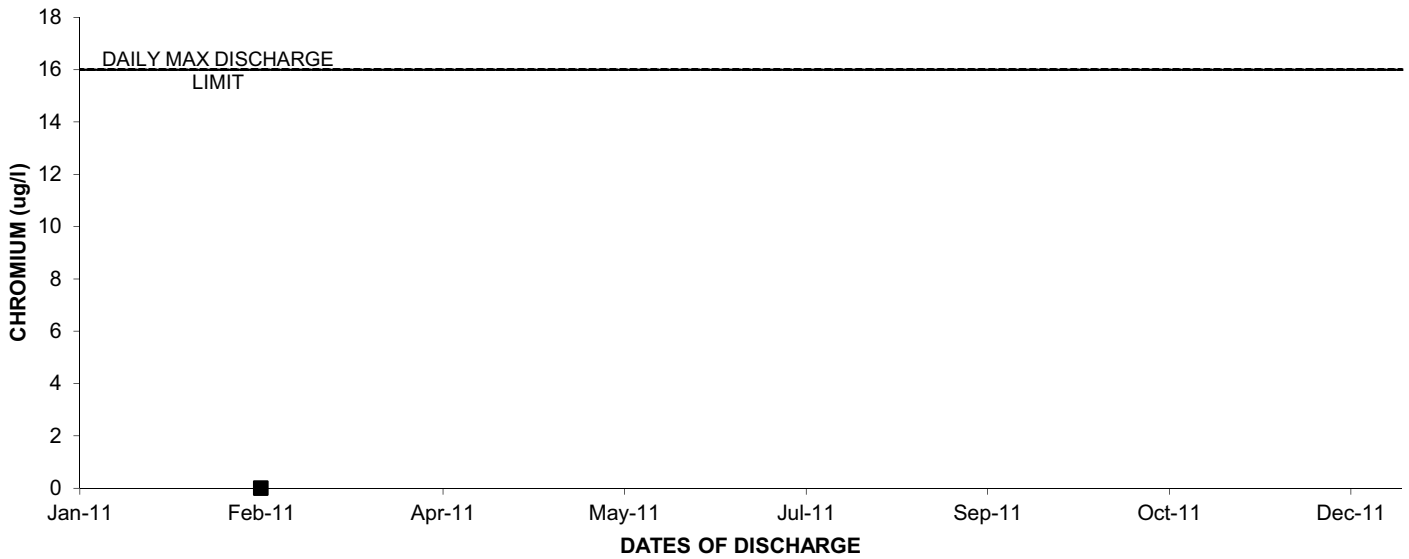
### 2011: OUTFALL 002 BERYLLIUM



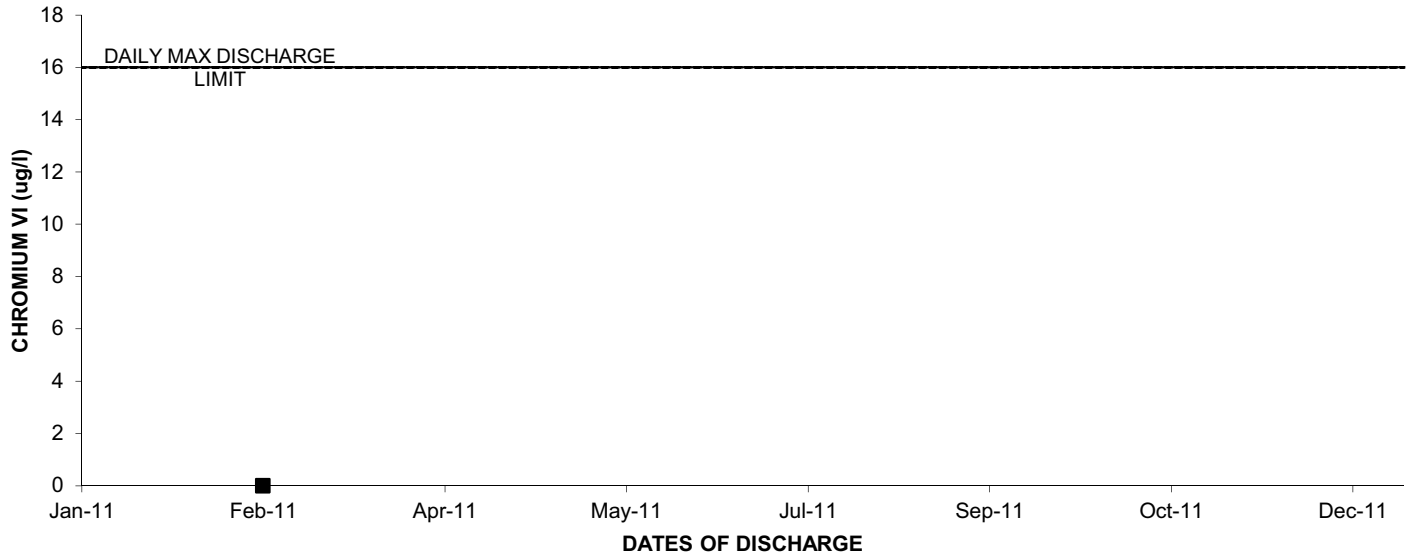
### 2011: OUTFALL 002 CADMIUM



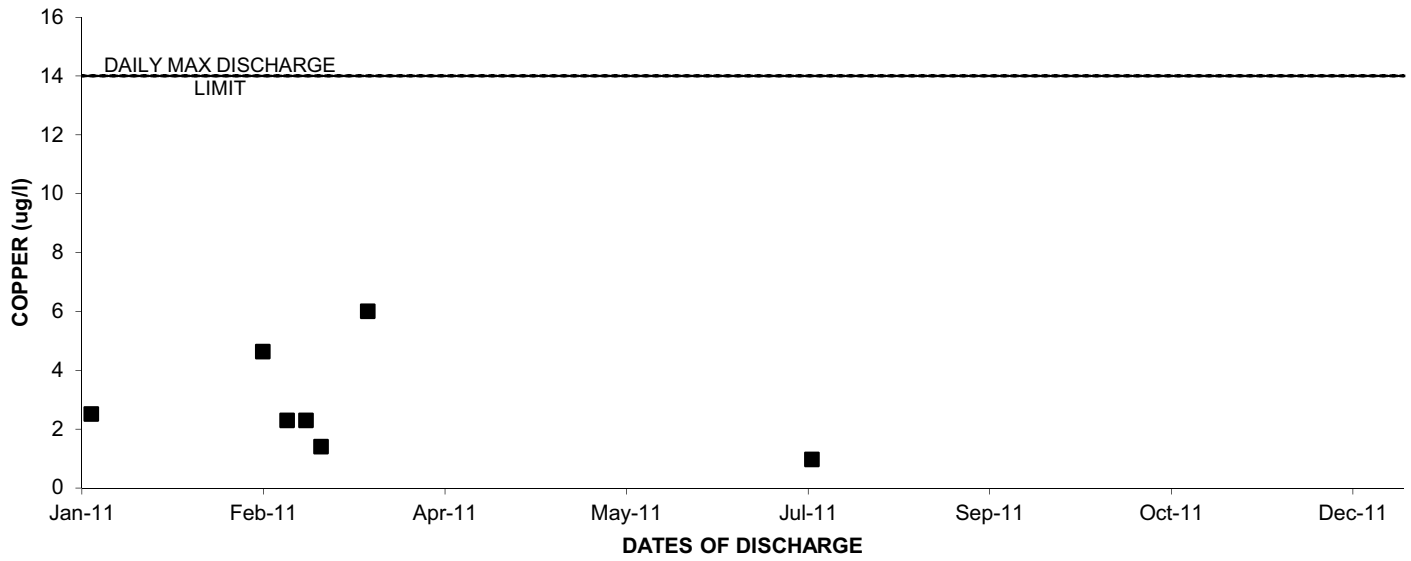
### 2011: OUTFALL 002 CHROMIUM



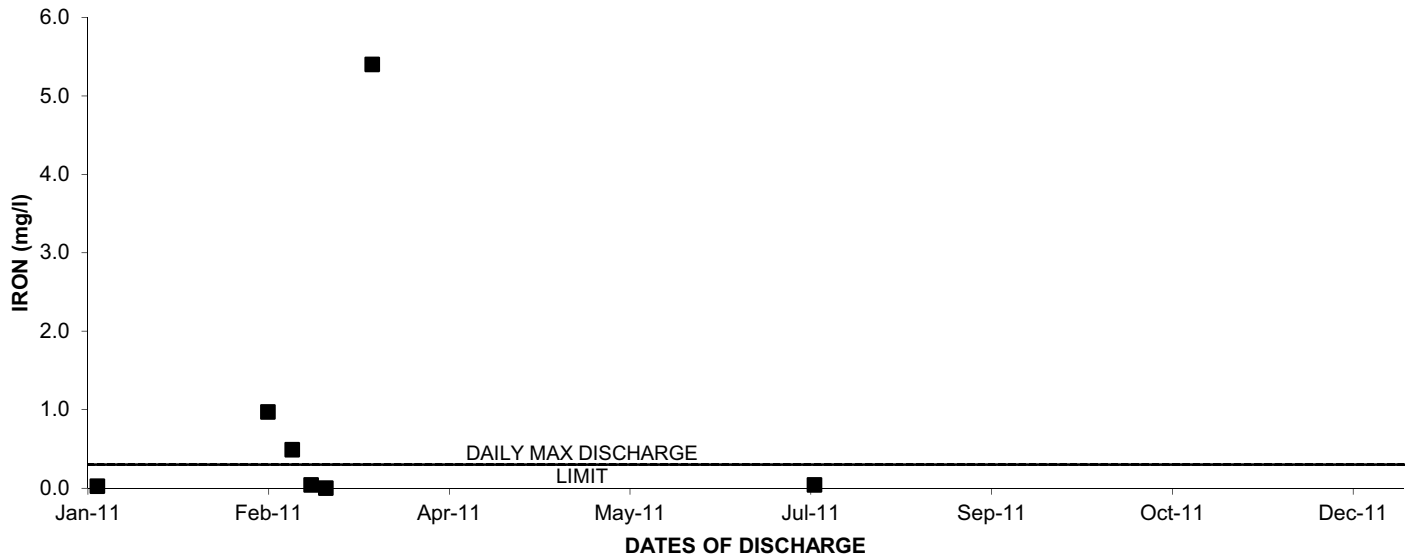
### 2011: OUTFALL 002 CHROMIUM VI



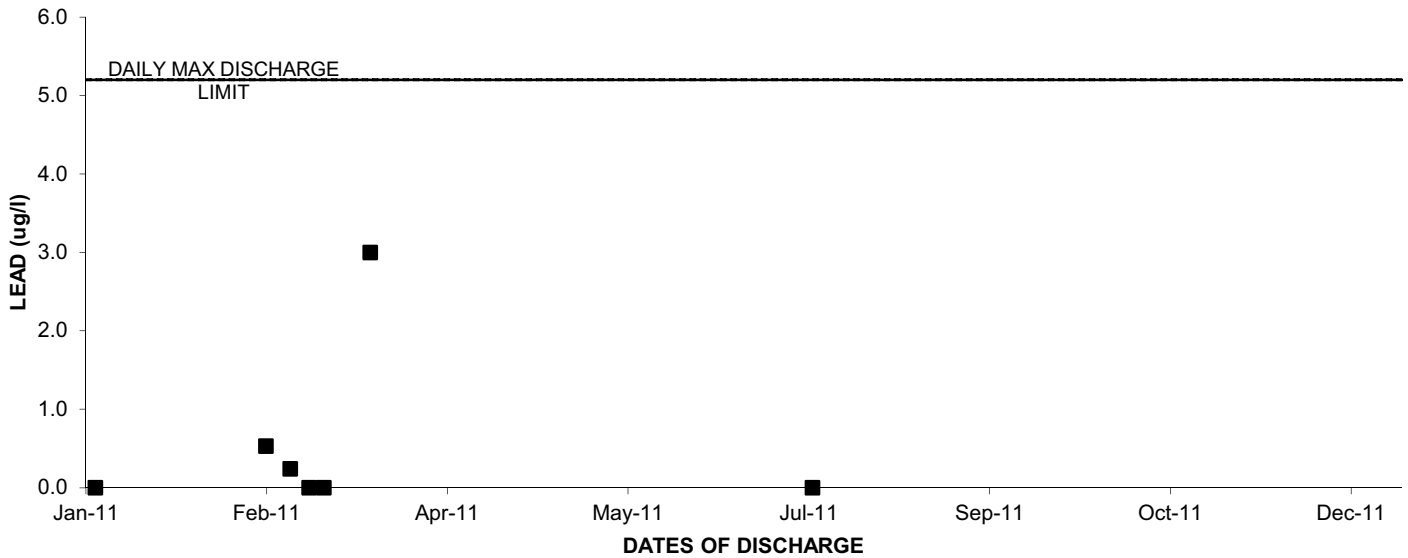
### 2011: OUTFALL 002 COPPER



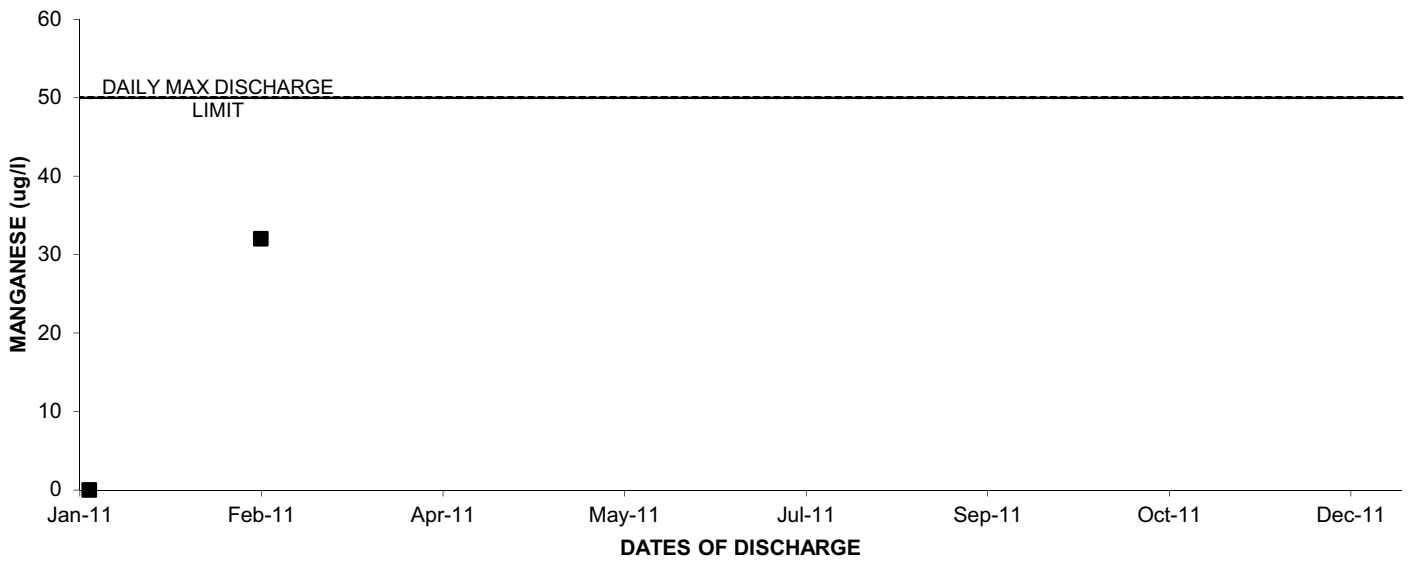
### 2011: OUTFALL 002 IRON



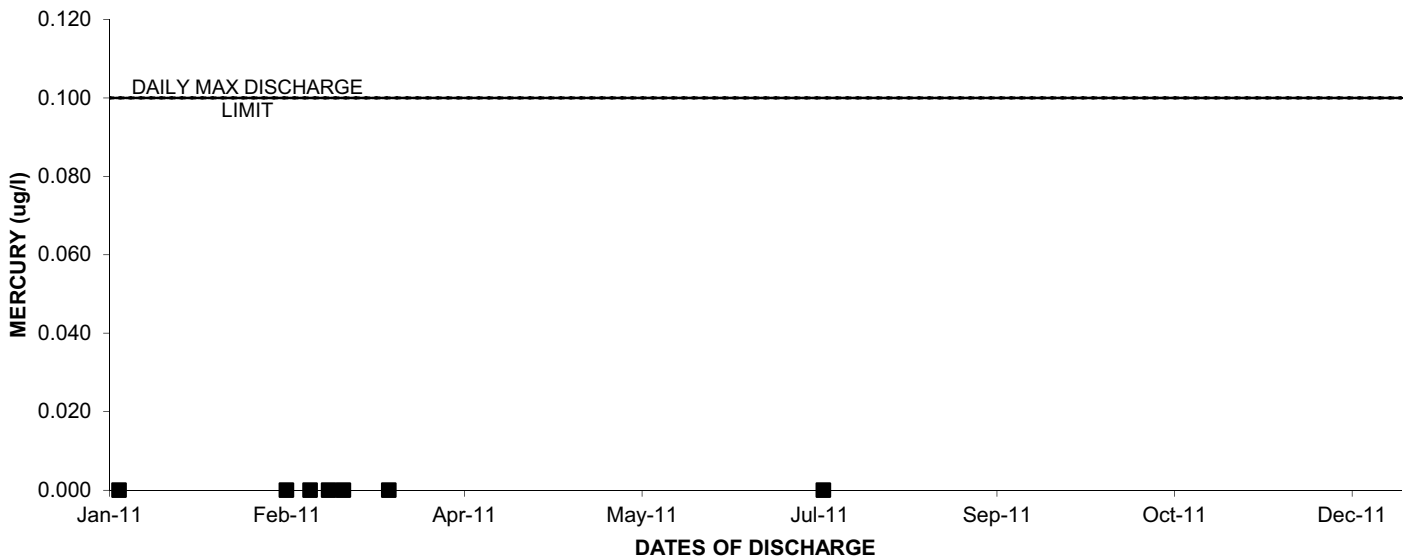
### 2011: OUTFALL 002 LEAD



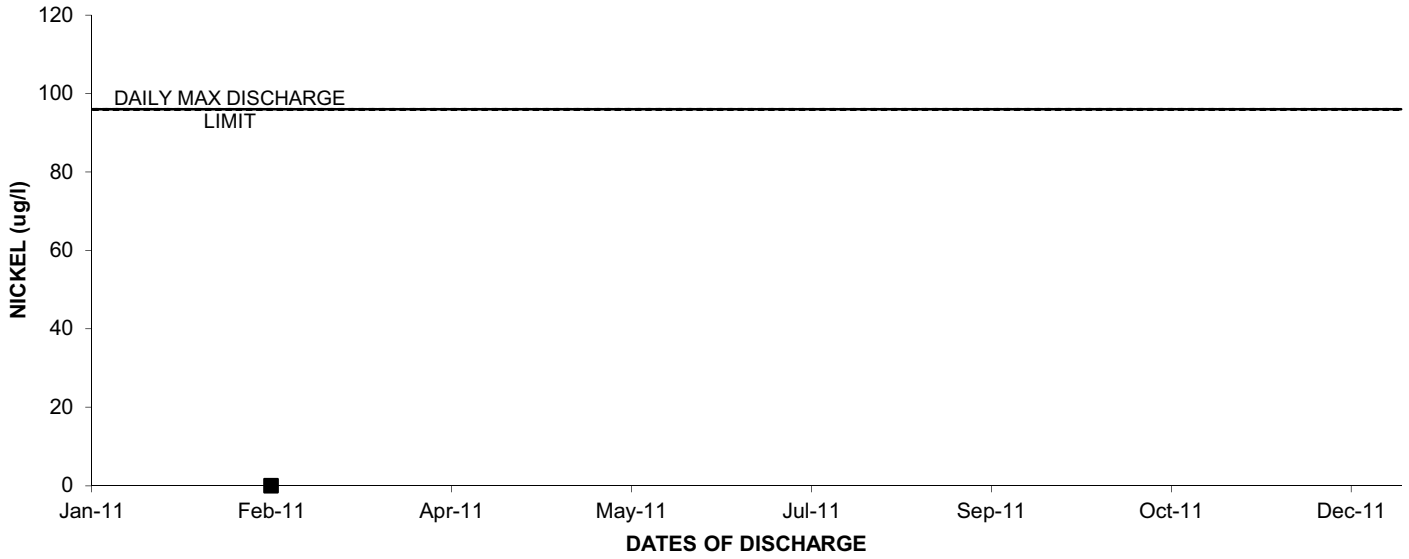
### 2011: OUTFALL 002 MANGANESE



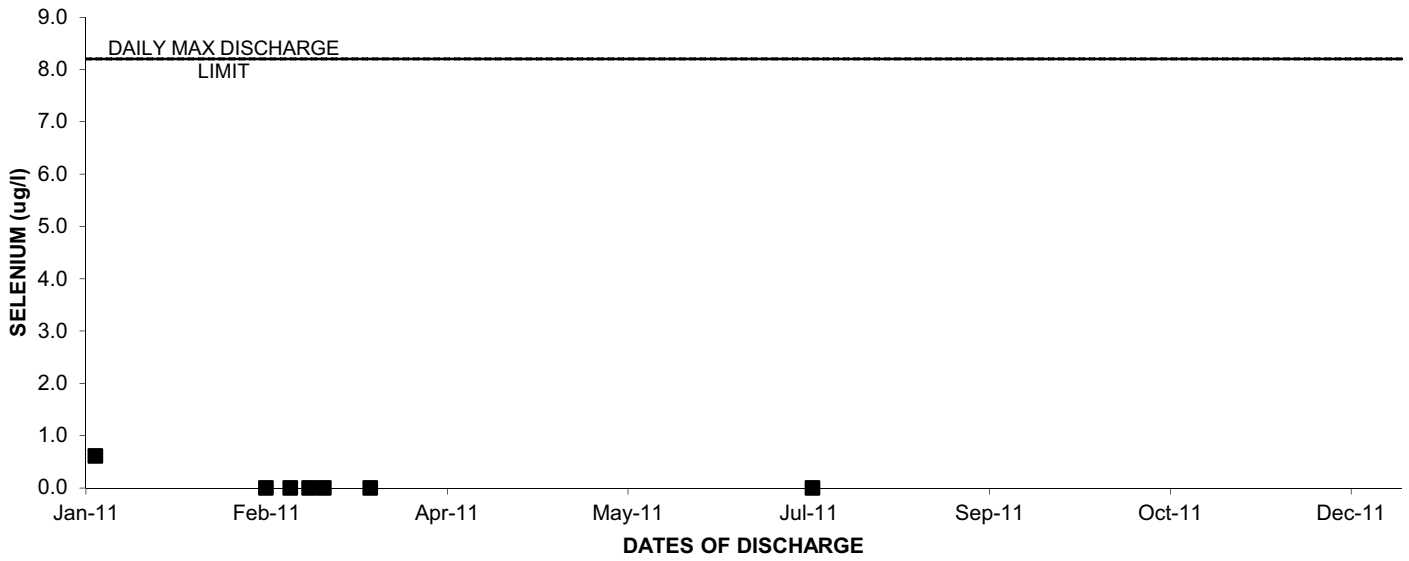
### 2011: OUTFALL 002 MERCURY



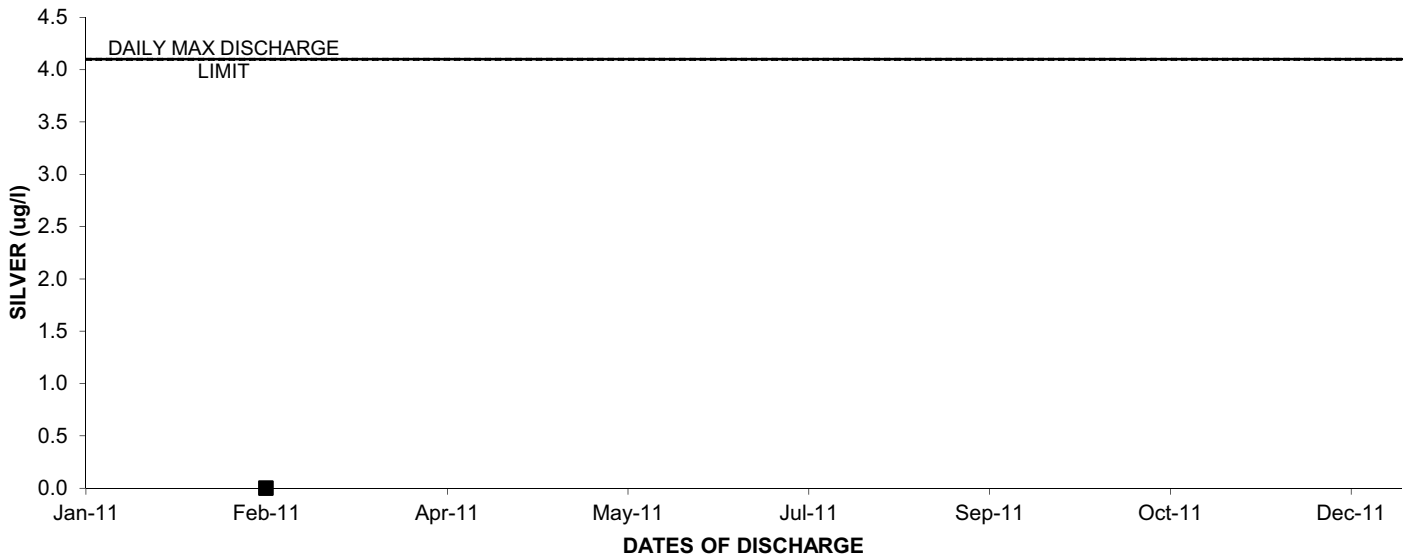
### 2011: OUTFALL 002 NICKEL



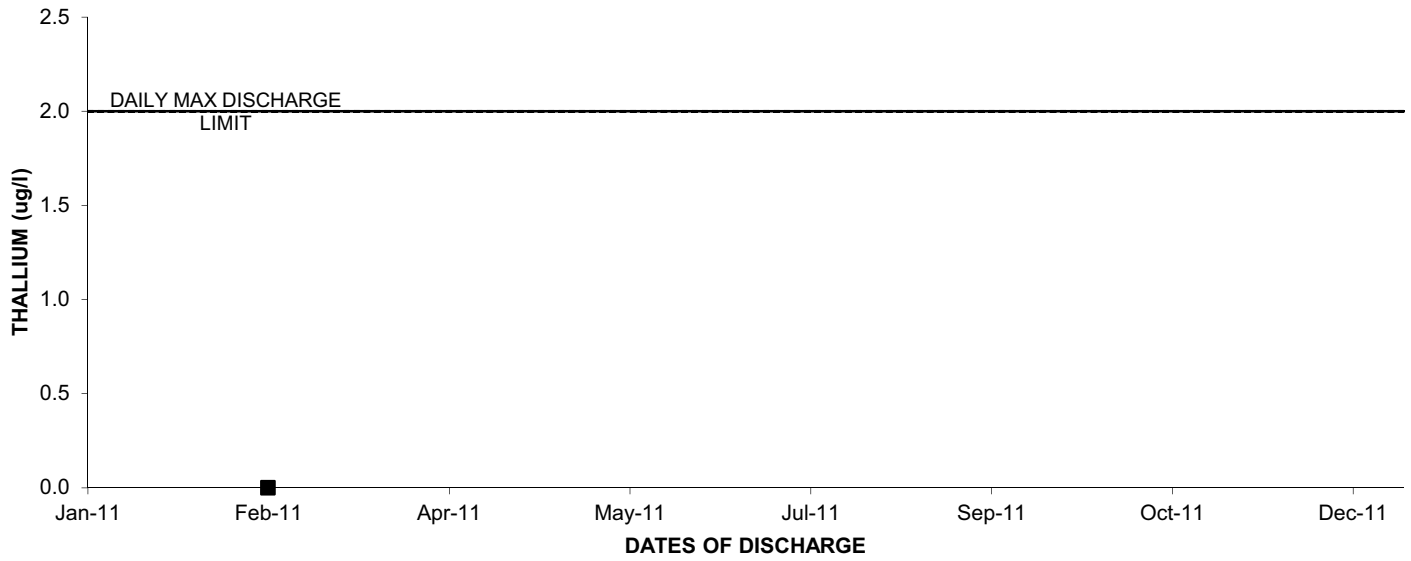
### 2011: OUTFALL 002 SELENIUM



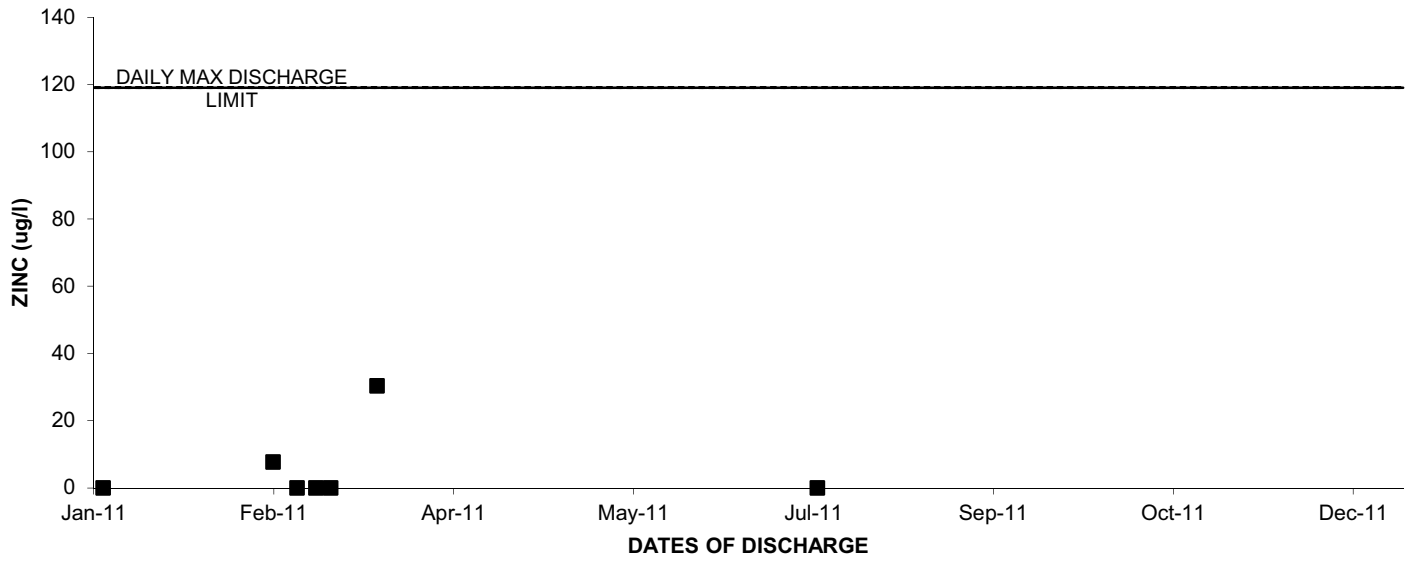
### 2011: OUTFALL 002 SILVER



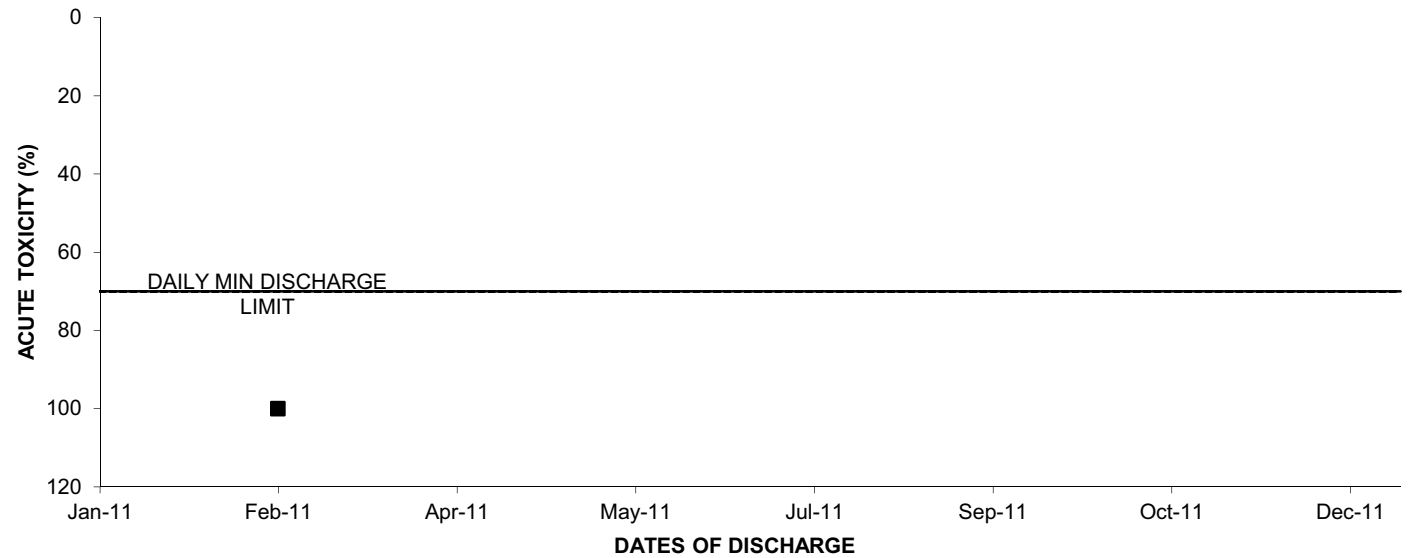
### 2011: OUTFALL 002 THALLIUM



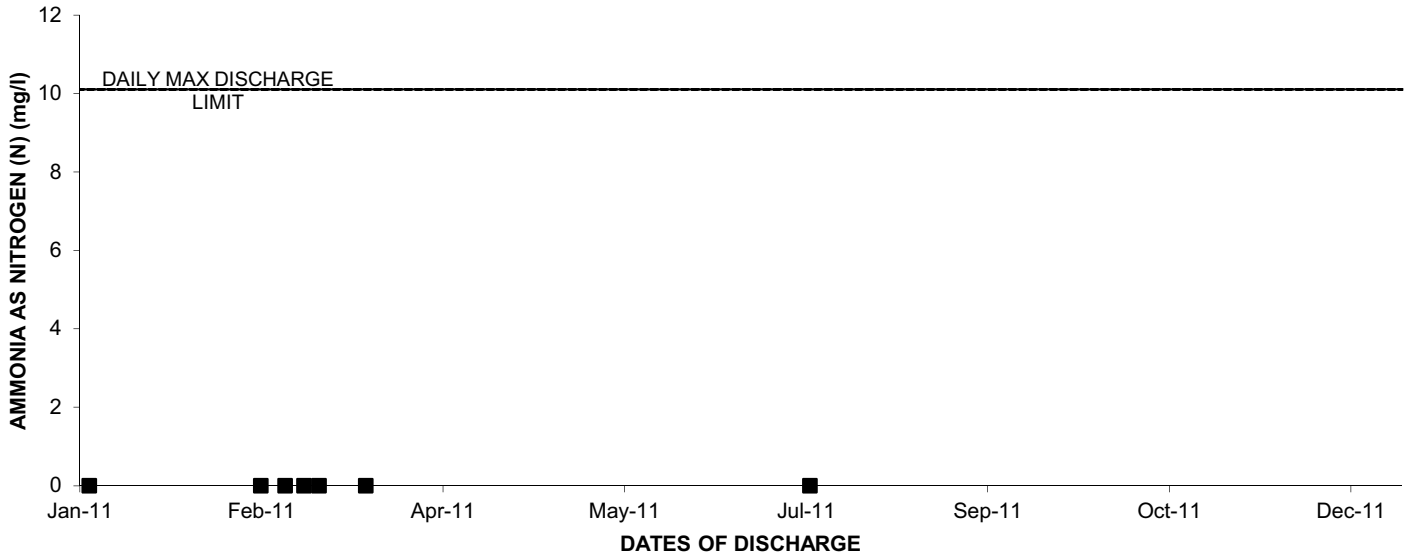
### 2011: OUTFALL 002 ZINC



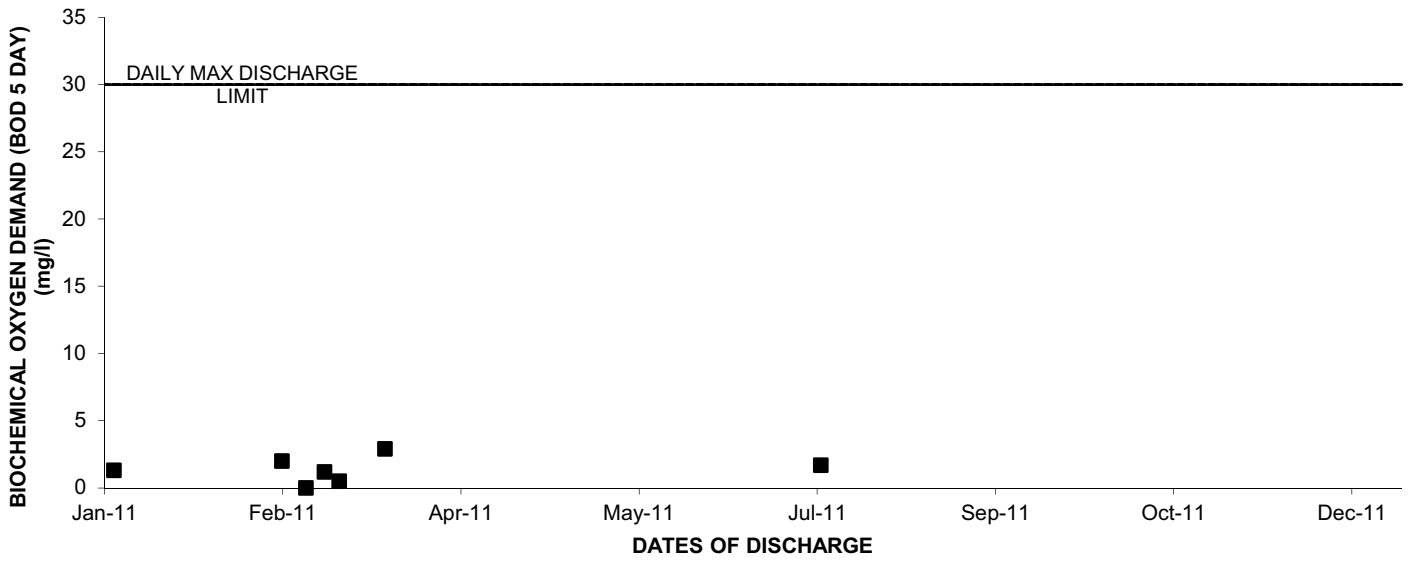
### 2011: OUTFALL 002 ACUTE TOXICITY



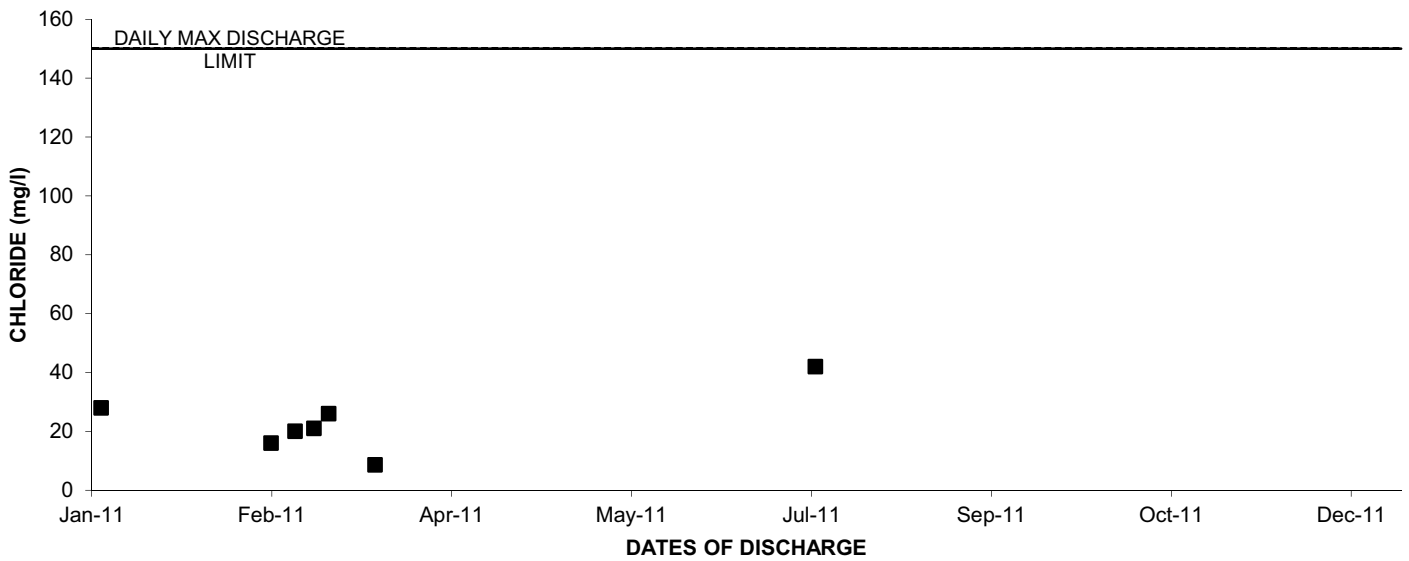
### 2011: OUTFALL 002 AMMONIA AS NITROGEN (N)



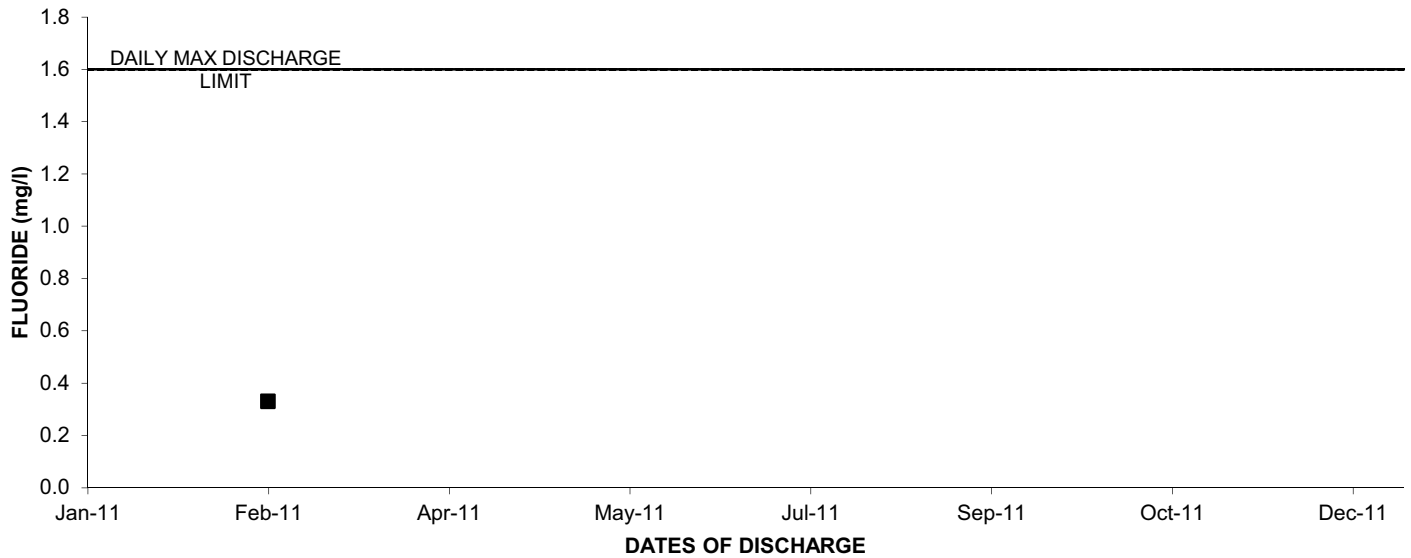
### 2011: OUTFALL 002 BIOCHEMICAL OXYGEN DEMAND (BOD 5 DAY)



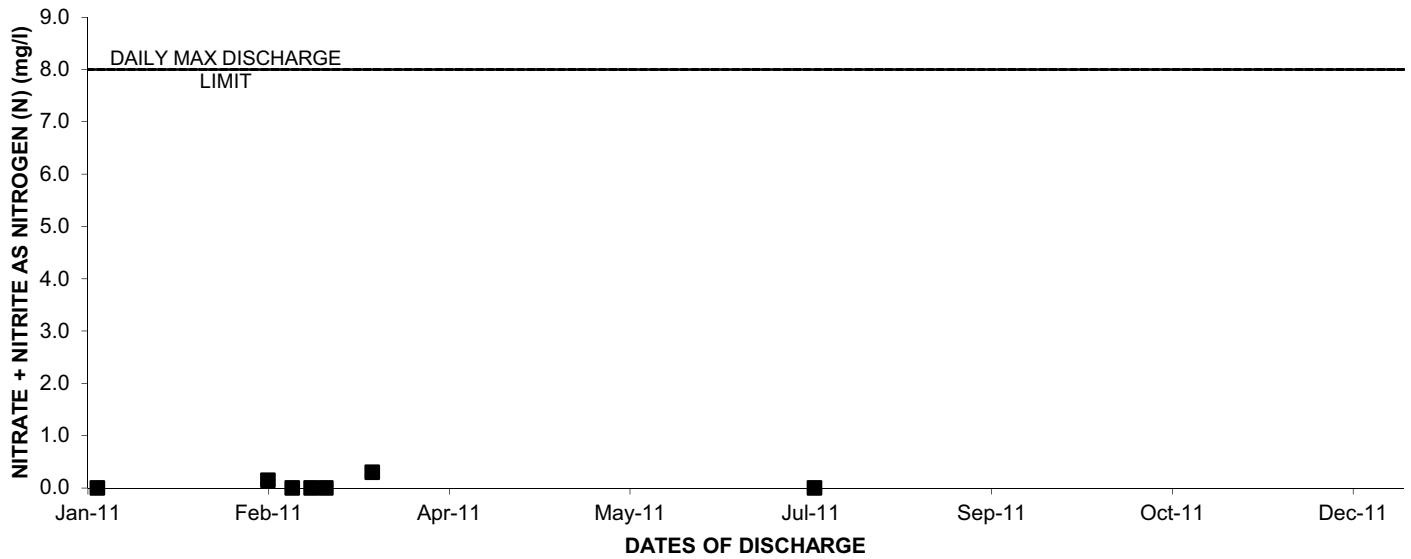
### 2011: OUTFALL 002 CHLORIDE



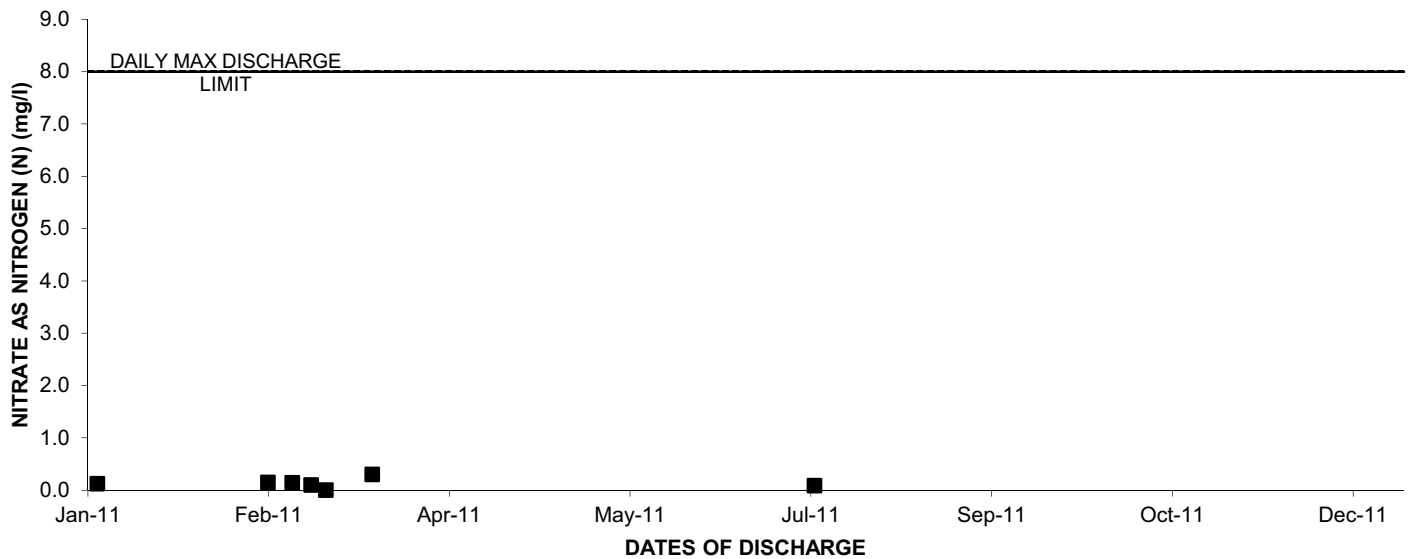
### 2011: OUTFALL 002 FLUORIDE



### 2011: OUTFALL 002 NITRATE + NITRITE AS NITROGEN (N)

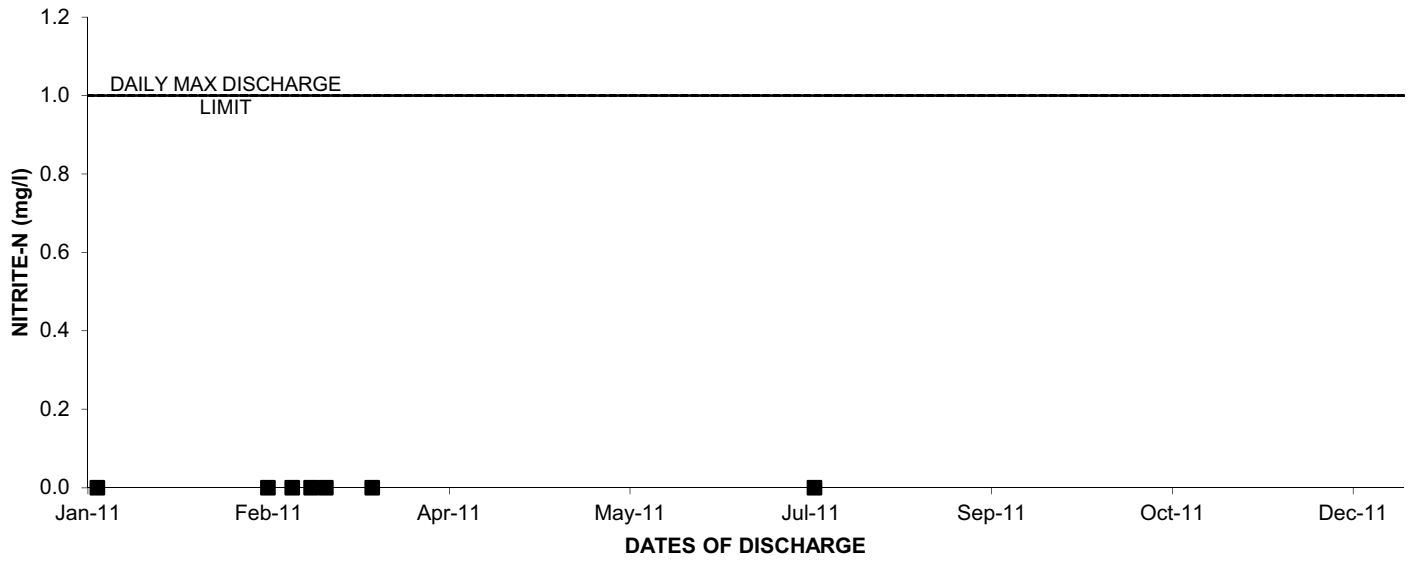


### 2011: OUTFALL 002 NITRATE AS NITROGEN (N)

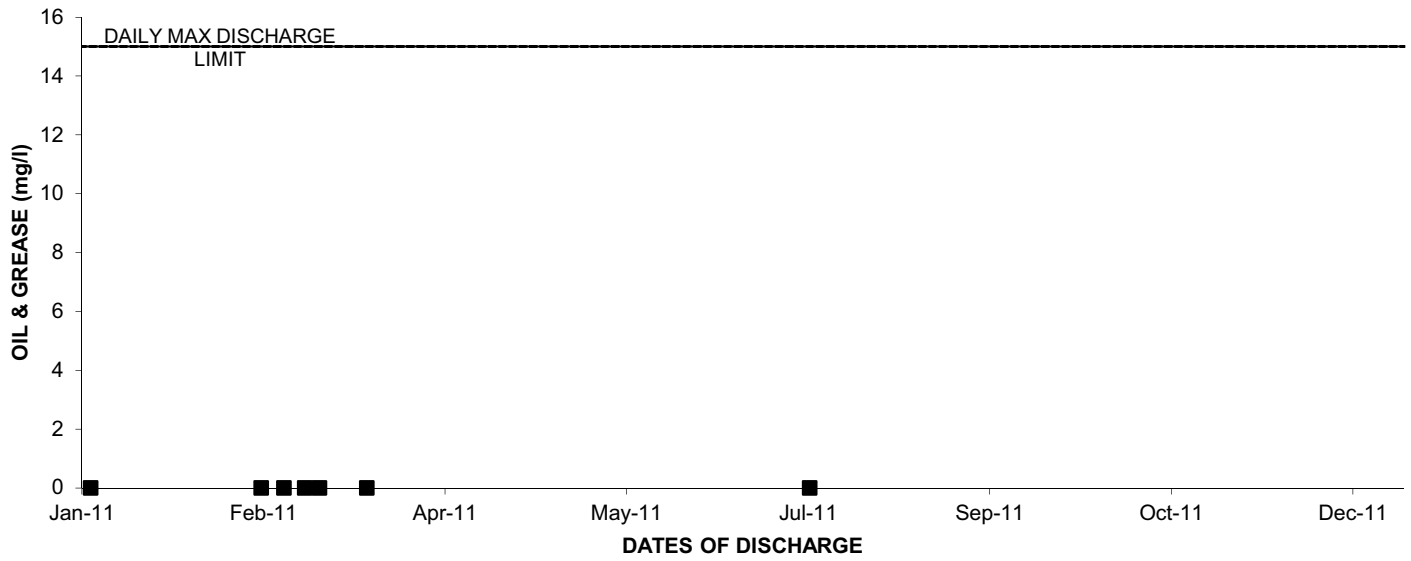




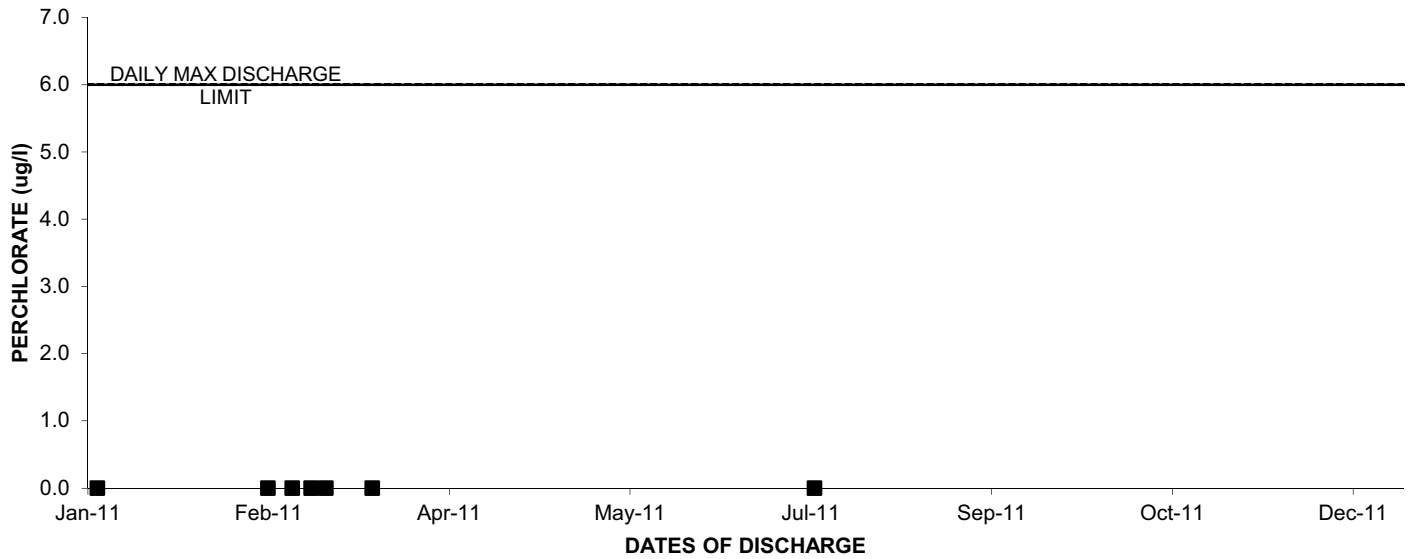
### 2011: OUTFALL 002 NITRITE-N



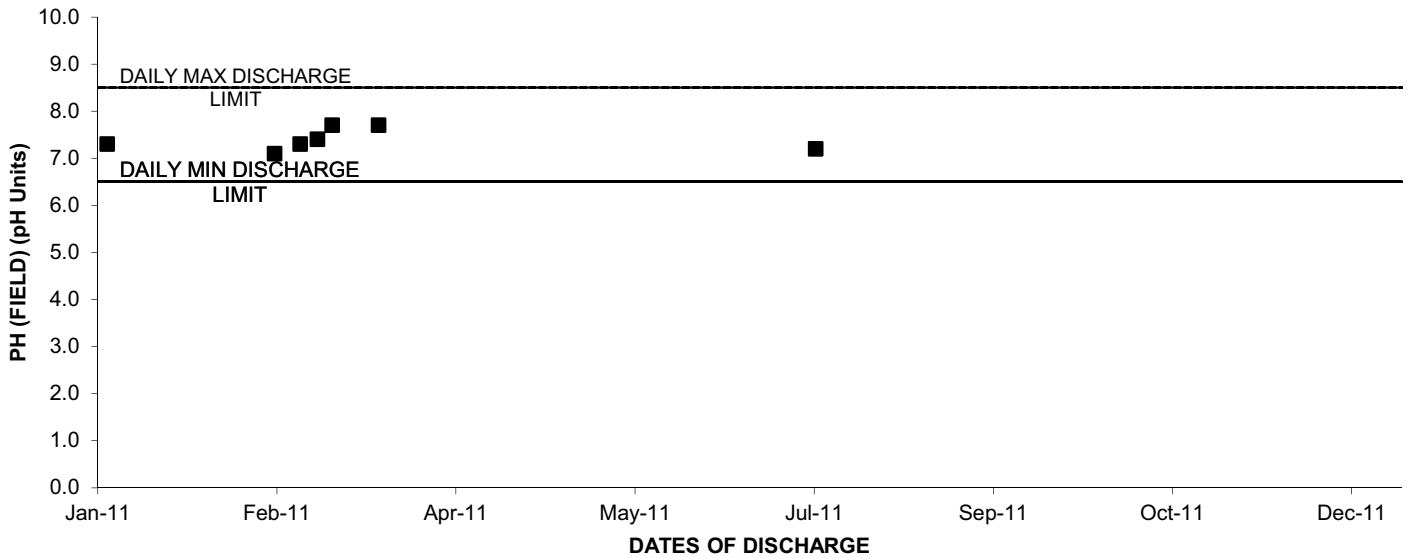
### 2011: OUTFALL 002 OIL & GREASE



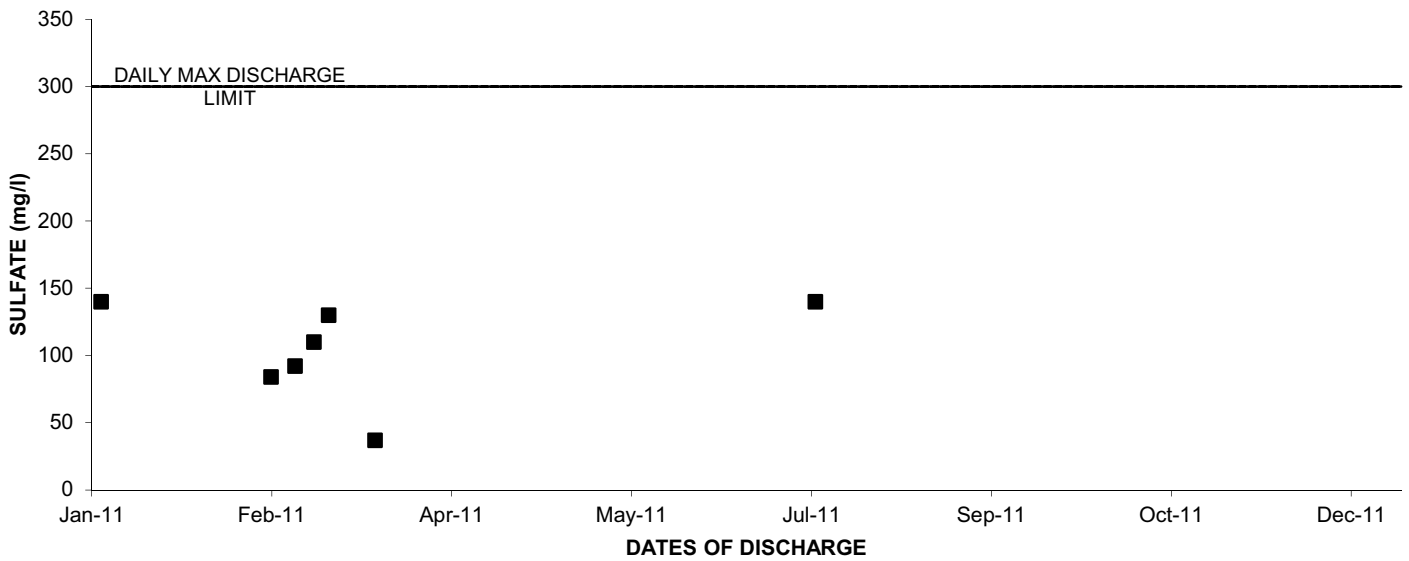
### 2011: OUTFALL 002 PERCHLORATE



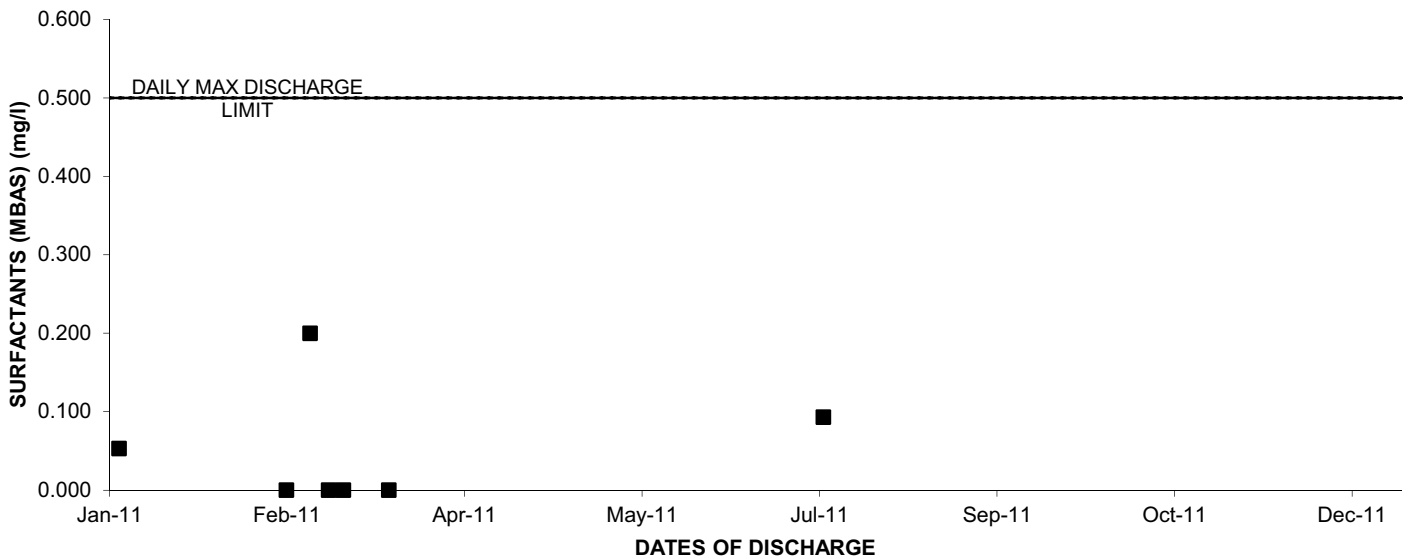
### 2011: OUTFALL 002 PH (FIELD)



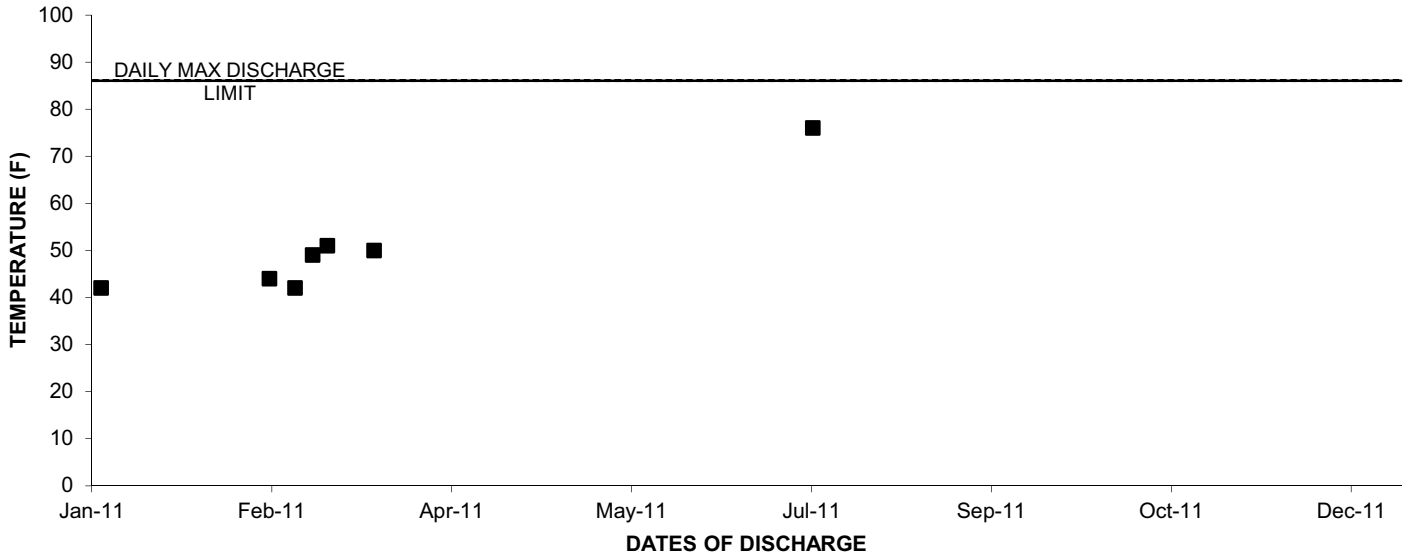
### 2011: OUTFALL 002 SULFATE



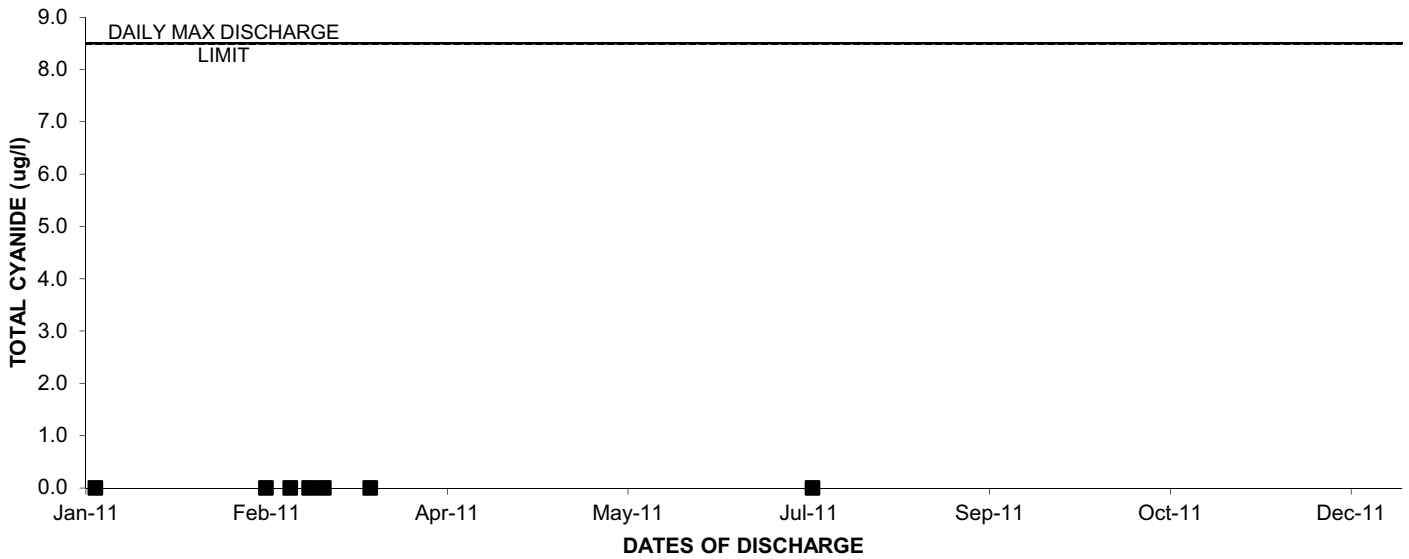
### 2011: OUTFALL 002 SURFACTANTS (MBAS)



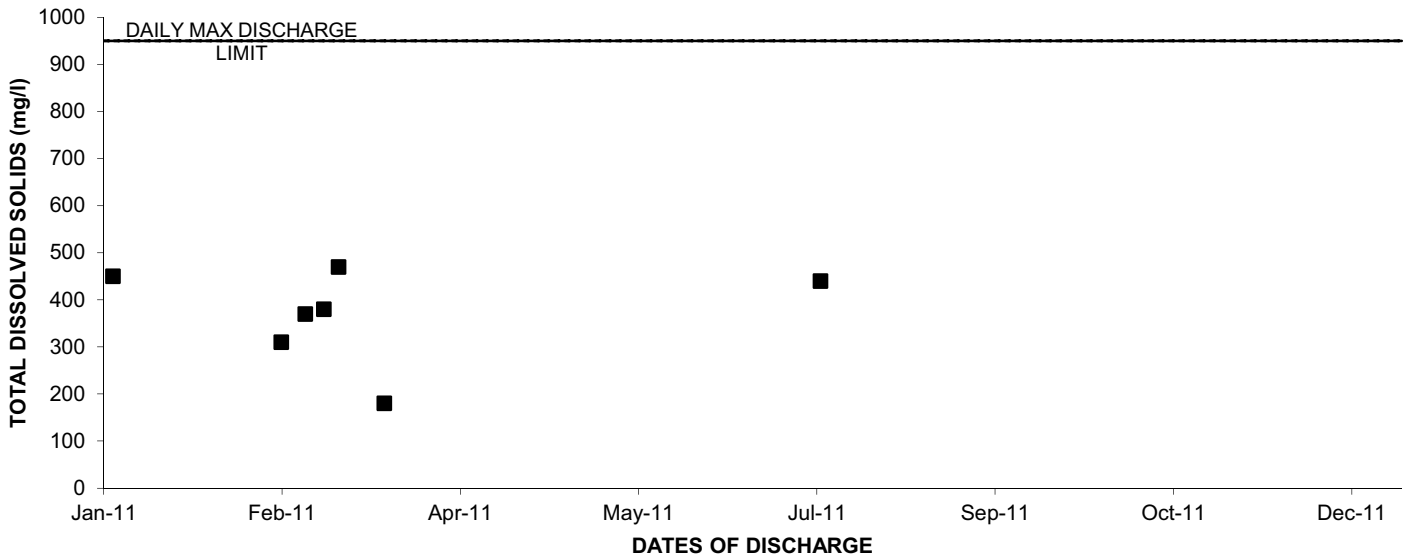
### 2011: OUTFALL 002 TEMPERATURE



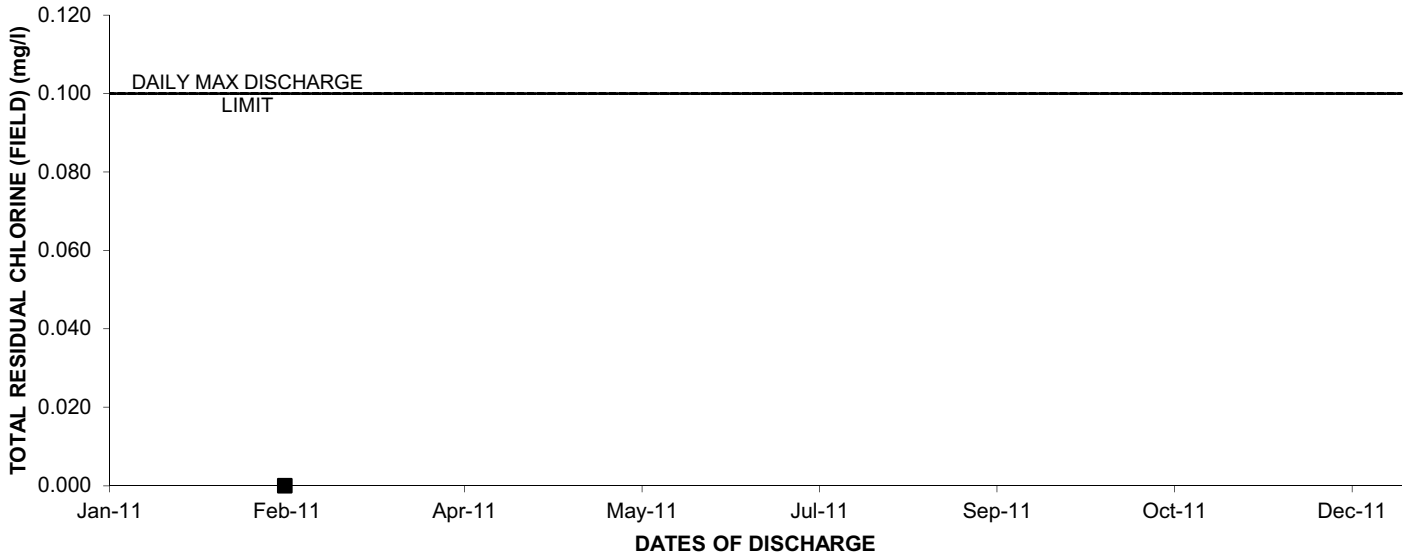
### 2011: OUTFALL 002 TOTAL CYANIDE



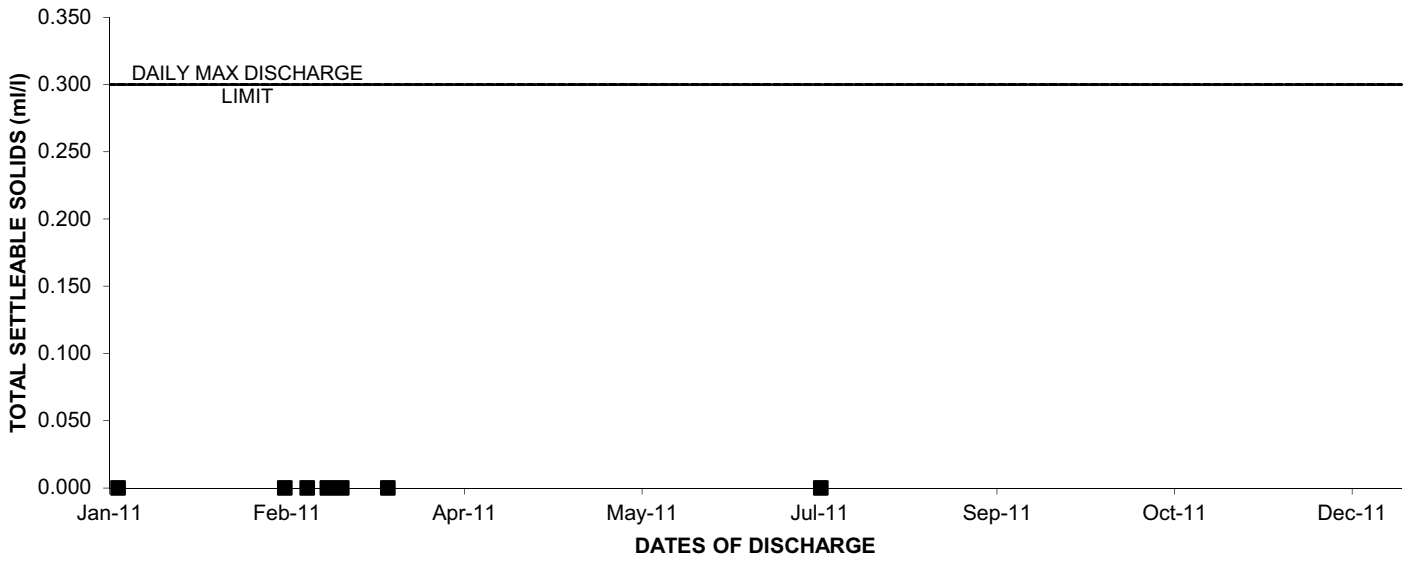
### 2011: OUTFALL 002 TOTAL DISSOLVED SOLIDS



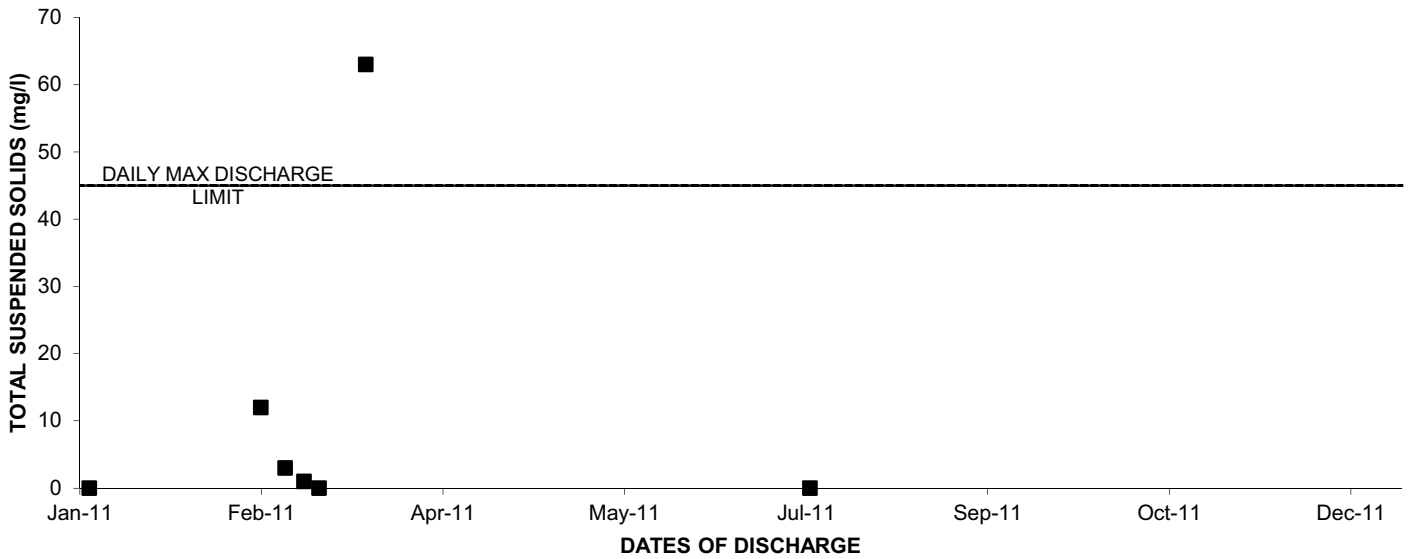
### 2011: OUTFALL 002 TOTAL RESIDUAL CHLORINE (FIELD)



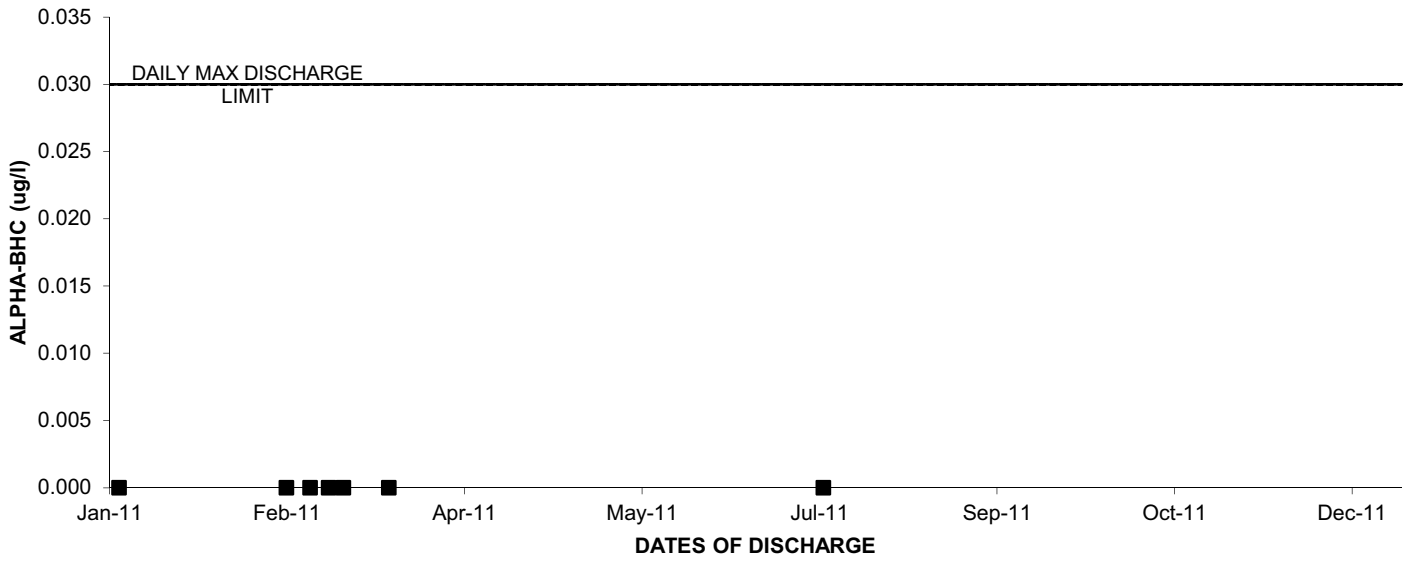
### 2011: OUTFALL 002 TOTAL SETTLEABLE SOLIDS



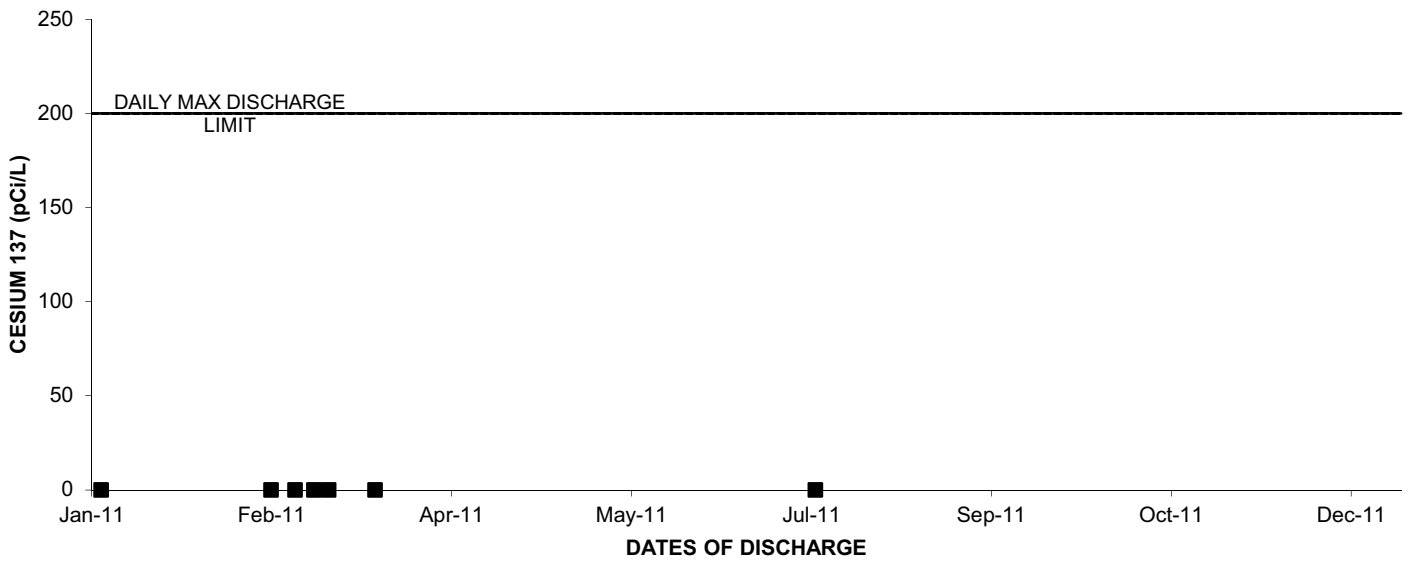
### 2011: OUTFALL 002 TOTAL SUSPENDED SOLIDS



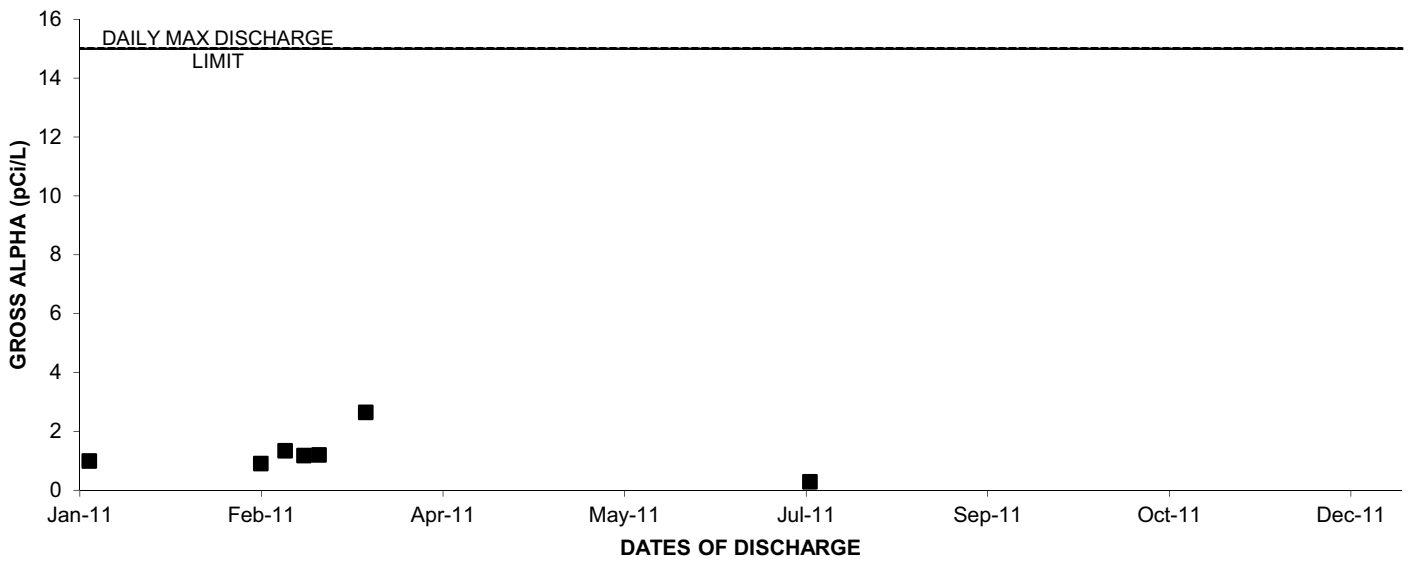
### 2011: OUTFALL 002 ALPHA-BHC



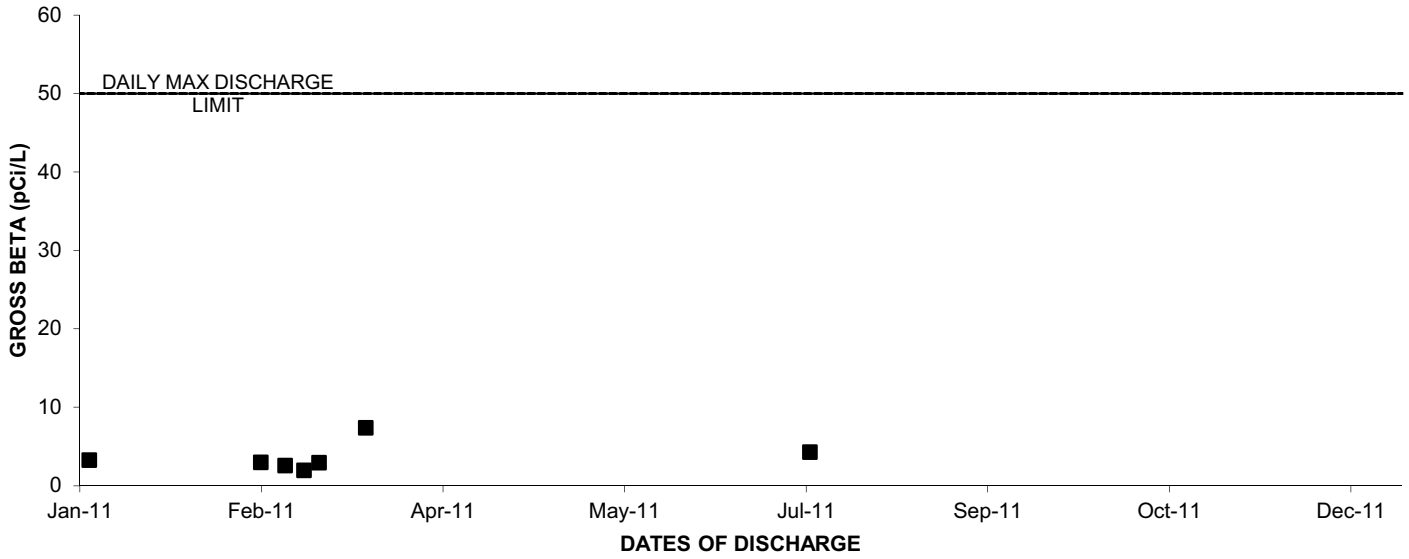
### 2011: OUTFALL 002 CESIUM 137



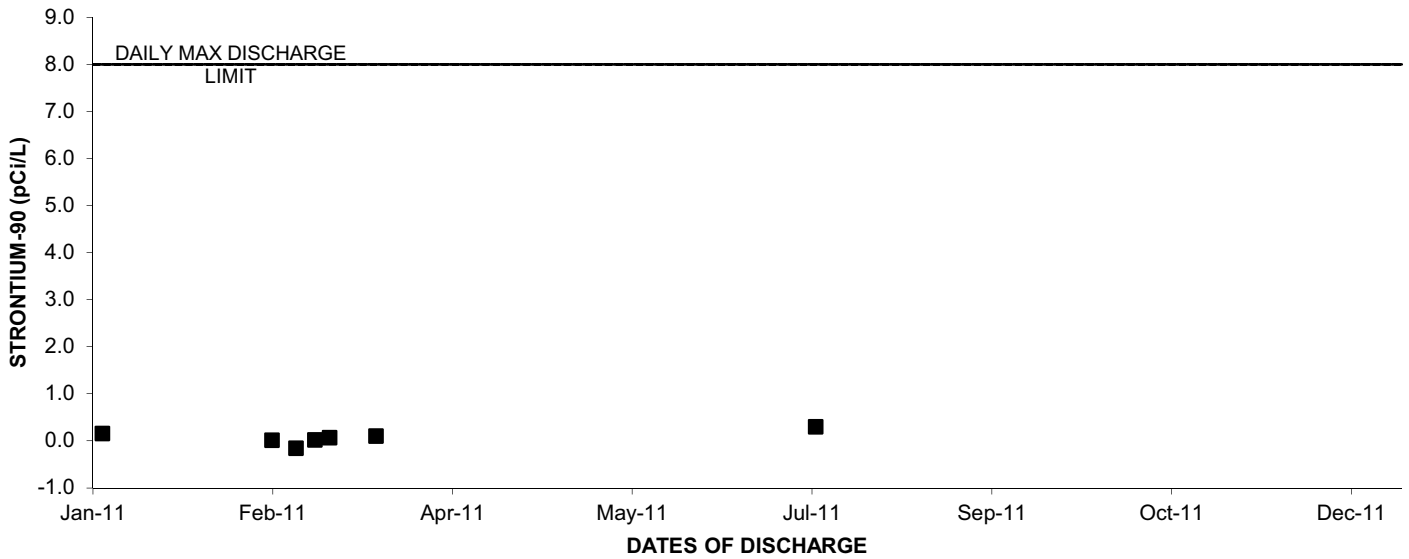
### 2011: OUTFALL 002 GROSS ALPHA



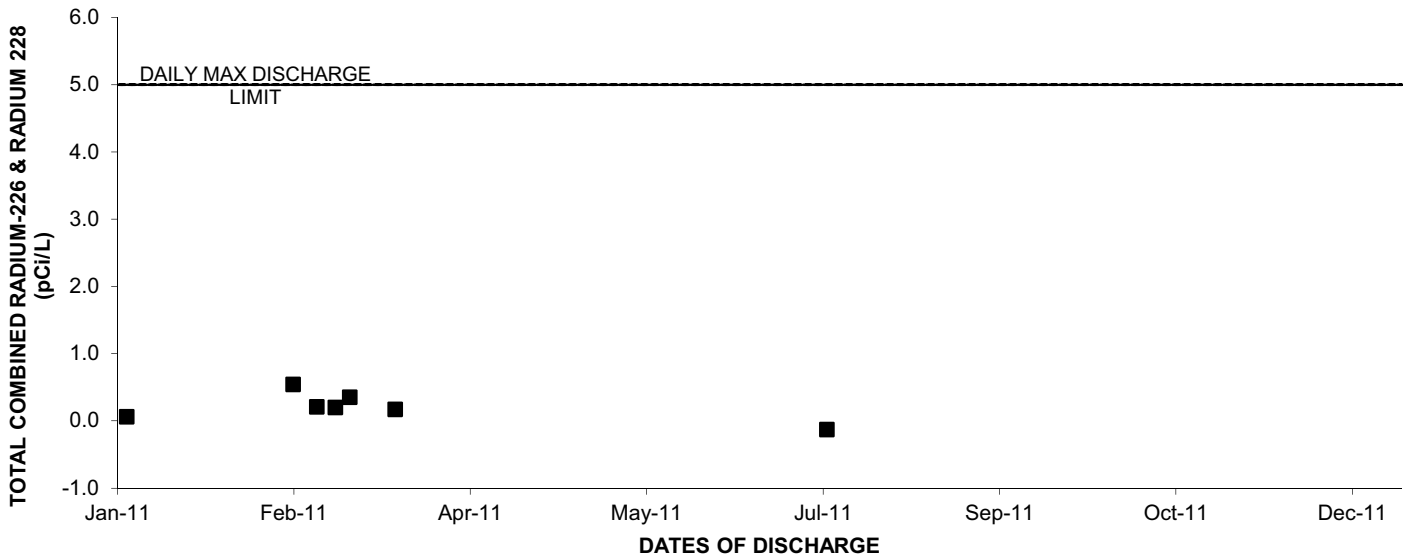
### 2011: OUTFALL 002 GROSS BETA



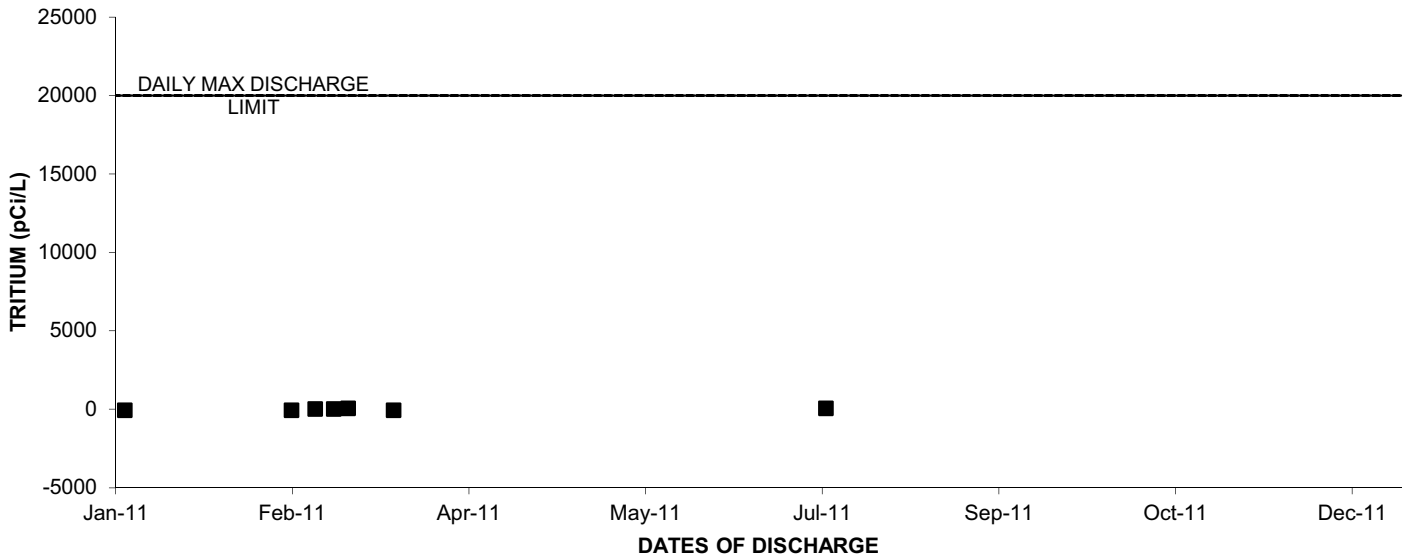
### 2011: OUTFALL 002 STRONTIUM-90



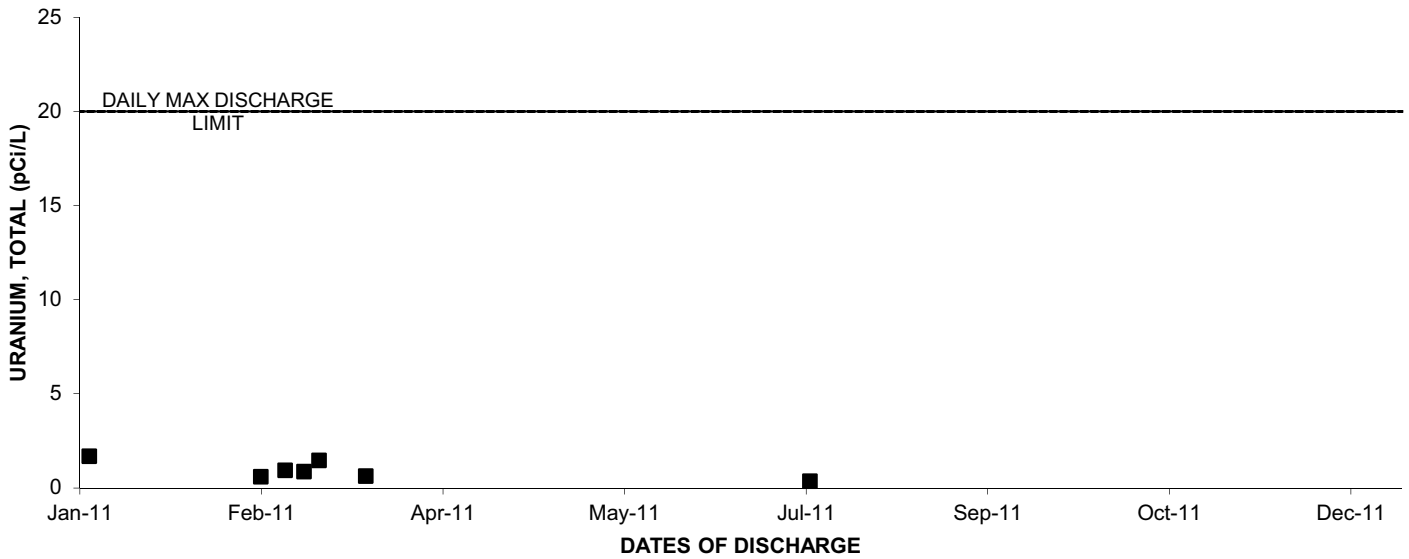
### 2011: OUTFALL 002 TOTAL COMBINED RADIUM-226 & RADIUM 228



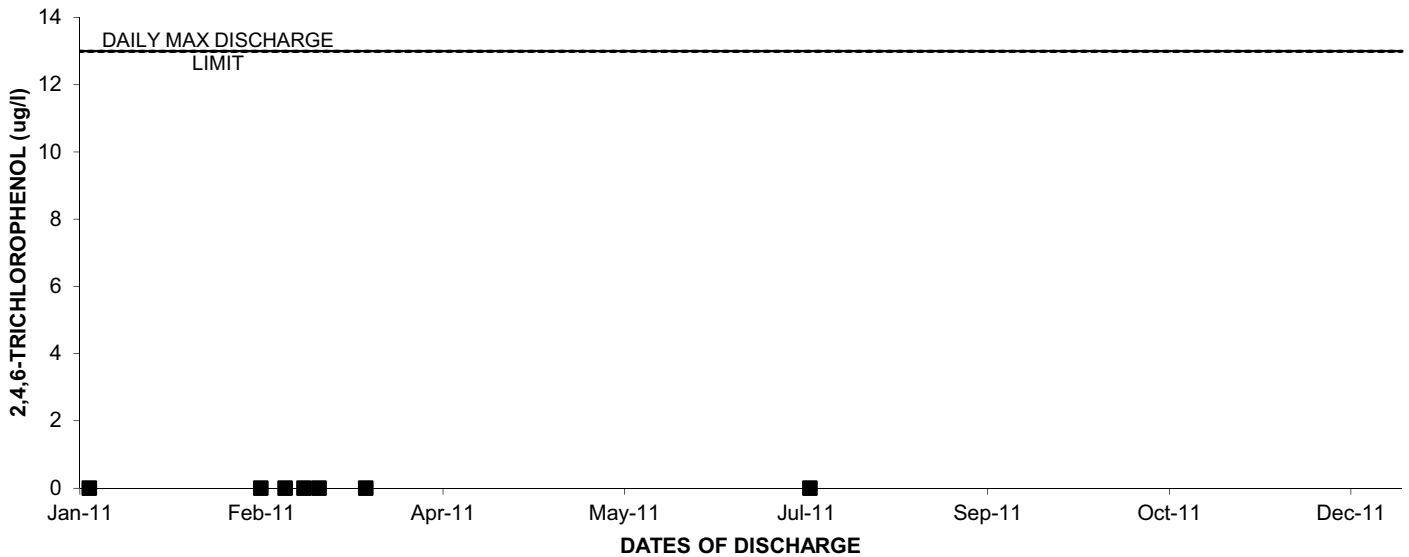
### 2011: OUTFALL 002 TRITIUM



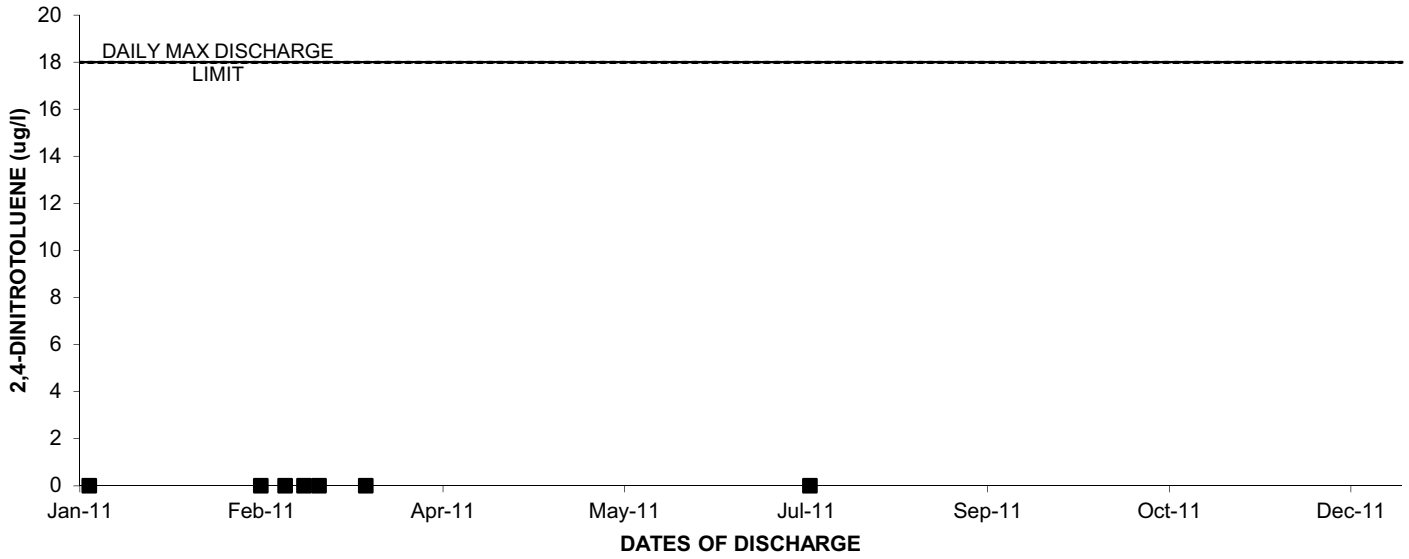
### 2011: OUTFALL 002 URANIUM, TOTAL



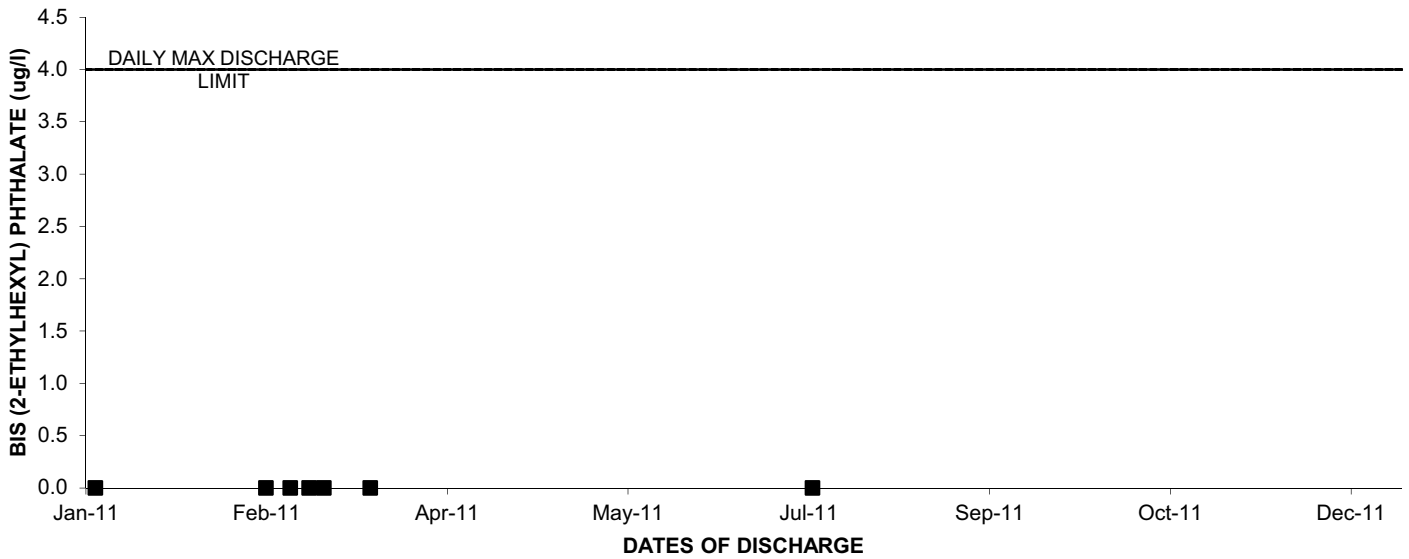
### 2011: OUTFALL 002 2,4,6-TRICHLOROPHENOL



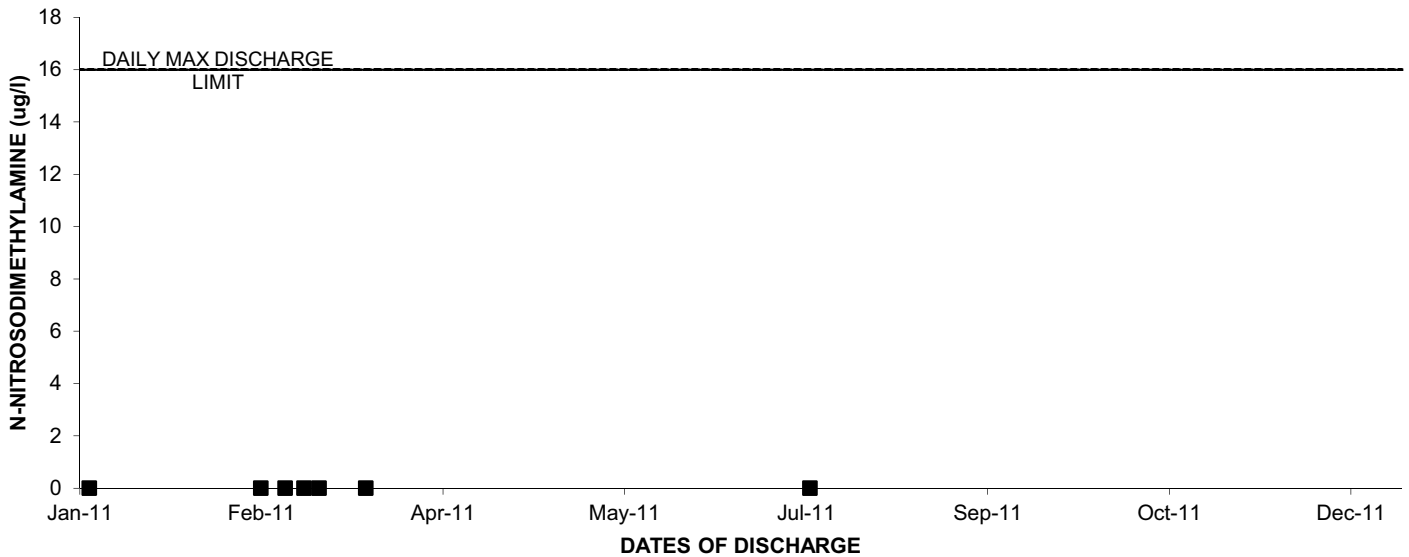
### 2011: OUTFALL 002 2,4-DINITROTOLUENE



### 2011: OUTFALL 002 BIS (2-ETHYLHEXYL) PHTHALATE

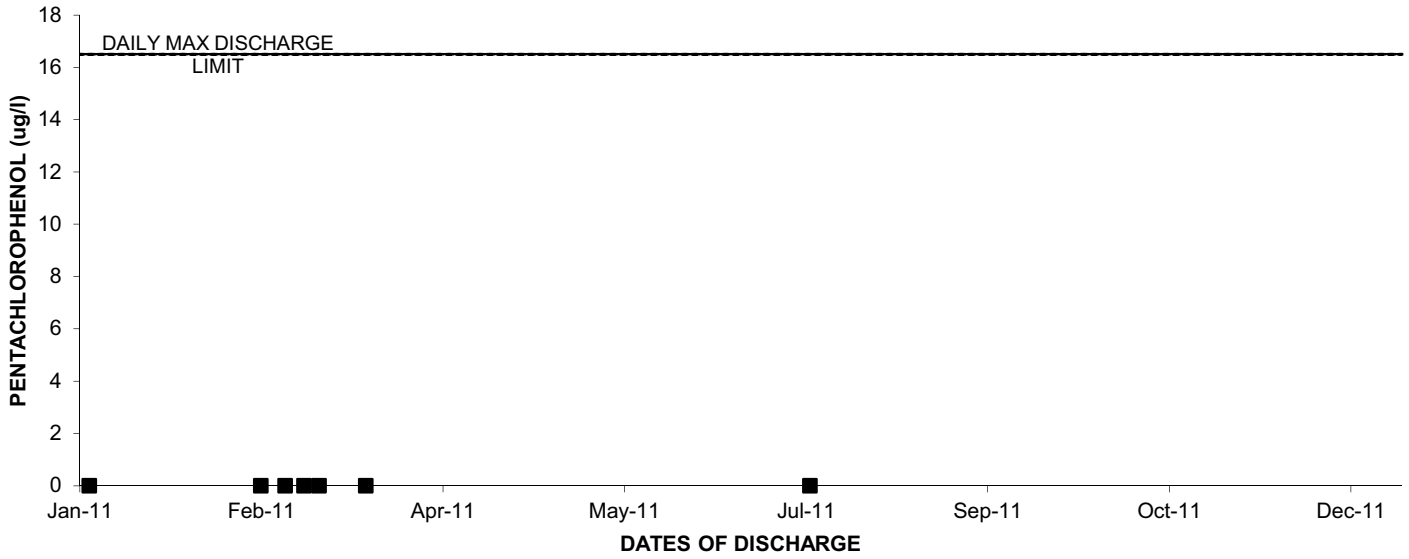


### 2011: OUTFALL 002 N-NITROSODIMETHYLAMINE

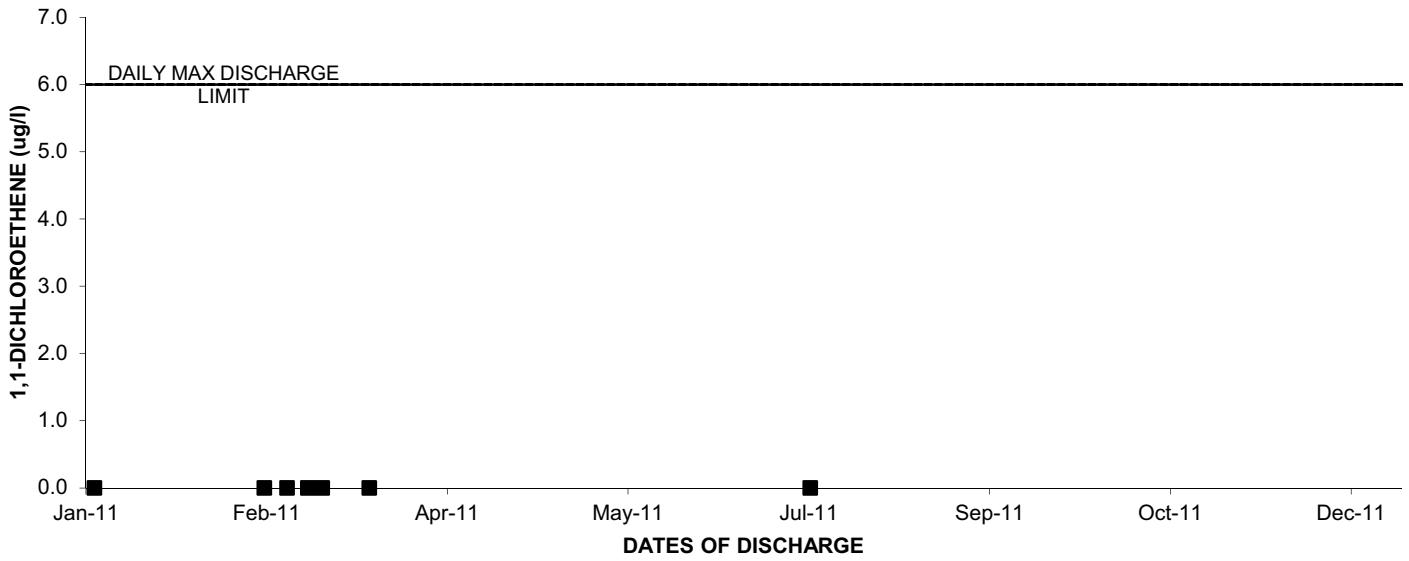




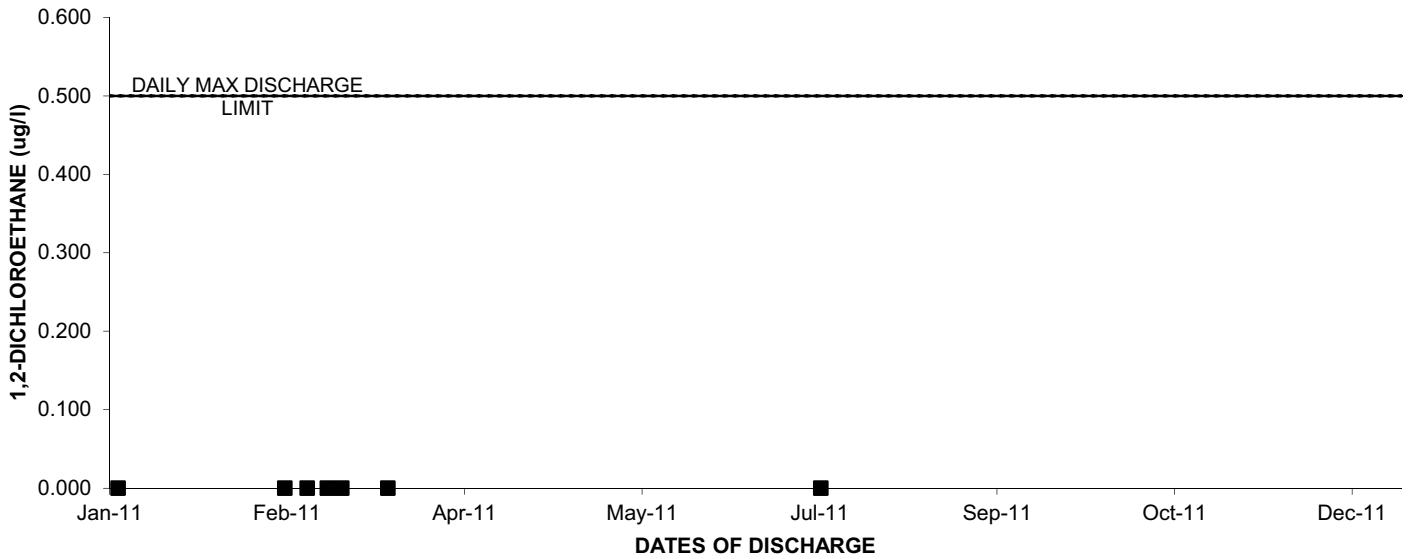
### 2011: OUTFALL 002 PENTACHLOROPHENOL



### 2011: OUTFALL 002 1,1-DICHLOROETHENE



### 2011: OUTFALL 002 1,2-DICHLOROETHANE



2011: OUTFALL 002 TRICHLOROETHENE

