

APPENDIX C

SECOND QUARTER 2011 SUMMARY TABLES, DISCHARGE
MONITORING DATA

**SECOND QUARTER 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.

-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

**SECOND QUARTER 2011
REPORTING SUMMARY NOTES
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SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

*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 than 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

**SECOND QUARTER 2011
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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 _c	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
#	Per ORDER NO. R4-2010-0090 page 23 Footnote 1. The effluent limitations for total suspended solids and settleable solids are not applicable for discharges during wet weather. During wet weather flow, a discharge event is greater than 0.1 inches of rainfall in a 24-hour period. No more than one sample per week need be obtained during extended periods of rainfall or the discharge of collected stormwater. A storm event must be preceded by at least 72 hours of dry weather.
(4.0)3.1/-	Represents (Dry Weather Limit) Wet Weather Limit / Monthly Average Limit.

E. COLI/FECAL COLIFORM RESULTS

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

April 1 through June 30, 2011

SAMPLE NAME	SITE	SAMPLE TYPE	SAMPLE DATE	RL	DL	Permit/Benchmark Limit	E. Coli MPN/100 ml		Fecal Coliform MPN/100 ml	
							RESULT	VALIDATION	RESULT	VALIDATION
Outfall 001	(South Slope below Perimeter Pond)	Grab	04/04/11	2.00	2.00	-/-	30.0	*	30.0	*
Outfall 009	(WS-13 Drainage)	Grab	04/04/11	2.00	2.00	-/-	8.00	*	8.00	*
Outfall 009	(WS-13 Drainage)	Grab	04/08/11	2.00	2.00	-/-	2.00	*	2.00	*

OUTFALL 019 (Treatment System)

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

April 1 through June 30, 2011

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	06/01/2011-06/02/2011 ^(a)		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Ammonia as Nitrogen (N)	mg/L	10.1/1.96	Comp	ND < 0.50	*
Biochemical Oxygen Demand (BOD 5 day)	mg/L	30/20	ANR	ANR	ANR
Chloride	mg/L	150/-	Comp	100	*
Dissolved Oxygen	mg/L	-/-	Grab	2.09	*
Specific Conductivity (Lab)	umhos/cm	-/-	Grab	990	--
Surfactants (MBAS)	mg/L	0.5/-	Comp	ND < 0.050	*
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	0.093	Ja* (DNQ)
Nitrite-N	mg/L	1/-	Comp	ND < 0.090	*
Oil & Grease	mg/L	15/10	Grab	ND < 1.3	*
Perchlorate	ug/L	6.0/-	Comp	ND < 0.90	*
pH (Field)	pH units	6.5-8.5/-	Grab	7.6	*
Total Settleable Solids	ml/L	0.3/0.1	Grab	ND < 0.10	*
Sulfate	mg/L	300/-	Comp	99	*
Temperature	deg. F	86/-	Grab	68	*
Total Cyanide	ug/L	8.5/4.3	Comp	ND < 2.2	*
Total Dissolved Solids	mg/L	950/-	Comp	490	*
Hardness	mg/L	-/-	Comp	120	*
Hardness, dissolved	mg/L	-/-	Comp	120	--
Total Organic Carbon	mg/L	-/-	Comp	2.6	--
Total Residual Chlorine (Field)	mg/L	0.1/-	ANR	ANR	ANR
Total Suspended Solids	mg/L	45/15	Comp	1.0	Ja* (DNQ)
Turbidity	NTU	-/-	Comp	0.10	J (DNQ)
Volume Discharged	MGD	160/-	Meas	0.0503	*
METALS					
Antimony	ug/L	6.0/-	ANR	ANR	ANR
Arsenic	ug/L	10/-	ANR	ANR	ANR
Barium	mg/L	1.0/-	ANR	ANR	ANR
Beryllium	ug/L	4.0/-	ANR	ANR	ANR
Boron	mg/L	-/-	ANR	ANR	ANR
Cadmium	ug/L	4.0/2.0	Comp	0.18	Ja* (DNQ)
Cadmium, dissolved	ug/L	-/-	Comp	ND < 0.10	*
Calcium	mg/L	-/-	Comp	46	--
Calcium, Dissolved	mg/L	-/-	Comp	46	--
Chromium	ug/L	16/8	ANR	ANR	ANR
Chromium VI	ug/L	16/8	ANR	ANR	ANR
Cobalt	ug/L	-/-	ANR	ANR	ANR

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

(a) Based on peak LA River flow, sampling event on 6/1-6/2/11 and 6/20/11 are dry discharges.

OUTFALL 019 (Treatment System)

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

April 1 through June 30, 2011

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	06/01/2011-06/02/2011 ^(a)		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Copper	ug/L	14/7.1	Comp	0.77	Ja* (DNQ)
Copper, dissolved	ug/L	-/-	Comp	0.63	Ja*
Iron	mg/L	0.3/-	ANR	ANR	ANR
Lead	ug/L	5.2/2.6	Comp	0.27	Ja* (DNQ)
Lead, dissolved	ug/L	-/-	Comp	ND < 0.20	*
Magnesium	mg/L	-/-	Comp	0.56	--
Magnesium, Dissolved	mg/L	-/-	Comp	0.55	--
Manganese	ug/L	50/-	ANR	ANR	ANR
Mercury	ug/L	0.10/0.05	Comp	ND < 0.10	U
Mercury, dissolved	ug/L	-/-	Comp	ND < 0.10	U
Nickel	ug/L	96/35	ANR	ANR	ANR
Selenium	ug/L	5.0/4.1	Comp	0.59	Ja* (DNQ)
Selenium, dissolved	ug/L	-/-	Comp	ND < 0.50	*
Silver	ug/L	4.1/2.0	ANR	ANR	ANR
Thallium	ug/L	2.0/-	ANR	ANR	ANR
Vanadium	ug/L	-/-	ANR	ANR	ANR
Zinc	ug/L	119/54	Comp	37	--
Zinc, Dissolved	ug/L	-/-	Comp	31	--
ORGANICS					
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	-/-	Grab	ND < 0.28	*
1,1-Dichloroethene	ug/L	6.0/3.2	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	*
TPH					
EFH (C13 - C22)	ug/L	-/-	ANR	ANR	ANR
GRO (C4 - C12)	ug/L	-/-	ANR	ANR	ANR

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

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OUTFALL 019 (Treatment System)

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

April 1 through June 30, 2011

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	06/01/2011-06/02/2011 ^(a)		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
ADDITIONAL ANALYTES					
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-Dichloropropane	ug/L	-/-	ANR	ANR	ANR
1,2-Diphenylhydrazine/Azobenzene	ug/L	-/-	ANR	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR
2,4,6-Trichlorophenol	ug/L	13/6.5	Comp	ND < 0.094	*
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	18/9.1	Comp	ND < 0.19	*
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
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	0.03/0.01	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

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ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	06/01/2011-06/02/2011 ^(a)		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
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 < 1.6	*
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/-	Comp	1.0	*
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

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SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

April 1 through June 30, 2011

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	06/01/2011-06/02/2011 ^(a)		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
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
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	16/8.1	Comp	ND < 0.094	*
n-Nitroso-di-n-propylamine	ug/L	-/-	ANR	ANR	ANR
n-Nitrosodiphenylamine	ug/L	-/-	ANR	ANR	ANR
Pentachlorophenol	ug/L	16.5/8.2	Comp	ND < 0.094	*
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

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April 1 through June 30, 2011

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	6/10/2011 ^(a)		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Ammonia as Nitrogen (N)	mg/L	10.1/1.96	ANR	ANR	ANR
Biochemical Oxygen Demand (BOD 5 day)	mg/L	30/20	Grab	2.6	*
Chloride	mg/L	150/-	ANR	ANR	ANR
Dissolved Oxygen	mg/L	-/-	ANR	ANR	ANR
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	15/10	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	0.3/0.1	ANR	ANR	ANR
Sulfate	mg/L	300/-	ANR	ANR	ANR
Temperature	deg. F	86/-	ANR	ANR	ANR
Total Cyanide	ug/L	8.5/4.3	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	45/15	ANR	ANR	ANR
Turbidity	NTU	-/-	ANR	ANR	ANR
Volume Discharged	MGD	160/-	Meas	0.0880191	*
METALS					
Antimony	ug/L	6.0/-	ANR	ANR	ANR
Arsenic	ug/L	10/-	ANR	ANR	ANR
Barium	mg/L	1.0/-	ANR	ANR	ANR
Beryllium	ug/L	4.0/-	ANR	ANR	ANR
Boron	mg/L	-/-	ANR	ANR	ANR
Cadmium	ug/L	4.0/2.0	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	16/8	ANR	ANR	ANR
Chromium VI	ug/L	16/8	ANR	ANR	ANR
Cobalt	ug/L	-/-	ANR	ANR	ANR

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

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

April 1 through June 30, 2011

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	6/10/2011 ^(a)		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Copper	ug/L	14/7.1	ANR	ANR	ANR
Copper, dissolved	ug/L	-/-	ANR	ANR	ANR
Iron	mg/L	0.3/-	ANR	ANR	ANR
Lead	ug/L	5.2/2.6	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
Mercury	ug/L	0.10/0.05	ANR	ANR	ANR
Mercury, dissolved	ug/L	-/-	ANR	ANR	ANR
Nickel	ug/L	96/35	ANR	ANR	ANR
Selenium	ug/L	5.0/4.1	ANR	ANR	ANR
Selenium, dissolved	ug/L	-/-	ANR	ANR	ANR
Silver	ug/L	4.1/2.0	ANR	ANR	ANR
Thallium	ug/L	2.0/-	ANR	ANR	ANR
Vanadium	ug/L	-/-	ANR	ANR	ANR
Zinc	ug/L	119/54	ANR	ANR	ANR
Zinc, Dissolved	ug/L	-/-	ANR	ANR	ANR
ORGANICS					
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	-/-	ANR	ANR	ANR
1,1-Dichloroethene	ug/L	6.0/3.2	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
TPH					
EFH (C13 - C22)	ug/L	-/-	ANR	ANR	ANR
GRO (C4 - C12)	ug/L	-/-	ANR	ANR	ANR

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

(a) Based on peak LA River flow, sampling event on 6/1-6/2/11 and 6/20/11 are dry discharges.

OUTFALL 019 (Treatment System)

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

April 1 through June 30, 2011

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	6/10/2011 ^(a)		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
ADDITIONAL ANALYTES					
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-Dichloropropane	ug/L	-/-	ANR	ANR	ANR
1,2-Diphenylhydrazine/Azobenzene	ug/L	-/-	ANR	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR
2,4,6-Trichlorophenol	ug/L	13/6.5	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	18/9.1	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
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	0.03/0.01	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

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

(a) Based on peak LA River flow, sampling event on 6/1-6/2/11 and 6/20/11 are dry discharges.

OUTFALL 019 (Treatment System)

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

April 1 through June 30, 2011

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	6/10/2011 ^(a)		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Aroclor-1248	ug/L	-/-	ANR	ANR	ANR
Aroclor-1254	ug/L	-/-	ANR	ANR	ANR
Aroclor-1260	ug/L	-/-	ANR	ANR	ANR
Benzdine	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,l)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

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

(a) Based on peak LA River flow, sampling event on 6/1-6/2/11 and 6/20/11 are dry discharges.

OUTFALL 019 (Treatment System)

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

April 1 through June 30, 2011

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	6/10/2011 ^(a)		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
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
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	16/8.1	ANR	ANR	ANR
n-Nitroso-di-n-propylamine	ug/L	-/-	ANR	ANR	ANR
n-Nitrosodiphenylamine	ug/L	-/-	ANR	ANR	ANR
Pentachlorophenol	ug/L	16.5/8.2	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.

(a) Based on peak LA River flow, sampling event on 6/1-6/2/11 and 6/20/11 are dry discharges.

Outfall 019 (Treatment System)

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

**Sample Type: Composite
Sample Date June 2, 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	1.60E-06	5.00E-05	ND	U (B)	0.01	0.05	ND
1,2,3,4,6,7,8-HpCDF	1.30E-06	5.00E-05	ND	U (B)	0.01	0.01	ND
1,2,3,4,7,8,9-HpCDF	1.70E-06	5.00E-05	ND	U (B)	0.01	0.4	ND
1,2,3,4,7,8-HxCDD	1.30E-06	5.00E-05	ND	U (B)	0.1	0.3	ND
1,2,3,4,7,8-HxCDF	8.80E-07	5.00E-05	ND	U (B)	0.1	0.08	ND
1,2,3,6,7,8-HxCDD	1.20E-06	5.00E-05	ND	U (B)	0.1	0.1	ND
1,2,3,6,7,8-HxCDF	8.60E-07	5.00E-05	ND	U (B)	0.1	0.2	ND
1,2,3,7,8,9-HxCDD	1.20E-06	5.00E-05	ND	U (B)	0.1	0.1	ND
1,2,3,7,8,9-HxCDF	9.30E-07	5.00E-05	ND	U (B)	0.1	0.6	ND
1,2,3,7,8-PeCDD	1.90E-06	5.00E-05	3.20E-06	J (DNQ)	1	0.9	ND
1,2,3,7,8-PeCDF	1.40E-06	5.00E-05	ND	U (B)	0.05	0.2	ND
2,3,4,6,7,8-HxCDF	8.20E-07	5.00E-05	ND	U (B)	0.1	0.7	ND
2,3,4,7,8-PeCDF	1.60E-06	5.00E-05	ND	U (B)	0.5	1.6	ND
2,3,7,8-TCDD	1.10E-06	1.00E-05	ND	U	1	1	ND
2,3,7,8-TCDF	1.10E-06	1.00E-05	ND	U (B)	0.1	0.8	ND
OCDD	2.10E-06	1.00E-04	ND	U (B)	0.0001	0.01	ND
OCDF	2.20E-06	1.00E-04	ND	U (B)	0.0001	0.01	ND

TCDD TEQ w/out DNQ Values	ND
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TCDD TEQ PERMIT LIMIT = 2.80E-08

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

OUTFALL 019 (Treatment System)

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

April 1 through June 30, 2011

ANALYTE	UNITS	SAMPLE TYPE	Permit Limit Daily Max/Monthly Avg	6/2/2011		
				RESULT	MDA	VALIDATION QUALIFIER
RADIOACTIVITY						
Gross Alpha	pCi/L	Composite	15/-	0.41 ± 0.78	1.26	UJ (C)
Gross Beta	pCi/L	Composite	50/-	8.9 ± 1.3	1.64	--
Strontium-90	pCi/L	Composite	8.0/-	-0.133 ± 0.31	0.771	U
Total Combined Radium-226 & Radium 228	pCi/L	Composite	5.0/-	0.09 ± 0.38	1.10	U
Tritium	pCi/L	Composite	20000/-	44.4 ± 95	158	U
Uranium, Total	pCi/L	Composite	20/-	ND < 0.024 ± 0.010	0.024	U
Potassium-40	pCi/L	Composite	-/-	ND < 15.9	15.9	U
Cesium 137	pCi/L	Composite	200/-	ND < 1.2	1.2	U

OUTFALL 019

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

April 1 through June 30, 2011

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	06/01/2011-06/02/2011 ^(a)			6/10/2011 ^(a)		
			Sample Type	Result	Concentration Result Validation Qualifier	Sample Type	Result	Concentration Result Validation Qualifier
Max Discharge for event	MGD	160	Meas	0.0503		Meas	0.0880191	
Ammonia as Nitrogen (N)	LBS/DAY	13,500/2615	Comp	ND	*	ANR	ANR	ANR
Biochemical Oxygen Demand (BOD 5 day)	LBS/DAY	40,032/26,700	ANR	ANR	ANR	Grab	1.91	*
Chloride	LBS/DAY	200,160/-	Comp	41.95	*	ANR	ANR	ANR
Surfactants (MBAS)	LBS/DAY	667/-	Comp	ND	*	ANR	ANR	ANR
Nitrate + Nitrite as Nitrogen (N)	LBS/DAY	10,700/-	Comp	ND	*	ANR	ANR	ANR
Nitrate as Nitrogen (N)	LBS/DAY	10,700/-	Comp	0.04	Ja* (DNQ)	ANR	ANR	ANR
Nitrite-N	LBS/DAY	1,334/-	Comp	ND	*	ANR	ANR	ANR
Oil & Grease	LBS/DAY	20,016/13,344	Grab	ND	*	ANR	ANR	ANR
Perchlorate	LBS/DAY	8.0/-	Comp	ND	*	ANR	ANR	ANR
Sulfate	LBS/DAY	400,320/-	Comp	41.53	*	ANR	ANR	ANR
Total Cyanide	LBS/DAY	11/5.7	Comp	ND	*	ANR	ANR	ANR
Total Dissolved Solids	LBS/DAY	1,270,000/-	Comp	205.57	*	ANR	ANR	ANR
Total Suspended Solids	LBS/DAY	60,048/20,016	Comp	0.42	Ja* (DNQ)	ANR	ANR	ANR
Cadmium	LBS/DAY	5.3/2.7	Comp	0.0001	Ja* (DNQ)	ANR	ANR	ANR
Copper	LBS/DAY	19/10	Comp	0.0003	Ja* (DNQ)	ANR	ANR	ANR
Lead	LBS/DAY	6.9/3.5	Comp	0.0001	Ja* (DNQ)	ANR	ANR	ANR
Mercury	LBS/DAY	0.13/0.07	Comp	ND	U	ANR	ANR	ANR
Selenium	LBS/DAY	6.7/5.5	Comp	0.0002	Ja* (DNQ)	ANR	ANR	ANR
Zinc	LBS/DAY	159/72	Comp	0.02	--	ANR	ANR	ANR
1,1-Dichloroethene	LBS/DAY	8.0/4.3	Grab	ND	*	ANR	ANR	ANR
Trichloroethene	LBS/DAY	6.7/-	Grab	ND	*	ANR	ANR	ANR
2,4,6-Trichlorophenol	LBS/DAY	17/8.7	Comp	ND	*	ANR	ANR	ANR
2,4-Dinitrotoluene	LBS/DAY	24/12	Comp	ND	*	ANR	ANR	ANR
alpha-BHC	LBS/DAY	0.04/0.013	Comp	ND	*	ANR	ANR	ANR
bis (2-ethylhexyl) Phthalate	LBS/DAY	5.3/-	Comp	ND	*	ANR	ANR	ANR
n-Nitrosodimethylamine	LBS/DAY	22/11	Comp	ND	*	ANR	ANR	ANR
Pentachlorophenol	LBS/DAY	22/11	Comp	ND	*	ANR	ANR	ANR
TCDD TEQ_NoDNQ	LBS/DAY	3.70E-08/1.9E-08	Comp	ND	--	ANR	ANR	ANR

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

^(a) Based on peak LA River flow, sampling event on 6/1-6/2/11 and 6/20/11 are dry discharges.

**ARROYO SIMI (Frontier Park Receiving Water)
 SECOND QUARTER 2011 REPORTING SUMMARY
 THE BOEING COMPANY
 SANTA SUSANA FIELD LABORATORY
 NPDES PERMIT CA0001309**

April 1 through June 30, 2011

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	4/4/2011			5/12/2011		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Dissolved Oxygen	mg/l	5.0 Min/-	ANR	ANR	ANR	ANR	ANR	ANR
E. Coli	MPN/100 ml	235/-	Grab	110	*	ANR	ANR	ANR
Fecal Coliform	MPN/100 ml	400/-	Grab	170	*	ANR	ANR	ANR
pH (Field)	pH Units	6.5-8.5/-	ANR	ANR	ANR	Grab	7.8	*
Temperature	F	-/-	ANR	ANR	ANR	Grab	56	*
Hardness	mg/L	-/-	ANR	ANR	ANR	Grab	930	--
Water Velocity	ft/sec	-/-	ANR	ANR	ANR	Grab	0.05	*
Calcium	mg/L	-/-	ANR	ANR	ANR	Grab	240	--
Magnesium	mg/L	-/-	ANR	ANR	ANR	Grab	82	--
4,4'-DDD	ug/L	0.0014/-	ANR	ANR	ANR	Grab	ND < 0.0038	UJ (C)
4,4'-DDE	ug/L	0.001/-	ANR	ANR	ANR	Grab	ND < 0.0028	U
4,4'-DDT	ug/L	0.001/-	ANR	ANR	ANR	Grab	ND < 0.0038	U
Aroclor-1016	ug/L	0.0003/-	ANR	ANR	ANR	Grab	ND < 0.24	U
Aroclor-1221	ug/L	0.0003/-	ANR	ANR	ANR	Grab	ND < 0.24	U
Aroclor-1232	ug/L	0.0003/-	ANR	ANR	ANR	Grab	ND < 0.24	U
Aroclor-1242	ug/L	0.0003/-	ANR	ANR	ANR	Grab	ND < 0.24	U
Aroclor-1248	ug/L	0.0003/-	ANR	ANR	ANR	Grab	ND < 0.24	U
Aroclor-1254	ug/L	0.0003/-	ANR	ANR	ANR	Grab	ND < 0.24	U
Aroclor-1260	ug/L	0.0003/-	ANR	ANR	ANR	Grab	ND < 0.24	U
Chlordane	ug/L	0.001/-	ANR	ANR	ANR	Grab	ND < 0.075	U
Chlorpyrifos	ug/L	0.02/-	ANR	ANR	ANR	Grab	ND < 0.010	U
Diazinon	ug/L	0.16/-	ANR	ANR	ANR	Grab	ND < 0.10	UJ (H)
Dieldrin	ug/L	0.0002/-	ANR	ANR	ANR	Grab	ND < 0.0019	U
Toxaphene	ug/L	0.0003/-	ANR	ANR	ANR	Grab	ND < 0.24	U

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