

APPENDIX C

FOURTH QUARTER 2012 SUMMARY TABLES, DISCHARGE
MONITORING DATA

**FOURTH QUARTER 2012
REPORTING SUMMARY NOTES
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

Notes:

1. 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 toxicity equivalency factor (TEF) and bioaccumulation equivalency factor (BEF). The resulting compliance TCDD TEQ does not include those congener concentrations that are reported as DNQ, as specified on Page 37 of the NPDES permit.
2. pH was determined with a field instrument and was noted as such. These results were not validated.
3. The NPDES monthly average permit limit for mercury of 0.05 µg/L (Outfall 019) is not achievable by the laboratory; therefore, the laboratory MDL of 0.10 µg/L was used to determine compliance.
4. 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
*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

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*11	no calibration was performed for this compound; result is reported as a tentatively identified compound (TIC)
* II *III	Unusual problems found with the data that have been described in Section II, "sample management", or Section III, "method analysis". The number following the asterisk (*) will indicated the validation report section where a description of the problem can be found.
ANR	analysis not required; e.g., constituent or outfall was not required by the permit to be sampled and analyzed over the reporting period (annual, semi-annual, etc.)
B	laboratory method blank contamination
BA	relative percent difference out of control
BEF	bioaccumulation equivalency factor
BU	analyzed out of holding time
BV	sample received after holding time expired
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
ft/sec	feet per second
H	holding time was exceeded
I	ICP interference check solution results were unsatisfactory
J	estimated value, result lower than the detection limit
J, DX	estimated value, value < lowest standard (MQL), but > than MDL
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
LQ	LCS/LCSD recovery above method control limits
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
MDA	minimum detectable activity
MDL	method detection limit
MGD	million gallons per day

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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
MPN/100 ml	most probable number per 100 milliliters
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
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.

OUTFALL 009 (WS-13 Drainage)

**FOURTH QUARTER 2012 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

October 1 through November 30, 2012

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	11/17/2012-11/18/2012		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Chloride	mg/L	150/-	Comp	2.3	*
Fluoride	mg/L	1.6/-	ANR	ANR	ANR
Nitrate + Nitrite as Nitrogen (N)	mg/L	10/-	Comp	0.93	*
Oil & Grease	mg/L	15/-	Grab	ND < 1.3	*
Perchlorate	ug/L	6.0/-	Comp	ND < 0.95	U
pH (Field)	pH units	6.5-8.5/-	Grab	7.6	*
Sulfate	mg/L	250/-	Comp	10	*
Temperature	deg. F	86/-	Grab	63	*
Total Cyanide	ug/L	9.5/-	Comp	ND < 3.0	*
Total Dissolved Solids	mg/L	850/-	Comp	72	*
Total Suspended Solids	mg/L	-/-	Comp	ND < 10	*
Volume Discharged	MGD	17.8/-	ANR	0.051775	ANR
METALS					
Aluminum	ug/L	-/-	ANR	ANR	ANR
Antimony	ug/L	6.0/-	Comp	0.38	J,DX* (DNQ)
Antimony, dissolved	ug/L	-/-	Comp	0.48	J,DX* (DNQ)
Arsenic	ug/L	-/-	ANR	ANR	ANR
Beryllium	ug/L	-/-	ANR	ANR	ANR
Boron	mg/L	1.0/-	ANR	ANR	ANR
Cadmium	ug/L	4.0/-	Comp	ND < 0.10	*
Cadmium, dissolved	ug/L	-/-	Comp	ND < 0.10	*
Chromium	ug/L	-/-	ANR	ANR	ANR
Copper	ug/L	14/-	Comp	3.8	*
Copper, dissolved	ug/L	-/-	Comp	4.0	*
Iron	mg/L	-/-	ANR	ANR	ANR
Lead	ug/L	5.2/-	Comp	0.56	J,DX* (DNQ)
Lead, dissolved	ug/L	-/-	Comp	0.29	J,DX* (DNQ)
Mercury	ug/L	0.13/-	Comp	ND < 0.10	U
Mercury, dissolved	ug/L	-/-	Comp	ND < 0.10	U
Nickel	ug/L	100/-	ANR	ANR	ANR
Selenium	ug/L	-/-	Comp	ND < 0.50	*
Selenium, dissolved	ug/L	-/-	Comp	ND < 0.50	*
Silver	ug/L	-/-	ANR	ANR	ANR
Thallium	ug/L	2.0/-	Comp	ND < 0.20	*
Thallium, dissolved	ug/L	-/-	Comp	ND < 0.20	*
Vanadium	ug/L	-/-	ANR	ANR	ANR
Zinc	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

OUTFALL 009 (WS-13 Drainage)

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

October 1 through November 30, 2012

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	11/17/2012-11/18/2012		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
1,1-Dichloroethane	ug/L	-/-	ANR	ANR	ANR
1,2-Dichloroethane	ug/L	-/-	ANR	ANR	ANR
1,1-Dichloroethene	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	-/-	ANR	ANR	ANR
Trichlorofluoromethane	ug/L	-/-	ANR	ANR	ANR
Vinyl chloride	ug/L	-/-	ANR	ANR	ANR
ADDITIONAL ANALYTES					
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	-/-	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	-/-	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

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ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	11/17/2012-11/18/2012		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Acrylonitrile	ug/L	-/-	ANR	ANR	ANR
Acute Toxicity	% SURVIVAL	70-100/-	ANR	ANR	ANR
Aldrin	ug/L	-/-	ANR	ANR	ANR
alpha-BHC	ug/L	-/-	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
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	-/-	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/-	Comp	1.0	*
Chrysene	ug/L	-/-	ANR	ANR	ANR
cis-1,3-Dichloropropene	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

OUTFALL 009 (WS-13 Drainage)

**FOURTH QUARTER 2012 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

October 1 through November 30, 2012

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	11/17/2012-11/18/2012		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
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
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
Naphthalene	ug/L	-/-	ANR	ANR	ANR
Nitrobenzene	ug/L	-/-	ANR	ANR	ANR
n-Nitrosodimethylamine	ug/L	-/-	ANR	ANR	ANR
n-Nitroso-di-n-propylamine	ug/L	-/-	ANR	ANR	ANR
N-Nitrosodiphenylamine	ug/L	-/-	ANR	ANR	ANR
Pentachlorophenol	ug/L	-/-	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

OUTFALL 009 (WS-13 Drainage)

**FOURTH QUARTER 2012 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

Sample Date November 17-18, 2012

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	5.80E-06	4.90E-05	ND	U	0.01	0.05	ND
1,2,3,4,6,7,8-HpCDF	5.20E-07	4.90E-05	ND	U (B)	0.01	0.01	ND
1,2,3,4,7,8,9-HpCDF	6.90E-07	4.90E-05	ND	U	0.01	0.4	ND
1,2,3,4,7,8-HxCDD	6.10E-07	4.90E-05	ND	U	0.1	0.3	ND
1,2,3,4,7,8-HxCDF	7.10E-07	4.90E-05	ND	U	0.1	0.08	ND
1,2,3,6,7,8-HxCDD	6.20E-07	4.90E-05	ND	U	0.1	0.1	ND
1,2,3,6,7,8-HxCDF	6.40E-07	4.90E-05	ND	U	0.1	0.2	ND
1,2,3,7,8,9-HxCDD	5.10E-07	4.90E-05	ND	U	0.1	0.1	ND
1,2,3,7,8,9-HxCDF	4.70E-07	4.90E-05	ND	U	0.1	0.6	ND
1,2,3,7,8-PeCDD	1.30E-06	4.90E-05	ND	U	1	0.9	ND
1,2,3,7,8-PeCDF	8.80E-07	4.90E-05	ND	U	0.05	0.2	ND
2,3,4,6,7,8-HxCDF	5.10E-07	4.90E-05	ND	U	0.1	0.7	ND
2,3,4,7,8-PeCDF	9.60E-07	4.90E-05	ND	U	0.5	1.6	ND
2,3,7,8-TCDD	9.00E-07	9.90E-06	ND	U	1	1	ND
2,3,7,8-TCDF	5.40E-07	9.90E-06	ND	U	0.1	0.8	ND
OCDD	1.10E-06	9.90E-05	ND	U (B)	0.0001	0.01	ND
OCDF	1.20E-06	9.90E-05	5.60E-06	J (DNQ)	0.0001	0.02	ND
TCDD TEQ w/out DNQ Values							ND

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

OUTFALL 009 (WS-13 Drainage)

**FOURTH QUARTER 2012 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

October 1 through December 31, 2012

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	11/17/2012-11/18/2012		
			Sample Type	Result	Concentration Result Validation Qualifier
Max Discharge for event	MGD	17.8	Meas	0.043665	
Chloride	LBS/DAY	22,268/-	Comp	0.84	*
Nitrate + Nitrite as Nitrogen (N)	LBS/DAY	1,485/-	Comp	0.34	*
Oil & Grease	LBS/DAY	2,227/-	Grab	ND	*
Perchlorate	LBS/DAY	0.89/-	Comp	ND	U
Sulfate	LBS/DAY	37,113/-	Comp	3.64	*
Total Cyanide	LBS/DAY	1.4/-	Comp	ND	*
Total Dissolved Solids	LBS/DAY	126,184/-	Comp	26.22	*
Antimony	LBS/DAY	0.89/-	Comp	0.0001	J,DX* (DNQ)
Copper	LBS/DAY	2.1/-	Comp	0.001	*
Lead	LBS/DAY	0.77/-	Comp	0.0002	J,DX* (DNQ)
Mercury	LBS/DAY	0.02/-	Comp	ND	U
Thallium	LBS/DAY	0.3/-	Comp	ND	*
TCDD TEQ NoDNQ	LBS/DAY	4.20E-09/-	Comp	ND	--

OUTFALL 019 (Treatment System)

**FOURTH QUARTER 2012 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

October 1 through December 31, 2012

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Ave	10/03/2012-10/04/2012		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Ammonia as Nitrogen (N)	mg/L	10.1/1.96	Comp	0.280	J,DX* (DNQ)
Biochemical Oxygen Demand (BOD 5 day)	mg/L	30/20	Comp	ND < 0.50	LQ*
Chloride	mg/L	150/-	Comp	36	*
Dissolved Oxygen	mg/L	-/-	Grab	3.59	*
Specific Conductivity (Lab)	umhos/cm	-/-	Grab	870	--
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 < 0.11	*
Nitrate as Nitrogen (N)	mg/L	8/-	Comp	ND < 0.080	*
Nitrite as Nitrogen (N)	mg/L	-/-	Comp	ND < 0.11	*
Oil & Grease	mg/L	15/10	Grab	ND < 1.3	*
Perchlorate	ug/L	6.0/-	Comp	ND < 0.95	U
pH (Field)	pH units	6.5-8.5/-	Grab	7.3	*
Total Settleable Solids	ml/L	0.3/0.1	Grab	ND < 0.10	*
Sulfate	mg/L	300/-	Comp	160	*
Temperature	deg. F	86/-	Grab	68	*
Total Cyanide	ug/L	8.5/4.3	Comp	ND < 3.0	*
Total Dissolved Solids	mg/L	950/-	Comp	560	*
Hardness	mg/L	-/-	Comp	320	--
Hardness, dissolved	mg/L	-/-	Comp	310	--
Total Organic Carbon	mg/L	-/-	Comp	ND < 0.75	*
Total Residual Chlorine (Field)	mg/L	0.1/-	ANR	ANR	ANR
Total Suspended Solids	mg/L	45/15	Comp	ND < 10	*
Turbidity	NTU	-/-	Comp	ND < 0.10	UJ (B, H)
Volume Discharged	MGD	160/-	Meas	0.023	*
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	3.1/2.0	Comp	ND < 0.10	*
Cadmium, dissolved	ug/L	-/-	Comp	ND < 0.10	*
Chromium	ug/L	16/8	ANR	ANR	ANR
Chromium VI	ug/L	16/8	ANR	ANR	ANR
Cobalt	ug/L	-/-	ANR	ANR	ANR
Copper	ug/L	14/7.1	Comp	1.1	J,DX* (DNQ)
Copper, dissolved	ug/L	-/-	Comp	ND < 0.50	*
Iron	mg/L	0.3/-	ANR	ANR	ANR
Lead	ug/L	5.2/2.6	Comp	ND < 0.20	*
Lead, dissolved	ug/L	-/-	Comp	ND < 0.20	*
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

OUTFALL 019 (Treatment System)

**FOURTH QUARTER 2012 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

October 1 through December 31, 2012

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	10/03/2012-10/04/2012		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Nickel	ug/L	96/35	ANR	ANR	ANR
Selenium	ug/L	8.2/4.1	Comp	ND < 0.50	*
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	ND < 6.0	U
Zinc, Dissolved	ug/L	-/-	Comp	ND < 6.0	U
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					
GRO (C4 - C12)	mg/L	-/-	ANR	ANR	ANR
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 < 0.0948	BA*
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 < 0.190	LR BA*
2,6-Dinitrotoluene	ug/L	-/-	ANR	ANR	ANR
2-Chloroethylvinylether	ug/L	-/-	ANR	ANR	ANR
2-Chloronaphthalene	ug/L	-/-	ANR	ANR	ANR

OUTFALL 019 (Treatment System)

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SANTA SUSANA FIELD LABORATORY
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ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	10/03/2012-10/04/2012		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
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/-	Comp	100	*
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
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 < 1.61	LQ*
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

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ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	10/03/2012-10/04/2012		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Chrysene	ug/L	-/-	ANR	ANR	ANR
cis-1,2-Dichloroethene	ug/L	-/-	Grab	ND < 0.32	*
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
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 < 0.0948	*
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 < 0.379	*
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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ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	11/01/2012-11/02/2012		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Ammonia as Nitrogen (N)	mg/L	10.1/1.96	Comp	0.280	J,DX* (DNQ)
Biochemical Oxygen Demand (BOD 5 day)	mg/L	30/20	Comp	ND < 0.50	*
Chloride	mg/L	150/-	Comp	35	*
Dissolved Oxygen	mg/L	-/-	Grab	3.20	*
Specific Conductivity (Lab)	umhos/cm	-/-	ANR	ANR	ANR
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 < 0.11	*
Nitrate as Nitrogen (N)	mg/L	8/-	Comp	ND < 0.080	*
Nitrite as Nitrogen (N)	mg/L	-/-	Comp	ND < 0.11	*
Oil & Grease	mg/L	15/10	Grab	ND < 1.3	*
Perchlorate	ug/L	6.0/-	Comp	ND < 0.95	U
pH (Field)	pH units	6.5-8.5/-	Grab	6.9	*
Total Settleable Solids	ml/L	0.3/0.1	Grab	ND < 0.10	*
Sulfate	mg/L	300/-	Comp	150	*
Temperature	deg. F	86/-	Grab	60	*
Total Cyanide	ug/L	8.5/4.3	Comp	ND < 3.0	*
Total Dissolved Solids	mg/L	950/-	Comp	560	*
Hardness	mg/L	-/-	ANR	ANR	ANR
Hardness, dissolved	mg/L	-/-	ANR	ANR	ANR
Total Organic Carbon	mg/L	-/-	Comp	ND < 0.75	*
Total Residual Chlorine (Field)	mg/L	0.1/-	ANR	ANR	ANR
Total Suspended Solids	mg/L	45/15	Comp	ND < 10	*
Turbidity	NTU	-/-	Comp	0.10	*
Volume Discharged	MGD	160/-	Meas	0.016	*
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	3.1/2.0	Comp	ND < 0.10	*
Cadmium, dissolved	ug/L	-/-	Comp	ND < 0.10	*
Chromium	ug/L	16/8	ANR	ANR	ANR
Chromium VI	ug/L	16/8	ANR	ANR	ANR
Cobalt	ug/L	-/-	ANR	ANR	ANR
Copper	ug/L	14/7.1	Comp	0.59	J,DX* (DNQ)
Copper, dissolved	ug/L	-/-	Comp	ND < 0.50	*
Iron	mg/L	0.3/-	ANR	ANR	ANR
Lead	ug/L	5.2/2.6	Comp	ND < 0.20	*
Lead, dissolved	ug/L	-/-	Comp	ND < 0.20	*
Manganese	ug/L	50/-	ANR	ANR	ANR
Mercury	ug/L	0.10/0.05	Comp	ND < 0.10	UJ (C)
Mercury, dissolved	ug/L	-/-	Comp	ND < 0.10	U

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ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	11/01/2012-11/02/2012		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Nickel	ug/L	96/35	ANR	ANR	ANR
Selenium	ug/L	8.2/4.1	Comp	ND < 0.50	*
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	ND < 6.0	U
Zinc, Dissolved	ug/L	-/-	Comp	ND < 6.0	U
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					
GRO (C4 - C12)	mg/L	-/-	ANR	ANR	ANR
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 < 0.0943	*
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 < 0.189	*
2,6-Dinitrotoluene	ug/L	-/-	ANR	ANR	ANR
2-Chloroethylvinylether	ug/L	-/-	ANR	ANR	ANR
2-Chloronaphthalene	ug/L	-/-	ANR	ANR	ANR

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ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	11/01/2012-11/02/2012		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
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	0.0025	J,DX* (DNQ)
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,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/-	Comp	3.29	J,DX* (DNQ)
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

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ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	11/01/2012-11/02/2012		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Chrysene	ug/L	-/-	ANR	ANR	ANR
cis-1,2-Dichloroethene	ug/L	-/-	Grab	ND < 0.32	*
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
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 < 0.0943	BA*
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 < 0.377	*
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

Outfall 019 (Treatment System)

**FOURTH QUARTER 2012 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

Sample Type Composite
Sample Date October 3-4, 2012

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	1.60E-06	5.00E-05	ND	U	0.01	0.01	ND
1,2,3,4,7,8,9-HpCDF	1.90E-06	5.00E-05	ND	U	0.01	0.4	ND
1,2,3,4,7,8-HxCDD	1.20E-06	5.00E-05	ND	U	0.1	0.3	ND
1,2,3,4,7,8-HxCDF	1.20E-06	5.00E-05	ND	U (B)	0.1	0.08	ND
1,2,3,6,7,8-HxCDD	1.10E-06	5.00E-05	ND	U	0.1	0.1	ND
1,2,3,6,7,8-HxCDF	1.20E-06	5.00E-05	ND	U (B)	0.1	0.2	ND
1,2,3,7,8,9-HxCDD	1.00E-06	5.00E-05	ND	U	0.1	0.1	ND
1,2,3,7,8,9-HxCDF	1.50E-06	5.00E-05	ND	U	0.1	0.6	ND
1,2,3,7,8-PeCDD	3.60E-06	5.00E-05	ND	U	1	0.9	ND
1,2,3,7,8-PeCDF	3.40E-06	5.00E-05	ND	U	0.05	0.2	ND
2,3,4,6,7,8-HxCDF	1.20E-06	5.00E-05	ND	U (B)	0.1	0.7	ND
2,3,4,7,8-PeCDF	3.60E-06	5.00E-05	ND	U	0.5	1.6	ND
2,3,7,8-TCDD	1.90E-06	1.00E-05	ND	U	1	1	ND
2,3,7,8-TCDF	2.40E-06	1.00E-05	ND	U	0.1	0.8	ND
OCDD	2.40E-06	1.00E-04	ND	U (B)	0.0001	0.01	ND
OCDF	2.20E-06	1.00E-04	ND	U (B)	0.0001	0.02	ND
TCDD TEQ w/out DNQ Values							ND

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

Outfall 019 (Treatment System)

**FOURTH QUARTER 2012 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

**Sample Type Compostie
Sample Date November 1-2, 2012**

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	7.70E-07	4.80E-05	ND	U (B)	0.01	0.05	ND
1,2,3,4,6,7,8-HpCDF	5.30E-07	4.80E-05	ND	U (B)	0.01	0.01	ND
1,2,3,4,7,8,9-HpCDF	1.00E-06	4.80E-05	ND	U	0.01	0.4	ND
1,2,3,4,7,8-HxCDD	4.50E-07	4.80E-05	ND	U	0.1	0.3	ND
1,2,3,4,7,8-HxCDF	2.70E-07	4.80E-05	ND	UJ (*III)	0.1	0.08	ND
1,2,3,6,7,8-HxCDD	4.50E-07	4.80E-05	ND	U	0.1	0.1	ND
1,2,3,6,7,8-HxCDF	2.40E-07	4.80E-05	ND	UJ (*III)	0.1	0.2	ND
1,2,3,7,8,9-HxCDD	4.10E-07	4.80E-05	ND	U	0.1	0.1	ND
1,2,3,7,8,9-HxCDF	3.50E-07	4.80E-05	ND	U	0.1	0.6	ND
1,2,3,7,8-PeCDD	9.60E-07	4.80E-05	ND	U	1	0.9	ND
1,2,3,7,8-PeCDF	6.40E-07	4.80E-05	ND	U	0.05	0.2	ND
2,3,4,6,7,8-HxCDF	2.60E-07	4.80E-05	ND	UJ (*III)	0.1	0.7	ND
2,3,4,7,8-PeCDF	8.00E-07	4.80E-05	ND	U	0.5	1.6	ND
2,3,7,8-TCDD	5.20E-07	9.70E-06	ND	U	1	1	ND
2,3,7,8-TCDF	3.00E-07	9.70E-06	ND	U	0.1	0.8	ND
OCDD	1.80E-06	9.70E-05	ND	U (B)	0.0001	0.01	ND
OCDF	1.60E-06	9.70E-05	ND	U	0.0001	0.02	ND
TCDD TEQ w/out DNQ Values							ND

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

OUTFALL 019 (Treatment System)

**FOURTH QUARTER 2012 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

October 1 through December 31, 2012

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	10/03/2012-10/04/2012		
			Sample Type	Result	Concentration Result Validation Qualifier
Max Discharge for event	MGD	160	Meas	0.022365	
Ammonia as Nitrogen (N)	LBS/DAY	13,500/2615	Comp	0.05	J,DX* (DNQ)
Biochemical Oxygen Demand (BOD 5 day)	LBS/DAY	40,032/26,700	Comp	ND	LQ*
Chloride	LBS/DAY	200,160/-	Comp	6.71	*
Surfactants (MBAS)	LBS/DAY	667/-	Comp	ND	*
Nitrate + Nitrite as Nitrogen (N)	LBS/DAY	10,700/-	Comp	ND	*
Nitrate as Nitrogen (N)	LBS/DAY	10,700/-	Comp	ND	*
Nitrite as Nitrogen (N)	LBS/DAY	1,334/-	Comp	ND	*
Oil & Grease	LBS/DAY	20,016/13,344	Grab	ND	*
Perchlorate	LBS/DAY	8.0/-	Comp	ND	U
Sulfate	LBS/DAY	400,320/-	Comp	29.84	*
Total Cyanide	LBS/DAY	11/5.7	Comp	ND	*
Total Dissolved Solids	LBS/DAY	1,270,000/-	Comp	104.45	*
Total Suspended Solids	LBS/DAY	60,048/20,016	Comp	ND	*
Cadmium	LBS/DAY	4.1/2.7	Comp	ND	*
Copper	LBS/DAY	19/9.5	Comp	0.0002	J,DX* (DNQ)
Lead	LBS/DAY	6.9/3.5	Comp	ND	*
Mercury	LBS/DAY	0.13/0.07	Comp	ND	U
Selenium	LBS/DAY	11/5.5	Comp	ND	*
Zinc	LBS/DAY	159/72	Comp	ND	U
1,1-Dichloroethene	LBS/DAY	8.0/4.3	Grab	ND	*
Trichloroethene	LBS/DAY	6.7/-	Grab	ND	*
2,4,6-Trichlorophenol	LBS/DAY	17/8.7	Comp	ND	BA*
2,4-Dinitrotoluene	LBS/DAY	24/12	ANR	ANR	ANR
alpha-BHC	LBS/DAY	0.04/0.013	Comp	ND	*
bis (2-ethylhexyl) Phthalate	LBS/DAY	5.3/-	Comp	ND	LQ*
n-Nitrosodimethylamine	LBS/DAY	22/10.8	Comp	ND	*
Pentachlorophenol	LBS/DAY	22/10.9	Comp	ND	*
TCDD TEQ, NoDNQ	LBS/DAY	3.70E-08/1.9E-08	Comp	ND	--

OUTFALL 019 (Treatment System)

**FOURTH QUARTER 2012 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

October 1 through December 31, 2012

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	11/01/2012-11/02/2012		
			Sample Type	Result	Concentration Result Validation Qualifier
Max Discharge for event	MGD	160	Meas	0.014645	
Ammonia as Nitrogen (N)	LBS/DAY	13,500/2615	Comp	0.03	J,DX* (DNQ)
Biochemical Oxygen Demand (BOD 5 day)	LBS/DAY	40,032/26,700	Comp	ND	*
Chloride	LBS/DAY	200,160/-	Comp	4.27	*
Surfactants (MBAS)	LBS/DAY	667/-	Comp	ND	*
Nitrate + Nitrite as Nitrogen (N)	LBS/DAY	10,700/-	Comp	ND	*
Nitrate as Nitrogen (N)	LBS/DAY	10,700/-	Comp	ND	*
Nitrite as Nitrogen (N)	LBS/DAY	1,334/-	Comp	ND	*
Oil & Grease	LBS/DAY	20,016/13,344	Grab	ND	*
Perchlorate	LBS/DAY	8.0/-	Comp	ND	U
Sulfate	LBS/DAY	400,320/-	Comp	18.32	*
Total Cyanide	LBS/DAY	11/5.7	Comp	ND	*
Total Dissolved Solids	LBS/DAY	1,270,000/-	Comp	68.40	*
Total Suspended Solids	LBS/DAY	60,048/20,016	Comp	ND	*
Cadmium	LBS/DAY	4.1/2.7	Comp	ND	*
Copper	LBS/DAY	19/9.5	Comp	0.0001	J,DX* (DNQ)
Lead	LBS/DAY	6.9/3.5	Comp	ND	*
Mercury	LBS/DAY	0.13/0.07	Comp	ND	UJ (C)
Selenium	LBS/DAY	11/5.5	Comp	ND	*
Zinc	LBS/DAY	159/72	Comp	ND	U
1,1-Dichloroethene	LBS/DAY	8.0/4.3	Grab	ND	*
Trichloroethene	LBS/DAY	6.7/-	Grab	ND	*
2,4,6-Trichlorophenol	LBS/DAY	17/8.7	Comp	ND	*
2,4-Dinitrotoluene	LBS/DAY	24/12	Comp	ND	*
alpha-BHC	LBS/DAY	0.04/0.013	Comp	0.0000003	J,DX* (DNQ)
bis (2-ethylhexyl) Phthalate	LBS/DAY	5.3/-	Comp	0.0004	J,DX* (DNQ)
n-Nitrosodimethylamine	LBS/DAY	22/10.8	Comp	ND	BA*
Pentachlorophenol	LBS/DAY	22/10.9	Comp	ND	*
TCDD TEQ, NoDNQ	LBS/DAY	3.70E-08/1.9E-08	Comp	ND	--

ARROYO SIMI (Frontier Park Receiving Water)

**FOURTH QUARTER 2012 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

October 1 through December 31, 2012

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	11/17/2012		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Water Velocity	ft/sec	-/-	Meas	0.1	*
pH (Field)	pH Units	6.5-8.5/-	Grab	7.6	*
Temperature	F	-/-	Grab	58	*
E. Coli	MPN/100 ml	235/-	ANR	ANR	ANR
Fecal Coliform	MPN/100 ml	400/-	ANR	ANR	ANR
Hardness	mg/L	-/-	Grab	90	--
4,4'-DDD	ug/L	0.0014/-	Grab	ND < 0.0038	*
4,4'-DDE	ug/L	0.001/-	Grab	ND < 0.0029	*
4,4'-DDT	ug/L	0.001/-	Grab	ND < 0.0038	*
Aroclor 1016	ug/L	0.0003/-	Grab	ND < 0.24	*
Aroclor 1221	ug/L	0.0003/-	Grab	ND < 0.24	*
Aroclor 1232	ug/L	0.0003/-	Grab	ND < 0.24	*
Aroclor 1242	ug/L	0.0003/-	Grab	ND < 0.24	*
Aroclor 1248	ug/L	0.0003/-	Grab	ND < 0.24	*
Aroclor 1254	ug/L	0.0003/-	Grab	ND < 0.24	*
Aroclor 1260	ug/L	0.0003/-	Grab	ND < 0.24	*
Chlordane	ug/L	0.001/-	Grab	ND < 0.076	*
Chlorpyrifos	ug/L	0.02/-	Grab	ND < 0.077	*
Diazinon	ug/L	0.16/-	Grab	ND < 0.039	*
Dieldrin	ug/L	0.0002/-	Grab	ND < 0.0019	*
Toxaphene	ug/L	0.0003/-	Grab	ND < 0.24	*