

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. CDD EQ h... the... a... h... u... h...
 #... h... a... u... ha...
 a... (EF) a... a... ya... equ...
 a... (BEF). h... u... #... a... CDD EQ... u... h...
 ... a... ha... a... DNQ, a... Pa... 37
 h... NPDE #...

2. #H a... h... u... a... a... uh. h... e... u...
 ... a... a...

3. h... NPDE h... a... #... e... u... 0.05 /L (Oua... 019)
 ah... e... h... a... ; h... e... h... a... MDL 0.10 /L a...
 u... #... a...

4. A... h... a... a... a... u... e... a... e...

-92.9 +/-200 A... e... h... a... a... a... e... u... a... e... h... e... u... a...
 h... a... #... e... a... h... h... e... a... u... #... h...
 \$ #... e... u... h... a... a... e... #... h...
 a... a... ; e... u... a... h... e... a... a... a...
 -- a... a... h... e... a... a... qu... e... a... equ...
 -/- #... e... a... h... e... a... a... u... h... a... e...
 <(a... u... a... e... #... e... a... e... a... e... h... a... equ... h... DL,
 MDL, RL (e... a... a... #... #... e... a...)
 * e... u... a... a...
 *1 #... #... e... e... a... a... #...

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

11	<p> a a a #e h # u e u # a a e a e e e # u (IC) u u # e u h h e a a h a h a e e e e e e ll, a # e a a e e., e III, e a a a . h e u e h e a e () a a h e a a # e h e a e e # h e # e a e u e </p>
* II *III	<p> a a e u e e., u e u a a e u e h e # e a # e a a a z e e h e # e # e (a u, e -a u, e.) a a e n a a a a e a e e e e e e u a u u a e u a e a a a z e u h e a # e e e e a e h e e e # e a a %R D %D e e # a Ca a e a %R a u e e e n e u a a e a e # e e e e e e e e h e a a e u a a e a e e # e a e e e F a e h e e e e e e e u q u e (u e a u e e a e h a e u a h e a a e n e e e a e h e h e a a #) e # a e h # a e e e e e e e e h e e e a e e e e ICP e e e e h e u e u e e u a a e a e a u e e u e h a h e e e e a e a u e a u e < e a e (MQL), u > h a MDL h e a # e u e - # e e h e e e # e e a a e 2 /. h e e e h e # e e u a e a e a u e </p>
ANR	
B	
BA	
BEF	
B	
B	
C	
C5	
%D	
F	
DL	
DNQ	
E	
/ e	
H	
I	
J	
J, D	
K	
L2	
L	
LOD	
LQ	

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

OUTFALL 009 (WS-13 Drainage)

**FOURTH QUARTER 2012 REPORTING SUMMARY
THE BOEING COMPANY**

OUTFALL 009 (WS-13 Drainage)

FOURTH QUARTER 2012 REPORTING SUMMARY

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
A	u/L	-/-	ANR	ANR	ANR
A u	% R I AL	70-100/-	ANR	ANR	ANR
A	u/L	-/-	ANR	ANR	ANR
a-BHC	u/L	-/-	ANR	ANR	ANR
A h a	u/L	-/-	ANR	ANR	ANR
A -1016	u/L	-/-	ANR	ANR	ANR
A -1221	u/L	-/-	ANR	ANR	ANR
A -1232	u/L	-/-	ANR	ANR	ANR
A -1242	u/L	-/-	ANR	ANR	ANR
A -1248	u/L	-/-	ANR	ANR	ANR
A -1254	u/L	-/-	ANR	ANR	ANR
A -1260	u/L	-/-	ANR	ANR	ANR
B e z	u/L	-/-	ANR	ANR	ANR
B e z (a) a h a	u/L	-/-	ANR	ANR	ANR
B e z (a) h a	u/L	-/-	ANR	ANR	ANR
B e z () u a h a	u/L	-/-	ANR	ANR	ANR
B e z (h) P e	u/L	-/-	ANR	ANR	ANR
B e z () u a h a	u/L	-/-	ANR	ANR	ANR
a-BHC	u/L	-/-	ANR	ANR	ANR
(2-G) (h) (h) a	u/L	-/-	ANR	ANR	ANR
(2-h) (h) (h) h a a	u/L	-/-	ANR	ANR	ANR
B (2-G) (h) (h) a a	u/L	-/-	ANR	ANR	ANR
B (2-G) (h) (h) E h a	u/L	-/-	ANR	ANR	ANR
B (h) a a	u/L	-/-	ANR	ANR	ANR
B	u/L	-/-	ANR	ANR	ANR
B a a	u/L	-/-	ANR	ANR	ANR
B u e z h h a a	u/L	-/-	ANR	ANR	ANR
G a a	u/L	-/-	ANR	ANR	ANR
G e z a a	u/L	-/-	ANR	ANR	ANR
G a a	u/L	-/-	ANR	ANR	ANR
G a a	u/L	-/-	ANR	ANR	ANR
G	C	1/-	C #	1.0	*
G a a	u/L	-/-	ANR	ANR	ANR
-1,3-D h # # a a	u/L	-/-	ANR	ANR	ANR
a-BHC	u/L	-/-	ANR	ANR	ANR
D e z (a) h a a	u/L	-/-	ANR	ANR	ANR
D h a a	u/L	-/-	ANR	ANR	ANR
D a a	u/L	-/-	ANR	ANR	ANR
D a h h a a	u/L	-/-	ANR	ANR	ANR
D h h h a a	u/L	-/-	ANR	ANR	ANR
D - - u h h a a	u/L	-/-	ANR	ANR	ANR
D - - h h a a	u/L	-/-	ANR	ANR	ANR

OUTFALL 009 (WS-13 Drainage)

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-H#CDD	5.80E-06	4.90E-05	ND		0.01	0.05	ND
1,2,3,4,6,7,8-H#CDF	5.20E-07	4.90E-05	ND	(B)	0.01	0.01	ND
1,2,3,4,7,8,9-H#CDF	6.90E-07	4.90E-05	ND		0.01	0.4	ND
1,2,3,4,7,8-H CDD	6.10E-07	4.90E-05	ND		0.1	0.3	ND
1,2,3,4,7,8-H CDF	7.10E-07	4.90E-05	ND		0.1	0.08	ND
1,2,3,6,7,8-H CDD	6.20E-07	4.90E-05	ND		0.1	0.1	ND
1,2,3,6,7,8-H CDF	6.40E-07	4.90E-05	ND		0.1	0.2	ND
1,2,3,7,8,9-H CDD	5.10E-07	4.90E-05	ND		0.1	0.1	ND

OUTFALL 019 (Treatment System)

FOURTH QUARTER 2012 REPORTING SUMMARY

OUTFALL 019 (Treatment System)

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 Ava
A	/L	10.1/1.96
B	/L	30/20
C	/L	150/-
D	/L	-/-
E	u h /	-/-
F	/L	0.5/-
G	/L	1.6/-
H	/L	8/-
I	/L	8/-
J	/L	-/-
K	/L	15/10
L	u/L	6.0/-
M	#H u	6.5-8.5/-
N	/L	0.3/0.1
O	/L	300/-
P	#e . F	86/-
Q	u/L	8.5/4.3
R	/L	950/-
S	/L	-/-
T	/L	-/-
U	/L	-/-
V	/L	0.1/-
W	/L	45/15
X	N	-/-
Y	MGD	160/-
METALS		
A	u/L	6.0/-
B	u/L	10/-
C	/L	1.0/-
D	u/L	4.0/-
E	/L	-/-
F	u/L	783.2 (u/L)-4218.373./2.0-
G	/L	2.0-

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
N	u/L	96/35
u	u/L	8.2/4.1
u, u	u/L	-/-
h a u	u/L	4.1/2.0
a a u	u/L	2.0/-
z a a u	u/L	-/-
, D	u/L	119/54
	u/L	-/-
ORGANICS		
Ble zle e	u/L	-/-
Ca e a h	u/L	-/-
Ch	u/L	-/-
1,1-D h a e	u/L	-/-
1,2-D h a e	u/L	-/-
1,1-D h a e	u/L	6.0/3.2
1,4-D a e	u/L	-/-
Eh e z e e	u/L	-/-
e a h e e e	u/L	-/-
u e e	u/L	-/-
e e (a)	u/L	-/-
1,1,1- h a e	u/L	-/-
1,1,2- h a e	u/L	-/-
h e e e	u/L	5.0/-
h u e a e	u/L	-/-
h u e a e (F e 113)	u/L	-/-
Ch	u/L	-/-
TPH		
GRO (C4 - C12)		

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	VALIDATION QUALIFIER
2-Chlorophenol	u/L	-/-	ANR	ANR	ANR
2,4-Dichlorophenol	u/L	-/-	ANR	ANR	ANR
2-Nitrophenol	u/L	-/-	ANR	ANR	ANR
3,3-Dichlorobenzene	u/L	-/-	ANR	ANR	ANR
4,4-DDD	u/L	-/-	ANR	ANR	ANR
4,4-DDE	u/L	-/-	ANR	ANR	ANR
4,4-DD	u/L	-/-	ANR	ANR	ANR
4-Bromophenol	u/L	-/-	ANR	ANR	ANR
4-Chlorophenol	u/L	-/-	ANR	ANR	ANR
4-Chlorophenol	u/L	-/-	ANR	ANR	ANR
4-Nitrophenol	u/L	-/-	ANR	ANR	ANR
Atrazine	u/L	-/-	ANR	ANR	ANR
Atrazine	u/L	-/-	ANR	ANR	ANR
Atrazine	u/L	-/-	ANR	ANR	ANR
Atrazine	% R I A L	70-100/-	ANR	ANR	ANR
Atrazine	u/L	-/-	ANR	ANR	ANR
Atrazine-BHC	u/L	0.03/0.01	C #	0.0025	J,D *(DNQ)
Atrazine	u/L	-/-	ANR	ANR	ANR
Atrazine-1016	u/L	-/-	ANR	ANR	ANR
Atrazine-1221	u/L	-/-	ANR	ANR	ANR
Atrazine-1232	u/L	-/-	ANR	ANR	ANR
Atrazine-1242	u/L	-/-	ANR	ANR	ANR
Atrazine-1248	u/L	-/-	ANR	ANR	ANR
Atrazine-1254	u/L	-/-	ANR	ANR	ANR
Atrazine-1260	u/L	-/-	ANR	ANR	ANR
Benzene	u/L	-/-	ANR	ANR	ANR
Benzene(a)hale	u/L	-/-	ANR	ANR	ANR
Benzene(a)hale	u/L	-/-	ANR	ANR	ANR
Benzene(u)hale	u/L	-/-	ANR	ANR	ANR
Benzene(h,l)hale	u/L	-/-	ANR	ANR	ANR
Benzene(u)hale	u/L	-/-	ANR	ANR	ANR
Benzene-BHC	u/L	-/-	ANR	ANR	ANR
(2-Chlorophenyl)hale	u/L	-/-	ANR	ANR	ANR
(2-Chlorophenyl)Phenol	u/L	4.0/-	C #	3.29	J,D *(DNQ)
(2-Chlorophenyl)hale	u/L	-/-	ANR	ANR	ANR
(2-Chlorophenyl)hale	u/L	-/-	ANR	ANR	ANR
Benzene	u/L	-/-	ANR	ANR	ANR
Benzene	u/L	-/-	ANR	ANR	ANR
Benzene	u/L	-/-	ANR	ANR	ANR
Benzene	u/L	-/-	ANR	ANR	ANR
Benzene	u/L	-/-	ANR	ANR	ANR
Benzene	u/L	-/-	ANR	ANR	ANR
Benzene	u/L	-/-	ANR	ANR	ANR
Benzene	u/L	-/-	ANR	ANR	ANR
Benzene	u/L	-/-	ANR	ANR	ANR
Benzene	u/L	-/-	ANR	ANR	ANR
Benzene	u/L	-/-	ANR	ANR	ANR
Benzene	C	1.0/-	ANR	ANR	ANR

OUTFALL 019 (Treatment System)

FOURTH QUARTER 2012 REPORTING SUMMARY

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-H#CDD	1.60E-06	5.00E-05	ND	(B)	0.01	0.05	ND
1,2,3,4,6,7,8-H#CDF	1.60E-06	5.00E-05	ND		0.01	0.01	ND
1,2,3,4,7,8,9-H#CDF	1.90E-06	5.00E-05	ND		0.01	0.4	ND
1,2,3,4,7,8-H CDD	1.20E-06	5.00E-05	ND		0.1	0.3	ND
1,2,3,4,7,8-H CDF	1.20E-06	5.00E-05	ND	(B)	0.1	0.08	ND
1,2,3,6,7,8-H CDD	1.10E-06	5.00E-05	ND		0.1	0.1	ND
1,2,3,6,7,8-H CDF	1.20E-06	5.00E-05	ND	(B)	0.1	0.2	ND
1,2,3,7,8,9-H CDD	1.00E-06	5.00E-05	ND		0.1	0.1	ND
1,2,3,7,8,9-H CDF	1.50E-06	5.00E-05	ND		0.1	0.6	ND
1,2,3,7,8-PCDD	3.60E-06	5.00E-05	ND		1	0.9	ND
1,2,3,7,8-PCDF	3.40E-06	5.00E-05	ND		0.05	0.2	ND
2,3,4,6,7,8-H CDF	1.20E-06	5.00E-05	ND	(B)	0.1	0.7	ND
2,3,4,7,8-PCDF	3.60E-06	5.00E-05	ND		0.5	1.6	ND
2,3,7,8- CDD	1.90E-06	1.00E-05	ND		1	1	ND
2,3,7,8- CDF	2.40E-06	1.00E-05	ND		0.1	0.8	ND
OCDD	2.40E-06	1.00E-04	ND	(B)	0.0001	0.01	ND
OCDF	2.20E-06	1.00E-04	ND	(B)	0.0001	0.02	ND

TCDD TEQ w/out DNQ Values	ND
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See also the attached report for a complete list of results for this sample.

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) (
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OUTFALL 019 (Treatment System)

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
Maximum Daily Discharge	MGD	160
Ammonia Nitrogen (N)	LB /DA	13,500/2615
Biochemical Oxygen Demand (BOD 5)	LB /DA	40,032/26,700
Chloride (MBA)	LB /DA	200,160/-
Calcium (MBA)	LB /DA	667/-
Nitrate Nitrogen (N)	LB /DA	10,700/-
Nitrite Nitrogen (N)	LB /DA	10,700/-
Nitrogen (N)	LB /DA	1,334/-
Oxygen Demand	LB /DA	20,016/13,344
Phosphate	LB /DA	8.0/-
Urea	LB /DA	400,320/-
Calcium	LB /DA	11/5.7
Lead	LB /DA	1,270,000/-
Urea	LB /DA	60,048/20,016
Calcium	LB /DA	4.1/2.7
Chloride	LB /DA	19/9.5
Lead	LB /DA	6.9/3.5
Mercury	LB /DA	0.13/0.07
Urea	LB /DA	11/5.5
Zinc	LB /DA	159/72
1,1-Dichloroethene	LB /DA	8.0/4.3
Hexachlorocyclopentadiene	LB /DA	6.7/-
2,4,6-Trichlorophenol	LB /DA	17/8.7

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
Alkalinity	/L	-/-	Mg	0.1	*
pH (Free)	pH	6.5-8.5/-	Ga	7.6	*
Alkalinity	F	-/-	Ga	58	*
E. Coli	MPN/100	235/-	ANR	ANR	ANR
Fecal Coli	MPN/100	400/-	ANR	ANR	ANR
Hardness	/L	-/-	Ga	90	--
4,4'-DDD	u/L	0.0014/-	Ga	ND < 0.0038	*
4,4'-DDE	u/L	0.001/-	Ga	ND < 0.0029	*
4,4'-DD	u/L	0.001/-	Ga	ND < 0.0038	*
Atrazine 1016	u/L	0.0003/-	Ga	ND < 0.24	*
Atrazine 1221	u/L	0.0003/-	Ga	ND < 0.24	*
Atrazine 1232	u/L	0.0003/-	Ga	ND < 0.24	*
Atrazine 1242	u/L	0.0003/-	Ga	ND < 0.24	*
Atrazine 1248	u/L	0.0003/-	Ga	ND < 0.24	*
Atrazine 1254	u/L	0.0003/-	Ga	ND < 0.24	*
Atrazine 1260	u/L	0.0003/-	Ga	ND < 0.24	*
Chloride	u/L	0.001/-	Ga	ND < 0.076	*
Chloride	u/L	0.02/-	Ga	ND < 0.077	*
Diazinon	u/L	0.16/-	Ga	ND < 0.039	*
Dieldrin	u/L	0.0002/-	Ga	ND < 0.0019	*
Endrin	u/L	0.0003/-	Ga	ND < 0.24	*