TABLE 3

2012 SUMMARY OF PERMIT LIMIT AND BENCHMARK LIMIT EXCEEDANCES

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

Notes:

- 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 μ g/L (Outfall 019) is not achievable by the laboratory; therefore, the laboratory MDL of 0.10 μ g/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							
\$								
Φ	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							
3	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							
	John Children (Elvii O) valado							

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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 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

CEs/100 ml cell equivalents per 100 milliliters

%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

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
mg/kg milligrams per kilogram
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 picocurries 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

TCDD 2,3,7,8-tetrachlorodibenzo-p-dioxin

TEQ toxic equivalent

T presumed contamination, as indicated by a detect in the trip blank

TUc toxicity units (chronic)
U result not detected

µg/L micrograms per liter

µg/kg micrograms per kilogram

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 settable 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.

SUMMARY OF PERMIT LIMIT EXCEEDANCES

2012 ANNUAL REPORTING SUMMARY THE BOEING COMPANY SANTA SUSANA FIELD LABORATORY NPDES PERMIT CA0001309

DAILY MAX BENCHMARK LIMIT EXCEEDANCES								
OUTFALL	LOCATIONS	SAMPLE DATE	ANALYTE	BENCHMARK LIMIT DAILY MAX	DAILY MAX RESULT	UNITS	RESULT CONCENTRATION VALIDATION QUALIFIER	
Outfall 001	South Slope below Perimeter Pond	13-Apr-12	Gross Alpha	15	17.1 ± 2.0	pCi/L	J (C)	
Outfall 001	South Slope below Perimeter Pond	13-Apr-12	Iron	0.3	14	mg/L		
Outfall 001	South Slope below Perimeter Pond	13-Apr-12	Lead	5.2	10	ug/L		
Outfall 001	South Slope below Perimeter Pond	13-Apr-12	Manganese	50	260	ug/L		
Outfall 002	South Slope below R-2 Pond	13-Apr-12	Iron	0.3	1.7	mg/L		

SUMMARY OF PERMIT LIMIT EXCEEDANCES

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	DAILY MAX PERMIT LIMIT EXCEEDANCES								
OUTFALL	LOCATIONS	SAMPLE DATE	ANALYTE	PERMIT LIMIT DAILY MAX	DAILY MAX RESULT	UNITS	RESULT CONCENTRATION VALIDATION QUALIFIER		
Outfall 008	Happy Valley Drainage	13-Apr-12	Copper	14	18	ug/L			
Outfall 008	Happy Valley Drainage	13-Apr-12	Lead	5.2	10	ug/L			
Outfall 009	WS-13 Drainage	18-Mar-12	TCDD TEQ_NoDNQ	2.80E-08	1.61E-07	ug/L			
Outfall 009	WS-13 Drainage	25-Mar-12	Lead	5.2	7.2	ug/L			
Outfall 009	WS-13 Drainage	25-Mar-12	TCDD TEQ_NoDNQ	2.80E-08	5.62E-08	ug/L			
Outfall 009	WS-13 Drainage	11-Apr-12	TCDD TEQ_NoDNQ	2.80E-08	3.72E-08	ug/L			

SUMMARY OF PERMIT LIMIT EXCEEDANCES

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	DAILY MAX PERMIT LIMIT EXCEEDANCES - ARROYO SIMI								
OUTFALL	LOCATIONS	SAMPLE DATE	ANALYTE	PERMIT LIMIT DAILY MAX	DAILY MAX RESULT	UNITS	RESULT CONCENTRATION VALIDATION QUALIFIER		
Arroyo Simi	Frontier Park Receiving Water	8-Mar-12	E. Coli	235	300	MPN/100mL			
Arroyo Simi	Frontier Park Receiving Water	17-Mar-12	Fecal Coliform	400	>=1600	MPN/100mL			
Arroyo Simi	Frontier Park Receiving Water	17-Mar-12	E. Coli	235	>=1600	MPN/100mL			
Arroyo Simi	Frontier Park Receiving Water	27-Mar-12	Fecal Coliform	400	1600	MPN/100mL			
Arroyo Simi	Frontier Park Receiving Water	27-Mar-12	E. Coli	235	1600	MPN/100mL			
Arroyo Simi	Frontier Park Receiving Water	02-Apr-12	Fecal Coliform	400	500	MPN/100mL			
Arroyo Simi	Frontier Park Receiving Water	02-Apr-12	E. Coli	235	500	MPN/100mL			
Arroyo Simi	Frontier Park Receiving Water	06-Apr-12	E. Coli	235	250	MPN/100mL			

GEOMETRIC MEAN LIMIT EXCEEDANCES - ARROYO SIMI								
OUTFALL	LOCATIONS	SAMPLE DATE	ANALYTE	GOEMETRIC MEAN LIMIT	DAILY MAX RESULT	UNITS	RESULT CONCENTRATION VALIDATION QUALIFIER	
Arroyo Simi	Frontier Park Receiving Water	3/8, 3/17,3/27, 4/2, 4/6	Fecal Coliform	200	626	MPN/100mL	*	
Arroyo Simi	Frontier Park Receiving Water	3/8, 3/17,3/27, 4/2, 4/6	E. Coli	126	626	MPN/100mL	*	