

**FOUR QUARTER REPORT SUMMARY**  
**DEBOEN COMPANY**  
**ANALYTICAL LABORATORY**  
**NPDES PERMITS**

**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 is not detected

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**OUTFALL 004 (SRE)**

**FOURTH QUARTER 2008 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**October 1 through December 31, 2008**

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	12/15/2008		
			RESULT	MDA	VALIDATION QUALIFIER
<b>RADIOACTIVITY</b>					
Gross Alpha	pCi/L	15/-	1.6 ± 1.1	1.5	J (R,DNQ)
Gross Beta	pCi/L	50/-	8.9 ± 1.3	0.9	--
Strontium-90	pCi/L	8.0/-	-0.12 ± 0.39	0.68	U
Total Combined Radium-226 & Radium 228	pCi/L	5.0/-	-0.26 ± 0.32	0.79	UJ (L, *III)
Tritium	pCi/L	20000/-	60 ± 200	330	U
Uranium, Total	pCi/L	20/-	0.124 ± 0.013	0.21	U
Potassium-40	pCi/L	----	-40 ± 230	210	UJ (H)
Cesium 137	pCi/L	----	0.0 ± 7.3	14	UJ (H)



**OUTFALL 009 (WS-13 Drainage)**

**FOURTH QUARTER 2008 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**October 1 through December 31, 2008**

**11/26/2008**

**12/15/2008**

**ANALYTE**

**UNITS Permit Limit  
Daily  
Max/Monthly  
Av**

