

APPENDIX D

THIRD QUARTER 2012 RADIOLOGICAL MONITORING DATA

OUTFALL 019 (Treatment System)

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

July 1 through September 30, 2012

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	07/10/2012 (Comp)			08/02/2012 (Comp)		
			RESULT	MDA	VALIDATION QUALIFIER	RESULT	MDA	VALIDATION QUALIFIER
RADIOACTIVITY								
Gross Alpha	pCi/L	15/-	0.853 ± 0.79	1.33	UJ (C)	-0.162 ± 0.85	1.7	UJ (C)
Gross Beta	pCi/L	50/-	1.35 ± 1.3	2.1	U	3.28 ± 1.6	2.49	J (DNQ)
Strontium-90	pCi/L	8.0/-	0.131 ± 0.37	0.786	U	0.046 ± 0.26	0.595	U
Total Combined Radium-226 & Radium 228	pCi/L	5.0/-	0.35 ± 0.36	0.91	U	0.50 ± 0.36	0.94	U
Tritium	pCi/L	20000/-	25.7 ± 110	180	U	-50.4 ± 100	176	U
Potassium-40	pCi/L	-/-	-8.61 ± 19	34.5	U	8.51 ± 19	32.8	U
Uranium, Total	pCi/L	20/-	0.117 ± 0.015	0.016	J (DNQ)	0.132 ± 0.015	0.013	J (DNQ)
Cesium 137	pCi/L	200/-	-1.39 ± 1.7	2.98	U	-1.32 ± 1.6	2.87	U

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NPDES PERMIT CA0001309**

July 1 through September 30, 2012

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	09/06/2012 (Comp)		
			RESULT	MDA	VALIDATION QUALIFIER
RADIOACTIVITY					
Gross Alpha	pCi/L	15/-	0.749 ± 0.94	1.68	UJ (C)
Gross Beta	pCi/L	50/-	1.62 ± 1.3	2.16	U
Strontium-90	pCi/L	8.0/-	-0.096 ± 0.34	0.835	U
Total Combined Radium-226 & Radium 228	pCi/L	5.0/-	0.28 ± 0.38	0.99	U
Tritium	pCi/L	20000/-	18.7 ± 87	147	U
Potassium-40	pCi/L	-/-	-7.85 ± 15	26.8	U
Uranium, Total	pCi/L	20/-	0.365 ± 0.041	0.014	--
Cesium 137	pCi/L	200/-	-0.762 ± 1.1	1.99	U