

**OUTFALL 008 (Happy Valley Drainage)**

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

January 1 through December 31, 2008

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	1/25/2008		2/3/2008	
			RESULT	VALIDATION QUALIFIER	RESULT	VALIDATION QUALIFIER
Ammonia as Nitrogen (N)	mg/L	10.1/-	ND < 0.30	*	ND < 0.30	*
Chloride	mg/L	150/-	9.7	*	16	*
Fluoride	mg/L	1.6/-	ANR	ANR	0.24	J* (DNQ)
Nitrate + Nitrite as Nitrogen (N)	mg/L	8.0/-	4.9	*	7.7	*
Nitrate as Nitrogen (N)	mg/L	8.0/-	4.9	*	7.7	*
Nitrite-N	mg/L	1.0/-	ND < 0.090	*	ND < 0.090	*
Oil & Grease	mg/L	15/-	ND < 1.3	*	1.7	J* (DNQ)
Perchlorate	ug/L	6.0/-	ND < 1.5	*	ND < 1.5	*
pH (Field)	pH units	6.5-8.5/-	7.2	*	7.1	*
Sulfate	mg/L	300/-	9.8	*	19	*
Temperature	deg. F	86/-	46	*	46	*
Total Cyanide	ug/L	-/-	ANR	ANR	ND < 2.2	*
Total Dissolved Solids	mg/L	950/-	160	*	240	*
Hardness	mg/L	-/-	ANR	ANR	140	--
Hardness, dissolved	mg/L	-/-	ANR	ANR	130	--
Total Suspended Solids	mg/L	-/-	ANR	ANR	60	--
Volume Discharged	MGD	17.8/-	0.259	*	0.256	*
<b>METALS</b>						
Aluminum	ug/L	-/-	ANR	ANR	3100	--
Aluminum, dissolved	ug/L	-/-	ANR	ANR	ND < 40	U
Antimony	ug/L	6.0/-	0.30	J (DNQ)	0.38	J (DNQ)
Antimony, dissolved	ug/L	-/-	0.22	J (DNQ)	0.23	J (DNQ, *III)
Arsenic	ug/L	-/-	ANR	ANR	ND < 7.0	U
Arsenic, dissolved	ug/L	-/-	ANR	ANR	ND < 7.0	U
Beryllium	ug/L	-/-	ANR	ANR	ND < 0.90	U
Beryllium, dissolved	ug/L	-/-	ANR	ANR	ND < 0.90	U
Boron	mg/L	1.0/-	ANR	ANR	0.079	--
Boron, dissolved	mg/L	-/-	ANR	ANR	0.082	--
Calcium	mg/L	-/-	ANR	ANR	42	--
Calcium, Dissolved	mg/L	-/-	ANR	ANR	42	--
Cadmium	ug/L	3.1/-	ND < 0.11	U	ND < 0.11	U
Cadmium, dissolved	ug/L	-/-	ND < 0.11	U	ND < 0.11	U
Chromium	ug/L	-/-	ANR	ANR	4.4	J (DNQ)
Chromium, dissolved	ug/L	-/-	ANR	ANR	ND < 2.0	U
Copper	ug/L	14.0/-	5.0	--	3.8	--
Copper, dissolved	ug/L	-/-	2.9	--	1.6	J (DNQ)
Iron	mg/L	-/-	ANR	ANR	3.6	--
Iron, dissolved	mg/L	-/-	ANR	ANR	0.031	J (DNQ)
Lead	ug/L	5.2/-	6.3	--	4.5	--

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			RESULT	VALIDATION QUALIFIER	RESULT	VALIDATION QUALIFIER
Selenium	ug/L	-/-	0.32	J (DNQ)	ND < 10	UJ (B)
Selenium, dissolved	ug/L	-/-	ND < 0.30	U	ND < 8.0	U
Silver	ug/L	-/-	ANR	ANR	ND < 6.0	U
Silver, dissolved	ug/L	-/-	ANR	ANR	ND < 6.0	U
Thallium	ug/L	2.0/-	ND < 0.20	U	ND < 7.0	U
Thallium, dissolved	ug/L	-/-	ND < 0.20	U	ND < 7.0	UJ (*III)
Vanadium	ug/L	-/-	ANR	ANR	7.4	J (DNQ)
Vanadium, dissolved	ug/L	-/-	ANR	ANR	ND < 3.0	U
Zinc	ug/L	159/-	19	J (DNQ)	15	J (DNQ)
Zinc, dissolved	ug/L	-/-	8.4	J (DNQ)	ND < 6.0	U
<b>ORGANICS</b>						
Benzene	ug/L	-/-	ANR	ANR	ND < 0.28	*
Carbon Tetrachloride 5.9 (J) / TTr6dlhal175 (ANi6) -3532.5 (ND < 0.28) -408 UD < 7534 D < 759 Cir -419 (05.8 (-/-) -5042.5 (ANR) -4738 (ANR) -3532.5 (N						
Zinc Zinc Zinces.4 (Total-447117 (U) 8 (Zinc)-16590.3 (ug/L) JT* [Zinc]-1659PR7m (Zinc)-1659P90T* 759C (T*691n Cv190.3.3 (Tr)) JT* [Zinc8974 (U)						
Zinc Zinc Zinc Zinc 8196 [Zinc]-16590.3 (ug/L) JT* [Zinc]-1659PR7m (Zinc)-1659PR4m (Zinc)-16PR7 0 0 8 Tr						

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**January 1 through December 31, 2008**

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			RESULT	VALIDATION QUALIFIER	RESULT	VALIDATION QUALIFIER

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January 1 through December 31, 2008

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	1/25/2008		2/3/2008	
			RESULT	VALIDATION QUALIFIER	RESULT	VALIDATION QUALIFIER
Chlordane	ug/L	-/-	ANR	ANR	ND < 0.029	*
Chlorobenzene	ug/L	-/-	ANR	ANR	ND < 0.36	*
Chloroethane	ug/L	-/-	ANR	ANR	ND < 0.40	*
Chloromethane	ug/L	-/-	ANR	ANR	ND < 0.40	*
Chronic Toxicity	TUC	1.0/-	1.0	*	1.0	*
Chrysene	ug/L	-/-	ANR	ANR	ND < 2.4	*
cis-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ND < 0.22	*
Chlorpyrifos	ug/L	-/-	ANR	ANR	ND < 0.10	U
Diazinon	ug/L	-/-	ANR	ANR	ND < 0.24	UJ (H)
delta-BHC	ug/L	-/-	ANR	ANR	ND < 0.0033	*
Dibenzo(a,h)anthracene	ug/L	-/-	ANR	ANR	ND < 2.9	*
Dibenzofuran	ug/L	-/-	ANR	ANR	ND < 3.8	*
Dibromochloromethane	ug/L	-/-	ANR	ANR	ND < 0.28	*
Dieldrin	ug/L	-/-	ANR	ANR	ND < 0.0019	*
Diethylphthalate	ug/L	-/-	ANR	ANR	ND < 3.3	*
Dimethylphthalate	ug/L	-/-	ANR	ANR	ND < 1.9	*
Di-n-butylphthalate	ug/L	-/-	ANR	ANR	ND < 2.9	*
Di-n-octylphthalate	ug/L	-/-	ANR	ANR	ND < 3.3	*
Endosulfan I	ug/L	-/-	ANR	ANR	ND < 0.0019	*
Endosulfan II	ug/L	-/-	ANR	ANR	ND < 0.0029	*
Endosulfan sulfate	ug/L	-/-	ANR	ANR	ND < 0.0029	*
Endrin	ug/L	-/-	ANR	ANR	ND < 0.0019	*
End.6ND < 0.0019	ug/L	-/-	ANR	ANR	NyhINRND < 0.029	* *
Dibenzo(a,h)anthracene	ug/L	-/-	*	1.0	*	
Chrysene	ug/L	-/-ND < 0.22		*		
ChlorprJtRH1tU-9.5(ND < 0.029)-3804(*)t6ChxIHeptaNR			ND < 0.0029	*		
Endrin		3(ug029)-3804(*)t6ChxIHexaNRANR				
Dibenzo(a,h)anthracene	ug/L	-/-Autadi-3258902(ANR)-3532.5(ND < 0.10)-3921.8(U)JT*[(Diafuran)-12531.2(ug/L)				
afuran	ug/L	-/-R	A0362ANR	ND < 0.0029	*	
hthalate	ug/L	-/-ANcd)ANReR				
Di-n-butylphthalate						

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January 1 through December 31, 2008

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			RESULT	VALIDATION QUALIFIER	RESULT	VALIDATION QUALIFIER
Phenol	ug/L	-/-	ANR	ANR	ND < 1.9	*
p-Nitroaniline	ug/L	-/-	ANR	ANR	ND < 3.8	*
Pyrene	ug/L	-/-	ANR	ANR	ND < 3.8	*
Toxaphene	ug/L	-/-	ANR	ANR	ND < 0.067	*
trans-1,2-Dichloroethene	ug/L	-/-	ANR	ANR	ND < 0.27	*
trans-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ND < 0.32	*

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January 1 through December 31, 2008

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			RESULT	VALIDATION QUALIFIER
Ammonia as Nitrogen (N)	mg/L	10.1/-	ND < 0.30	*
Chloride	mg/L	150/-	12	*
Fluoride	mg/L	1.6/-	ANR	ANR
Nitrate + Nitrite as Nitrogen (N)	mg/L	8.0/-	3.4	*
Nitrate as Nitrogen (N)	mg/L	8.0/-	3.4	*
Nitrite-N	mg/L	1.0/-	ND < 0.090	*
Oil & Grease	mg/L	15/-	1.9	J* (DNQ)
Perchlorate	ug/L	6.0/-	ND < 1.5	*
pH (Field)	pH units	6.5-8.5/-	7.4	*
Sulfate	mg/L	300/-	15	*
Temperature	deg. F	86/-	55	*
Total Cyanide	ug/L	-/-	ANR	ANR
Total Dissolved Solids	mg/L	950/-	220	*
Hardness	mg/L	-/-	ANR	ANR
Hardness, dissolved	mg/L	-/-	ANR	ANR
Total Suspended Solids	mg/L	-/-	ANR	ANR
Volume Discharged	MGD	17.8/-	0.108	*
<b>METALS</b>				
Aluminum	ug/L	-/-	ANR	ANR
Aluminum, dissolved	ug/L	-/-	ANR	ANR
Antimony	ug/L	6.0/-	0.30	J (DNQ)
Antimony, dissolved	ug/L	-/-	0.30	J (DNQ)
Arsenic	ug/L	-/-	ANR	ANR
Arsenic, dissolved	ug/L	-/-	ANR	ANR
Beryllium	ug/L	-/-	ANR	ANR
Beryllium, dissolved	ug/L	-/-	ANR	ANR
Boron	mg/L	1.0/-	ANR	ANR
Boron, dissolved	mg/L	-/-	ANR	ANR
Calcium	mg/L	-/-	ANR	ANR
Calcium, Dissolved	mg/L	-/-	ANR	ANR
Cadmium	ug/L	3.1/-	ND < 0.11	U
Cadmium, dissolved	ug/L	-/-	ND < 0.11	U
Chromium	ug/L	-/-	ANR	ANR
Chromium, dissolved	ug/L	-/-	ANR	ANR
Copper	ug/L	14.0/-	2.4	--
Copper, dissolved	ug/L	-/-	1.8	J (DNQ)
Iron	mg/L	-/-	ANR	ANR
Iron, dissolved	mg/L	-/-	ANR	ANR
Lead	ug/L	5.2/-	1.3	--
Lead, dissolved	ug/L	-/-	ND < 0.30	U
Magnesium	mg/L	-/-	ANR	ANR
Magnesium, Dissolved	mg/L	-/-	ANR	ANR
Mercury	ug/L	0.13/-	ND < 0.050	U
Mercury, dissolved	ug/L	-/-	ND < 0.050	U
Nickel	ug/L	100/-	ANR	ANR
Nickel, dissolved	ug/L	-/-	ANR	ANR

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January 1 through December 31, 2008

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	2/24/2008	
			RESULT	VALIDATION QUALIFIER
Selenium	ug/L	-/-	ND < 0.30	U
Selenium, dissolved	ug/L	-/-	ND < 0.30	U
Silver	ug/L	-/-	ANR	ANR
Silver, dissolved	ug/L	-/-	ANR	ANR
Thallium	ug/L	2.0/-	ND < 0.20	U
Thallium, dissolved	ug/L	-/-	ND < 0.20	U
Vanadium	ug/L	-/-	ANR	ANR
Vanadium, dissolved	ug/L	-/-	ANR	ANR
Zinc	ug/L	159/-	ND < 20	UJ (B)
Zinc, dissolved	ug/L	-/-	ND < 2.5	U
<b>ORGANICS</b>				
Benzene	ug/L	-/-	ANR	ANR
Carbon Tetrachloride	ug/L	-/-	ANR	ANR
Chloroform	ug/L	-/-	ANR	ANR
1,1-Dichloroethane	ug/L	-/-	ANR	ANR
1,2-Dichloroethane	ug/L	-/-	ANR	ANR
1,1-Dichloroethene	ug/L	-/-	ANR	ANR
Ethylbenzene	ug/L	-/-	ANR	ANR
Tetrachloroethene	ug/L	-/-	ANR	ANR
Toluene	ug/L	-/-	ANR	ANR
Xylenes (Total)	ug/L	-/-	ANR	ANR
1,1,1-Trichloroethane	ug/L	-/-	ANR	ANR
1,1,2-Trichloroethane	ug/L	-/-	ANR	ANR
Trichloroethene	ug/L	-/-	ANR	ANR
Trichlorofluoromethane	ug/L	-/-	ANR	ANR
Trichlorotrifluoroethane (Freon 113)	ug/L	-/-	ANR	ANR
Vinyl chloride	ug/L	-/-	ANR	ANR
<b>ADDITIONAL ANALYTES</b>				
2,4,5-Trichlorophenol	ug/L	-/-	ANR	ANR
1,1,2,2-Tetrachloroethane	ug/L	-/-	ANR	ANR
1,2,4-Trichlorobenzene	ug/L	-/-	ANR	ANR
1,2-Dichlorobenzene	ug/L	-/-	ANR	ANR
1,2-Dichlorobenzene	ug/L	-/-	ANR	ANR
1,2-Dichloropropane	ug/L	-/-	ANR	ANR
1,2-Diphenylhydrazine/Azobenzene	ug/L	-/-	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR
2,4,6-Trichlorophenol	ug/L	-/-	ANR	ANR
2,4-Dichlorophenol	ug/L	-/-	ANR	ANR
2,4-Dimethylphenol	ug/L	-/-	ANR	ANR
2,4-Dinitrophenol	ug/L	-/-	ANR	ANR
2,4-Dinitrotoluene	ug/L	-/-	ANR	ANR
2,6-Dinitrotoluene	ug/L	-/-	ANR	ANR
2-Chloroethylvinylether	ug/L	-/-	ANR	ANR
2-Chloronaphthalene	ug/L	-/-	ANR	ANR

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ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg
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NPDES PERMIT CA0001309

January 1 through December 31, 2008

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	2/24/2008	
			RESULT	VALIDATION QUALIFIER
Chlordane	ug/L	-/-	ANR	ANR
Chlorobenzene	ug/L	-/-	ANR	ANR
Chloroethane	ug/L	-/-	ANR	ANR
Chloromethane	ug/L	-/-	ANR	ANR
Chronic Toxicity	TUC	1.0/-	ANR	ANR
Chrysene	ug/L	-/-	ANR	ANR
cis-1,3-Dichloropropene	ug/L	-/-	ANR	ANR
Chlorpyrifos	ug/L	-/-	ANR	ANR
Diazinon	ug/L	-/-	ANR	ANR
delta-BHC	ug/L	-/-	ANR	ANR
Dibenzo(a,h)anthracene	ug/L	-/-	ANR	ANR
Dibenzofuran	ug/L	-/-	ANR	ANR
Dibromochloromethane	ug/L	-/-	ANR	ANR
Dieldrin	ug/L	-/-	ANR	ANR
Diethylphthalate	ug/L	-/-	ANR	ANR
Dimethylphthalate	ug/L	-/-	ANR	ANR
Di-n-butylphthalate	ug/L	-/-	ANR	ANR
Di-n-octylphthalate	ug/L	-/-	ANR	ANR
Endosulfan I	ug/L	-/-	ANR	ANR
Endosulfan II	ug/L	-/-	ANR	ANR
Endosulfan sulfate	ug/L	-/-	ANR	ANR
Endrin	ug/L	-/-	ANR	ANR
Endrin aldehyde	ug/L	-/-	ANR	ANR
Endrin ketone	ug/L	-/-	ANR	ANR
Fluoranthene	ug/L	-/-	ANR	ANR
Fluorene	ug/L	-/-	ANR	ANR
Heptachlor	ug/L	-/-	ANR	ANR
Heptachlor epoxide	ug/L	-/-	ANR	ANR
Hexachlorobenzene	ug/L	-/-	ANR	ANR
Hexachlorobutadiene	ug/L	-/-	ANR	ANR
Hexachlorocyclopentadiene	ug/L	-/-	ANR	ANR
Hexachloroethane	ug/L	-/-	ANR	ANR
Indeno(1,2,3-cd)pyrene	ug/L	-/-	ANR	ANR
Isophorone	ug/L	-/-	ANR	ANR
Lindane (gamma-BHC)	ug/L	-/-	ANR	ANR
Methoxychlor	ug/L	-/-	ANR	ANR
Methylene Chloride	ug/L	-/-	ANR	ANR
m-Nitroaniline	ug/L	-/-	ANR	ANR
Naphthalene	ug/L	-/-	ANR	ANR
Nitrobenzene	ug/L	-/-	ANR	ANR
n-Nitrosodimethylamine	ug/L	-/-	ANR	ANR
n-Nitroso-di-n-propylamine	ug/L	-/-	ANR	ANR
n-Nitrosodiphenylamine	ug/L	-/-	ANR	ANR
o-Nitroaniline	ug/L	-/-	ANR	ANR
p-Cresol	ug/L	-/-	ANR	ANR
Pentachlorophenol	ug/L	-/-	ANR	ANR
Phenanthrene	ug/L	-/-	ANR	ANR

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NPDES PERMIT CA0001309**

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			RESULT	VALIDATION QUALIFIER
Phenol	ug/L	-/-	ANR	ANR
p-Nitroaniline	ug/L	-/-	ANR	ANR
Pyrene	ug/L	-/-	ANR	ANR
Toxaphene	ug/L	-/-	ANR	ANR
trans-1,2-Dichloroethene	ug/L	-/-	ANR	ANR
trans-1,3-Dichloropropene	ug/L	-/-	ANR	ANR







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			RESULT	MDA	VALIDATION QUALIFIER	RESULT	MDA	VALIDATION QUALIFIER	RESULT	MDA	VALIDATION QUALIFIER
<b>RADIOACTIVITY</b>											
Gross Alpha	pCi/L	15/-	2.20 ± 0.68	0.60	J (R)	0.789 ± 0.64	0.89	UJ (R)	1.49 ± 0.80	1.0	J (R)
Gross Beta	pCi/L	50/-	4.86 ± 0.68	0.88	--	3.36 ± 0.69	0.98	--	2.80 ± 0.90	1.5	--
Strontium-90	pCi/L	8.0/-	-0.139 ± 0.35	0.86	UJ (H)	0.214 ± 0.25	0.46	UJ (H)	0.029 ± 0.40	0.95	UJ (H)
Total Combined Radium-226 & Radium 228	pCi/L	5.0/-	-0.023 ± 0.447	1.29	UJ (H)	0.504 ± 0.41	1.29	UJ (H)	0.178 ± 0.52	1.32	UJ (H)
Tritium	pCi/L	20000/-	-45.9 ± 93	160	U	-51.1 ± 87	150	U	-66.3 ± 85	150	UJ (R)
Cs-137 (G)	pCi/L	----	ND < 0.87	0.87	UJ (H)	ND < 1.2	1.2	UJ (H)	ND < 1.9	1.9	UJ (H)
K-40 (G)	pCi/L	----	ND < 20	20	UJ (H)	ND < 28	28	UJ (H)	ND < 53	53	UJ (H)
Uranium, Total	pCi/L	20/-	0.196 ± 0.024	0.022	J (H)	0.682 ± 0.075	0.022	J (H)	0.515 ± 0.059	0.023	J (H)

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SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

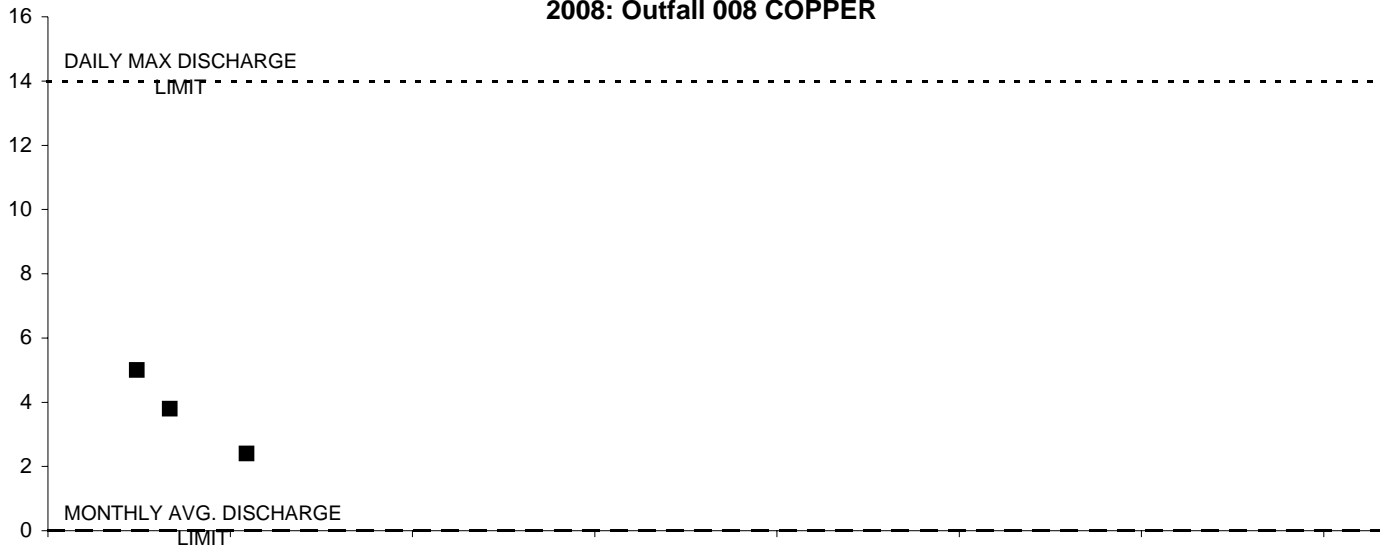
January 1 through December 31, 2008

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	1/25/2008		2/3/2008		2/24/2008	
			Result	CONCENTRATION RESULT VALIDATION QUALIFIER	Result	CONCENTRATION RESULT VALIDATION QUALIFIER	Result	CONCENTRATION RESULT VALIDATION QUALIFIER
Ammonia as Nitrogen (N)	LBS/DAY	1,500/-	ND	*	ND	*	ND	*
Chloride	LBS/DAY	22,268/-	20.95	*	34.16	*	10.80	*
Fluoride	LBS/DAY	238/-	ANR	ANR	0.51	J* (DNQ)	ANR	ANR
Nitrate + Nitrite as Nitrogen (N)	LBS/DAY	1,188/-	10.58	*	16.43	*	3.06	*
Nitrate as Nitrogen (N)	LBS/DAY	1,190/-	10.58	*	16.43	*	3.06	*
Nitrite-N	LBS/DAY	148/-	ND	*	ND	*	ND	*
Oil & Grease	LBS/DAY	2,227/-	ND	*	3.63	J* (DNQ)	1.71	J* (DNQ)
Perchlorate	LBS/DAY	0.89/-	ND	*	ND	*	ND	*
Sulfate	LBS/DAY	44,536/-	21.16	*	40.56	*	13.51	*
Total Dissolved Solids	LBS/DAY	141,029/-	345.60	*	512.40	*	198.16	*
Antimony	LBS/DAY	0.89/-	0.0006	J (DNQ)	0.0008	J (DNQ)	0.0003	J (DNQ)
Boron	LBS/DAY	148/-	ANR	ANR	0.17	--	ANR	ANR
Cadmium	LBS/DAY	0.46/-	ND	U	ND	U	ND	U
Copper	LBS/DAY	2.08/-	0.011	--	0.008	--	0.0022	--
Lead	LBS/DAY	0.77/-	0.014	--	0.010	--	0.0012	--
Mercury	LBS/DAY	0.02/-	ND	U	ND	U	ND	U
Nickel	LBS/DAY	14.9/-	ANR	ANR	0.01	J (DNQ)	ANR	ANR
Thallium	LBS/DAY	0.3/-	ND	U	ND	U	ND	U
Zinc	LBS/DAY	23.6/-	0.04	J (DNQ)	0.03	J (DNQ)	ND	UJ (B)
TCDD TEQ_NoDNQ	LBS/DAY	4.2E-09/-	2.44E-11	--	ND	--	ND	--

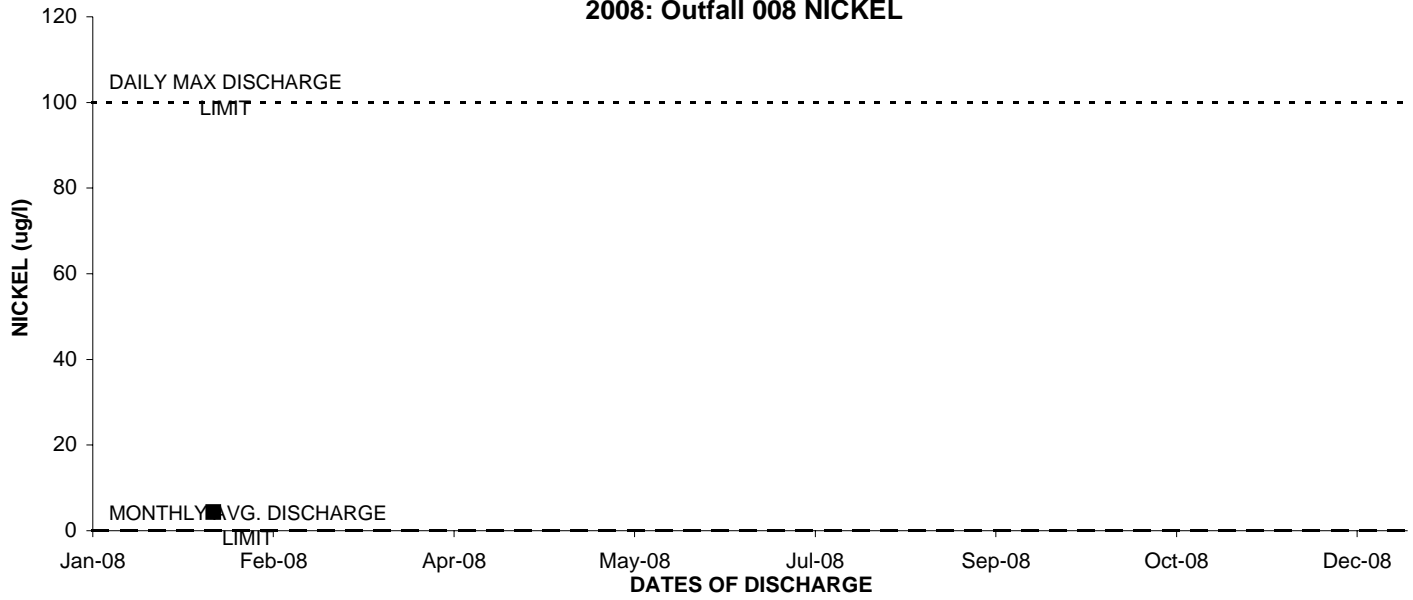




### 2008: Outfall 008 COPPER



# 2008: Outfall 008 NICKEL



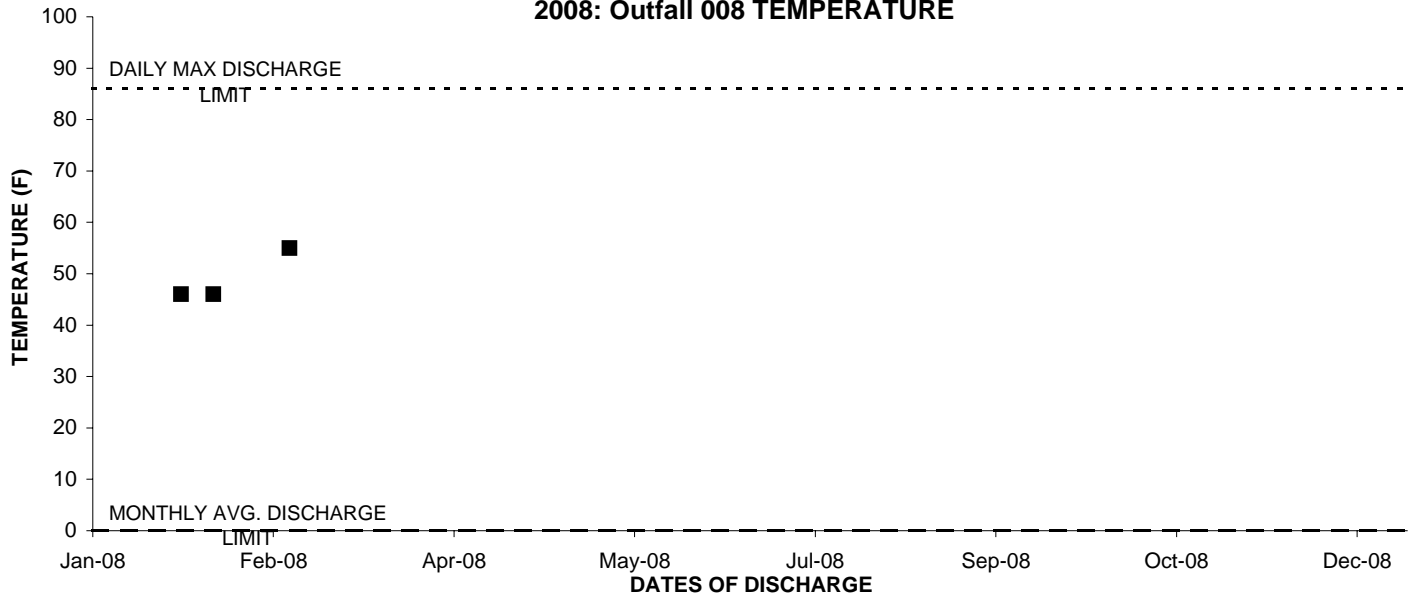


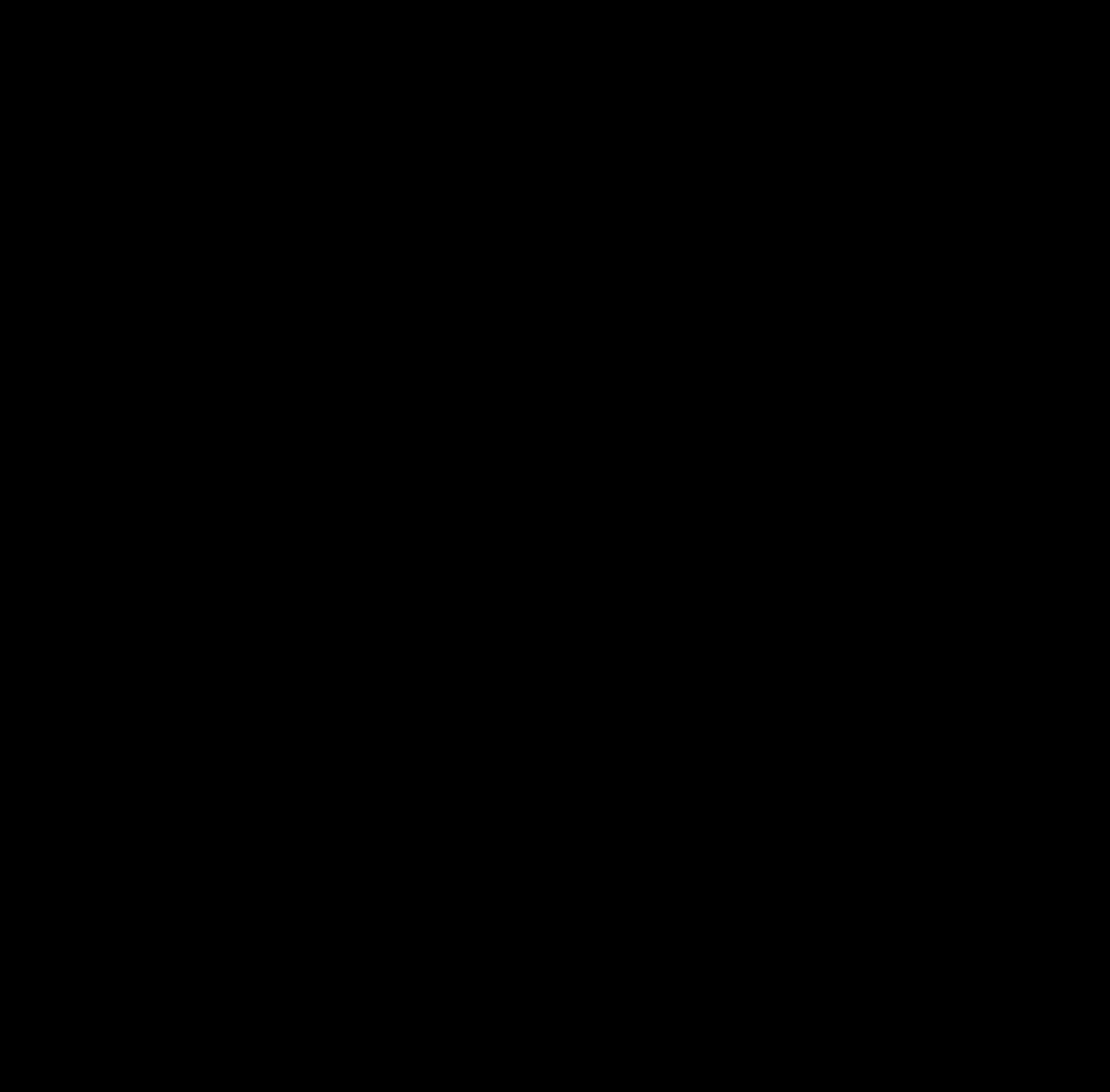






# 2008: Outfall 008 TEMPERATURE





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Dec-08





# 2008: Outfall 008 TRITIUM

