

SANTA SUSANA FIELD LABORATORY
SURFACE WATER SAMPLING PROGRAM
LABORATORY MDLs, REPORTING LIMITS, STATE MINIMUM LEVELS, AND PERMIT LIMITS COMPARISON
NPDES PERMIT CA0001309
Order No. R4-2007-0055

Analyte	Laboratory MDL	Laboratory RL	SWRCB ML	Laboratory vs ML(1)	Monthly Ave. Limits	Daily Max Limits	Daily Max Limits	Daily Max Limits	Receiving Water Limits
					001 Benchmark -- 011 Compliance -- 019 Compliance	001 Benchmark 002 Benchmark 011 Compliance 018 Compliance 019 Compliance	003-007 Compliance 008 Benchmark 009 Benchmark 010 Compliance	012-014 Benchmark	003-007 Compliance 009 Compliance 010 Compliance
624 - Low-level	8260/624 MDL	8260/624 RL	SWRCB Attach B GCMS ML		ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	0.30	0.5	2	--					
1,1,2,2-Tetrachloroethane	0.24	0.5	1	--					
1,1,2-Trichloroethane	0.30	0.5	2	--					
1,1-Dichloroethane	0.27	0.5	1	--					
1,1-Dichloroethene	0.42	0.5	2	--	3.2	6.0			

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Monthly Ave.

Daily Max

Daily Max

Daily Max

Receiving Water

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Bis(2-ethylhexyl)phthalate	11	50	5	ML< MDL	--	4.0			
Butyl benzyl phthalate	3.7	20	10	MDL<ML<RL					
Chrysene	2.4	10	10	--					
Dibenz(a,h)anthracene	5.1	20	10	MDL<ML<RL					
Diethyl phthalate	3.7	10	2	ML< MDL					
Dimethyl phthalate	3.5	10	2	ML< MDL					
Di-n-butyl phthalate	3.1	20	10	MDL<ML<RL					
Di-n-octyl phthalate	3.9	20	10	MDL<ML<RL					
Fluoranthene	6.9	10	1	ML< MDL					
Fluorene	3.3	10	10	--					
Hexachlorobenzene	4.2	10	1	ML< MDL					
Hexachlorobutadiene	2.3	10	1	ML< MDL					
Hexachlorocyclopentadiene	4.9	20	5	MDL<ML<RL					
Hexachloroethane	2.3	10	1	ML< MDL					
Indeno(1,2,3-cd)pyrene	4.8	20	10	MDL<ML<RL					
Isophorone	3.7	10	1	ML< MDL					
Naphthalene	2.2	10	1	ML< MDL					
Nitrobenzene	3.2	20	1	ML< MDL					
n-Nitrosodimethylamine	2.4	20	5	ML< MDL	8.1	16.3			
n-Nitroso-di-n-propylamine	4.4	10	5	MDL<ML<RL					
n-Nitrosodiphenylamine	3.5	10	1	ML< MDL					
Pentachlorophenol	2.0	20	5	MDL<ML<RL	8.2	16.5			
Phenanthrene	3.5	10	5	MDL<ML<RL					
Phenol	4.1	10	1	ML< MDL					
2,4,5-Trichlorophenol	3.4	20	na	--					
Pyrene	5.3	10	10	--					
2-Methylnaphthalene	2.9	10	na	--					
2-Methylphenol	3.1	10	na	--					
2-Nitroaniline	2.9	20	na	--					
3-Nitroaniline	2.8	20	na	--					
4-Chloroaniline	2.3	10	na	--					
4-Methylphenol	3.3	10	na	--					
4-Nitroaniline	4.3	20	na	--					
Aniline	2.6	10	na	--					
Benzoic acid	1.0	20	na	--					
Benzyl alcohol	3.1	20	na	--					
Dibenzofuran	3.4	10	na	--					
			SWRCB						
625+NDMA+Hydrazine -Low-level	MDL	RL	ML						
	ug/L	ug/L	GC/MS (ug/L)		ug/L	ug/L	ug/L	ug/L	ug/L
1,2,4-Trichlorobenzene	0.1	1	5	--					
1,2-Dichlorobenzene	0.1	0.5	2	--					
1,2-Diphenylhydrazine/Azobenzene	0.1	1	1	--					
1,3-Dichlorobenzene	0.13	0.5	1	--					
1,4-Dichlorobenzene	0.05	0.5	1	--					
2,4,6-Trichlorophenol	0.2	2	10	--	6.5	13.0			

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2,4-Dichlorophenol	0.2	2	5	--					
2,4-Dimethylphenol	0.3	2	2	--					
2,4-Dinitrophenol	0.9	5	5	--					
2,4-Dinitrotoluene	0.2	5	5	--	9.1	18.3			
2,6-Dinitrotoluene	0.1	5	5	--					
2-Chloronaphthalene	0.1	0.5	10	--					
2-Chlorophenol	0.2	1	5	--					
2-Nitrophenol	0.1	2	10	--					
3,3-Dichlorobenzidine	0.4	5	5	--					
4,6-Dinitro-2-methylphenol	0.2	5	5	--					
4-Bromophenyl phenyl ether	0.1	1	5	--					
4-Chloro-3-methylphenol	0.2	2	1	MDL<ML<RL					
4-Chlorophenyl phenyl ether	0.1	0.5	5	--					
4-Nitrophenol	2.5	5	10	--					
Acenaphthene	0.1	0.5	1	--					
Acenaphthylene	0.1	0.5	10	--					
Anthracene	0.1	0.5	10	--					
Benzidine	1	5	5	--					
Benzo(a)anthracene	0.1	5	5	--					
Benzo(a)pyrene	0.1	2	10	--					
Benzo(b)fluoranthene	0.1	2	10	--					
Benzo(g,h,i)perylene	0.1	5	5	--					
Benzo(k)fluoranthene	0.1	0.5	10	--					
Bis(2-chloroethoxy)methane	0.1	0.5	5	--					
Bis(2-chloroethyl)ether	0.1	0.5	1	--					
Bis(2-chloroisopropyl)ether	0.1	0.5	2	--					
Bis(2-ethylhexyl)phthalate	1.7	5	5	PL < ML&RL		4.0			
Butyl benzyl phthalate	0.7	5	10	--					
Chrysene	0.1	0.5	10	--					
Dibenz(a,h)anthracene	0.1	0.5	10	--					
Diethyl phthalate	0.1	1	2	--					
Dimethyl phthalate	0.1	0.5	2	--					
Di-n-butyl phthalate	0.2	2	10	--					
Di-n-octyl phthalate	0.1	5	10	--					
Fluoranthene	0.1	0.5	1	--					
Fluorene	0.1	0.5	10	--					
Hexachlorobenzene	0.1	1	1	--					
Hexachlorobutadiene	0.2	2	1	MDL<ML<RL					
Hexachlorocyclopentadiene	0.1	5	5	--					
Hexachloroethane	0.2	3	1	MDL<ML<RL					
Indeno(1,2,3-cd)pyrene	0.1	2	10	--					
Isophorone	0.1	1	1	--					
Naphthalene	0.1	1	1	--					
Nitrobenzene	0.1	1	1	--					
n-Nitrosodimethylamine	0.1	2	5	--	8.1	16.3			
n-Nitroso-di-n-propylamine	0.1	2	5	--					
n-Nitrosodiphenylamine	0.1	1	1	--					
Pentachlorophenol	0.1	2	5	--	8.2	16.5			

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Cadmium (Low Level test code)	0.025	0.2	0.25	--	2.0	3.1/4.0	3.1 (outfall 008) / 4.0	3.1	
Chromium	0.56	2	0.5	MDL<ML<RL	see Cr VI	see Cr VI			
Copper	0.75	2	0.5	MDL<ML<RL	7.1	14.0	14.0	13.5	
Lead	0.30	1	0.5	MDL<ML<RL	2.6	5.2	5.2	5.2	
Manganese	0.50	1	n/a	--		50			
Nickel	0.35	1	1	--	35	96	100		
Selenium	0.30	2	2	--	4.1	8.2/5	5 (outfall 008)	5	
Silver	0.30	1	0.25	MDL=ML<RL	2.0	4.1			
Thallium	0.20	1	1	--	--	2.0	2.0		
Zinc	1.0	5	1	ML=MDL	54	119	159 (outfall 008)	159	
			SWRCB						
	MDL	RL	ML						
ICP 200.7	ug/L	ug/L	ug/L		ug/L	ug/L	ug/L	ug/L	ug/L
Antimony	6	RL (10)>permit	50	PL < ML&RL	--	6.0	6.0		
Arsenic	7	10	10	--	--	10			
Beryllium	0.9	2	2	--	--	4.0			
Cadmium	2	RL (5)>permit	10	PL < ML&RL	2.0	3.1/4.0	3.1 (outfall 008) / 4.0	3.1	
Chromium	2	5	10	--	see Cr VI	see Cr VI			
Copper	2	RL (10)>permit	10	PL < ML&RL	7.1	14.0	14.0	13.5	
Lead	3	RL (5)>permit	5	PL < ML&RL	2.6	5.2	5.2	5.2	
Manganese	7	20	n/a	--		50			
Nickel	2	10	20	--	35	96	100		
Selenium	8	RL (10)>permit	10	PL < ML&RL	4.1	8.2/5	5 (outfall 008)	5	
Silver	3	RL (10)>permit	10	PL < ML&RL	2.0	4.1			
Thallium	7	RL (10)>permit	10	PL < ML&RL	--	2.0	2.0		
Zinc	6	20	20	--	54	119	159 (outfall 008)	159	
			SWRCB						
	MDL	RL	ML						
ICP 200.7	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L
Boron	0.020	0.05	na	--			1	1	
Iron	0.015	0.04	na	--		0.3			
Barium	0.006	0.01	na	--		1.0			
			SWRCB						
	MDL	RL	ML						
Mercury	ug/L	ug/L	ug/L		ug/L	ug/L	ug/L	ug/L	ug/L
245.1	0.05	0.2	0.2	PL < ML&RL	0.05	0.1	0.13	0.1	
			SWRCB						
	MDL	RL	ML						
Chromium VI	ug/L	ug/L	ug/L		ug/L	ug/L	ug/L	ug/L	ug/L
218.6/7199	0.20	1	10	--	8.1	16.3			
			SWRCB						
	MDL	RL	Attach B						
	ug/L	ug/L	ML						
Chromium III (calc)	2.7	5	na	--					

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