

CALCULATIONS OF NEW MEXICO WATER QUALITY-BASED EFFLUENT LIMITATIONS

NMAC 20.6.4. NMWQS as of 2023

Calculations Specifications:

Excel Revised (in red text) as of February 2023

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30-Sep-25 4:17 PM

STEP 1: REFERENCE IMPLEMENTATION PROCEDURES
 INPUT FACILITY AND RECEIVING STREAM DATA
 LIST SOURCE OF DATA INPUT

APPENDIX A
of FACT SHEET

IMPLEMENTATION PROCEDURES

The State of New Mexico Standards for Interstate and Intrastate Surface Waters are implemented in this spread sheet by using procedures established in the current "Procedures for Implementing NPDES Permits in New Mexico"

FACILITY DATA INPUT

Permittee	City of Belen	
NPDES Permit No.	NM0020150	
Outfall No.(s)	001	
Plant Effluent Flow (MGD)	1.2	For industrial and federal facility, use the highest monthly average flow for the past 24 months. For POTWs, use the design flow.
Plant Effluent Flow (cfs)	1.86	

RECEIVING STREAM 0

Receiving Stream Name	Rio Grande
Basin Name	Rio Grande
Waterbody Segment Code No.	20.6.4.105
Is a publicly owned lake or reservoir (enter "1" if it's a lake, "0" if not)	0
Are acute aquatic life criteria considered (1= yes, 0= no)	1
Are chronic aquatic life criteria considered (1= yes, 0=no)	1
Are domestic water supply criteria considered (1= yes, 0=no)	1
Are irrigation water supply criteria considered (1= yes, 0=no)	1
Livestock watering and wildlife habitat criteria applied to all streams	

USGS Flow Station	Rio Grande at State Hwy 346 Near Bosquen NM	
WQ Monitoring Station No.	8331510	
Receiving Stream TSS (mg/l)	322.028	For intermittent stream, enter effluent TSS
Receiving Stream Hardness (mg/l as CaCO ₃)	143.429	For intermittent stream, enter effluent Hardness (If no data, 20 mg/l is used)
Receiving Stream Critical Low Flow (4Q3) (cfs)	8.6114	Enter "0" for intermittent stream and lake.
Receiving Stream Harmonic Mean Flow (cfs)	65.009	Enter harmonic mean or modified harmonic mean flow data or 0.001 if no data is available
Avg. Receiving Water Temperature (C)	20.71	
pH (Avg), Receiving Stream	7.98	
Fraction of stream allowed for mixing (F)	1	Enter 1, if stream morphology data is not available or for intermittent streams.
Fraction of Critical Low Flow		

POLLUTANTS	CAS No.	MQL	Instream Waste Concentration								Livestock& Wildlife Criteria ug/l	Acute Aquatic Criteria ug/l	Chronic Aquatic Criteria ug/l	Human Health Criteria ug/l	Need TMDL
			Ambient Conc.	Effluent Conc.	Acute Aquatic	Domestic Supply	Chronic Aquatic	Human Health	Domestic Criteria	Irrigation Criteria					
			Ca (ug/l)	Ce (ug/l)	2.13*Ce	Cd,dom (ug/l)	Cd (ug/l)	Cd,hh (ug/l)	ug/l	ug/l					
Radioactivity, Nutrients, and Chlorine															
Aluminum, total	7429-90-5	2.5	579.9	1	2.13	477.272634	2.13	563.828993	1E+100	1E+100	1E+100	5605.581466	2245.80222	1E+100	N/A
Aluminum, dissolved	7429-90-5		40.5		0	33.30611953	0	39.373469	1E+100	5000	1E+100	1E+100	1E+100	1E+100	N/A
Barium, dissolved	7440-39-3	100	100		0	82.23733216	0	97.218442	2000	1E+100	1E+100	1E+100	1E+100	1E+100	N/A
Boron, dissolved	7440-42-8	100	85.3		0	70.14844433	0	82.9273311	1E+100	750	5000	1E+100	1E+100	1E+100	N/A
Chloride	1688-70-06		20766		0	17077.4044	0	20188.3817	1E+100	1E+100	1E+100	860000	230000	1E+100	N/A
Cobalt, dissolved	7440-48-4	50	1		0	0.822373322	0	0.97218442	1E+100	50	1000	1E+100	1E+100	1E+100	N/A
Uranium, dissolved	7440-61-1	0.1	2.1		0	1.726983975	0	2.04158728	30	1E+100	1E+100	1E+100	1E+100	1E+100	N/A
Vanadium, dissolved	7440-62-2	50	5.3		0	4.358578605	0	5.15257743	1E+100	100	100	1E+100	1E+100	1E+100	N/A
Ra-226 and Ra-228 (pCi/l)					0	0	0	0	5	1E+100	30	1E+100	1E+100	1E+100	N/A
Strontium (pCi/l)					0	0	0	0	8	1E+100	1E+100	1E+100	1E+100	1E+100	N/A
Tritium (pCi/l)					0	0	0	0	20000	1E+100	20000	1E+100	1E+100	1E+100	N/A
Gross Alpha (pCi/l)					0	0	0	0	15	1E+100	15	1E+100	1E+100	1E+100	N/A
Asbestos (fibers/l)					0	0	0	0	7000000	1E+100	1E+100	1E+100	1E+100	1E+100	N/A
Total Residual Chlorine	7782-50-5	33			0	0	0	0	1E+100	1E+100	11	19	11	1E+100	N/A
Ammonia as N, total (mg/l)					0	0	0	0	1E+100	1E+100	1E+100	Criterion	Criterion	1E+100	N/A
Nitrate as N (mg/l)					0	0	0	0	10	1E+100	1E+100	1E+100	1E+100	1E+100	N/A
Nitrite + Nitrate (mg/l)			635.2		0	522.3715339	0	617.531544	1E+100	1E+100	132	1E+100	1E+100	1E+100	Need TMDL
METALS AND CYANIDE															
Antimony, dissolved (P)	7440-36-0	60	1	1	2.13	1.200718147	2.13	1.03143161	6	1E+100	1E+100	1E+100	1E+100	640	N/A
Arsenic, dissolved (P)	7440-38-2	0.5	3.2		0	2.631594629	0	3.11099014	10	100	200	340	150	9	N/A
Beryllium, dissolved	7440-41-7	0.5	1		0	0.822373322	0	0.97218442	4	1E+100	1E+100	1E+100	1E+100	1E+100	N/A
Cadmium, dissolved	7440-43-9	1			0	0	0	0	5	10	50	2.247286041	0.58697626	1E+100	N/A
Chromium (III), dissolved	16065-83-1	10			0	0	0	0	1E+100	1E+100	1E+100	765.56185	99.5838681	1E+100	N/A
Chromium (VI), dissolved	18540-29-9	10			0	0	0	0	1E+100	1E+100	1E+100	16	11	1E+100	N/A
Chromium, dissolved	7440-47-3				0	0	0	0	100	100	1000	1E+100	1E+100	1E+100	N/A
Copper, dissolved	7440-50-8	0.5		0.9	1.917	0.340510342	1.917	0.05332247	1300	200	500	18.87791244	12.1884454	1E+100	N/A
Iron	7439-89-6				0	0	0	0	1E+100	1E+100	1E+100	1E+100	1000	1E+100	N/A
Lead, dissolved	7439-92-1	0.5			0	0	0	0	15	5000	100	95.42200668	3.71845861	1E+100	N/A
Manganese, dissolved	7439-96-5		7		0	5.756613251	0	6.80529094	1E+100	1E+100	1E+100	3366.811222	1860.16663	1E+100	N/A
Instream Waste Concentration															
POLLUTANTS	CAS No.	MQL	Instream Waste Concentration								Livestock& Wildlife Criteria ug/l	Acute Aquatic Criteria ug/l	Chronic Aquatic Criteria ug/l	Human Health Criteria ug/l	Need TMDL
			Ambient Conc.	Effluent Conc.	Acute Aquatic	Domestic Supply	Chronic Aquatic	Human Health	Domestic Criteria	Irrigation Criteria					
			Ca (ug/l)	Ce (ug/l)	2.13*Ce	Cd,dom (ug/l)	Cd (ug/l)	Cd,hh (ug/l)	ug/l	ug/l					
Mercury, dissolved	7439-97-6	0.005			0	0	0	0	1E+100	1E+100	1E+100	1.4	0.77	1E+100	N/A
Mercury, total	7439-97-6	0.005			0	0	0	0	2	1E+100	0.77	1E+100	1E+100	1E+100	N/A
Molybdenum, dissolved	7439-98-7		4.9		0	4.029629276	0	4.76370366	1E+100	1000	1E+100	1E+100	1E+100	1E+100	N/A
Molybdenum, total recoverable	7439-98-7				0	0	0	0	1E+100	1E+100	1E+100	7920	1895	1E+100	N/A
Nickel, dissolved (P)	7440-02-0	0.5			0	0	0	0	700	1E+100	1E+100	635.3009065	70.562317	4600	N/A
Selenium, dissolved (P)	7782-49-2	5			0	0	0	0	50	130	50	1E+100	1E+100	4200	N/A
Selenium, dis (SO4 >500 mg/l)		5			0	0	0	0	50	250	50	1E+100	1E+100	4200	N/A
Selenium, total recoverable	7782-49-2	5			0	0	0	0	1E+100	1E+100	5	20	5	1E+100	N/A
Silver, dissolved	7440-22-4	0.5			0	0	0	0	1E+100	1E+100	1E+100	5.981827421	1E+100	1E+100	N/A
Thallium, dissolved (P)	7440-28-0	0.5			0	0	0	0	2	1E+100	1E+100	1E+100	1E+100	0.47	N/A
Zinc, dissolved	7440-66-6	20	10	21	44.73	16.16897454	44.73	10.9660351	10500	2000	25000	222.1137002	168.289163	26000	N/A
Cyanide, total recoverable	57-12-5	10			0	0	0	0	200	1E+100	5.2	22	5.2	140	N/A
Dioxin	1746-01-6	0.00001			0	0	0	0	3.00E-05	1E+100	1E+100	1E+100	1E+100	5.1E-08	N/A

VOLATILE COMPOUNDS

Acrolein	107-02-8	50			0	0	0	0	18	1E+100	1E+100	3	3	400	N/A																																																																																																																																																																																																																						
Acrylonitrile	107-13-0	20			0	0	0	0	0.65	1E+100	1E+100	1E+100	1E+100	70	N/A																																																																																																																																																																																																																						
Benzene	71-43-2	10			0	0	0	0	5	1E+100	1E+100	1E+100	1E+100	160	N/A																																																																																																																																																																																																																						
Bromoform	75-25-2	10			0	0	0	0	44	1E+100	1E+100	1E+100	1E+100	1200	N/A																																																																																																																																																																																																																						
Carbon Tetrachloride	56-23-5	2			0	0	0	0	5	1E+100	1E+100	1E+100	1E+100	50	N/A																																																																																																																																																																																																																						
Chlorobenzene	108-90-7	10			0	0	0	0	100	1E+100	1E+100	1E+100	1E+100	800	N/A																																																																																																																																																																																																																						
Chlorodibromomethane	124-48-1	10		3.467	7.38471	1.311721508	7.38471	0.20540999	4.2	1E+100	1E+100	1E+100	1E+100	210	N/A																																																																																																																																																																																																																						
Chloroform	67-66-3	50	0.11	5.333	11.35929	2.108174017	11.35929	0.42290552	57	1E+100	1E+100	1E+100	1E+100	2000	N/A																																																																																																																																																																																																																						
Chlorpyrifos	2921-88-2				0	0	0	0	1E+100	1E+100	1E+100	0.083	0.041	1E+100	N/A																																																																																																																																																																																																																						
Dichlorobromomethane	75-27-4	10		9.8	20.874	3.707779285	20.874	0.58062241	5.6	1E+100	1E+100	1E+100	1E+100	270	N/A																																																																																																																																																																																																																						
1,2-Dichloroethane	107-06-2	10			0	0	0	0	5	1E+100	1E+100	1E+100	1E+100	6500	N/A																																																																																																																																																																																																																						
1,1-Dichloroethylene	75-35-4	10			0	0	0	0	7	1E+100	1E+100	1E+100	1E+100	20000	N/A																																																																																																																																																																																																																						
1,2-Dichloropropane	78-87-5	10			0	0	0	0	5	1E+100	1E+100	1E+100	1E+100	310	N/A																																																																																																																																																																																																																						
1,3-Dichloropropylene	542-75-6	10			0	0	0	0	3.5	1E+100	1E+100	1E+100	1E+100	120	N/A																																																																																																																																																																																																																						
Ethylbenzene	100-41-4	10			0	0	0	0	700	1E+100	1E+100	1E+100	1E+100	130	N/A																																																																																																																																																																																																																						
Methyl Bromide	74-83-9	50			0	0	0	0	49	1E+100	1E+100	1E+100	1E+100	10000	N/A																																																																																																																																																																																																																						
Methylene Chloride	75-09-2	20			0	0	0	0	5	1E+100	1E+100	1E+100	1E+100	10000	N/A																																																																																																																																																																																																																						
Mirex	2385-85-5				0	0	0	0	1E+100	1E+100	1E+100	1E+100	0.001	1E+100	N/A																																																																																																																																																																																																																						
1,2,4,5-Tetrachlorobenzene	95-94-3				0	0	0	0	1E+100	1E+100	1E+100	1E+100	1E+100	0.03	N/A																																																																																																																																																																																																																						
1,1,2,2-Tetrachloroethane	79-34-5	10			0	0	0	0	1.8	1E+100	1E+100	1E+100	1E+100	30	N/A																																																																																																																																																																																																																						
Tetrachloroethylene	127-18-4	10			0	0	0	0	5	1E+100	1E+100	1E+100	1E+100	290	N/A																																																																																																																																																																																																																						
Toluene	108-88-3	10			0	0	0	0	1000	1E+100	1E+100	1E+100	1E+100	520	N/A																																																																																																																																																																																																																						
1,2-trans-Dichloroethylene	156-60-5	10			0	0	0	0	100	1E+100	1E+100	1E+100	1E+100	4000	N/A																																																																																																																																																																																																																						
Tributyltin (TBT)	Various				0	0	0	0	1E+100	1E+100	1E+100	0.46	0.072	1E+100	N/A																																																																																																																																																																																																																						
1,1,1-Trichloroethane	71-55-6				0	0	0	0	200	1E+100	1E+100	1E+100	1E+100	200000	N/A																																																																																																																																																																																																																						
1,1,2-Trichloroethane	79-00-5	10			0	0	0	0	5	1E+100	1E+100	1E+100	1E+100	89	N/A																																																																																																																																																																																																																						
Trichloroethylene	79-01-6	10			0	0	0	0	5	1E+100	1E+100	1E+100	1E+100	70	N/A																																																																																																																																																																																																																						
Vinyl Chloride	75-01-4	10			0	0	0	0	2	1E+100	1E+100	1E+100	1E+100	16	N/A																																																																																																																																																																																																																						
ACID COMPOUNDS																																																																																																																																																																																																																																					
2-Chlorophenol	95-57-8	10			0	0	0	0	175	1E+100	1E+100	1E+100	1E+100	800	N/A																																																																																																																																																																																																																						
2,4-Dichlorophenol	120-83-2	10			0	0	0	0	105	1E+100	1E+100	1E+100	1E+100	60	N/A																																																																																																																																																																																																																						
2,4-Dimethylphenol	105-67-9	10			0	0	0	0	700	1E+100	1E+100	1E+100	1E+100	3000	N/A																																																																																																																																																																																																																						
3-Methyl-4-chlorophenol	59-50-7				0	0	0	0	1E+100	1E+100	1E+100	1E+100	1E+100	2000	N/A																																																																																																																																																																																																																						
2-Methyl-4,6-dinitrophenol	534-52-1	50			0	0	0	0	14	1E+100	1E+100	1E+100	1E+100	30	N/A																																																																																																																																																																																																																						
<table border="0" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="10"></th> <th colspan="4" style="text-align: center;">Instream Waste Concentration</th> <th colspan="2"></th> </tr> <tr> <th colspan="10"></th> <th style="text-align: center;">Ambient</th> <th style="text-align: center;">Effluent</th> <th style="text-align: center;">Acute</th> <th style="text-align: center;">Domestic</th> <th style="text-align: center;">Chronic</th> <th style="text-align: center;">Human</th> <th style="text-align: center;">Domestic</th> <th style="text-align: center;">Irrigation</th> <th style="text-align: center;">Wildlife</th> <th style="text-align: center;">Livestock&</th> <th style="text-align: center;">Acute</th> <th style="text-align: center;">Chronic</th> <th style="text-align: center;">Human</th> <th style="text-align: center;">Need</th> </tr> <tr> <th colspan="10"></th> <th style="text-align: center;">Conc</th> <th style="text-align: center;">Conc.</th> <th style="text-align: center;">Aquatic</th> <th style="text-align: center;">Supply</th> <th style="text-align: center;">Aquatic</th> <th style="text-align: center;">Health</th> <th style="text-align: center;">Criteria</th> <th style="text-align: center;">TMDL</th> </tr> <tr> <th colspan="10"></th> <th style="text-align: center;">Ca (ug/l)</th> <th style="text-align: center;">Ce (ug/l)</th> <th style="text-align: center;">2.13*Ce</th> <th style="text-align: center;">Cd,dom (ug/l)</th> <th style="text-align: center;">Cd (ug/l)</th> <th style="text-align: center;">Cd,hh (ug/l)</th> <th style="text-align: center;">ug/l</th> </tr> </thead> <tbody> <tr> <td>POLLUTANTS</td> <td>CAS No.</td> <td>MQL</td> <td></td> </tr> <tr> <td>2,4-Dinitrophenol</td> <td>51-28-5</td> <td>50</td> <td></td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>70</td> <td>1E+100</td> <td>1E+100</td> <td>1E+100</td> <td>1E+100</td> <td>300</td> <td>N/A</td> </tr> <tr> <td>Pentachlorophenol</td> <td>87-86-5</td> <td>50</td> <td></td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>1E+100</td> <td>1E+100</td> <td>19</td> <td>15</td> <td>30</td> <td>N/A</td> </tr> <tr> <td>Phenol</td> <td>108-95-2</td> <td>10</td> <td></td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>10500</td> <td>1E+100</td> <td>1E+100</td> <td>1E+100</td> <td>1E+100</td> <td>860000</td> <td>N/A</td> </tr> <tr> <td>2,4,5-Trichlorophenol</td> <td>95-95-4</td> <td></td> <td></td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1E+100</td> <td>1E+100</td> <td>1E+100</td> <td>1E+100</td> <td>1E+100</td> <td>600</td> <td>N/A</td> </tr> <tr> <td>2,4,6-Trichlorophenol</td> <td>88-06-2</td> <td>10</td> <td></td> <td>0.013</td> <td>0.02769</td> <td>0.004918483</td> <td>0.02769</td> <td>0.00077021</td> <td>32</td> <td>1E+100</td> <td>1E+100</td> <td>1E+100</td> <td>1E+100</td> <td>28</td> <td>N/A</td> </tr> <tr> <td>2-(2,4,5Trichlorophenoxy)propionic acid (Silvex)</td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1E+100</td> <td>1E+100</td> <td>1E+100</td> <td>1E+100</td> <td>1E+100</td> <td>400</td> <td>N/A</td> </tr> </tbody> </table>																										Instream Waste Concentration																Ambient	Effluent	Acute	Domestic	Chronic	Human	Domestic	Irrigation	Wildlife	Livestock&	Acute	Chronic	Human	Need											Conc	Conc.	Aquatic	Supply	Aquatic	Health	Criteria	TMDL											Ca (ug/l)	Ce (ug/l)	2.13*Ce	Cd,dom (ug/l)	Cd (ug/l)	Cd,hh (ug/l)	ug/l	POLLUTANTS	CAS No.	MQL																									2,4-Dinitrophenol	51-28-5	50			0	0	0	0	0	70	1E+100	1E+100	1E+100	1E+100	300	N/A	Pentachlorophenol	87-86-5	50			0	0	0	0	1	1E+100	1E+100	19	15	30	N/A	Phenol	108-95-2	10			0	0	0	0	10500	1E+100	1E+100	1E+100	1E+100	860000	N/A	2,4,5-Trichlorophenol	95-95-4				0	0	0	0	1E+100	1E+100	1E+100	1E+100	1E+100	600	N/A	2,4,6-Trichlorophenol	88-06-2	10		0.013	0.02769	0.004918483	0.02769	0.00077021	32	1E+100	1E+100	1E+100	1E+100	28	N/A	2-(2,4,5Trichlorophenoxy)propionic acid (Silvex)					0	0	0	0	1E+100	1E+100	1E+100	1E+100	1E+100	400	N/A															
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Pentachlorophenol	87-86-5	50			0	0	0	0	1	1E+100	1E+100	19	15	30	N/A																																																																																																																																																																																																																						
Phenol	108-95-2	10			0	0	0	0	10500	1E+100	1E+100	1E+100	1E+100	860000	N/A																																																																																																																																																																																																																						
2,4,5-Trichlorophenol	95-95-4				0	0	0	0	1E+100	1E+100	1E+100	1E+100	1E+100	600	N/A																																																																																																																																																																																																																						
2,4,6-Trichlorophenol	88-06-2	10		0.013	0.02769	0.004918483	0.02769	0.00077021	32	1E+100	1E+100	1E+100	1E+100	28	N/A																																																																																																																																																																																																																						
2-(2,4,5Trichlorophenoxy)propionic acid (Silvex)					0	0	0	0	1E+100	1E+100	1E+100	1E+100	1E+100	400	N/A																																																																																																																																																																																																																						

BASE/NEUTRAL

Acenaphthene	83-32-9	10	0.013	0.02769	0.004918483	0.02769	0.00077021	2100	1E+100	1E+100	1E+100	1E+100	90	N/A
Anthracene	120-12-7	10	0.0272	0.057936	0.010290979	0.057936	0.00161152	10500	1E+100	1E+100	1E+100	1E+100	400	N/A
Benzidine	92-87-5	50		0	0	0	0	0.0015	1E+100	1E+100	1E+100	1E+100	0.11	N/A
Benzo(a)anthracene	56-55-3	5	0.013	0.02769	0.004918483	0.02769	0.00077021	0.048	1E+100	1E+100	1E+100	1E+100	0.013	N/A
Benzo(a)pyrene	50-32-8	5	0.0127	0.027051	0.004804979	0.027051	0.00075244	0.2	1E+100	1E+100	1E+100	1E+100	0.0013	N/A
3,4-Benzofluoranthene	205-99-2	10		0	0	0	0	0.048	1E+100	1E+100	1E+100	1E+100	0.0013	N/A
Benzo(k)fluoranthene	207-08-9	5	0.0132	0.028116	0.004994152	0.028116	0.00078206	0.048	1E+100	1E+100	1E+100	1E+100	0.13	N/A
Bis(2-chloroethyl)Ether	111-44-4	10		0	0	0	0	0.3	1E+100	1E+100	1E+100	1E+100	22	N/A
Bis(2-chloro-1-methylethyl) ether	108-60-1	10		0	0	0	0	1400	1E+100	1E+100	1E+100	1E+100	4000	N/A
Bis(2-ethylhexyl)Phthalate	117-81-7	10		0	0	0	0	6	1E+100	1E+100	1E+100	1E+100	3.7	N/A
Bis(chloromethyl) ether	542-88-1			0	0	0	0	1E+100	1E+100	1E+100	1E+100	1E+100	0.17	N/A
Butyl Benzyl Phthalate	85-68-7	10	0.0122	0.025986	0.004615807	0.025986	0.00072282	7000	1E+100	1E+100	1E+100	1E+100	1	N/A
Carbaryl	63-25-2			0	0	0	0	1E+100	1E+100	1E+100	2.1	2.1	1E+100	N/A
2-Chloronaphthalene	91-58-7	10	0.0124	0.026412	0.004691476	0.026412	0.00073467	2800	1E+100	1E+100	1E+100	1E+100	1000	N/A
Chrysene	218-01-9	5	0.0406	0.086478	0.0153608	0.086478	0.00240544	0.048	1E+100	1E+100	1E+100	1E+100	1.3	N/A
Demeton	8065-48-3			0	0	0	0	1E+100	1E+100	1E+100	1E+100	0.1	1E+100	N/A
2,4-Dichlorophenoxyacetic acid	94-75-7			0	0	0	0	1E+100	1E+100	1E+100	1E+100	1E+100	12000	N/A
Dibenzo(a,h)anthracene	53-70-3	5		0	0	0	0	0.048	1E+100	1E+100	1E+100	1E+100	0.0013	N/A
1,2-Dichlorobenzene	95-50-1	10	0.0349	0.074337	0.013204234	0.074337	0.00206773	600	1E+100	1E+100	1E+100	1E+100	3000	N/A
1,3-Dichlorobenzene	541-73-1	10	0.0328	0.069864	0.01240971	0.069864	0.00194331	469	1E+100	1E+100	1E+100	1E+100	10	N/A
1,4-Dichlorobenzene	106-46-7	10	0.0332	0.070716	0.012561048	0.070716	0.00196701	75	1E+100	1E+100	1E+100	1E+100	900	N/A
3,3'-Dichlorobenzidine	91-94-1	5	0.0372	0.079236	0.014074427	0.079236	0.002204	0.78	1E+100	1E+100	1E+100	1E+100	1.5	N/A
Diethyl Phthalate	84-66-2	10	0.0414	0.088182	0.015663476	0.088182	0.00245283	28000	1E+100	1E+100	1E+100	1E+100	600	N/A
Dimethyl Phthalate	131-11-3	10	0.0401	0.085413	0.015171627	0.085413	0.00237581	350000	1E+100	1E+100	1E+100	1E+100	2000	N/A
Di-n-Butyl Phthalate	84-74-2	10	0.0428	0.091164	0.016193159	0.091164	0.00253578	3500	1E+100	1E+100	1E+100	1E+100	30	N/A
2,4-Dinitrotoluene	121-14-2	10		0	0	0	0	1.1	1E+100	1E+100	1E+100	1E+100	17	N/A
1,2-Diphenylhydrazine	122-66-7	20		0	0	0	0	0.44	1E+100	1E+100	1E+100	1E+100	2	N/A
Fluoranthene	206-44-0	10		0	0	0	0	1400	1E+100	1E+100	1E+100	1E+100	20	N/A
Fluorene	86-73-7	10		0	0	0	0	1400	1E+100	1E+100	1E+100	1E+100	70	N/A
Guthion	86-50-0			0	0	0	0	1E+100	1E+100	1E+100	1E+100	0.01	1E+100	N/A
Hexachlorobenzene	118-74-1	5		0	0	0	0	1	1E+100	1E+100	1E+100	1E+100	0.00079	N/A
Hexachlorobutadiene	87-68-3	10		0	0	0	0	4.5	1E+100	1E+100	1E+100	1E+100	0.1	N/A
Hexachlorocyclohexane (HCH)-T	608-73-1			0	0	0	0	1E+100	1E+100	1E+100	1E+100	1E+100	0.1	N/A
Hexachlorocyclopentadiene	77-47-4	10		0	0	0	0	50	1E+100	1E+100	1E+100	1E+100	4	N/A
Hexachloroethane	67-72-1	20		0	0	0	0	25	1E+100	1E+100	1E+100	1E+100	1	N/A
Indeno(1,2,3-cd)Pyrene	193-39-5	5		0	0	0	0	0.048	1E+100	1E+100	1E+100	1E+100	0.013	N/A
Isophorone	78-59-1	10		0	0	0	0	368	1E+100	1E+100	1E+100	1E+100	18000	N/A
Malathion	121-75-5			0	0	0	0	1E+100	1E+100	1E+100	1E+100	0.1	1E+100	N/A
Methoxychlor	72-43-5			0	0	0	0	1E+100	1E+100	1E+100	1E+100	0.03	0.02	N/A
Nitrobenzene	98-95-3	10		0	0	0	0	18	1E+100	1E+100	1E+100	1E+100	600	N/A
Nitrosamines	Various			0	0	0	0	1E+100	1E+100	1E+100	1E+100	1E+100	12.4	N/A
Nitrosodibutylamine	924-16-3			0	0	0	0	1E+100	1E+100	1E+100	1E+100	1E+100	2.2	N/A
Nitrosodiethylamine	55-18-5			0	0	0	0	1E+100	1E+100	1E+100	1E+100	1E+100	12.4	N/A
n-Nitrosodimethylamine	62-75-9	50		0	0	0	0	0.0069	1E+100	1E+100	1E+100	1E+100	30	N/A
n-Nitrosodi-n-Propylamine	621-64-7	20		0	0	0	0	0.05	1E+100	1E+100	1E+100	1E+100	5.1	N/A
n-Nitrosodiphenylamine	86-30-6	20	0.0131	0.027903	0.004956317	0.027903	0.00077614	71	1E+100	1E+100	1E+100	1E+100	60	N/A
N-Nitrosopyrrolidine	930-55-2			0	0	0	0	1E+100	1E+100	1E+100	1E+100	1E+100	340	N/A
Nonylphenol	84852-15-3			0	0	0	0	1E+100	1E+100	1E+100	28	6.6	1E+100	N/A
Parathion	56-38-2			0	0	0	0	1E+100	1E+100	1E+100	0.065	0.013	1E+100	N/A
Pentachlorobenzene	608-93-5			0	0	0	0	1E+100	1E+100	1E+100	1E+100	1E+100	0.1	N/A
Pyrene	129-00-0	10		0	0	0	0	1050	1E+100	1E+100	1E+100	1E+100	4000	N/A
1,2,4-Trichlorobenzene	120-82-1	10		0	0	0	0	70	1E+100	1E+100	1E+100	1E+100	0.76	N/A

POLLUTANTS	CAS No.	MQL	Instream Waste Concentration							Irrigation Criteria ug/l	Livestock& Wildlife Criteria ug/l	Acute Aquatic Criteria ug/l	Chronic Aquatic Criteria ug/l	Human Health Criteria ug/l	Need TMDL
			Ambient Conc	Effluent Conc.	Acute Aquatic	Domestic Supply	Chronic Aquatic	Human Health	Domestic Criteria						
			Ca (ug/l)	Ce (ug/l)	2.13*Ce	Cd,dom (ug/l)	Cd (ug/l)	Cd,hh (ug/l)	ug/l						
PESTICIDES AND PCBS															
Aldrin	309-00-2	0.01			0	0	0	0	0.021	1E+100	1E+100	3	1E+100	0.000077	N/A
Alpha-BHC	319-84-6	0.05			0	0	0	0	0.056	1E+100	1E+100	1E+100	1E+100	0.0039	N/A
Beta-BHC	319-85-7	0.05			0	0	0	0	0.091	1E+100	1E+100	1E+100	1E+100	0.14	N/A
gamma-BHC (Lindane)	58-89-9	0.05			0	0	0	0	0.2	1E+100	1E+100	0.95	1E+100	4.4	N/A
Chlordane	57-74-9	0.2			0	0	0	0	2	1E+100	1E+100	2.4	0.0043	0.0032	N/A
Dichlorodiphenyldichloroethane (DDD)					0	0	0	0	1E+100	1E+100	1E+100	1E+100	1E+100	0.0012	N/A
Dichlorodiphenyldichloroethylene (DDE)					0	0	0	0	1E+100	1E+100	1E+100	1E+100	1E+100	0.00018	N/A
Dichlorodiphenyltrichloroethane (DDT)					0	0	0	0	1E+100	1E+100	1E+100	1E+100	1E+100	0.0003	N/A
4,4'-DDT and derivatives	50-29-3	0.02			0	0	0	0	1	1E+100	0.001	1.1	0.001	1E+100	N/A
Dieldrin	60-57-1	0.02			0	0	0	0	0.022	1E+100	1E+100	0.24	0.056	0.000012	N/A
Diazinon	333-41-5				0	0	0	0	1E+100	1E+100	1E+100	0.17	0.17	1E+100	N/A
Alpha-Endosulfan	959-98-8	0.01			0	0	0	0	62	1E+100	1E+100	0.22	0.056	30	N/A
Beta-Endosulfan	33213-65-9	0.02			0	0	0	0	62	1E+100	1E+100	0.22	0.056	40	N/A
Endosulfan sulfate	1031-7-8	0.1			0	0	0	0	62	1E+100	1E+100	1E+100	1E+100	40	N/A
Endrin	72-20-8	0.02			0	0	0	0	2	1E+100	1E+100	0.086	0.036	0.03	N/A
Endrin Aldehyde	7421-93-4	0.1			0	0	0	0	10.5	1E+100	1E+100	1E+100	1E+100	1	N/A
Heptachlor	76-44-8	0.01			0	0	0	0	0.4	1E+100	1E+100	0.52	0.0038	0.000059	N/A
Heptachlor Epoixde	1024-57-3	0.01			0	0	0	0	0.2	1E+100	1E+100	0.52	0.0038	0.00032	N/A
PCBs	336-36-3	0.2			0	0	0	0	0.5	1E+100	0.014	2	0.014	0.00064	N/A
Toxaphene	8001-35-2	0.3			0	0	0	0	3	1E+100	1E+100	0.73	0.0002	0.0071	N/A

Nickel, Total (P)

7440-02-0

01067

N/A

Benzo(a)anthracene

56-55-3

34526

N/A

