

NMAC 20.6.4.

NMWQS effective June 13, 2024

Calculations Specifications:

Excel

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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

Permittee Pilot Travel Center #305 WWTP
NPDES Permit No. Application Tracking No. NM0031231
Outfall No.(s) Proposed 001
Plant Effluent Flow (MGD) 0.05000
Plant Effluent Flow (cfs) 0.0775

For industrial and federal facility, use the highest monthly average flow for the past 24 months. For POTWs, use the design flow.

RECEIVING STREAM

Receiving Water Name Intermittent Puerco River
Basin Name Little Colorado River
Waterbody Segment Code No. 20.6.4.98 NMAC
Is a lake or reservoir (enter "1" if it's a lake, "0" if not) 0
Are acute aquatic life criteria considered (1= yes, 0= no) (MUST enter "1" after 2005 Standards) 1
Are chronic aquatic life criteria considered (1= yes, 0=no) 1
Are domestic water supply criteria considered (1= yes, 0=no) 0
Are irrigation water supply criteria considered (1= yes, 0=no) 1
Livestock watering and wildlife habitat criteria applied to all streams

Enter Surface Water Sulfate: 204 If Cell N31 <500 mg/L, cell M151 "Not applicable."
For Limited Aquatic Life, enter 0

USGS Flow Station Not Applicable
WQ Monitoring Station No. Not Applicable
Receiving Surface Water TSS (mg/l) 300.00
Receiving Surface Water Dissolved Hardness (mg/l as CaCO₃), Range 0-400 except Aluminum Max 220 mg/L 790
Receiving Stream Critical Low Flow (4Q3) (cfs) 0
Receiving Stream Harmonic Mean Flow (cfs) 0
Receiving Water Temperature (C) 31
pH (Avg), Receiving Water 7.745
Fraction of stream allowed for mixing (F) 1
Fraction of Critical Low Flow 0

For intermittent or ephemeral stream, enter effluent TSS.
For intermittent or ephemeral surface water, enter effluent Hardness (If no data, 20 mg/l is used)
Enter "0" for intermittent, ephermal stream and lake.
If stream, enter harmonic mean or mod. harmonic mean flow data or 0.001 MGD (0.00155 cfs) if no data
Enter applicable WQS Temperature
Enter surface water or limiting numeric criteria range: 6.6 to 8.8
Enter 1, if stream morphology data is not available or for intermittent and ephemeral streams, or lakes

STEP 2:

INPUT AMBIENT AND EFFLUENT DATA
CALCULATE IN-STREAM WASTE CONCENTRATIONS

DATA INPUT

Input pollutant geometric mean concentration as micro-gram per liter (ug/l or ppb)
unless other unit is specified for the parameter.
Effluent value reported as "< detection level" (DL) but the DL is greater than MQL, input "1/2 DL" for calculation.
Effluent value reported as "< detection level" (DL) and the DL is smaller than MQL, no data is inputted.
If a less than MQL value is reported, input either the reported value or "0" for calculation.

The following formula is used to calculate the Instream Waste Concentration (Cd)
See the current "Procedures for Implementing NPDES Permits in New Mexico"
$$Cd = [(F \cdot Qa \cdot Ca) + (Qe \cdot 2.13 \cdot Ce)] / (F \cdot Qa + Qe)$$

Where:
Cd = Instream Waste Concentration
F = Fraction of stream allowed for mixing (see "Procedures for Implementing NPDES Permits in New Mexico")
Ce = Reported concentration in effluent
Ca = Ambient stream concentration upstream of discharge. Use geometric mean of all data for initial screening. See NMIP for 1/2 DL Rule.
Qe = Plant effluent flow
Qa = Critical low flow of stream at discharge point expressed as the 4Q3 or harmonic mean flow for human health criteria

The following formula convert metals reported in total form to dissolved form if criteria are in dissolved form
See the current "Procedures for Implementing NPDES Permits in New Mexico"
$$Kp = Kpo \cdot (TSS^{\alpha})$$

$$C/Ct = 1 / (1 + Kp \cdot TSS \cdot 10^{-6})$$

Total Metal Criteria (Ct) = Cr / (C/Ct)

Kp = Linear partition coefficient; Kpo and α can be found in table below
TSS = Total suspended solids concentration found in receiving stream (or in effluent for intermittent stream)
C/Ct = Fraction of metal dissolved; and Cr = Dissolved criteria value

Total Metals	Total Value	Stream Linear Partition Coefficient					Lake Linear Partition Coefficient				
		Kpo	alpha (a)	Kp	C/Ct	Dissolved Value in Stream	Kpo	alpha (a)	Kp	C/Ct	Dissolved Value in Lake
Arsenic	5	480000	-0.73	7463.503167	0.30873241	1.54366204	480000	-0.73	7463.50317	0.30873241	1.54366204
Chromium III		3360000	-0.93	16696.15664	0.16642128	0	2170000	-0.27	465197.096	0.00711444	0
Copper	44.3	1040000	-0.74	15274.3807	0.17913718	7.93577687	2850000	-0.9	16804.8922	0.16552269	7.33265533
Lead	3	2800000	-0.8	29205.25668	0.10244246	0.30732739	2040000	-0.53	99255.8019	0.03249207	0.09747621
Nickel	5	490000	-0.57	18977.41106	0.14940485	0.74702423	2210000	-0.76	28958.7706	0.10322441	0.51612204
Silver	2.5	2390000	-1.03	6713.716658	0.33177234	0.82943086	2390000	-1.03	6713.71666	0.33177234	0.82943086
Zinc	225	1250000	-0.7	23063.49577	0.12627779	28.4125035	3340000	-0.68	69072.3153	0.04603692	10.3583079

The following formula is used to calculate hardness dependent criteria
(Please refer to State Water Quality Standards for details)

Dissolved
WQC (ug/l)
[2022]

Aluminum (T)	Acute	$e^{(1.3695[\ln(\text{hardness})]+1.8308)}$	57997	57997	If Surface Water pH < 6.5 or > 9.0, enter 750 in cell O114
	Chronic	$e^{(1.3695[\ln(\text{hardness})]+0.9161)}$	23236	23236	If Surface Water pH < 6.5 or > 9.0, enter 87 in cell P114
Cadmium (D)	Acute	$e^{(0.9789[\ln(\text{hardness})]-3.866)} \cdot CF1$	9.58	12.32	CF1 = $1.136672 - 0.041838 \cdot \ln(\text{hardness})$
	Chronic	$e^{(0.7977[\ln(\text{hardness})]-3.909)} \cdot CF2$	1.991	3.380	CF2 = $1.101672 - 0.041838 \cdot \ln(\text{hardness})$

				Dissolved WQC (ug/l)	Dissolved WQC (ug/l)	If Surface Water hardness = 220 or above, enter Total Recoverable Aluminum AL criteria 10,100 in cell O115 and 4,030 in Cell P115 [WQS 2022]
Chromium III (D)	Acute	0.316 e(0.819[ln(hardness)]+3.7256)		3096	3096	
	Chronic	0.860 e(0.819[ln(hardness)]+0.6848)		403	403	
Copper (D)	Acute	0.960 e(0.9422[ln(hardness)]-1.700)		94.2	94.2	
	Chronic	0.960 e(0.8545[ln(hardness)]-1.702)		52.4	52.4	
Lead (D)	Acute	e(1.273[ln(hardness)]-1.46)*CF3		555	555	CF3 = 1.46203 - 0.145712*ln(hardness)
	Chronic	e(1.273[ln(hardness)]-4.705)*CF4		21.65	21.65	CF4 = 1.46203 - 0.145712*ln(hardness)
Manganese (D)	Acute	e(0.3331[ln(hardness)]+6.4676)		5944	5944	
	Chronic	e(0.3331[ln(hardness)]+5.8743)		3284	3284	20.6.4.900.I NMAC [2022] states "Calculated criteria
Nickel (D)	Acute	0.998 e(0.846[ln(hardness)]+2.255)		2691	2691	must adhere to the treatment
	Chronic	0.997 e(0.846[ln(hardness)]+0.0584)		298.8	298.8	of significant figures and rounding identified in Standard Methods
Silver (D)	Acute	0.85 e(1.72[ln(hardness)]-6.59)	2 SF	113	112.5	for The Examination Of Water And Wastewater,
Zinc (D)	Acute	0.978 e(0.9094[ln(hardness)]+0.9095)		1048	1048	latest edition, American public health association."
	Chronic	0.986 e(0.90947[ln(hardness)]+0.6235)		794	794	

				Instream Waste Concentration							Livestock&	Acute	Chronic	Human	Ca exceeds
POLLUTANTS			Ambient Conc. Ca (ug/l)	Effluent Conc. Ce (ug/l)	Acute Aquatic 2.13*Ce	Domestic Supply Cd.dom (ug/l)	Chronic Aquatic Cd (ug/l)	Human Health Cd,hh (ug/l)	Domestic Criteria ug/l	Irrigation Criteria ug/l	Wildlife Criteria ug/l	Aquatic Criteria ug/l	Aquatic Criteria ug/l	Health Criteria ug/l	NMWQS
	CAS No.	MQL													
Radioactivity, Nutrients, and Chlorine															
Aluminum, Dissolved	7429-90-5	2.5	94.10	94.10	200.433	200.433	200.433	198.348039	1E+100	5000	1E+100	1E+100	1E+100	1E+100	N/A
Aluminum, Total Recoverable	7429-90-5	2.5	588.00	588.00	1252.44	1252.44	1252.44	1239.41176	1E+100	1E+100	1E+100	57997	23236	1E+100	N/A
Barium, dissolved	7440-39-3	100	15.20	15.20	32.376	32.376	32.376	32.0392157	2000	1E+100	1E+100	1E+100	1E+100	1E+100	N/A
Boron, dissolved	7440-42-8	100	140.00	140.00	298.2	298.2	298.2	295.098039	1E+100	750	5000	1E+100	1E+100	1E+100	N/A
Cobalt, dissolved	7440-48-4	50			0	0	0	0	1E+100	50	1000	1E+100	1E+100	1E+100	N/A
Uranium, dissolved	7440-61-1	0.1	0.693	0.693	1.47609	1.47609	1.47609	1.46073529	30	1E+100	1E+100	1E+100	1E+100	1E+100	N/A
Vanadium, dissolved	7440-62-2	50			0	0	0	0	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 90 (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
Adjusted 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	933.00	933.00	1987.29	1987.29	1987.29	1966.61765	1E+100	1E+100	11	19	11	1E+100	Yes
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)*					0	0	0	0	1E+100	1E+100	132	1E+100	1E+100	1E+100	N/A
METALS AND CYANIDE															
Antimony, dissolved (P)	7440-36-0	60			0	0	0	0	6	1E+100	1E+100	1E+100	1E+100	640	N/A
Arsenic, dissolved (P)	7440-38-2	0.5	2.64	2.64	5.6232	5.6232	5.6232	5.56470588	10	100	200	340	150	9	N/A
Beryllium, dissolved	7440-41-7	0.5	1.00	1.00	2.13	2.13	2.13	2.10784314	4	1E+100	1E+100	1E+100	1E+100	1E+100	N/A
Cadmium, dissolved	7440-43-9	1	1.00	1.00	2.13	2.13	2.13	2.10784314	5	10	50	12.32	3.38	1E+100	N/A
Chromium (III), dissolved	16065-83-1	10			0	0	0	0	1E+100	1E+100	1E+100	3096	403	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	11.70	11.70	24.921	24.921	24.921	24.6617647	1300	200	500	94.2	52.4	1E+100	N/A
Lead, dissolved	7439-92-1	0.5	0.55	0.55	1.1715	1.1715	1.1715	1.15931373	15	5000	100	555	21.6	1E+100	N/A
Manganese, dissolved	7439-96-5		42.20	42.20	89.886	89.886	89.886	88.9509804	1E+100	1E+100	1E+100	5944	3284	1E+100	N/A

POLLUTANTS	CAS No.	MQL	Instream Waste Concentration										Livestock& Wildlife	Acute Aquatic	Chronic Aquatic	Human Health	Ca exceeds NMWQS
			Ambient	Effluent	Acute	Domestic	Chronic	Human	Domestic	Irrigation							
			Conc Ca (ug/l)	Conc. Ce (ug/l)	Aquatic 2.13*Ce	Supply Cd,dom (ug/l)	Aquatic Cd (ug/l)	Health Cd,hh (ug/l)	Criteria ug/l	Criteria ug/l	Criteria ug/l	Criteria ug/l					
Mercury, dissolved*	7439-97-6	0.005			0	0	0	0	1E+100	1E+100	1E+100	1E+100	1.4	0.77	1E+100	N/A	
Mercury, total	7439-97-6	0.005	0.100	0.100	0.213	0.213	0.213	0.21078431	2	1E+100	0.77	1E+100	1E+100	1E+100	1E+100	N/A	
Molybdenum, dissolved*	7439-98-7				0	0	0	0	1E+100	1000	1E+100	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	1E+100	N/A	
Nickel, dissolved (P)	7440-02-0	0.5	2.16	2.16	4.59228	4.59228	4.59228	4.5445098	700	1E+100	1E+100	2691	299	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, dissolved (SO ₄) >500 mg/l)*	Not applicable	5			0	0	0	0	50	250	50	1E+100	1E+100	4200	N/A		
Selenium, total recoverable	7782-49-2	5	0.000	0.000	0	0	0	0	1E+100	1E+100	5	20	5	1E+100	N/A		
Silver, dissolved	7440-22-4	0.5	2.50	2.50	5.325	5.325	5.325	5.26960784	1E+100	1E+100	1E+100	113	1.00E+100	1E+100	N/A		
Thallium, dissolved (P)	7440-28-0	0.5	10.500	10.500	22.365	22.365	22.365	22.1323529	2	1E+100	1E+100	1E+100	1E+100	0.47	N/A		
Zinc, dissolved	7440-66-6	20	64.39	64.39	137.1507	137.1507	137.1507	135.72402	10500	2000	25000	1048	794	26000	N/A		
Cyanide, total recoverable	57-12-5	10			0	0	0	0	200	1E+100	5.2	22	5.2	400	N/A		
Dioxin (P) / Total 2,3,7,8-TCDD Equivalence	1764-01-6	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	3.0	3.0	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	1.25	1.25	2.6625	2.6625	2.6625	2.63480392	4.2	1E+100	1E+100	1E+100	1E+100	210	N/A		
Chloroform	67-66-3	50			0	0	0	0	57	1E+100	1E+100	1E+100	1E+100	2000	N/A		
Dichlorobromomethane	75-27-4	10	1.61	1.61	3.4293	3.4293	3.4293	3.39362745	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		
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 (P)	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		
1,1,1-Trichloroethane	71-55-6				0	0	0	0	200	1E+100	1E+100	1E+100	1E+100	200,000	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		
4,6-Dinitro-o-Cresol	534-52-1	50			0	0	0	0	14	1E+100	1E+100	1E+100	1E+100	30	N/A		

POLLUTANTS	CAS No.	MQL	Instream Waste Concentration								Livestock &	Acute	Chronic	Human	Ca exceeds
			Ambient	Effluent	Acute	Domestic	Chronic	Human	Domestic	Irrigation	Wildlife	Aquatic	Aquatic	Health	NMWQS
			Conc	Conc.	Aquatic	Supply	Aquatic	Health	Criteria	Criteria	Criteria	Criteria	Criteria	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	ug/l	ug/l	ug/l	ug/l	
2,4-Dinitrophenol	51-28-5	50			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	0.4	N/A
Phenol	108-95-2	10	20.02	20.02	42.6426	42.6426	42.6426	42.1990196	10500	1E+100	1E+100	1E+100	1E+100	300,000	N/A
2,4,6-Trichlorophenol	88-06-2	10			0	0	0	0	32	1E+100	1E+100	1E+100	1E+100	28	N/A
BASE/NEUTRAL															
Acenaphthene	83-32-9	10			0	0	0	0	2100	1E+100	1E+100	1E+100	1E+100	90	N/A
Anthracene	120-12-7	10			0	0	0	0	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	10.000	10.000	21.3	21.3	21.3	21.0784314	0.048	1E+100	1E+100	1E+100	1E+100	0.013	N/A
Benzo(a)pyrene (P)	50-32-8	5	10.000	10.000	21.3	21.3	21.3	21.0784314	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	0.013	N/A
Benzo(k)fluoranthene	207-08-9	5	10	10	21.3	21.3	21.3	21.0784314	0.048	1E+100	1E+100	1E+100	1E+100	0.13	N/A
Bis(2-chloroethyl)Ether	111-44-4	10	100	100	213	213	213	210.784314	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	30	30	63.9	63.9	63.9	63.2352941	6	1E+100	1E+100	1E+100	1E+100	3.7	N/A
Butyl Benzyl Phthalate	85-68-7	10			0	0	0	0	7000	1E+100	1E+100	1E+100	1E+100	1	N/A
2-Chloronaphthalene	91-58-7	10	10	10	21.3	21.3	21.3	21.0784314	2800	1E+100	1E+100	1E+100	1E+100	1000	N/A
Chrysene	218-01-9	5			0	0	0	0	0.048	1E+100	1E+100	1E+100	1E+100	1.3	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	0	0	0	600	1E+100	1E+100	1E+100	1E+100	3000	N/A
1,3-Dichlorobenzene	541-73-1	10			0	0	0	0	469	1E+100	1E+100	1E+100	1E+100	10	N/A
1,4-Dichlorobenzene	106-46-7	10	11.2	11.2	23.856	23.856	23.856	23.6078431	75	1E+100	1E+100	1E+100	1E+100	900	N/A
3,3-Dichlorobenzidine	91-94-1	5			0	0	0	0	0.78	1E+100	1E+100	1E+100	1E+100	1.5	N/A
Diethyl Phthalate	84-66-2	10	44.3	44.3	94.359	94.359	94.359	93.377451	28000	1E+100	1E+100	1E+100	1E+100	600	N/A
Dimethyl Phthalate	131-11-3	10			0	0	0	0	350000	1E+100	1E+100	1E+100	1E+100	2000	N/A
Di-n-Butyl Phthalate	84-74-2	10			0	0	0	0	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
Hexachlorobenzene (P)	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
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
Nitrobenzene	98-95-3	10			0	0	0	0	18	1E+100	1E+100	1E+100	1E+100	600	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	0	0	0	71	1E+100	1E+100	1E+100	1E+100	60	N/A
Nonylphenol	84852-15-3				0	0	0	0	1E+100	1E+100	1E+100	28	6.6	1E+100	N/A
Pyrene	129-00-0	10	10	10	21.3	21.3	21.3	21.0784314	1050	1E+100	1E+100	1E+100	1E+100	30	N/A
1,2,4-Trichlorobenzene	120-82-1	10			0	0	0	0	70	1E+100	1E+100	1E+100	1E+100	76	N/A

			Livestock Waste Concentration								Livestock&	Acute	Chronic	Human	Ca exceeds
POLLUTANTS			Ambient Conc	Effluent Conc.	Acute Aquatic	Domestic Supply	Chronic Aquatic	Human Health	Domestic Criteria	Irrigation Criteria	Wildlife Criteria	Aquatic Criteria	Aquatic Criteria	Health Criteria	
	CAS No.	MQL	Ca (ug/l)	Ce (ug/l)	2.13°Ce	Cd,dom (ug/l)	Cd (ug/l)	Cd,hh (ug/l)	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	NMWQS
PESTICIDES AND PCBs															
Aldrin	309-00-2	0.01	0.021	0.021	0.04	0.04473	0.04473	0.04426471	0.021	1E+100	1E+100	3	1E+100	0.0000077	N/A
Alpha-BHC	319-84-6	0.05			0.00	0	0	0	0.056	1E+100	1E+100	1E+100	1E+100	0.0039	N/A
Beta-BHC	319-85-7	0.05			0.00	0	0	0	0.091	1E+100	1E+100	1E+100	1E+100	0.14	N/A
Gamma-BHC	58-89-9	0.05			0.00	0	0	0	0.2	1E+100	1E+100	0.95	1E+100	4.4	N/A
Chlordane	57-74-9	0.2	0.000	0.000	0.00	0	0	0	2	1E+100	1E+100	2.4	0.0043	0.0032	N/A
4,4'-DDT and derivatives	See below	0.02			0.00	0	0	0	1	1.00E+100	0.001	1.1	0.001	1E+100	N/A
Dieldrin	60-57-1	0.02	0.021	0.021	0.04	0.04473	0.04473	0.04426471	0.022	1E+100	1E+100	0.24	0.056	0.000012	N/A
Diazinon	333-41-5				0.00	0	0	0	1E+100	1E+100	1E+100	0.17	0.17	1E+100	N/A
Alpha-Endosulfan	959-98-8	0.01	0.010	0.010	0.02	0.0213	0.0213	0.02107843	62	1E+100	1E+100	0.22	0.056	30	N/A
Beta-Endosulfan	33213-65-9	0.02	0.010	0.010	0.02	0.0213	0.0213	0.02107843	62	1E+100	1E+100	0.22	0.056	40	N/A
Endosulfan sulfate	1031-7-8	0.1	0.010	0.010	0.02	0.0213	0.0213	0.02107843	62	1E+100	1E+100	1E+100	1E+100	40	N/A
Endrin	72-20-8	0.02	0.01	0.01	0.02	0.0213	0.0213	0.02107843	2	1E+100	1E+100	0.086	0.036	0.03	N/A
Endrin Aldehyde	7421-93-4	0.1	0.025	0.025	0.05	0.05325	0.05325	0.05269608	10.5	1E+100	1E+100	1E+100	1E+100	1	N/A
Heptachlor	76-44-8	0.01	0	0	0.00	0	0	0	0.4	1E+100	1E+100	0.52	0.0038	0.000059	N/A
Heptachlor epoxide	1024-57-3	0.01	0	0	0.00	0	0	0	0.2	1E+100	1E+100	0.52	0.0038	0.00032	N/A
PCBs	1336-36-3	0.2			0	0	0	0	0.2	1E+100	0.014	2	0.014	0.00064	N/A
Toxaphene	8001-35-2	0.3	0	0	0.00	0	0	0	3	1E+100	1E+100	0.73	0.0002	0.0071	N/A
2022 NMWQS Criteria															
			EPA's MQL Pending												
			EPA's SSM ML Not Researched												
Iron	7439-89-6	<1000			0.00	0	0	0	1E+100	1E+100	1E+100	1E+100	1,000	1E+100	N/A
Dinitrophenols (Interim / Used 2,4 DNP Surrogate)	25550-58-7	<1000			0.00	0	0	0	1E+100	1E+100	1E+100	1E+100	1E+100	1,000	N/A
3-Methyl-4-chlorophenol	59-50-7	<2000			0.00	0	0	0	1E+100	1E+100	1E+100	1E+100	1E+100	2,000	N/A
Dichlorodiphenyltrichloroethane (DDT) (P)	50-29-3	<0.003 or 0.02?	0.0211	0.0211	0.04	0.044943	0.044943	0.04447549	1E+100	1E+100	1E+100	1E+100	1E+100	0.0003	N/A
Dichlorodiphenyldichloroethylene (DDE)	72-55-9	<0.0018 or 0.02?	0.0211	0.0211	0.04	0.044943	0.044943	0.04447549	1E+100	1E+100	1E+100	1E+100	1E+100	0.00018	N/A
Dichlorodiphenyldichloroethane (DDD)	72-54-8	<0.0012 or 0.02?	0.0211	0.0211	0.04	0.044943	0.044943	0.04447549	1E+100	1E+100	1E+100	1E+100	1E+100	0.0012	N/A
Carbaryl	63-25-2	<2.1			0.00	0	0	0	1E+100	1E+100	1E+100	2.1	2.1	1E+100	N/A
Chlorpyrifos	2921-88-2	<0.041			0.00	0	0	0	1E+100	1E+100	1E+100	0.083	0.041	1E+100	N/A
Guthion	86-50-0	<0.01			0.00	0	0	0	1E+100	1E+100	1E+100	1E+100	0.01	1E+100	N/A
Malathion	121-75-5	<0.1			0.00	0	0	0	1E+100	1E+100	1E+100	1E+100	0.1	1E+100	N/A
Parathion	56-38-2	<0.065			0.00	0	0	0	1E+100	1E+100	1E+100	0.065	0.013	1E+100	N/A
Chloride	1688-70-06	<230,000			0.00	0	0	0	1E+100	1E+100	1E+100	860,000	230,000	1E+100	N/A
Bis(chloromethyl) ether	542-88-1	<0.17			0.00	0	0	0	1E+100	1E+100	1E+100	1E+100	1E+100	0.17	N/A
Demeton	8065-48-3	<0.1			0.00	0	0	0	1E+100	1E+100	1E+100	1E+100	0.1	1E+100	N/A
2,4-Dichlorophenoxyacetic acid	94-75-7	<12000			0.00	0	0	0	1E+100	1E+100	1E+100	1E+100	1E+100	12,000	N/A
Hexachlorocyclohexane (HCH)-Technical (Interim / Used Sum)	608-73-1	<0.1			0.00	0	0	0	1E+100	1E+100	1E+100	1E+100	1E+100	0.1	N/A
Methoxychlor	72-43-5	<0.02			0.00	0	0	0	1E+100	1E+100	1E+100	1E+100	0.03	0.02	N/A
Mirex	2385-85-5	<0.001			0.00	0	0	0	1E+100	1E+100	1E+100	1E+100	0.001	1E+100	N/A
Nitrosamines	Various	<12.4			0.00	0	0	0	1E+100	1E+100	1E+100	1E+100	1E+100	12.4	N/A
Nitrosodibutylamine	924-16-3	<2.2			0.00	0	0	0	1E+100	1E+100	1E+100	1E+100	1E+100	2.2	N/A
Nitrosodiethylamine	55-18-5	<12.4			0.00	0	0	0	1E+100	1E+100	1E+100	1E+100	1E+100	12.4	N/A
N-Nitrosopyrrolidine	930-55-2	<340			0.00	0	0	0	1E+100	1E+100	1E+100	1E+100	1E+100	340	N/A
Pentachlorobenzene	608-93-5	<0.1			0.00	0	0	0	1E+100	1E+100	1E+100	1E+100	1E+100	0.1	N/A
1,2,4,5-Tetrachlorobenzene	95-94-3	<0.03			0.00	0	0	0	1E+100	1E+100	1E+100	1E+100	1E+100	0.03	N/A
Tributyltin (TBT)	Various	<0.46			0.00	0	0	0	1E+100	1E+100	1E+100	0.46	0.072	1E+100	N/A
2,4,5-Trichlorophenol	95-95-4	<600			0.00	0	0	0	1E+100	1E+100	1E+100	1E+100	1E+100	600	N/A
2-(2,4,5-Trichlorophenoxy)propionic acid (Silvex)	93-72-1	<400			0.00	0	0	0	1E+100	1E+100	1E+100	1E+100	1E+100	400	N/A

Note: SCORET CODE for reference only. Codes for total form are used except for parameters which have criteria in both total and dissolved forms.

STEP 3a:

SCAN POTENTIAL INSTREAM WASTE CONCENTRATIONS AGAINST WATER QUALITY CRITERIA
AND ESTABLISH EFFLUENT LIMITATIONS FOR ALL APPLICABLE PARAMETERS

No limits are established if the receiving stream is not designated for the particular uses.

No limits are established if the potential instream waste concentrations are less than the chronic water quality criteria.

The most applicable stringent criteria are used to establish effluent limitations for a given parameter.

Water quality criteria apply at the end-of-pipe for acute aquatic life criteria and discharges to lakes, reservoirs, playas.

If surface water concentration exceeds the water quality criteria, then water quality criteria apply.

Monthly avg concentration = daily max. / 1.5.

APPLICABLE WATER QUALITY-BASED LIMITS

	The following formula is used to calculate the allowable daily maximum effluent concentration	See the current "Procedures for Implementing NPDES Permits in New Mexico"
	Daily Max. Conc. = $C_s + (C_s - C_a)(F \cdot Q_a / Q_e)$	Monthly Avg. Conc. = Daily Max. Conc. / 1.5
Where:	C_s = Applicable water quality standard	
	C_a = Ambient stream concentration	
	F = Fraction of stream allowed for mixing (1.0 is assigned to domestic water supply and human health uses)	
	Q_e = Plant effluent flow	
	Q_a = Criteria Low flow (4Q3) or Harmonic Mean flow for Human Health Criteria	

POLLUTANTS	CAS No.	STORET	Domestic Limits	Irrigation Limits	Livestock or Wildlife Limits	Acute Aquatic Limits	Chronic Aquatic Limits	Human Health Limits	Daily Max Conc ug/l	Monthly Avg Conc ug/l	Daily Max Total ug/l	Mon. Avg Total ug/l	Daily Max Load lb/day	Monthly Avg Load lb/day
Radioactivity, Nutrients, and Chlorine, as Total														
Aluminum, Dissolved	7429-90-5	01105	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aluminum, Total Recoverable	7429-90-5	01105	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Barium, dissolved	7440-39-3	01007	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Boron, dissolved	7440-42-8	01022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cobalt, dissolved	7440-48-4	01037	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Uranium, dissolved	7440-61-1	22706	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Vanadium, dissolved	7440-62-2	01087	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ra-226 and Ra-228 (pCi/l)		11503	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Strontium (pCi/l)		13501	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tritium (pCi/l)		04124	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Adjusted Gross Alpha (pCi/l)*		80029	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Asbestos (fibers/l)			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Residual Chlorine	7782-50-5	50060	N/A	N/A	11	19	11	N/A	11	11	11	11	0.004587	0.004587
Nitrate as N (mg/l)		00620	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrite + Nitrate (mg/l)		00630	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
METALS AND CYANIDE, as Total														
Antimony, dissolved (P)	7440-36-0	01097	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Arsenic, dissolved (P)	7440-38-2	1002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Beryllium, dissolved	7440-41-7	01012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cadmium, dissolved	7440-43-9	01027	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chromium (III), dissolved*	16065-83-1	01033	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chromium (VI), dissolved*	18540-29-9	01034	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chromium, dissolved	7440-47-3	01034	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Copper, dissolved	7440-50-8	01042	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lead, dissolved	7439-92-1	01051	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese, dissolved	7439-96-5	01056	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mercury, dissolved*	7439-97-6	71900	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mercury, total	7439-97-6	71900	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Molybdenum, dissolved*	7439-98-7	1060	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Molybdenum, total recoverable	7439-98-7	01062	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nickel, dissolved (P)	7440-02-0	01067	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Selenium, dissolved (P)*	7782-49-2	01147	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Selenium, dis (SO4 >500 mg/l)*		01147	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Selenium, total recoverable	7782-49-2	01147	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silver, dissolved	7440-22-4		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Thallium, dissolved (P)	7440-28-0	01059	N/A	N/A	N/A	N/A	N/A	0.47	0.47	0.47	0.47	0.47	0.00019599	0.00019599
Zinc, dissolved	7440-66-6	1092	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cyanide, total recoverable	57-12-5	00720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DIOXIN														
2,3,7,8-TCDD Equivalence	1764-01-6	34675	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VOLATILE COMPOUNDS														
Acrolein	107-02-8	34210	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Acrylonitrile	107-13-0	34215	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzene	71-43-2	34030	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bromoform	75-25-2	32104	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	56-23-5	32102	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

POLLUTANTS	CAS No.	STORET	Domestic	Irrigation	Livestock or Wildlife	Acute Aquatic	Chronic Aquatic	Human Health	Daily Max Conc	Monthly Avg Conc	Daily Max Total	Mon. Avg Total	Daily Max Load	Monthly Avg Load
			Limits	Limits	Limits	Limits	Limits	Limits	ug/l	ug/l	ug/l	ug/l	lb/day	lb/day
Chlorobenzene	108-90-7	34301	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Clorodibromomethane	124-48-1	32105	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chloroform	67-66-3	32106	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dichlorobromomethane	75-27-4	32101	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Dichloroethane	107-06-2	34531	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1-Dichloroethylene	75-35-4	34501	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Dichloropropane	78-87-5	34541	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,3-Dichloropropylene	542-75-6	34561	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ethylbenzene	100-41-4	34371	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methyl Bromide	74-83-9	34413	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methylene Chloride	75-09-2	34423	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1,2,2-Tetrachloroethane	79-34-5	34516	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tetrachloroethylene	127-18-4	34475	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Toluene	108-88-3	34010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-trans-Dichloroethylene	156-60-5	34546	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1,1-Trichloroethane	71-55-6		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1,2-Trichloroethane	79-00-5	34511	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Trichloroethylene	79-01-6	39180	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	75-01-4	39175	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ACID COMPOUNDS														
2-Chlorophenol	95-57-8	34586	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4-Dichlorophenol	120-83-2	34601	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4-Dimethylphenol	105-67-9	34606	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4,6-Dinitro-o-Cresol	534-52-1	34657	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4-Dinitrophenol	51-28-5	34616	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pentachlorophenol	87-86-5	39032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Phenol	108-95-2	34694	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4,6-Trichlorophenol	88-06-2	34621	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BASE/NEUTRAL														
Acenaphthene	83-32-9	34205	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Anthracene	120-12-7	34220	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzidine	92-87-5	39120	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(a)anthracene	56-55-3	34526	N/A	N/A	N/A	N/A	N/A	0.013	0.013	0.013	0.013	0.013	5.421E-06	0.000005421
Benzo(a)pyrene	50-32-8	34247	N/A	N/A	N/A	N/A	N/A	0.0013	0.0013	0.0013	0.0013	0.0013	5.421E-07	5.421E-07
3,4-Benzofluoranthene	205-99-2	34230	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(k)fluoranthene	207-08-9	34242	N/A	N/A	N/A	N/A	N/A	0.13	0.13	0.08666667	0.13	0.08666667	0.00005421	0.00003614
Bis(2-chloroethyl)Ether	111-44-4	34273	N/A	N/A	N/A	N/A	N/A	22	22	14.66666667	22	14.66666667	0.009174	0.006116
Bis(2-chloro-1-methylethyl) ether	108-60-1	34283	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bis(2-ethylhexyl)Phthalate	117-81-7	39100	N/A	N/A	N/A	N/A	N/A	3.7	3.7	3.7	3.7	3.7	0.0015429	0.0015429
Butyl Benzyl Phthalate	85-68-7	34292	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2-Chloronapthalene	91-58-7	34581	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chrysene	218-01-9	34320	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dibenzo(a,h)anthracene	53-70-3	34556	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Dichlorobenzene	95-50-1	34536	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

POLLUTANTS	CAS No.	STORET	Domestic			Livestock	Acute	Chronic	Human	Daily	Monthly	Daily Max	Mon. Avg	Daily	Daily
			Limits	Limits	Limits	or Wildlife	Aquatic	Aquatic	Health	Max Conc	Avg Conc	Total	Total	Max Load	Avg Load
1,3-Dichlorobenzene	541-73-1	34566	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ug/l	ug/l	ug/l	ug/l	lb/day	lb/day
1,4-Dichlorobenzene	106-46-7	34571	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	91-94-1	34631	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Diethyl Phthalate	84-66-2	34336	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dimethyl Phthalate	131-11-3	34341	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Di-n-Butyl Phthalate	84-74-2	39110	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4-Dinitrotoluene	121-14-2	34611	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Diphenylhydrazine	122-66-7	34346	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fluoranthene	206-44-0	34376	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fluorene	86-73-7	34381	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hexachlorobenzene	118-74-1	39700	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hexachlorobutadiene	87-68-3	34391	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hexachlorocyclopentadiene	77-47-4	34386	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hexachloroethane	67-72-1	34396	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Indeno(1,2,3-cd)Pyrene	193-39-5	34403	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Isophorone	78-59-1	34408	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	98-95-3	34447	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n-Nitrosodimethylamine	62-75-9	34438	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n-Nitrosodi-n-Propylamine	621-64-7	34428	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n-Nitrosodiphenylamine	86-30-6	34433	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nonylphenol	84852-15-3		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pyrene	129-00-0	34469	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2,4-Trichlorobenzene	120-82-1	34551	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PESTICIDES AND PCBS															
Aldrin	309-00-2	39330	N/A	N/A	N/A	N/A	N/A	N/A	0.0000077	0.0000077	0.0000077	0.0000077	0.0000077	3.2109E-09	3.2109E-09
Alpha-BHC	319-84-6	39337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Beta-BHC	319-85-7	39338	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gamma-BHC	58-89-9	39340	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlordane	57-74-9	39350	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDT and derivatives	See below	39300	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dieldrin	60-57-1	39380	N/A	N/A	N/A	N/A	N/A	N/A	0.000012	0.000012	0.000012	0.000012	0.000012	5.004E-09	5.004E-09
Diazinon	333-41-5	39570	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Alpha-Endosulfan	959-98-8	34361	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Beta-Endosulfan	33213-65-9	34356	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan sulfate	1031-7-8	34351	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endrin	72-20-8	39390	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endrin Aldehyde	7421-93-4	34366	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	76-44-8	39410	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor Epoxide	1024-57-3	39420	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PCBs*	1336-36-3	39516	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	8001-35-2	39400	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
POLLUTANTS	CAS No.	STORET	Domestic	Irrigation	Livestock	Acute	Chronic	Human	Daily	Monthly	Daily Max	Mon. Avg	Daily	Daily	
			Limits	Limits	or Wildlife	Aquatic	Aquatic	Health	Max Conc	Avg Conc	Total	Total	Max Load	Avg Load	
Iron	7439-89-6	Need	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

[illegible]