Chapter

6

POLLUTANTS OF CONCERN FOR THE CENTRALIZED WASTE TREATMENT INDUSTRY

As discussed previously, wastewater receipts treated at centralized waste treatment facilities may have significantly different pollutants and pollutant loads depending on the customer and the process generating the waste receipt. In fact, at many CWT facilities, the pollutants and pollutant loads may vary daily and from batch to batch. As a result, it is difficult to characterize "typical" CWT wastewaters. In fact, one of the distinguishing characteristics of CWT wastewaters (as compared to traditional wastewaters subject to national effluent guidelines and standards) is that there is always the exception to the rule. For example, at one facility, EPA analyzed samples of wastewater received for treatment from a single facility that were obtained during three different, non-consecutive weeks. EPA found that the weekly waste receipts varied from the most concentrated (in terms of metal pollutants) to one of the least concentrated (in terms of metal pollutants).

METHODOLOGY *6.1*

EPA determined pollutants of concern for the CWT industry by assessing EPA sampling data and industry-supplied self-monitoring data. Because, industry has provided very little quantitative data on the concentrations of pollutants entering their wastewater treatment system, EPA was only able to use such data from a single facility in the metals subcategory.

For the metals and organics subcategory, EPA collected and analyzed samples of wastewater to determine the pollutants of concern at influent points to the wastewater treatment systems. For the oils subcategory, EPA collected samples following emulsion breaking and/or gravity separation. The pollutant concentrations at these points are lower than the original waste receipt concentrations as a result of the commingling of a variety of waste streams, and, in the case of the oils subcategory, as a result of pretreatment. In most cases, EPA could not collect samples from individual waste shipments because of physical constraints and excessive analytical costs.

EPA used two different analytical methods to analyze samples for oil and grease during the development of this guideline. EPA analyzed samples collected prior to the 1995 proposal using Method 413.1. This method uses freon and is being phased out. EPA analyzed oil and grease samples collected after the 1995 proposal using the newly promulgated EPA Method 1664. Method 1664 is used to measure oil and grease as hexane extractable material (HEM) and to measure silica gel treated-hexane extractable material (SGT-HEM). EPA believes that oil and grease measurements from Method 413.1 and Method 1664 are comparable and has used the data interchangeably.

EPA collected influent sampling data over a limited time span (generally one to five days). The samples represent a snapshot of the receipts accepted for treatment during the time the samples were collected. Because waste receipts may vary significantly from day to day, EPA can not know if, in fact, the data are also representative of waste receipts during any other time period. If EPA had sampled at more facilities or over longer periods of time, EPA would expect to observe a wider range of flows,

pollutants, and pollutant concentrations in CWT industry raw wastewater. This has complicated the selection of pollutants of concern and regulated pollutants, and the estimation of current performance and removals associated with this rulemaking. Historically, in developing national effluent guidelines and standards, unlike the case for CWT waste receipts, influent wastestreams are generally consistent in strength and nature.

To establish the pollutants of concern, EPA reviewed the analytical data from influent wastewater samples to determine the number of times a pollutant was detected at treatable levels. EPA set treatable levels at ten times the baseline level[1] to ensure that pollutants detected as only trace amounts would not be selected. In the results presented today, EPA modified the baseline values used in the 1999 proposal to be consistent with those presented in chapter 15 of this document. However, EPA used all the available relevant data in these analyses and has provided opportunities for public comment. After reviewing the comments, EPA has concluded that it has adequately characterized CWT flows, pollutants, and pollutant concentrations.

For most organic pollutants, the baseline value is 10 ug/L. Therefore, for most organic parameters, EPA has defined treatable levels as 100 ug/L. For metals pollutants the baseline values range from 0.2 ug/L to 1000 ug/L.

EPA obtained the initial pollutants of concern listing for each subcategory by establishing which parameters were detected at treatable levels in at least 10 percent of the influent wastewater samples. Ten percent was used to account for the variability of CWT wastewaters. As mentioned previously in Section 2.3.3.2, after the initial two sampling episodes EPA discontinued the analyses for dioxins/furans, pesticides/herbicides, methanol, ethanol, and formaldehyde. As a result these parameters were not included in the pollutants of concern analysis. EPA also excluded amenable cyanide from the analyses because the detection of total cyanide in a particular sample sometimes determined whether the laboratory would analyze for amenable cyanide in that sample.

Table B-1 in Appendix B identifies the episodes and sample points used in the pollutants of concern analysis. For the organics subcategory, the episodes and sample points are the same as for the 1999 proposal. For the metals subcategory, EPA made some changes in the data selection after a thorough review of the process diagrams for the sampled facilities and the analyses performed on the wastewater samples collected from particular sample points. EPA also included self-monitoring data from one facility. For the oils subcategory, EPA included all of the sample points and episodes included in the 1999 proposal. Also, EPA has included samples from the characterization sampling described in section 2.3.4.

The concentration values corresponding to duplicate samples were averaged using the methodology in Table 10-1.

For sample points with continuous flow systems, EPA aggregated the data values corresponding to multiple samples into a single daily value using the methodology in Table 10-2. For example, oil and grease samples are typically collected four times a day and the laboratory results are mathematically combined into a single daily value for each day.

The references to 'sample' or 'samples' in the remainder of this chapter refer to the concentration values after averaging duplicates and aggregating multiple daily values.

Figure 6-1 depicts the methodology EPA used to select pollutants of concern for each subcategory.

Tables 6-1 through 6-3 provide a listing of the pollutants that were determined to be pollutants of concern for each subcategory.

[1]This chapter in the 1998 Development Document inaccurately refers to the baseline value as the 'method detection limit.'

These tables list the pollutant name, CAS number, the number of times the pollutant was analyzed, the number of detects, the baseline value, the number of detects at treatable levels, and the minimum and maximum concentration detected. Tables 6-4 through 6-6 provide a listing of the pollutants that were not considered to be pollutants of concern for each subcategory and the reason they were not selected. While EPA generally uses the parameters established as pollutants of concern to estimate pollutant loadings and pollutant removals, EPA only selected some of these parameters for regulation. The regulated pollutants are a subset of the pollutants of concern and are discussed in Chapter 7. Chapter 12 discusses pollutant loading and removal estimates.

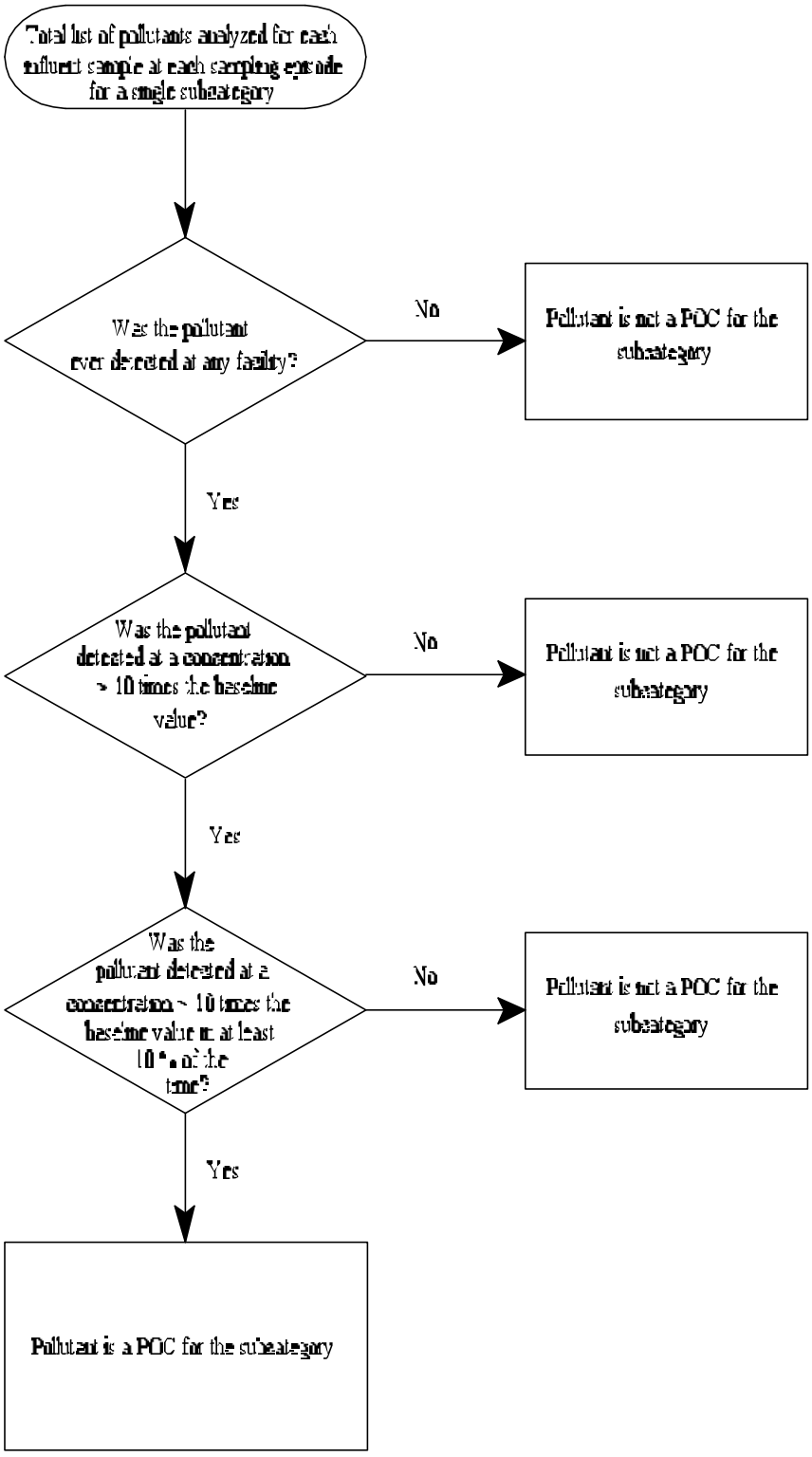

Figure 6-1. Pollutant of Concern Methodology

Table 6-1. Pollutants of Concern for the Metals Subcategory

Pollutant	Cas No.	# Times Analyzed	# Detects	Baseline value	# Detects >10xBV	Minimum Conc.	Maximum Conc.
CLASSICALS OR CONVENTIONALS				(ug/l)		(ug/l)	(ug/l)
Ammonia as Nitrogen	7664-41-7	90	90	50.0	84	300	1,650,000
Biochemical Oxygen Demand	C-003	82	67	2,000.0	53	4,000	10,800,000
BOD 5-Day (carbonaceous)	C-002	6	6	2,000.0	6	336,000	3,030,000
Chemical Oxygen Demand (COD)	C-004	89	88	5,000.0	87	48,000	85,500,000
Chloride	16887-00-6	25	25	1,000.0	25	262,000	62,000,000
D-Chemical Oxygen Demand	C-004D	4	4	5,000.0	4	2,700,000	11,000,000
Fluoride	16984-48-8	90	90	100.0	79	123	28,000,000
Hexavalent Chromium	18540-29-9	78	43	10.0	22	1	40,000,000
Nitrate/Nitrite	C-005	90	88	50.0	81	90	40,000,000
Oil & Grease	C-007	68	48	5,000.0	15	4,500	143,000
Total Cyanide	57-12-5	38	25	20.0	25	288	13,300,000
Total Dissolved Solids	C-010	30	30	10,000.0	30	12,700,000	223,000,000
Total Organic Carbon (TOC)	C-012	90	87	1,000.0	85	6,600	19,300,000
Total Phenols	C-020	84	58	50.0	10	11	2,900
Total Phosphorus	14265-44-2	85	77	10.0	77	380	15,000,000
Total Sulfide	18496-25-8	84	28	1,000.0	15	80	1,100,000
Total Suspended Solids	C-009	95	95	4,000.0	91	10,000	237,000,000
METALS				(ug/l)		(ug/l)	(ug/l)
Aluminum	7429-90-5	90	87	200.0	76	388	3,090,000
Antimony	7440-36-0	95	63	20.0	47	20	1,160,000
Arsenic	7440-38-2	95	69	10.0	50	17	1,220,000
Beryllium	7440-41-7	90	42	5.0	17	1	1,190
Boron	7440-42-8	90	89	100.0	87	441	1,420,000
Cadmium	7440-43-9	95	91	5.0	85	7	19,300,000
Calcium	7440-70-2	90	90	5,000.0	85	6,630	9,100,000
Chromium	7440-47-3	95	95	10.0	94	73	65,000,000
Cobalt	7440-48-4	90	77	50.0	56	15	10,900,000
Copper	7440-50-8	95	95	25.0	95	635	40,200,000
Gallium	7440-55-3	39	9	500.0	5	1,125	36,350
Indium	7440-74-6	39	21	1,000.0	11	800	61,200
Iodine	7553-56-2	38	10	1,000.0	10	23,800	537,000
Iridium	7439-88-5	39	13	1,000.0	11	400	253,000
Iron	7439-89-6	90	89	100.0	88	222	9,400,000
Lanthanum	7439-91-0	39	9	100.0	4	484	1,660
Lead	7439-92-1	95	90	50.0	83	136	4,390,000
Lithium	7439-93-2	39	20	100.0	12	103	795,000
Magnesium	7439-95-4	90	83	5,000.0	44	5,920	2,980,000
Manganese	7439-96-5	95	94	15.0	84	26	6,480,000
Mercury	7439-97-6	95	76	0.2	73	1	3,100
Molybdenum	7439-98-7	90	78	10.0	71	11	1,390,000
Nickel	7440-02-0	95	95	40.0	95	539	3,200,000
Osmium	7440-04-2	39	17	100.0	8	149	21,800
Phosphorus	7723-14-0	38	31	1,000.0	25	1,730	2,550,000
Potassium	7440-09-7	39	38	1,000.0	38	15,100	9,720,000
Selenium	7782-49-2	95	36	5.0	33	3	11,800
Silicon	7440-21-3	39	37	100.0	35	111	1,330,000
Silver	7440-22-4	95	76	10.0	60	4	130,000
Sodium	7440-23-5	90	90	5,000.0	89	48,300	77,700,000

Table 6-1. Pollutants of Concern for the Metals Subcategory

Pollutant	Cas No.	# Times Analyzed	# Detects	Baseline value	# Detects >10xBV	Minimum Conc.	Maximum Conc.
Strontium	7440-24-6	39	17	100.0	13	202	16,300
Sulfur	7704-34-9	38	38	1,000.0	38	157,000	38,000,000
Tantalum	7440-25-7	39	7	500.0	4	1,270	20,000
Tellurium	13494-80-9	39	4	1,000.0	4	11,700	182,000
Thallium	7440-28-0	90	29	10.0	16	13	275,000
Tin	7440-31-5	95	83	30.0	77	55	15,100,000
Titanium	7440-32-6	95	82	5.0	75	9	7,500,000
Vanadium	7440-62-2	90	59	50.0	32	11	364,000
Yttrium	7440-65-5	90	59	5.0	39	2	900
Zinc	7440-66-6	95	94	20.0	92	166	21,400,000
Zirconium	7440-67-7	39	17	100.0	5	200	4,860
ORGANICS				(ug/l)		(ug/l)	(ug/l)
1,1,1-Trichloroethane	71-55-6	27	5	10.0	3	38	601
1,1-Dichloroethene	75-35-4	27	5	10.0	5	142	3,735
1,4-Dioxane	123-91-1	27	5	10.0	5	404	83,352
2-Butanone	78-93-3	27	9	50.0	8	65	71,102
2-Propanone	67-64-1	27	25	50.0	16	52	488,102
4-Methyl-2-Pentanone	108-10-1	27	7	50.0	5	73	9,295
Benzoic Acid	65-85-0	22	19	50.0	14	193	36,756
Benzyl Alcohol	100-51-6	22	5	10.0	4	13	7,929
Bis(2-Ethylhexyl) Phthalate	117-81-7	22	7	10.0	6	18	1,063
Carbon Disulfide	75-15-0	27	9	10.0	7	11	2,396
Chloroform	67-66-3	27	5	10.0	5	161	731
Dibromochloromethane	124-48-1	27	3	10.0	3	105	723
Hexanoic Acid	142-62-1	22	7	10.0	6	99	1,256
m-Xylene	108-38-3	27	7	10.0	3	25	646
Methylene Chloride	75-09-2	27	16	10.0	8	11	734
n,n-Dimethylformamide	68-12-2	22	12	10.0	8	11	583
Phenol	108-95-2	22	5	10.0	3	61	341
Pyridine	110-86-1	22	5	10.0	5	140	1,684
Toluene	108-88-3	27	9	10.0	5	47	1,977
Trichloroethene	79-01-6	27	8	10.0	5	12	360

Table 6-2. Pollutants of Concern for the Oils Subcategory

Pollutant	Cas No.	# Times Analyzed	#	Baseline value	# Detects >10 x BV	Minimum Conc.	Maximum Conc.
CLASSICALS OR CONVENTIONALS				(ug/l)		(ug/l)	(ug/l)
Ammonia as Nitrogen	7664-41-7	39	39	50.0	39	13,500	1,310,000
Biochemical Oxygen Demand	C-003	54	54	2,000.0	54	500,000	62,500,000
Chemical Oxygen Demand (COD)	C-004	54	54	5,000.0	54	1,440,000	824,000,000
Chloride	16887-00-6	14	14	1,000.0	14	19,400	6,180,000
Fluoride	16984-48-8	39	38	100.0	34	115	330,000
Nitrate/Nitrite	C-005	39	37	50.0	32	130	103,000
Oil & Grease	C-007	54	54	5,000.0	53	37,500	180,000,000
SGT-HEM	C-037	25	25	5,000.0	22	17,500	40,100,000
Total Cyanide	57-12-5	18	12	20.0	5	22	980
Total Dissolved Solids	C-010	29	29	10,000.0	29	1,270,000	40,200,000
Total Organic Carbon (TOC)	C-012	54	54	1,000.0	54	298,000	157,000,000
Total Phenols	C-020	39	39	50.0	38	42	185,000
Total Phosphorus	14265-44-2	39	39	10.0	39	650	19,000,000
Total Suspended Solids	C-009	54	53	4,000.0	51	34,000	59,600,000
METALS				(ug/l)		(ug/l)	(ug/l)
Aluminum	7429-90-5	54	51	200.0	44	213	582,000
Antimony	7440-36-0	54	41	20.0	9	17	2,410
Arsenic	7440-38-2	54	51	10.0	33	6	9,170
Barium	7440-39-3	54	54	200.0	17	12	7,290
Boron	7440-42-8	54	54	100.0	54	1,050	1,710,000
Cadmium	7440-43-9	54	42	5.0	31	9	860
Calcium	7440-70-2	54	54	5,000.0	45	5,155	810,000
Chromium	7440-47-3	54	52	10.0	39	9	7,178
Cobalt	7440-48-4	54	42	50.0	25	9	116,000
Copper	7440-50-8	54	53	25.0	44	11	80,482
Germanium	7440-56-4	19	2	500.0	2	10,250	12,360
Iron	7439-89-6	54	54	100.0	52	494	630,000
Lead	7439-92-1	54	52	50.0	38	34	37,300
Lutetium	7439-94-3	19	3	100.0	3	1,165	1,315
Magnesium	7439-95-4	54	54	5,000.0	23	4,560	753,000
Manganese	7439-96-5	54	54	15.0	53	22	44,500
Mercury	7439-97-6	54	42	0.2	21	0	313
Molybdenum	7439-98-7	54	49	10.0	47	15	19,500
Nickel	7440-02-0	54	52	40.0	39	27	81,050
Phosphorus	7723-14-0	17	17	1,000.0	16	4,033	239,000
Potassium	7440-09-7	19	19	1,000.0	19	23,550	2,880,000
Selenium	7782-49-2	54	25	5.0	12	9	1,000
Silicon	7440-21-3	19	19	100.0	19	1,862	87,920
Silver	7440-22-4	54	32	10.0	6	8	7,740
Sodium	7440-23-5	54	53	5,000.0	52	12,400	11,200,000
Strontium	7440-24-6	19	13	100.0	8	128	3,470
Sulfur	7704-34-9	17	17	1,000.0	17	90,600	3,712,000
Tantalum	7440-25-7	19	3	500.0	2	1,474	15,190
Tin	7440-31-5	54	39	30.0	31	63	6,216
Titanium	7440-32-6	54	38	5.0	35	8	1,540
Zinc	7440-66-6	54	54	20.0	51	34	94,543
ORGANICS				(ug/l)		(ug/l)	(ug/l)
1,1,1-Trichloroethane	71-55-6	28	23	10.0	19	10	14,455

Table 6-2. Pollutants of Concern for the Oils Subcategory

Pollutant	Cas No.	# Times Analyzed	#	Baseline value	# Detects >10 x BV	Minimum Conc.	Maximum Conc.
1,1-Dichloroethene	75-35-4	28	7	10.0	6	11	1,968
1,2,4-Trichlorobenzene	120-82-1	39	8	10.0	8	359	18,899
1,2-Dichlorobenzene	95-50-1	39	4	10.0	4	171	4,186
1,2-Dichloroethane	107-06-2	28	12	10.0	10	14	713
1,4-Dichlorobenzene	106-46-7	39	7	10.0	7	454	2,334
1,4-Dioxane	123-91-1	28	3	10.0	3	189	1,323
1-Methylfluorene	1730-37-6	39	8	10.0	7	42	5,803
1-Methylphenanthrene	832-69-9	39	11	10.0	9	92	7,111
2,3-Benzofluorene	243-17-4	39	6	10.0	6	162	2,755
2,4-Dimethylphenol	105-67-9	39	11	10.0	9	48	2,171
2-Butanone	78-93-3	28	26	50.0	24	57	178,748
2-Isopropylnaphthalene	2027-17-0	39	5	10.0	4	68	125,180
2-Methylnaphthalene	91-57-6	39	28	10.0	25	80	46,108
2-Propanone	67-64-1	28	27	50.0	27	974	2,099,340
3,6-Dimethylphenanthrene	1576-67-6	39	5	10.0	5	114	2,762
4-Chloro-3-Methylphenol	59-50-7	38	20	10.0	20	101	83,825
4-Methyl-2-Pentanone	108-10-1	28	22	50.0	15	199	20,489
Acenaphthene	83-32-9	39	8	10.0	7	65	13,418
Alpha-Terpineol	98-55-5	39	13	10.0	11	57	2,245
Aniline	62-53-3	39	5	10.0	5	142	367
Anthracene	120-12-7	39	12	10.0	9	27	18,951
Benzene	71-43-2	28	28	10.0	24	70	20,425
Benzo(a)anthracene	56-55-3	39	12	10.0	8	25	6,303
Benzoic Acid	65-85-0	39	30	50.0	30	598	163,050
Benzyl Alcohol	100-51-6	39	13	10.0	11	40	12,700
Biphenyl	92-52-4	39	18	10.0	14	36	10,171
Bis(2-Ethylhexyl) Phthalate	117-81-7	39	18	10.0	13	33	838,450
Butyl Benzyl Phthalate	85-68-7	39	7	10.0	6	64	49,069
Carbazole	86-74-8	39	6	20.0	4	81	1,459
Carbon Disulfide	75-15-0	28	14	10.0	6	10	2,335
Chlorobenzene	108-90-7	28	11	10.0	6	12	326
Chloroform	67-66-3	28	12	10.0	12	160	1,828
Chrysene	218-01-9	39	12	10.0	10	39	8,879
Dibenzofuran	132-64-9	39	7	10.0	6	32	13,786
Dibenzothiophene	132-65-0	39	10	10.0	9	38	5,448
Diethyl Phthalate	84-66-2	39	10	10.0	10	145	9,309
Diphenyl Ether	101-84-8	39	8	10.0	8	149	13,751
Ethylbenzene	100-41-4	28	28	10.0	25	14	18,579
Fluoranthene	206-44-0	39	15	10.0	11	30	28,873
Fluorene	86-73-7	39	11	10.0	10	73	15,756
Hexanoic Acid	142-62-1	39	32	10.0	31	56	495,899
m+p Xylene	179601-23-1	5	5	10.0	5	838	1,660
m-Xylene	108-38-3	28	23	10.0	22	24	32,639
Methylene Chloride	75-09-2	28	25	10.0	16	13	10,524
n,n-Dimethylformamide	68-12-2	39	7	10.0	6	83	803
n-Decane	124-18-5	39	29	10.0	27	62	579,220
n-Docosane	629-97-0	39	24	10.0	20	17	66,926
n-Dodecane	112-40-3	39	30	10.0	30	125	472,570
n-Eicosane	112-95-8	39	32	10.0	28	58	319,080

Table 6-2. Pollutants of Concern for the Oils Subcategory

Pollutant	Cas No.	# Times Analyzed	#	Baseline value	# Detects >10 x BV	Minimum Conc.	Maximum Conc.
n-Hexacosane	630-01-3	39	13	10.0	10	16	9,561
n-Hexadecane	544-76-3	39	33	10.0	33	159	1,367,970
n-Octacosane	630-02-4	39	4	10.0	4	101	22,733
n-Octadecane	593-45-3	39	32	10.0	29	47	901,920
n-Tetracosane	646-31-1	38	17	10.0	12	18	12,111
n-Tetradecane	629-59-4	39	33	10.0	31	78	2,560,460
Naphthalene	91-20-3	39	33	10.0	31	24	53,949
o+p Xylene	136777-61-2	28	23	10.0	18	14	16,584
o-Cresol	95-48-7	39	17	10.0	16	85	8,273
o-Toluidine	95-53-4	39	7	10.0	4	26	248
o-Xylene	95-47-6	5	5	10.0	5	561	1,141
p-Cresol	106-44-5	39	26	10.0	25	15	3,607
p-Cymene	99-87-6	39	10	10.0	10	232	6,601
Pentamethylbenzene	700-12-9	39	7	10.0	7	116	11,186
Phenanthrene	85-01-8	39	22	10.0	17	12	49,016
Phenol	108-95-2	39	36	10.0	36	375	48,640
Pyrene	129-00-0	39	16	10.0	14	11	22,763
Pyridine	110-86-1	39	10	10.0	6	14	1,280
Styrene	100-42-5	39	8	10.0	7	28	1,019
Tetrachloroethene	127-18-4	28	19	10.0	18	24	12,789
Toluene	108-88-3	28	28	10.0	26	51	99,209
Trichloroethene	79-01-6	28	15	10.0	10	18	7,125
Tripropyleneglycol Methyl Ether	20324-33-8	39	13	99.0	13	1,495	383,151

Table 6-3. Pollutants of Concern for the Organics Subcategory

Pollutant	Cas No.	# Times Analyzed	#	Baseline value	# Detects >10 x BV	Minimum Conc.	Maximum Conc.
CLASSICALS OR CONVENTIONALS				(ug/l)		(ug/l)	(ug/l)
Ammonia as Nitrogen	7664-41-7	5	5	50.0	5	83,000	2,400,000
Biochemical Oxygen Demand	C-003	5	5	2,000.0	5	790,000	7,550,000
Chemical Oxygen Demand (COD)	C-004	5	5	5,000.0	5	1,400,000	11,000,000
D-Chemical Oxygen Demand	C-004D	5	5	5,000.0	5	1,200,000	9,900,000
Fluoride	16984-48-8	5	5	100.0	2	600	1,950
Nitrate/nitrite	C-005	5	4	50.0	4	100,000	340,000
Total Cyanide	57-12-5	5	5	20.0	5	760	7,800
Total Organic Carbon (TOC)	C-012	5	5	1,000.0	5	510,000	3,750,000
Total Sulfide	18496-25-8	5	3	1,000.0	2	4,000	24,000
Total Suspended Solids	C-009	5	5	4,000.0	4	33,000	3,700,000
METALS				(ug/l)		(ug/l)	(ug/l)
Aluminum	7429-90-5	5	5	200.0	4	148	7,660
Antimony	7440-36-0	5	4	20.0	3	146	1,540
Arsenic	7440-38-2	5	5	10.0	1	8	152
Barium	7440-39-3	5	5	200.0	2	1,030	136,000
Boron	7440-42-8	5	5	100.0	5	2,950	4,320
Calcium	7440-70-2	5	5	5,000.0	5	1,025,000	1,410,000
Chromium	7440-47-3	5	4	10.0	2	63	274
Cobalt	7440-48-4	5	4	50.0	3	253	731
Copper	7440-50-8	5	5	25.0	4	7	2,690
Iodine	7553-56-2	5	4	1,000.0	1	3,800	15,100
Iron	7439-89-6	5	5	100.0	5	2,360	6,430
Lead	7439-92-1	5	4	50.0	1	109	687
Lithium	7439-93-2	5	5	100.0	5	1,100	18,750
Manganese	7439-96-5	5	5	15.0	5	179	513
Molybdenum	7439-98-7	5	5	10.0	4	33	6,950
Nickel	7440-02-0	5	5	40.0	4	55	2,610
Phosphorus	7723-14-0	5	4	1,000.0	1	3,000	15,900
Potassium	7440-09-7	5	5	1,000.0	5	383,000	1,240,000
Silicon	7440-21-3	5	5	100.0	5	1,550	3,600
Sodium	7440-23-5	5	5	5,000.0	5	2,470,000	6,390,000
Strontium	7440-24-6	5	5	100.0	5	3,900	14,000
Sulfur	7704-34-9	5	5	1,000.0	5	12,800	1,990,000
Tin	7440-31-5	5	4	30.0	2	200	2,530
Titanium	7440-32-6	5	5	5.0	1	9	64
Zinc	7440-66-6	5	5	20.0	4	40	1,210
ORGANICS				(ug/l)		(ug/l)	(ug/l)
1,1,1,2-Tetrachloroethane	630-20-6	5	5	10.0	5	249	2,573
1,1,1-Trichloroethane	71-55-6	5	5	10.0	4	74	320
1,1,2,2-Tetrachloroethane	79-34-5	5	1	10.0	1	8,602	8,602
1,1,2-Trichloroethane	79-00-5	5	5	10.0	5	776	6,781
1,1-Dichloroethane	75-34-3	5	5	10.0	2	23	108
1,1-Dichloroethene	75-35-4	5	5	10.0	5	112	461
1,2,3-Trichloropropane	96-18-4	5	5	10.0	4	100	839
1,2-Dibromoethane	106-93-4	5	5	10.0	5	297	6,094
1,2-Dichlorobenzene	95-50-1	5	1	10.0	1	479	479
1,2-Dichloroethane	107-06-2	5	4	10.0	4	855	5,748
1,3-Dichloropropane	142-28-9	5	1	10.0	1	286	286

Table 6-3. Pollutants of Concern for the Organics Subcategory

Pollutant	Cas No.	# Times Analyzed	#	Baseline value	# Detects >10 x BV	Minimum Conc.	Maximum Conc.
2,3,4,6-Tetrachlorophenol	58-90-2	5	5	20.0	5	1,189	5,397
2,3-Dichloroaniline	608-27-5	5	3	10.0	3	109	636
2,4,5-Trichlorophenol	95-95-4	5	4	10.0	4	114	579
2,4,6-Trichlorophenol	88-06-2	5	4	10.0	4	148	1,091
2,4-Dimethylphenol	105-67-9	5	1	10.0	1	683	683
2-Butanone	78-93-3	5	5	50.0	5	894	5,063
2-Propanone	67-64-1	5	5	50.0	5	1,215	12,435
3,4,5-Trichlorocatechol	56961-20-7	5	2	0.8	1	2	46
3,4,6-Trichloroguaiacol	60712-44-9	5	2	0.8	1	7	12
3,4-Dichlorophenol	95-77-2	5	4	0.8	4	71	470
3,5-Dichlorophenol	591-35-5	5	3	0.8	3	38	170
3,6-Dichlorocatechol	3938-16-7	5	1	0.8	1	12	12
4,5,6-Trichloroguaiacol	2668-24-8	5	2	0.8	1	4	62
4,5-Dichloroguaiacol	2460-49-3	5	1	0.8	1	9	9
4-Chloro-3-Methylphenol	59-50-7	5	1	10.0	1	204	204
4-Chlorophenol	106-48-9	5	4	240.0	2	1,450	7,940
4-Methyl-2-Pentanone	108-10-1	5	5	50.0	4	290	4,038
5-Chloroguaiacol	3743-23-5	5	1	160.0	1	2,350	2,350
6-Chlorovanillin	18268-76-3	5	1	0.8	1	38	38
Acetophenone	98-86-2	5	4	10.0	4	336	739
Aniline	62-53-3	5	2	10.0	2	178	392
Benzene	71-43-2	5	5	10.0	3	30	179
Benzoic Acid	65-85-0	5	2	50.0	2	5,649	15,760
Bromodichloromethane	75-27-4	5	5	10.0	1	26	197
Carbon Disulfide	75-15-0	5	4	10.0	1	14	1,147
Chlorobenzene	108-90-7	5	4	10.0	1	70	101
Chloroform	67-66-3	5	4	10.0	4	5,224	32,301
Dimethyl Sulfone	67-71-0	5	3	10.0	3	315	892
Ethylenethiourea	96-45-7	5	2	20.0	2	8,306	9,655
Hexachloroethane	67-72-1	5	2	10.0	1	75	101
Hexanoic Acid	142-62-1	5	3	10.0	3	1,111	4,963
Isophorone	78-59-1	5	2	10.0	1	60	141
m-Xylene	108-38-3	5	5	10.0	1	45	310
Methylene Chloride	75-09-2	5	4	10.0	4	2,596	87,256
n,n-Dimethylformamide	68-12-2	5	3	10.0	2	23	225
o+p Xylene	136777-61-2	5	5	10.0	1	13	113
o-Cresol	95-48-7	5	4	10.0	4	7,162	14,313
p-Cresol	106-44-5	5	4	10.0	4	220	911
Pentachlorophenol	87-86-5	5	4	50.0	4	657	1,354
Phenol	108-95-2	5	4	10.0	4	483	9,491
Pyridine	110-86-1	5	5	10.0	4	29	444
Tetrachloroethene	127-18-4	5	4	10.0	4	2,235	19,496
Tetrachloromethane	56-23-5	5	5	10.0	5	1,862	16,126
Toluene	108-88-3	5	5	10.0	5	148	2,053
Trans-1,2-Dichloroethene	156-60-5	5	5	10.0	5	1,171	5,147
Trichloroethene	79-01-6	5	4	10.0	4	3,551	23,649
Vinyl Chloride	75-01-4	5	5	10.0	5	290	1,226

Table 6-4. Pollutants Not Selected as Pollutants of Concern for the Metals Subcategory

Pollutant	Cas No.	Never Detected	Detected <10 x BV	Detected in <10% of infuent samples
CLASSICALS OR CONVENTIONALS				
SGT-HEM	C-037		X	
METALS				
Barium	7440-39-3			X
Bismuth	7440-69-9			X
Cerium	7440-45-1		X	
Dysprosium	7429-91-6			X
Erbium	7440-52-0			X
Europium	7440-53-1			X
Gadolinium	7440-54-2			X
Germanium	7440-56-4		X	
Gold	7440-57-5			X
Hafnium	7440-58-6		X	
Holmium	7440-60-0	X		
Lutetium	7439-94-3		X	
Neodymium	7440-00-8			X
Niobium	7440-03-1			X
Palladium	7440-05-3			X
Platinum	7440-06-4		X	
Praseodymium	7440-10-0			X
Rhenium	7440-15-5			X
Rhodium	7440-16-6	X		
Ruthenium	7440-18-8			X
Samarium	7440-19-9		X	
Scandium	7440-20-2			X
Terbium	7440-27-9	X		
Thorium	7440-29-1			X
Thulium	7440-30-4	X		
Tungsten	7440-33-7			X
Uranium	7440-61-1		X	
Ytterbium	7440-64-4		X	
ORGANICS				
1,1,1,2-Tetrachloroethane	630-20-6	X		
1,1,2,2-Tetrachloroethane	79-34-5	X		
1,1,2-Trichloroethane	79-00-5	X		
1,1-Dichloroethane	75-34-3		X	
1,2,3-Trichlorobenzene	87-61-6	X		
1,2,3-Trichloropropane	96-18-4	X		
1,2,3-Trimethoxybenzene	634-36-6	X		
1,2,4,5-Tetrachlorobenzene	95-94-3	X		
1,2,4-Trichlorobenzene	120-82-1	X		
1,2-Dibromo-3-Chloropropane	96-12-8	X		
1,2-Dibromoethane	106-93-4	X		
1,2-Dichlorobenzene	95-50-1			X
1,2-Dichloroethane	107-06-2		X	
1,2-Dichloropropane	78-87-5	X		
1,2-Diphenylhydrazine	122-66-7	X		
1,2:3,4-Diepoxybutane	1464-53-5	X		
1,3,5-Trithiane	291-21-4	X		
1,3-Butadiene, 2-Chloro	126-99-8	X		

Table 6-4. Pollutants Not Selected as Pollutants of Concern for the Metals Subcategory

Pollutant	Cas No.	Never Detected	Detected <10 x BV	Detected in <10% of infuent samples
1,3-Dichloro-2-Propanol	96-23-1	X		
1,3-Dichlorobenzene	541-73-1	X		
1,3-Dichloropropane	142-28-9	X		
1,4-Dichlorobenzene	106-46-7	X		
1,4-Dinitrobenzene	100-25-4	X		
1,4-Naphthoquinone	130-15-4	X		
1,5-Naphthalenediamine	2243-62-1	X		
1-Bromo-2-Chlorobenzene	694-80-4	X		
1-Bromo-3-Chlorobenzene	108-37-2	X		
1-Chloro-3-Nitrobenzene	121-73-3	X		
1-Methylfluorene	1730-37-6	X		
1-Methylphenanthrene	832-69-9	X		
1-Naphthylamine	134-32-7	X		
1-Phenylnaphthalene	605-02-7	X		
2,3,4,6-Tetrachlorophenol	58-90-2	X		
2,3,6-Trichlorophenol	933-75-5	X		
2,3-Benzofluorene	243-17-4	X		
2,3-Dichloroaniline	608-27-5	X		
2,3-Dichloronitrobenzene	3209-22-1	X		
2,4,5-Trichlorophenol	95-95-4	X		
2,4,6-Trichlorophenol	88-06-2	X		
2,4-Dichlorophenol	120-83-2	X		
2,4-Dimethylphenol	105-67-9	X		
2,4-Dinitrophenol	51-28-5			X
2,4-Dinitrotoluene	121-14-2	X		
2,6-Di-Tert-Butyl-P-Benzoquinone	719-22-2	X		
2,6-Dichloro-4-Nitroaniline	99-30-9	X		
2,6-Dichlorophenol	87-65-0		X	
2,6-Dinitrotoluene	606-20-2	X		
2-(methylthio)benzothiazole	615-22-5	X		
2-Chloroethylvinyl Ether	110-75-8	X		
2-Chloronaphthalene	91-58-7			X
2-Chlorophenol	95-57-8			X
2-Hexanone	591-78-6		X	
2-Isopropylnaphthalene	2027-17-0	X		
2-Methylbenzothioazole	120-75-2	X		
2-Methylnaphthalene	91-57-6	X		
2-Nitroaniline	88-74-4	X		
2-Nitrophenol	88-75-5			X
2-Phenylnaphthalene	612-94-2	X		
2-Picoline	109-06-8		X	
2-Propen-1-Ol	107-18-6	X		
2-Propenal	107-02-8	X		
2-Propenenitrile, 2-Methyl-	126-98-7	X		
3,3'-Dichlorobenzidine	91-94-1	X		
3,3'-Dimethoxybenzidine	119-90-4	X		
3,6-Dimethylphenanthrene	1576-67-6	X		
3-Chloropropene	107-05-1	X		
3-Methylcholanthrene	56-49-5	X		
3-Nitroaniline	99-09-2	X		

Table 6-4. Pollutants Not Selected as Pollutants of Concern for the Metals Subcategory

Pollutant	Cas No.	Never Detected	Detected <10 x BV	Detected in <10% of infuent samples
4,4'-Methylenebis(2-Chloroaniline)	101-14-4	X		
4,5-Methylene Phenanthrene	203-64-5	X		
4-Aminobiphenyl	92-67-1	X		
4-Bromophenyl Phenyl Ether	101-55-3	X		
4-Chloro-2-Nitroaniline	89-63-4	X		
4-Chloro-3-Methylphenol	59-50-7	X		
4-Chlorophenylphenyl Ether	7005-72-3	X		
4-Nitrophenol	100-02-7			X
5-Nitro-O-Toluidine	99-55-8	X		
7,12-Dimethylbenz(a)anthracene	57-97-6	X		
Acenaphthene	83-32-9	X		
Acenaphthylene	208-96-8	X		
Acetophenone	98-86-2		X	
Acrylonitrile	107-13-1			X
Alpha-Terpineol	98-55-5			X
Aniline	62-53-3			X
Aniline, 2,4,5-Trimethyl-	137-17-7	X		
Anthracene	120-12-7	X		
Aramite	140-57-8	X		
Benzanthrone	82-05-3	X		
Benzene	71-43-2			X
Benzenethiol	108-98-5	X		
Benzidine	92-87-5	X		
Benzo(a)anthracene	56-55-3	X		
Benzo(a)pyrene	50-32-8	X		
Benzo(b)fluoranthene	205-99-2	X		
Benzo(ghi)perylene	191-24-2	X		
Benzo(k)fluoranthene	207-08-9	X		
Benzonitrile, 3,5-Dibromo-4-Hydroxy-	1689-84-5	X		
Beta-Naphthylamine	91-59-8	X		
Biphenyl	92-52-4			X
Biphenyl, 4-Nitro	92-93-3	X		
Bis(2-Chloroethoxy)methane	111-91-1	X		
Bis(2-Chloroethyl) Ether	111-44-4	X		
Bis(2-Chloroisopropyl) Ether	108-60-1	X		
Bromodichloromethane	75-27-4			X
Bromomethane	74-83-9	X		
Butyl Benzyl Phthalate	85-68-7	X		
Carbazole	86-74-8	X		
Chloroacetonitrile	107-14-2	X		
Chlorobenzene	108-90-7	X		
Chloroethane	75-00-3	X		
Chloromethane	74-87-3	X		
Chrysene	218-01-9			X
Cis-1,3-Dichloropropene	10061-01-5	X		
Crotonaldehyde	4170-30-3	X		
Crotoxyphos	7700-17-6	X		
Di-N-Butyl Phthalate	84-74-2	X		
Di-N-Octyl Phthalate	117-84-0	X		
Di-N-Propylnitrosamine	621-64-7	X		

Table 6-4. Pollutants Not Selected as Pollutants of Concern for the Metals Subcategory

Pollutant	Cas No.	Never Detected	Detected <10 x BV	Detected in <10% of infuent samples
Dibenzo(a,h)anthracene	53-70-3	X		
Dibenzofuran	132-64-9			X
Dibenzothiophene	132-65-0	X		
Dibromomethane	74-95-3	X		
Diethyl Ether	60-29-7			X
Diethyl Phthalate	84-66-2	X		
Dimethyl Phthalate	131-11-3	X		
Dimethyl Sulfone	67-71-0			X
Diphenyl Ether	101-84-8	X		
Diphenylamine	122-39-4	X		
Diphenyldisulfide	882-33-7	X		
Ethane, Pentachloro-	76-01-7	X		
Ethyl Cyanide	107-12-0	X		
Ethyl Methacrylate	97-63-2	X		
Ethyl Methanesulfonate	62-50-0	X		
Ethylbenzene	100-41-4			X
Ethylenethiourea	96-45-7	X		
Fluoranthene	206-44-0			X
Fluorene	86-73-7			X
Hexachlorobenzene	118-74-1	X		
Hexachlorobutadiene	87-68-3	X		
Hexachlorocyclopentadiene	77-47-4	X		
Hexachloroethane	67-72-1	X		
Hexachloropropene	1888-71-7	X		
Indeno(1,2,3-Cd)pyrene	193-39-5	X		
Iodomethane	74-88-4	X		
Isobutyl Alcohol	78-83-1			X
Isophorone	78-59-1		X	
Isosafrole	120-58-1	X		
Longifolene	475-20-7	X		
Malachite Green	569-64-2	X		
Mestranol	72-33-3	X		
Methapyrilene	91-80-5	X		
Methyl Methacrylate	80-62-6	X		
Methyl Methanesulfonate	66-27-3	X		
n-Decane	124-18-5			X
n-Docosane	629-97-0			X
n-Dodecane	112-40-3			X
n-Eicosane	112-95-8			X
n-Hexacosane	630-01-3		X	
n-Hexadecane	544-76-3			X
n-Nitrosodi-n-Butylamine	924-16-3	X		
n-Nitrosodiethylamine	55-18-5		X	
n-Nitrosodimethylamine	62-75-9			X
n-Nitrosodiphenylamine	86-30-6	X		
n-Nitrosomethylethylamine	10595-95-6	X		
n-Nitrosomethylphenylamine	614-00-6	X		
n-Nitrosomorpholine	59-89-2			X
n-Nitrosopiperidine	100-75-4	X		
n-Octacosane	630-02-4			X

Table 6-4. Pollutants Not Selected as Pollutants of Concern for the Metals Subcategory

Pollutant	Cas No.	Never Detected	Detected <10 x BV	Detected in <10% of infuent samples
n-Octadecane	593-45-3			X
n-Tetracosane	646-31-1			X
n-Tetradecane	629-59-4			X
n-Triacontane	638-68-6			X
Naphthalene	91-20-3			X
Nitrobenzene	98-95-3		X	
o+p Xylene	136777-61-2			X
o-Anisidine	90-04-0	X		
o-Cresol	95-48-7	X		
o-Toluidine	95-53-4	X		
o-Toluidine, 5-Chloro-	95-79-4	X		
p-Chloroaniline	106-47-8	X		
p-Cresol	106-44-5	X		
p-Cymene	99-87-6	X		
p-Dimethylaminoazobenzene	60-11-7	X		
p-Nitroaniline	100-01-6	X		
Pentachlorobenzene	608-93-5	X		
Pentachlorophenol	87-86-5			X
Pentamethylbenzene	700-12-9	X		
Perylene	198-55-0	X		
Phenacetin	62-44-2	X		
Phenanthrene	85-01-8			X
Phenol, 2-Methyl-4,6-Dinitro-	534-52-1	X		
Phenothiazine	92-84-2	X		
Pronamide	23950-58-5	X		
Pyrene	129-00-0	X		
Resorcinol	108-46-3	X		
Safrole	94-59-7	X		
Squalene	7683-64-9	X		
Styrene	100-42-5	X		
Tetrachloroethene	127-18-4			X
Tetrachloromethane	56-23-5	X		
Thianaphthene	95-15-8	X		
Thioacetamide	62-55-5	X		
Thioxanthe-9-One	492-22-8	X		
Toluene, 2,4-Diamino-	95-80-7	X		
Trans-1,2-Dichloroethene	156-60-5	X		
Trans-1,3-Dichloropropene	10061-02-6	X		
Trans-1,4-Dichloro-2-Butene	110-57-6	X		
Tribromomethane	75-25-2			X
Trichlorofluoromethane	75-69-4			X
Triphenylene	217-59-4	X		
Tripropyleneglycol Methyl Ether	20324-33-8			X
Vinyl Acetate	108-05-4	X		
Vinyl Chloride	75-01-4	X		

Table 6-5. Pollutants Not Selected as Pollutants of Concern for the Oils Subcategory

Pollutant	Cas No.	Never Detected	Detected <10 x BV	Detected in <10% of infuent samples
CLASSICALS OR CONVENTIONALS				
Hexavalent Chromium	18540-29-9			X
Total Sulfide	18496-25-8		X	
METALS				
Beryllium	7440-41-7			X
Bismuth	7440-69-9			X
Cerium	7440-45-1		X	
Dysprosium	7429-91-6	X		
Erbium	7440-52-0	X		
Europium	7440-53-1	X		
Gadolinium	7440-54-2	X		
Gallium	7440-55-3	X		
Gold	7440-57-5	X		
Hafnium	7440-58-6	X		
Holmium	7440-60-0	X		
Indium	7440-74-6	X		
Iodine	7553-56-2	X		
Iridium	7439-88-5			X
Lanthanum	7439-91-0	X		
Lithium	7439-93-2			X
Neodymium	7440-00-8	X		
Niobium	7440-03-1	X		
Osmium	7440-04-2	X		
Palladium	7440-05-3	X		
Platinum	7440-06-4		X	
Praseodymium	7440-10-0	X		
Rhenium	7440-15-5		X	
Rhodium	7440-16-6	X		
Ruthenium	7440-18-8	X		
Samarium	7440-19-9	X		
Scandium	7440-20-2	X		
Tellurium	13494-80-9		X	
Terbium	7440-27-9	X		
Thallium	7440-28-0		X	
Thorium	7440-29-1	X		
Thulium	7440-30-4	X		
Tungsten	7440-33-7		X	
Uranium	7440-61-1	X		
Vanadium	7440-62-2			X
Ytterbium	7440-64-4		X	
Yttrium	7440-65-5			X
Zirconium	7440-67-7		X	
ORGANICS				
1,1,1,2-Tetrachloroethane	630-20-6	X		
1,1,2,2-Tetrachloroethane	79-34-5		X	
1,1,2-Trichloroethane	79-00-5	X		
1,1-Dichloroethane	75-34-3			X
1,2,3-Trichlorobenzene	87-61-6			X
1,2,3-Trichloropropane	96-18-4	X		

Table 6-5. Pollutants Not Selected as Pollutants of Concern for the Oils Subcategory

Pollutant	Cas No.	Never Detected	Detected <10 x BV	Detected in <10% of infuent samples
1,2,3-Trimethoxybenzene	634-36-6	X		
1,2,4,5-Tetrachlorobenzene	95-94-3	X		
1,2-Dibromo-3-Chloropropane	96-12-8	X		
1,2-Dibromoethane	106-93-4	X		
1,2-Dichloropropane	78-87-5	X		
1,2-Diphenylhydrazine	122-66-7	X		
1,2:3,4-Diepoxybutane	1464-53-5	X		
1,3,5-Trithiane	291-21-4			X
1,3-Butadiene, 2-Chloro	126-99-8	X		
1,3-Dichloro-2-Propanol	96-23-1	X		
1,3-Dichlorobenzene	541-73-1		X	
1,3-Dichloropropane	142-28-9	X		
1,4-Dinitrobenzene	100-25-4	X		
1,4-Naphthoquinone	130-15-4	X		
1,5-Naphthalenediamine	2243-62-1	X		
1-Bromo-2-Chlorobenzene	694-80-4	X		
1-Bromo-3-Chlorobenzene	108-37-2	X		
1-Chloro-3-Nitrobenzene	121-73-3	X		
1-Naphthylamine	134-32-7	X		
1-Phenylnaphthalene	605-02-7			X
2,3,4,6-Tetrachlorophenol	58-90-2	X		
2,3,6-Trichlorophenol	933-75-5	X		
2,3-Dichloroaniline	608-27-5		X	
2,3-Dichloronitrobenzene	3209-22-1	X		
2,4,5-Trichlorophenol	95-95-4	X		
2,4,6-Trichlorophenol	88-06-2	X		
2,4-Dichlorophenol	120-83-2	X		
2,4-Dinitrophenol	51-28-5	X		
2,4-Dinitrotoluene	121-14-2	X		
2,6-Di-Tert-Butyl-P-Benzoquinone	719-22-2	X		
2,6-Dichloro-4-Nitroaniline	99-30-9	X		
2,6-Dichlorophenol	87-65-0	X		
2,6-Dinitrotoluene	606-20-2	X		
2-(methylthio)benzothiazole	615-22-5	X		
2-Chloroethylvinyl Ether	110-75-8	X		
2-Chloronaphthalene	91-58-7	X		
2-Chlorophenol	95-57-8	X		
2-Hexanone	591-78-6		X	
2-Methylbenzothioazole	120-75-2	X		
2-Nitroaniline	88-74-4	X		
2-Nitrophenol	88-75-5			X
2-Phenylnaphthalene	612-94-2			X
2-Picoline	109-06-8	X		
2-Propen-1-Ol	107-18-6	X		
2-Propenal	107-02-8			X
2-Propenenitrile, 2-Methyl-	126-98-7	X		
3,3'-Dichlorobenzidine	91-94-1	X		
3,3'-Dimethoxybenzidine	119-90-4	X		
3-Chloropropene	107-05-1	X		

Table 6-5. Pollutants Not Selected as Pollutants of Concern for the Oils Subcategory

Pollutant	Cas No.	Never Detected	Detected <10 x BV	Detected in <10% of infuent samples
3-Methylcholanthrene	56-49-5	X		
3-Nitroaniline	99-09-2	X		
4,4'-Methylenebis(2-Chloroaniline)	101-14-4	X		
4,5-Methylene Phenanthrene	203-64-5			X
4-Aminobiphenyl	92-67-1	X		
4-Bromophenyl Phenyl Ether	101-55-3	X		
4-Chloro-2-Nitroaniline	89-63-4	X		
4-Chlorophenylphenyl Ether	7005-72-3	X		
4-Nitrophenol	100-02-7	X		
5-Nitro-o-Toluidine	99-55-8	X		
7,12-Dimethylbenz(a)anthracene	57-97-6	X		
Acenaphthylene	208-96-8			X
Acetophenone	98-86-2			X
Acrylonitrile	107-13-1	X		
Aniline, 2,4,5-Trimethyl-	137-17-7	X		
Aramite	140-57-8	X		
Benzanthrone	82-05-3	X		
Benzenethiol	108-98-5	X		
Benzidine	92-87-5	X		
Benzo(a)pyrene	50-32-8			X
Benzo(b)fluoranthene	205-99-2			X
Benzo(ghi)perylene	191-24-2			X
Benzo(k)fluoranthene	207-08-9			X
Benzonitrile, 3,5-Dibromo-4-Hydroxy-	1689-84-5	X		
Beta-Naphthylamine	91-59-8	X		
Biphenyl, 4-Nitro	92-93-3	X		
Bis(2-Chloroethoxy)methane	111-91-1	X		
Bis(2-Chloroethyl) Ether	111-44-4	X		
Bis(2-Chloroisopropyl) Ether	108-60-1	X		
Bromodichloromethane	75-27-4	X		
Bromomethane	74-83-9	X		
Chloroacetonitrile	107-14-2	X		
Chloroethane	75-00-3	X		
Chloromethane	74-87-3	X		
Cis-1,3-Dichloropropene	10061-01-5	X		
Crotonaldehyde	4170-30-3	X		
Crotoxyphos	7700-17-6	X		
Di-n-Butyl Phthalate	84-74-2			X
Di-n-Octyl Phthalate	117-84-0			X
Di-n-Propylnitrosamine	621-64-7	X		
Dibenzo(a,h)anthracene	53-70-3	X		
Dibromochloromethane	124-48-1	X		
Dibromomethane	74-95-3	X		
Diethyl Ether	60-29-7			X
Dimethyl Phthalate	131-11-3			X
Dimethyl Sulfone	67-71-0		X	
Diphenylamine	122-39-4			X
Diphenyldisulfide	882-33-7	X		
Ethane, Pentachloro-	76-01-7	X		

Table 6-5. Pollutants Not Selected as Pollutants of Concern for the Oils Subcategory

Pollutant	Cas No.	Never Detected	Detected <10 x BV	Detected in <10% of infuent samples
Ethyl Cyanide	107-12-0	X		
Ethyl Methacrylate	97-63-2	X		
Ethyl Methanesulfonate	62-50-0	X		
Ethylenethiourea	96-45-7	X		
Hexachlorobenzene	118-74-1	X		
Hexachlorobutadiene	87-68-3			X
Hexachlorocyclopentadiene	77-47-4	X		
Hexachloroethane	67-72-1	X		
Hexachloropropene	1888-71-7	X		
Indeno(1,2,3-Cd)pyrene	193-39-5	X		
Iodomethane	74-88-4	X		
Isobutyl Alcohol	78-83-1		X	
Isophorone	78-59-1			X
Isosafrole	120-58-1	X		
Longifolene	475-20-7	X		
Malachite Green	569-64-2	X		
Mestranol	72-33-3	X		
Methapyrilene	91-80-5	X		
Methyl Methacrylate	80-62-6	X		
Methyl Methanesulfonate	66-27-3	X		
n-Nitrosodi-n-Butylamine	924-16-3			X
n-Nitrosodiethylamine	55-18-5	X		
n-Nitrosodimethylamine	62-75-9	X		
n-Nitrosodiphenylamine	86-30-6			X
n-Nitrosomethylethylamine	10595-95-6	X		
n-Nitrosomethylphenylamine	614-00-6	X		
n-Nitrosomorpholine	59-89-2			X
n-Nitrosopiperidine	100-75-4			X
n-Triacontane	638-68-6			X
Nitrobenzene	98-95-3	X		
o-Anisidine	90-04-0	X		
o-Toluidine, 5-Chloro-	95-79-4	X		
p-Chloroaniline	106-47-8	X		
p-Dimethylaminoazobenzene	60-11-7	X		
p-Nitroaniline	100-01-6	X		
Pentachlorobenzene	608-93-5	X		
Pentachlorophenol	87-86-5		X	
Perylene	198-55-0	X		
Phenacetin	62-44-2	X		
Phenol, 2-Methyl-4,6-Dinitro-	534-52-1	X		
Phenothiazine	92-84-2	X		
Pronamide	23950-58-5	X		
Resorcinol	108-46-3	X		
Safrole	94-59-7	X		
Squalene	7683-64-9	X		
Tetrachloromethane	56-23-5			X
Thianaphthene	95-15-8			X
Thioacetamide	62-55-5	X		
Thioxanthe-9-One	492-22-8	X		

Table 6-5. Pollutants Not Selected as Pollutants of Concern for the Oils Subcategory

Pollutant	Cas No.	Never Detected	Detected <10 x BV	Detected in <10% of infuent samples
Toluene, 2,4-Diamino-	95-80-7			X
Trans-1,2-Dichloroethene	156-60-5		X	
Trans-1,3-Dichloropropene	10061-02-6	X		
Trans-1,4-Dichloro-2-Butene	110-57-6	X		
Tribromomethane	75-25-2	X		
Trichlorofluoromethane	75-69-4			X
Triphenylene	217-59-4			X
Vinyl Acetate	108-05-4			X
Vinyl Chloride	75-01-4			X

Table 6-6. Pollutants Not Selected as Pollutants of Concern for the Organics Subcategory

Pollutant	Cas No.	Never Detected	Detected <10 x BV	Detected in <10% of infuent samples
CLASSICALS OR CONVENTIONALS				
Oil & Grease	C-007		X	
METALS				
Beryllium	7440-41-7	X		
Bismuth	7440-69-9	X		
Cadmium	7440-43-9		X	
Cerium	7440-45-1	X		
Dysprosium	7429-91-6	X		
Erbium	7440-52-0	X		
Europium	7440-53-1	X		
Gadolinium	7440-54-2	X		
Gallium	7440-55-3		X	
Germanium	7440-56-4	X		
Gold	7440-57-5	X		
Hafnium	7440-58-6		X	
Holmium	7440-60-0	X		
Indium	7440-74-6		X	
Iridium	7439-88-5		X	
Lanthanum	7439-91-0	X		
Lutetium	7439-94-3	X		
Magnesium	7439-95-4		X	
Mercury	7439-97-6	X		
Neodymium	7440-00-8	X		
Niobium	7440-03-1	X		
Osmium	7440-04-2	X		
Palladium	7440-05-3	X		
Platinum	7440-06-4		X	
Praseodymium	7440-10-0	X		
Rhenium	7440-15-5	X		
Rhodium	7440-16-6	X		
Ruthenium	7440-18-8	X		
Samarium	7440-19-9	X		
Scandium	7440-20-2	X		
Selenium	7782-49-2	X		
Silver	7440-22-4	X		
Tantalum	7440-25-7	X		
Tellurium	13494-80-9	X		
Terbium	7440-27-9	X		
Thallium	7440-28-0	X		
Thorium	7440-29-1	X		
Thulium	7440-30-4	X		
Tungsten	7440-33-7	X		
Uranium	7440-61-1	X		
Vanadium	7440-62-2		X	
Ytterbium	7440-64-4	X		
Yttrium	7440-65-5		X	
Zirconium	7440-67-7	X		
ORGANICS				
1,2,3-Trichlorobenzene	87-61-6	X		
1,2,3-Trimethoxybenzene	634-36-6	X		

Table 6-6. Pollutants Not Selected as Pollutants of Concern for the Organics Subcategory

Pollutant	Cas No.	Never Detected	Detected <10 x BV	Detected in <10% of infuent samples
1,2,4,5-Tetrachlorobenzene	95-94-3	X		
1,2,4-Trichlorobenzene	120-82-1	X		
1,2-Dibromo-3-Chloropropane	96-12-8	X		
1,2-Dichloropropane	78-87-5		X	
1,2-Diphenylhydrazine	122-66-7	X		
1,2:3,4-Diepoxybutane	1464-53-5	X		
1,3,5-Trithiane	291-21-4	X		
1,3-Butadiene, 2-Chloro	126-99-8	X		
1,3-Dichloro-2-Propanol	96-23-1	X		
1,3-Dichlorobenzene	541-73-1	X		
1,4-Dichlorobenzene	106-46-7	X		
1,4-Dinitrobenzene	100-25-4	X		
1,4-Dioxane	123-91-1		X	
1,4-Naphthoquinone	130-15-4	X		
1,5-Naphthalenediamine	2243-62-1	X		
1-Bromo-2-Chlorobenzene	694-80-4	X		
1-Bromo-3-Chlorobenzene	108-37-2	X		
1-Chloro-3-Nitrobenzene	121-73-3	X		
1-Methylfluorene	1730-37-6	X		
1-Methylphenanthrene	832-69-9	X		
1-Naphthylamine	134-32-7	X		
1-Phenylnaphthalene	605-02-7	X		
2,3,6-Trichlorophenol	933-75-5	X		
2,3-Benzofluorene	243-17-4	X		
2,3-Dichloronitrobenzene	3209-22-1	X		
2,4-Dichlorophenol	120-83-2	X		
2,4-Dinitrophenol	51-28-5	X		
2,4-Dinitrotoluene	121-14-2	X		
2,6-Di-Tert-Butyl-P-Benzoquinone	719-22-2	X		
2,6-Dichloro-4-Nitroaniline	99-30-9	X		
2,6-Dichlorophenol	87-65-0	X		
2,6-Dinitrotoluene	606-20-2	X		
2-(Methylthio)Benzothiazole	615-22-5	X		
2-Chloroethylvinyl Ether	110-75-8	X		
2-Chloronaphthalene	91-58-7	X		
2-Chlorophenol	95-57-8	X		
2-Hexanone	591-78-6	X		
2-Isopropylnaphthalene	2027-17-0	X		
2-Methylbenzothioazole	120-75-2	X		
2-Methylnaphthalene	91-57-6	X		
2-Nitroaniline	88-74-4	X		
2-Nitrophenol	88-75-5	X		
2-Phenylnaphthalene	612-94-2	X		
2-Picoline	109-06-8		X	
2-Propen-1-Ol	107-18-6	X		
2-Propenal	107-02-8	X		
2-Propenenitrile, 2-Methyl-	126-98-7	X		
2-Syringaldehyde	134-96-3	X		
3,3'-Dichlorobenzidine	91-94-1	X		
3,3'-Dimethoxybenzidine	119-90-4	X		

Table 6-6. Pollutants Not Selected as Pollutants of Concern for the Organics Subcategory

Pollutant	Cas No.	Never Detected	Detected <10 x BV	Detected in <10% of infuent samples
3,4,5-Trichloroguaiacol	57057-83-7		X	
3,5-Dichlorocatechol	13673-92-2	X		
3,6-Dimethylphenanthrene	1576-67-6	X		
3-Chloropropene	107-05-1	X		
3-Methylcholanthrene	56-49-5	X		
3-Nitroaniline	99-09-2	X		
4,4'-Methylenebis(2-Chloroaniline)	101-14-4	X		
4,5-Dichlorocatechol	3428-24-8		X	
4,5-Methylene Phenanthrene	203-64-5	X		
4,6-Dichloroguaiacol	16766-31-7	X		
4-Aminobiphenyl	92-67-1	X		
4-Bromophenyl Phenyl Ether	101-55-3	X		
4-Chloro-2-Nitroaniline	89-63-4	X		
4-Chloroguaiacol	16766-30-6	X		
4-Chlorophenylphenyl Ether	7005-72-3	X		
4-Nitrophenol	100-02-7	X		
5,6-Dichlorovanillin	18268-69-4	X		
5-Nitro-o-Toluidine	99-55-8	X		
7,12-Dimethylbenz(a)anthracene	57-97-6	X		
Acenaphthene	83-32-9	X		
Acenaphthylene	208-96-8	X		
Acrylonitrile	107-13-1	X		
Alpha-Terpineol	98-55-5	X		
Aniline, 2,4,5-Trimethyl-	137-17-7	X		
Anthracene	120-12-7	X		
Aramite	140-57-8	X		
Benzanthrone	82-05-3	X		
Benzenethiol	108-98-5	X		
Benzidine	92-87-5	X		
Benzo(a)anthracene	56-55-3	X		
Benzo(a)pyrene	50-32-8	X		
Benzo(b)fluoranthene	205-99-2	X		
Benzo(ghi)perylene	191-24-2	X		
Benzo(k)fluoranthene	207-08-9	X		
Benzonitrile, 3,5-Dibromo-4-Hydroxy-	1689-84-5	X		
Benzyl Alcohol	100-51-6	X		
Beta-Naphthylamine	91-59-8	X		
Biphenyl	92-52-4	X		
Biphenyl, 4-Nitro	92-93-3	X		
Bis(2-Chloroethoxy)methane	111-91-1	X		
Bis(2-Chloroethyl) Ether	111-44-4	X		
Bis(2-Chloroisopropyl) Ether	108-60-1	X		
Bis(2-Ethylhexyl) Phthalate	117-81-7	X		
Bromomethane	74-83-9	X		
Butyl Benzyl Phthalate	85-68-7	X		
Carbazole	86-74-8	X		
Chloroacetonitrile	107-14-2	X		
Chloroethane	75-00-3	X		
Chloromethane	74-87-3	X		
Chrysene	218-01-9	X		

Table 6-6. Pollutants Not Selected as Pollutants of Concern for the Organics Subcategory

Pollutant	Cas No.	Never Detected	Detected <10 x BV	Detected in <10% of infuent samples
Cis-1,3-Dichloropropene	10061-01-5	X		
Crotonaldehyde	4170-30-3	X		
Crotoxyphos	7700-17-6	X		
Di-n-Butyl Phthalate	84-74-2	X		
Di-n-Octyl Phthalate	117-84-0	X		
Di-n-Propylnitrosamine	621-64-7	X		
Dibenzo(a,h)anthracene	53-70-3	X		
Dibenzofuran	132-64-9	X		
Dibenzothiophene	132-65-0	X		
Dibromochloromethane	124-48-1	X		
Dibromomethane	74-95-3	X		
Diethyl Ether	60-29-7		X	
Diethyl Phthalate	84-66-2	X		
Dimethyl Phthalate	131-11-3	X		
Diphenyl Ether	101-84-8	X		
Diphenylamine	122-39-4	X		
Diphenyldisulfide	882-33-7	X		
Ethane, Pentachloro-	76-01-7		X	
Ethyl Cyanide	107-12-0	X		
Ethyl Methacrylate	97-63-2	X		
Ethyl Methanesulfonate	62-50-0	X		
Ethylbenzene	100-41-4		X	
Fluoranthene	206-44-0	X		
Fluorene	86-73-7	X		
Hexachlorobenzene	118-74-1		X	
Hexachlorobutadiene	87-68-3		X	
Hexachlorocyclopentadiene	77-47-4	X		
Hexachloropropene	1888-71-7	X		
Indeno(1,2,3-Cd)pyrene	193-39-5	X		
Iodomethane	74-88-4	X		
Isobutyl Alcohol	78-83-1	X		
Isosafrole	120-58-1	X		
Longifolene	475-20-7	X		
Malachite Green	569-64-2	X		
Mestranol	72-33-3	X		
Methapyrilene	91-80-5	X		
Methyl Methacrylate	80-62-6	X		
Methyl Methanesulfonate	66-27-3	X		
n-Decane	124-18-5	X		
n-Docosane	629-97-0	X		
n-Dodecane	112-40-3	X		
n-Eicosane	112-95-8	X		
n-Hexacosane	630-01-3	X		
n-Hexadecane	544-76-3	X		
n-Nitrosodi-n-Butylamine	924-16-3	X		
n-Nitrosodiethylamine	55-18-5	X		
n-Nitrosodimethylamine	62-75-9		X	
n-Nitrosodiphenylamine	86-30-6	X		
n-Nitrosomethylethylamine	10595-95-6	X		
n-Nitrosomethylphenylamine	614-00-6	X		

Table 6-6. Pollutants Not Selected as Pollutants of Concern for the Organics Subcategory

Pollutant	Cas No.	Never Detected	Detected <10 x BV	Detected in <10% of infuent samples
n-Nitrosomorpholine	59-89-2	X		
n-Nitrosopiperidine	100-75-4	X		
n-Octacosane	630-02-4	X		
n-Octadecane	593-45-3	X		
n-Tetracosane	646-31-1		X	
n-Tetradecane	629-59-4	X		
n-Triacontane	638-68-6	X		
Naphthalene	91-20-3	X		
Nitrobenzene	98-95-3	X		
o-Anisidine	90-04-0	X		
o-Toluidine	95-53-4	X		
o-Toluidine, 5-Chloro-	95-79-4	X		
p-Chloroaniline	106-47-8	X		
p-Cymene	99-87-6	X		
p-Dimethylaminoazobenzene	60-11-7	X		
p-Nitroaniline	100-01-6	X		
Pentachlorobenzene	608-93-5	X		
Pentamethylbenzene	700-12-9	X		
Perylene	198-55-0	X		
Phenacetin	62-44-2	X		
Phenanthrene	85-01-8	X		
Phenol, 2-Methyl-4,6-Dinitro-	534-52-1	X		
Phenothiazine	92-84-2	X		
Pronamide	23950-58-5	X		
Pyrene	129-00-0	X		
Resorcinol	108-46-3	X		
Safrole	94-59-7	X		
Squalene	7683-64-9	X		
Styrene	100-42-5	X		
Tetrachlorocatechol	1198-55-6		X	
Tetrachloroguaiacol	2539-17-5	X		
Thianaphthene	95-15-8	X		
Thioacetamide	62-55-5	X		
Thioxanthe-9-One	492-22-8	X		
Toluene, 2,4-Diamino-	95-80-7	X		
Trans-1,3-Dichloropropene	10061-02-6	X		
Trans-1,4-Dichloro-2-Butene	110-57-6	X		
Tribromomethane	75-25-2		X	
Trichlorofluoromethane	75-69-4		X	
Trichlorosyringol	2539-26-6		X	
Triphenylene	217-59-4	X		
Tripropyleneglycol Methyl Ether	20324-33-8	X		
Vinyl Acetate	108-05-4	X		

POLLUTANTS OF CONCERN FOR THE METALS SUBCATEGORY *6.2*

Wastewaters treated at CWT facilities in the metals subcategory contain a range of conventional, toxic, and non-conventional pollutants. EPA analyzed influent samples for 320 conventional, classical, metal, and organic pollutants. EPA identified 78 pollutants of concern, including 41 metals, 20 organics, and 17 classical and conventional pollutants as presented in Table 6-1 and including pH. EPA excluded 242 pollutants from further review because they did not pass the pollutant of concern criteria. Table 6-4 lists these pollutants, including 167 pollutants that were never detected at any sampling episode, 19 pollutants that were detected at a concentration less than ten times the baseline value, and 56 pollutants that were present at treatable levels in less than ten percent of the influent samples. EPA selected only 24 percent of the list of pollutants analyzed as pollutants of concern, and as expected, the greatest number of pollutants of concern in the metals subcategory were found in the metals group.

Facilities in the metals subcategory had the highest occurrence and broadest range of metals detected in their raw wastewater. The sampling identified a total of 41 metals/semi-metals above treatable levels, compared to 31 metals/semi-metals in the oils subcategory, and 25 metals in the organics subcategory. Maximum metals concentrations in the metals subcategory were generally at least an order of magnitude higher than metals in the oils and organics subcategories, and were often two to three orders of magnitude greater. Wastewaters contained significant concentrations of common non-conventional metals such as aluminum, iron, and tin. In addition, given the processes generating these wastewaters, waste receipts in this subcategory generally contained toxic heavy metals. Toxic metals found in the highest concentrations were cadmium, chromium, cobalt, copper, nickel, and zinc.

EPA detected four conventional pollutants (BOD_5, TSS, oil and grease, and pH) and 13 classical pollutants above treatable levels in the metals subcategory, including hexavalent chromium, which was not found at treatable levels in the oils subcategory (EPA did not obtain any data on hexavalent chromium for the organics subcategory).

Concentrations for total cyanide, chloride, fluoride, nitrate/nitrite, TDS, TSS, and total sulfide were significantly higher for metals facilities than for facilities in the other subcategories (EPA did not obtain any data on chloride and TDS for the organics subcategory).

While sampling showed organic pollutants at selected facilities in the metals subcategory, these were not typically found in wastewaters resulting from this subcategory. Many metals facilities have placed acceptance restrictions on the concentration of organic pollutants allowed in the off-site wastestreams. Of the 233 organic pollutants analyzed in the metals subcategory, EPA only detected 20 in more than 10 percent of the samples, as compared to 73 in the oils subcategory and 58 in the organics subcategory. However, of the organic compounds detected in the metals subcategory, only one, specifically, dibromochloromethane, was not detected in any other subcategory. EPA sampling detected all other organic pollutants in the metals subcategory at relatively low concentrations, as compared to the oils and organics subcategories.

POLLUTANTS OF CONCERN FOR THE OILS SUBCATEGORY *6.3*

As detailed in Chapters 2 and 12, EPA does not have data to characterize raw wastewater for the oils subcategory. Therefore, EPA based its influent wastewater characterization for this subcategory on an evaluation of samples obtained following the initial gravity separation/emulsion breaking step. EPA

analyzed these samples for 321 conventional, classical, metal, and organic pollutants. EPA identified 118 pollutants of concern, including 73 organics, 31 metals/semi-metals, 13 classicals, and four conventional pollutants, pH plus the three presented in Table 6-2. EPA eliminated 202 pollutants after applying its criteria for selecting pollutants of concern. Table 6-5 lists these pollutants, including 145 pollutants that were never detected at any sampling episode, 17 pollutants that were detected at a concentration less than ten times the baseline value, and 40 pollutants that were present at treatable levels in less than ten percent of the influent samples. EPA selected slightly more than 30 percent of the list of pollutants analyzed as pollutants of concern, the majority of which were organic pollutants.

Facilities in the oils subcategory had the broadest spectrum of pollutants of concern in their raw wastewater with 4 conventional pollutants, 13 classical pollutants, and more than 100 organics and metals/semi-metals. As expected, oil and grease concentrations in this subcategory were significantly higher than for the other subcategories, and varied greatly from one facility to the next, ranging from 37.5 mg/L to 180,000 mg/L (see Table 6-2) after the first stage of treatment. The concentrations of ammonia, BOD_5, COD, TOC, total phenols, and total phosphorus were also higher for facilities in the oils subcategory.

Wastewaters contained significant concentrations of both non-conventional and toxic metals such as aluminum, boron, cobalt, iron, manganese, and zinc. EPA's sampling data show most pollutant of concern metals were detected at higher concentrations in the oils subcategory than those found in the organics subcategory, but at significantly lower concentrations than those found in the metals subcategory. Germanium and lutetium were the only metals/semi-metals detected at a treatable level in the oils subcategory but not in one or both of the other two subcategories.

Of the 73 organic pollutants selected as pollutants of concern in the oils subcategory, 43 were not present at treatable levels in the other two subcategories. Twenty seven pollutants of concern organics were common to both the oils and organics subcategories, but more than half of these organics were detected in oily wastewater at concentrations one to three orders of magnitude higher than those found in the organics subcategory wastewaters. Organic pollutants found in the highest concentrations were straight chain hydrocarbons such as n-decane and n-tetradecane, and aromatics such as naphthalene and bis(2-ethylhexyl)phthalate. EPA also detected polyaromatic hydrocarbons, such as fluoranthene in the wastewaters of oils facilities.

In the 1999 proposal, EPA had identified benzo(a)pyrene as a pollutant of concern for the oils subcategory. After further evaluation of the laboratory reports,[2] EPA corrected some reported amounts for benzo(a)pyrene. After these corrections were made to the database, benzo(a)pyrene failed to meet EPA's criteria to be a pollutant of concern.

POLLUTANTS OF CONCERN FOR THE ORGANICS SUBCATEGORY *6.4*

Wastewaters treated at CWT facilities in the organics subcategory contain a range of conventional, toxic, and non-conventional pollutants. EPA analyzed influent samples for 334 classical, metal, and organic pollutants. EPA identified 93 pollutants of concern, including 58 organic pollutants, 25 metals/semi-metals, 8 classicals, and 3 conventional pollutants, pH plus the two presented in Table 6-3. EPA excluded 240 pollutants because they did not pass the pollutant of concern criteria. Table 6-6 presents these pollutants, including 214 pollutants that were never detected at any sampling episode,

[2]For more details, see DCN _____ in the record for this rule.

and 26 pollutants that were detected at a concentration less than ten times the baseline value. EPA determined that only 28 percent of the list of pollutants analyzed were pollutants of concern.

As expected, wastewaters contained significant concentrations of organic parameters, many of which were highly volatile. However, although EPA analyzed wastewater samples in the organics subcategory for a more extensive list of organics than samples in the metals or oils subcategories, EPA selected only 23 percent of those organic pollutants analyzed as pollutants of concern. EPA selected as pollutants of concern a total of 58 organics in the influent samples analyzed. Thirty one of these organics were present in the organics subcategory but not in the oils subcategory. EPA determined that the remaining 27 organics were pollutants of concern for both the organics and oils subcategories. EPA's sampling detected only six of these organic pollutants at higher concentrations at organics facilities, specifically, chloroform, methylene chloride, o-cresol, tetrachloroethene, trichloroethene, and 1,2-dichloroethane. EPA determined that only eight classical pollutants were pollutants of concern for this subcategory, and most of these were detected at lower concentrations than those found in the metals and oils subcategories.

The sampling detected a total of 25 metals/semi-metals above treatable levels, but these were present at concentrations significantly lower than in the metals subcategory. EPA's assessment showed that only five pollutant of concern metals/semi-metals (barium, calcium, iodine, lithium, and strontium) were detected at concentrations above those found in the oils subcategory.