Results: Emissions (lb/yr)

	C	D	E	F	G	H	I	J
Compound Name	DICHLORO 2-PROPANOL 1,3	ETHYL(2) HEXANOL	ACETONE	ACETOPHENONE	ACETONITRILE	ALLYL ALCOHOL	AMMONIA	BENZENE
Compound #	6	7	8	17	24	31	61	60
Wastewater Flow to Manhole #4 (gpm)	3,938	3,938	3,938	3,938	3,938	3,938	3,938	3,938
Conc. in DAF Effluent (mg/L)	0	0	10	1	2	1	0	0
Bz NESHAP Unit WW flow (gpm)	782	782	782	782	782	782	782	782
Bz NESHAP Unit WW conc. (mg/L)	10	0	6	5	1	1	11	10
CPI DD-2 WW flow (gpm)	180	180	180	180	180	180	180	180
CPI DD-2 oil flow (BBL/day))	9	9	9	9	9	9	9	9
CPI DD-2 water or oil conc. (mg/L)	0	0	10	1	2	1	0	0
CPI DD-2 water or oil (w/o)	w	w	w	w	w	w	w	w
CPI TC&G WW flow (gpm)	349	349	349	349	349	349	349	349
CPI TC&G oil flow (BBL/day))	10	10	10	10	10	10	10	10
CPI TC&G water or oil conc. (mg/L)	0	0	10	1	2	1	0	0
CPI TC&G water or oil (w/o)	w	w	w	w	w	w	w	w
CPI CCLP WW flow (gpm)	456	456	456	456	456	456	456	456
CPI CCLP oil flow (BBL/day))	14	14	14	14	14	14	14	14
CPI CCLP water or oil conc. (mg/L)	0	0	10	1	2	1	0	0
CPI CCLP water or oil (w/o)	w	w	w	w	w	w	w	w

CPI DD-2	0.00	0.00	0.12	0.00	0.01	0.00	0.00	0.04
CPI TC&G	0.00	0.00	0.20	0.00	0.02	0.00	0.00	0.06
CPI CCLP	0.00	0.00	0.16	0.00	0.01	0.00	0.00	0.05
Manhole #4	0.01	0.00	47.03	0.44	4.71	0.85	0.81	3.99
X-330 Sump	0.08	0.00	454.65	4.22	45.52	8.25	7.84	40.69
X-330 Equalization Tank	0.00	0.00	1.38	0.02	0.13	0.03	0.01	0.46
Flash Mixer	0.02	0.00	31.98	0.74	5.06	1.53	0.43	0.08
Floc Tank	0.14	0.00	252.64	5.59	39.29	11.53	3.39	0.66
DAF Units	0.80	0.00	1,719.61	33.32	254.79	64.05	32.28	16.42
Trickling Filter	8.72	0.00	51,926.98	1,656.61	2,276.24	2,088.14	279.18	262.50
Trickling Filter Sump	0.03	0.00	34.21	3.14	5.63	11.10	0.43	0.08
Aeration Basins	59.18	0.00	565.29	141.89	674.81	317.54	264.09	36.57
X-316 DAF Float	0.01	0.00	6.38	0.23	1.06	0.48	0.05	0.01
Totals (lbs/yr)	68.98	0.00	55,040.62	1,846.21	3,307.30	2,503.51	588.52	361.60
Totals (TPY)	0.03	0.00	27.52	0.92	1.65	1.25	0.29	0.18

CHECKS								

Aeration Basin Effluent conc. (mg/l)	0.08	0.00	0.03	0.03	0.06	0.09	0.01	0.00
Manhole #4 Inlet (mg/l)	0.06	0.00	9.66	0.52	1.66	1.10	0.06	0.02

Results: Emissions (lb/yr)

	K	L	M	N	O	P	Q	R
Compound Name	CHLOROFORM	CUMENE (isopropylbenzene)	METHYLENE CHLORIDE	EPICHLOROHYDRIN	ETHANOL	DICHLOROETHANE(1,2)	GLYCIDOL	ISOBUTYL ALCOHOL
Compound #	363	87	108	365	134	124	368	149
Wastewater Flow to Manhole #4 (gpm)	3,938	3,938	3,938	3,938	3,938	3,938	3,938	3,938
Conc. in DAF Effluent (mg/L)	0	1	1	0	1	0	0	0
Bz NESHAP Unit WW flow (gpm)	782	782	782	782	782	782	782	782
Bz NESHAP Unit WW conc. (mg/L)	0	1	1	0	8	4	0	0
CPI DD-2 WW flow (gpm)	180	180	180	180	180	180	180	180
CPI DD-2 oil flow (BBL/day))	9	9	9	9	9	9	9	9
CPI DD-2 water or oil conc. (mg/L)	0	1	1	0	1	0	0	0
CPI DD-2 water or oil (w/o)	w	w	w	w	w	w	w	w
CPI TC&G WW flow (gpm)	349	349	349	349	349	349	349	349
CPI TC&G oil flow (BBL/day))	10	10	10	10	10	10	10	10
CPI TC&G water or oil conc. (mg/L)	0	1	1	0	1	0	0	0
CPI TC&G water or oil (w/o)	w	w	w	w	w	w	w	w
CPI CCLP WW flow (gpm)	456	456	456	456	456	456	456	456
CPI CCLP oil flow (BBL/day))	14	14	14	14	14	14	14	14
CPI CCLP water or oil conc. (mg/L)	0	1	1	0	1	0	0	0
CPI CCLP water or oil (w/o)	w	w	w	w	w	w	w	w

CPI DD-2	0.00	5.01	0.71	0.00	0.00	0.01	0.00	0.00
CPI TC&G	0.00	8.00	1.17	0.00	0.00	0.01	0.00	0.00
CPI CCLP	0.00	5.52	0.94	0.00	0.00	0.01	0.00	0.00
Manhole #4	0.00	214.51	129.10	0.19	0.41	1.72	0.01	0.00
X-330 Sump	0.00	2,257.59	1,288.48	1.81	3.93	17.07	0.08	0.00
X-330 Equalization Tank	0.00	62.91	8.44	0.01	0.01	0.09	0.00	0.00
Flash Mixer	0.00	3.73	3.52	0.15	0.74	0.07	0.02	0.00
Floc Tank	0.00	30.40	28.63	1.17	5.57	0.56	0.15	0.00
DAF Units	0.00	1,493.95	500.68	7.97	31.10	7.94	0.79	0.00
Trickling Filter	0.00	13,307.54	10,075.10	261.55	324.02	230.08	7.86	0.00
Trickling Filter Sump	0.00	3.45	3.45	0.63	0.96	0.07	0.03	0.00
Aeration Basins	0.00	592.27	2,772.78	52.64	80.90	3,366.57	4.74	0.00
X-316 DAF Float	0.00	0.64	0.57	0.03	0.23	0.01	0.01	0.00
Totals (lbs/yr)	0.00	17,985.54	14,813.57	326.16	447.86	3,624.21	13.68	0.00
Totals (TPY)	0.00	8.99	7.41	0.16	0.22	1.81	0.01	0.00
CHECKS								

Aeration Basin Effluent conc. (mg/l)	0.00	0.00	0.00	0.00	0.02	0.01	0.01	0.00
Manhole #4 Inlet (mg/l)	0.00	1.15	0.87	0.05	0.52	0.02	0.07	0.00

Results: Emissions (lb/yr)

To Main Menu

Compound Name	PROPANOL ISO	PROPYL ETHER ISO	METHANOL	METHYL ETHYL KETONE	METHYL ISOBUTYL KETONE	BUTANOL-1	PHENOL	BUTANOL-s (sec-butyl alcohol; 2-butanol)
	T	U	V	W	X	Y	Z	
Compound #	171	173	182	191	201	378	222	364
Wastewater Flow to Manhole #4 (gpm)	3,938	3,938	3,938	3,938	3,938	3,938	3,938	3,938
Conc. in DAF Effluent (mg/L)	2	0	4	0	0	0	6	0
Bz NESHAP Unit WW flow (gpm)	782	782	782	782	782	782	782	782
Bz NESHAP Unit WW conc. (mg/L)	8	0	18	14	1	0	3	3
CPI DD-2 WW flow (gpm)	180	180	180	180	180	180	180	180
CPI DD-2 oil flow (BBL/day))	9	9	9	9	9	9	9	9
CPI DD-2 water or oil conc. (mg/L)	2	0	4	0	0	0	6	0
CPI DD-2 water or oil (w/o)	w	w	w	w	w	w	w	w
CPI TC&G WW flow (gpm)	349	349	349	349	349	349	349	349
CPI TC&G oil flow (BBL/day))	10	10	10	10	10	10	10	10
CPI TC&G water or oil conc. (mg/L)	2	0	4	0	0	0	6	0
CPI TC&G water or oil (w/o)	w	w	w	w	w	w	w	w
CPI CCLP WW flow (gpm)	456	456	456	456	456	456	456	456
CPI CCLP oil flow (BBL/day))	14	14	14	14	14	14	14	14
CPI CCLP water or oil conc. (mg/L)	2	0	4	0	0	0	6	0
CPI CCLP water or oil (w/o)	w	w	w	w	w	w	w	w

CPI DD-2	0.01	0.04	0.01	0.03	0.02	0.00	0.00	0.00
CPI TC&G	0.01	0.06	0.02	0.05	0.03	0.00	0.00	0.00
CPI CCLP	0.01	0.05	0.01	0.04	0.02	0.00	0.00	0.00
Manhole #4	2.01	6.51	4.93	9.23	4.39	0.00	0.31	0.07
X-330 Sump	19.43	65.20	47.59	89.71	43.05	0.00	2.98	0.64
X-330 Equalization Tank	0.07	0.46	0.13	0.39	0.21	0.00	0.01	0.00
Flash Mixer	3.30	0.21	7.99	1.47	0.40	0.00	0.78	0.10
Floc Tank	25.01	1.73	60.58	11.90	3.28	0.00	5.68	0.74
DAF Units	142.64	28.34	347.51	122.39	37.03	0.00	30.12	4.26
Trickling Filter	1,292.76	663.16	2,309.98	4,734.41	1,524.43	0.00	60.85	61.06
Trickling Filter Sump	4.21	0.21	9.74	1.48	0.40	0.00	1.48	0.12
Aeration Basins	1,211.71	232.52	1,079.54	5,776.29	21.99	0.00	0.45	419.84
X-316 DAF Float	0.97	0.04	2.15	0.26	0.07	0.00	0.39	0.03
Totals (lbs/yr)	2,702.14	998.51	3,870.18	10,747.66	1,635.33	0.00	103.05	486.85
Totals (TPY)	1.35	0.50	1.94	5.37	0.82	0.00	0.05	0.24
CHECKS								

Aeration Basin Effluent conc. (mg/l)	0.26	0.00	0.21	0.06	0.00	0.00	0.00	0.07
Manhole #4 Inlet (mg/l)	2.07	0.06	4.10	0.38	0.11	0.00	6.03	0.05

Results: Emissions (lb/yr)

To Main Menu

	AA	AB		AD	AE	AF	AG	AH
Compound Name	TOLUENE	TRICHLOROPROPANE(1,2,3)	PROPANOL	PENTANES [n-pentane]	PENTANES [isopentane]	HEXANE(-n)	HEXANE(-n) [C6 saturates (non-hexane)]	HEPTANE(-n) [C7 Saturates]
Compound #	228	234	367	239	245	279	296	297
Wastewater Flow to Manhole #4 (gpm)	3,938	3,938	3,938	3,938	3,938	3,938	3,938	3,938
Conc. in DAF Effluent (mg/L)	0	0	0	0	0	0	0	0
Bz NESHAP Unit WW flow (gpm)	782	782	782	782	782	782	782	782
Bz NESHAP Unit WW conc. (mg/L)	9	0	25	0	0	0	0	0
CPI DD-2 WW flow (gpm)	180	180	180	180	180	180	180	180
CPI DD-2 oil flow (BBL/day))	9	9	9	9	9	9	9	9
CPI DD-2 water or oil conc. (mg/L)	0	0	0	0	0	0	0	0
CPI DD-2 water or oil (w/o)	w	w	w	w	w	w	w	w
CPI TC&G WW flow (gpm)	349	349	349	349	349	349	349	349
CPI TC&G oil flow (BBL/day))	10	10	10	10	10	10	10	10
CPI TC&G water or oil conc. (mg/L)	0	0	0	0	0	0	0	0
CPI TC&G water or oil (w/o)	w	w	w	w	w	w	w	w
CPI CCLP WW flow (gpm)	456	456	456	456	456	456	456	456
CPI CCLP oil flow (BBL/day))	14	14	14	14	14	14	14	14
CPI CCLP water or oil conc. (mg/L)	0	0	0	0	0	0	0	0
CPI CCLP water or oil (w/o)	w	w	w	w	w	w	w	w

CPI DD-2	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CPI TC&G	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CPI CCLP	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manhole #4	10.82	0.00	0.67	0.00	0.00	0.00	0.00	0.00
X-330 Sump	111.50	0.00	6.48	0.00	0.00	0.00	0.00	0.01
X-330 Equalization Tank	1.46	0.00	0.02	0.00	0.00	0.01	0.01	0.02
Flash Mixer	0.21	0.00	0.88	0.00	0.00	0.00	0.00	0.00
Floc Tank	1.72	0.00	6.75	0.00	0.00	0.00	0.00	0.00
DAF Units	47.43	0.00	37.51	0.00	0.00	0.01	0.01	0.02
Trickling Filter	653.80	0.00	352.94	0.00	0.00	0.00	0.00	0.00
Trickling Filter Sump	0.20	0.00	1.08	0.00	0.00	0.00	0.00	0.00
Aeration Basins	19.73	0.00	2,103.09	0.00	0.00	0.00	0.00	0.00
X-316 DAF Float	0.04	0.00	0.22	0.00	0.00	0.00	0.00	0.00
Totals (lbs/yr)	847.38	0.00	2,509.64	0.00	0.00	0.03	0.03	0.05
Totals (TPY)	0.42	0.00	1.25	0.00	0.00	0.00	0.00	0.00
CHECKS								

Aeration Basin Effluent conc. (mg/l)	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00
Manhole #4 Inlet (mg/l)	0.06	0.00	0.39	0.00	0.00	0.00	0.00	0.00

Results: Emissions (lb/yr)

To Main Menu

	AI	AJ	AK	AL	AN	AO	AP
Compound Name	OCTANE [C8 saturates]	C9+ ALKANES	C9 AROMATICS	ETHYLBENZENE	METHYL-TERT-BUTYL ETHER	XYLENE(-o)	BUTANE	DICHLORO PROPANOL 2,3
Compound #	301	329	349	45	190	391	392	
Wastewater Flow to Manhole #4 (gpm)	3,938	3,938	3,938	3,938	3,938	3,938	3,938	3,938
Conc. in DAF Effluent (mg/L)	0	0	0	0	0	0	0	1
Bz NESHAP Unit WW flow (gpm)	782	782	782	782	782	782	782	782
Bz NESHAP Unit WW conc. (mg/L)	0	0	0	0	1	0	0	24
CPI DD-2 WW flow (gpm)	180	180	180	180	180	180	180	180
CPI DD-2 oil flow (BBL/day))	9	9	9	9	9	9	9	9
CPI DD-2 water or oil conc. (mg/L)	0	0	0	0	0	0	0	1
CPI DD-2 water or oil (w/o)	w	w	w	w	w	w	w	w
CPI TC&G WW flow (gpm)	349	349	349	349	349	349	349	349
CPI TC&G oil flow (BBL/day))	10	10	10	10	10	10	10	10
CPI TC&G water or oil conc. (mg/L)	0	0	0	0	0	0	0	1
CPI TC&G water or oil (w/o)	w	w	w	w	w	w	w	w
CPI CCLP WW flow (gpm)	456	456	456	456	456	456	456	456
CPI CCLP oil flow (BBL/day))	14	14	14	14	14	14	14	14
CPI CCLP water or oil conc. (mg/L)	0	0	0	0	0	0	0	1
CPI CCLP water or oil (w/o)	w	w	w	w	w	w	w	w

CPI DD-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
CPI TC&G	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
CPI CCLP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Manhole #4	0.00	0.00	0.00	0.00	0.10	0.00	0.00	1.23
X-330 Sump	0.02	0.01	0.00	0.00	1.03	0.00	0.00	11.85
X-330 Equalization Tank	0.06	0.02	0.00	0.00	0.01	0.00	0.00	0.07
Flash Mixer	0.00	0.00	0.00	0.00	0.01	0.00	0.00	1.50
Floc Tank	0.00	0.00	0.00	0.00	0.06	0.00	0.00	11.56
DAF Units	0.04	0.03	0.00	0.00	0.74	0.00	0.01	79.20
Trickling Filter	0.00	0.00	0.00	0.00	26.24	0.00	0.00	1,369.72
Trickling Filter Sump	0.00	0.00	0.00	0.00	0.01	0.00	0.00	1.92
Aeration Basins	0.00	0.00	0.00	0.00	332.95	0.00	0.00	1,820.57
X-316 DAF Float	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37
Totals (lbs/yr)	0.12	0.06	0.00	0.00	361.15	0.00	0.01	3,298.02
Totals (TPY)	0.00	0.00	0.00	0.00	0.18	0.00	0.00	1.65
CHECKS								

Aeration Basin Effluent conc. (mg/l)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18
Manhole #4 Inlet (mg/l)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67

Results: Emissions (lb/yr)	AQ	AR	AS	AT	AU	AV	AW	AX
Compound Name	DIACETONE ALCOHOL	hydroxyacetone (hydroxy DMK)	MESITYL OXIDE	METHYL ISOBUTYL CARBINOL	BUTYRALDEHYDE	CYCLOHEXANE [C6 Napthenes]	METHYL CYCLOHEXANE [C7 Naphthenes]	Hexylene Glycol
Compound #								
Wastewater Flow to Manhole #4 (gpm)	3,938	3,938	3,938	3,938	3,938	3,938	3,938	3,938
Conc. in DAF Effluent (mg/L)	0	0	0	0	0	0	0	8
Bz NESHAP Unit WW flow (gpm)	782	782	782	782	782	782	782	782
Bz NESHAP Unit WW conc. (mg/L)	0	0	1	0	0	0	0	4
CPI DD-2 WW flow (gpm)	180	180	180	180	180	180	180	180
CPI DD-2 oil flow (BBL/day))	9	9	9	9	9	9	9	9
CPI DD-2 water or oil conc. (mg/L)	0	0	0	0	0	0	0	8
CPI DD-2 water or oil (w/o)	w	w	w	w	w	w	w	w
CPI TC&G WW flow (gpm)	349	349	349	349	349	349	349	349
CPI TC&G oil flow (BBL/day))	10	10	10	10	10	10	10	10
CPI TC&G water or oil conc. (mg/L)	0	0	0	0	0	0	0	8
CPI TC&G water or oil (w/o)	w	w	w	w	w	w	w	w
CPI CCLP WW flow (gpm)	456	456	456	456	456	456	456	456
CPI CCLP oil flow (BBL/day))	14	14	14	14	14	14	14	14
CPI CCLP water or oil conc. (mg/L)	0	0	0	0	0	0	0	8
CPI CCLP water or oil (w/o)	w	w	w	w	w	w	w	w

CPI DD-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CPI TC&G	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CPI CCLP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manhole #4	0.00	0.00	0.23	0.24	0.00	0.00	0.00	0.00
X-330 Sump	0.01	0.02	2.25	2.28	0.00	0.00	0.00	0.00
X-330 Equalization Tank	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00
Flash Mixer	0.00	0.00	0.15	0.14	0.00	0.00	0.00	0.00
Floc Tank	0.01	0.03	1.16	1.15	0.00	0.00	0.00	0.00
DAF Units	0.07	0.18	8.16	8.06	0.00	0.00	0.00	0.01
Trickling Filter	1.49	3.31	122.95	539.72	0.00	0.00	0.00	1.47
Trickling Filter Sump	0.00	0.01	0.16	0.17	0.00	0.00	0.00	0.00
Aeration Basins	0.01	0.18	11.48	0.29	0.00	0.00	0.00	0.29
X-316 DAF Float	0.00	0.00	0.03	0.03	0.00	0.00	0.00	0.00
Totals (lbs/yr)	1.59	3.74	146.59	552.09	0.00	0.00	0.00	1.78
Totals (TPY)	0.00	0.00	0.07	0.28	0.00	0.00	0.00	0.00
CHECKS								

Aeration Basin Effluent conc. (mg/l)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.99
Manhole #4 Inlet (mg/l)	0.07	0.05	0.05	0.05	0.00	0.00	0.00	7.57

Compounds for which no analysis were shown in 2009 for either the DAF, IGF or X330. Utilized 0.0000001 ppm in model

Compound Number	Compound Name
190	ETHYL(2) HEXANOL
384	PENTANES [n-pentane]
384	PENTANES [isopentane]
210	HEXANE(-n)
210	HEXANE(-n) [C6 saturates (non-hexane)]
204	HEPTANE(-n) [C7 Saturates]
266	OCTANE [C8 saturates]
383	C9+ ALKANES
382	C9 AROMATICS
182	ETHYLBENZENE
361	XYLENE(-o)
381	BUTANE
363	BUTYRALDEHYDE
113	CYCLOHEXANE [C6 Napthenes]
233	METHYL CYCLOHEXANE [C7 Naphthenes]

Chemical Compound	Comp. #	Chemsets 99 Name	1/2 MDL
1,2 Dichlorohydrin	125	Dichloro Propanol 2,3	0.05
1,3 Dichlorohydrin	124	Dichloro 2-Propanol 1,3	0.05
2-Ethyl Hexanol	190	Ethyl (2) Hexanol	0.05
Acetonitrile	7	Acetonitrile	0.05
Acetophenone	8	Acetophenone	0.05
Allyl Alcohol	17	Allyl Alcohol	0.05
Benzene	31	Benzene	0.005
Chloroform	87	Chloroform	0.05
Cumene	108	Cumene	0.7
DMK/Iso Butyl Aldehyde	6	Acetone	0.05
Diacetone Alcohol	365	Diacetone Alcohol	0.05
Dichloromethane	245	Methylene Chloride	0.7
Epichlorohydrin	171	Epichlorohydrin	0.05
Ethyl Alcohol	173	Ethanol	0.05
Ethylene Dichloride	134	Dichloroethane (1,2)	0.005
Glycidol	201	Glycidol	0.05
Hexylene Glycol	392	Hexylene Glycol	0.05
Hydroxyacetone	378	hydroxyacetone (hydroxy DMK)	0.05
Isobutyl Alcohol|PPM	222	Isobutyl Alcohol|PPM	0.05
Isopropyl Alcohol	297	Propanol ISO	0.05
Isopropyl Ether	301	Propyl Ether Iso	0.05
Mesityl Oxide	364	Mesityl Oxide	0.05
Methyl Alcohol	228	Methanol	0.05
Methyl Ethyl Ketone	234	Methyl Ethyl Ketone	0.05
Methyl Isobutyl Carbinol	367	Methyl Isobutyl Carbinol	0.05
Methyl Isobutyl Ketone	239	Methyl Isobutyl Ketone	0.05
Normal Butyl Alcohol|PPM	60	Normal Butyl Alcohol|PPM	0.05
Normal Butyl Aldehyde|PPM	363	Normal Butyl Aldehyde|PPM	0.05
Normal Propanol	296	Propanol	0.05
Phenol	279	Phenol	0.05
Secondary Butyl Alcohol	61	Butanol(s)	0.05
Toluene	329	Toluene	0.05
Trichloropropane	349	Trichloropropane (1,2,3)	0.05

Analysis shown for benzene and ethylene dic

IGF Effluent				DAF Effluent			
Average	# of Analysis	Min	Max	Average	# of Analysis	Min	Max
23.76	231	0.05	1055.00	0.66	126	0.05	58.00
9.93	230	0.05	86.00	0.06	126	0.05	1.00
0.0000001	1			0.0000001	1		
1.48	249	0.05	6.00	1.64	217	0.05	5.00
5.39	230	0.05	18.00	0.52	129	0.05	10.00
1.13	230	0.05	14.00	1.09	135	0.05	10.00
9.73	257	3.21	24.80	0.018	52		
0.0000001	Per SDPR Personnel, does not occur in DAF refinery wastewater (NET).			0.0000001	Per SDPR Personnel, does not occur in DAF refinery wastewater (NET).		
1.20	230	0.70	4.00	0.91	129	0.70	13.00
5.77	256	0.05	123.00	9.52	240	0.05	81.00
0.06	230	0.05	1.00	0.07	125	0.05	2.00
0.99	231	0.70	4.00	0.75	126	0.70	5.00
0.08	231	0.05	6.00	0.05	124	0.05	0.05
7.64	250	0.05	131.00	0.52	127	0.05	10.00
4.30	230	0.005	23.50	0.016	52		
0.27	230	0.05	2.00	0.07	126	0.05	2.00
4.06	253	0.05	53.00	7.57	124	0.05	16.00
0.39	230	0.05	4.00	0.05	124	0.05	0.05
0.0000001	1			0.0000001	1		
7.88	257	0.05	37.00	2.05	162	0.05	27.00
0.29	231	0.05	3.00	0.05	124	0.05	0.05
0.91	230	0.05	18.00	0.05	124	0.05	0.05
17.71	257	0.05	116.00	4.07	165	0.05	26.00
13.66	257	0.05	101.00	0.36	136	0.05	6.00
0.05	230	0.05	0.05	0.05	126	0.05	0.05
0.83	230	0.05	27.00	0.11	126	0.05	7.00
0.0000001	1			0.0000001	1		
0.0000001	1			0.0000001	1		
24.52	249	0.05	1330.00	0.39	125	0.05	2.00
2.82	257	0.05	59.00	6.03	209	0.05	33.00
3.40	257	0.05	18.00	0.05	124	0.05	0.05
8.87	257	0.05	38.00	0.05	124	0.05	0.05
0.0000001	Per SDPR Personnel, does not occur in DAF refinery wastewater (NET).			0.0000001	Per SDPR Personnel, does not occur in DAF refinery wastewater (NET).		

:hloride at DAF is analysis done at X-330

Compound Name	Total Influent Loading	Yearly Air Emissions	Discharge in Plant Effluent	Annual Abated
	Pounds/Year			
DICHLORO 2-PROPANOL 1,3	35,002.46	68.98	1,554.82	33,378.67
ETHYL(2) HEXANOL	0.00	0.00	0.00	0.00
ACETONE	186,440.38	55,040.62	610.93	130,788.83
ACETOPHENONE	27,482.25	1,846.21	647.50	24,988.54
ACETONITRILE	33,668.76	3,307.30	1,200.96	29,160.49
ALLYL ALCOHOL	22,788.74	2,503.51	1,870.03	18,415.20
AMMONIA	37,569.83	588.52	115.17	36,866.15
BENZENE	33,696.37	361.60	1.02	33,333.75
CHLOROFORM	0.00	0.00	0.00	0.00
CUMENE (isopropylbenzene)	23,871.82	17,985.54	13.75	5,872.54
METHYLENE CHLORIDE	18,314.38	14,813.57	99.29	3,401.52
EPICHLOROHYDRIN	1,133.30	326.16	83.17	723.98
ETHANOL	35,218.61	447.86	477.00	34,293.75
DICHLOROETHANE(1,2)	15,047.07	3,624.21	182.37	11,240.50
GLYCIDOL	2,042.16	13.68	152.83	1,875.65
ISOBUTYL ALCOHOL	0.00	0.00	0.00	0.00
PROPANOL ISO	62,625.33	2,702.14	5,469.31	54,453.88
PROPYL ETHER ISO	1,966.86	998.51	10.32	958.03
METHANOL	131,311.88	3,870.18	4,375.79	123,065.92
METHYL ETHYL KETONE	53,264.97	10,747.66	1,190.06	41,327.25

METHYL ISOBUTYL KETONE	4,745.45	1,635.33	2.68	3,107.44
BUTANOL-1	0.00	0.00	0.00	0.00
PHENOL	113,705.26	103.05	31.46	113,570.75
BUTANOL-s (sec-butyl alcoho	12,513.68	486.85	1,434.50	10,592.33
TOLUENE	31,422.79	847.38	0.54	30,574.87
TRICHLOROPROPANE(1,2,3)	0.00	0.00	0.00	0.00
PROPANOL	90,791.21	2,509.64	5,992.79	82,288.77
PENTANES [n-pentane]	0.00	0.00	0.00	0.00
PENTANES [isopentane]	0.00	0.00	0.00	0.00
HEXANE(-n)	0.03	0.03	0.00	0.00
HEXANE(-n) [C6 saturates (n	0.03	0.03	0.00	0.00
HEPTANE(-n) [C7 Saturates]	0.05	0.05	0.00	0.00
OCTANE [C8 saturates]	0.12	0.12	0.00	0.00
C9+ ALKANES	0.06	0.06	0.00	0.00
C9 AROMATICS	0.00	0.00	0.00	0.00
ETHYLBENZENE	0.00	0.00	0.00	0.00
METHYL-TERT-BUTYL ETHER	2,070.82	361.15	31.77	1,677.91
XYLENE(-o)	0.00	0.00	0.00	0.00
BUTANE	0.01	0.01	0.00	0.00
DICHLORO PROPANOL 2,3	92,886.83	3,298.02	3,634.08	85,954.73
DIACETONE ALCOHOL	1,476.36	1.59	5.86	1,468.91
hydroxyacetone (hydroxy DM	2,210.35	3.74	20.38	2,186.23
MESITYL OXIDE	3,985.91	146.59	11.43	3,827.88
METHYL ISOBUTYL CARBINO	1,045.51	552.09	0.27	493.15
BUTYRALDEHYDE	0.00	0.00	0.00	0.00
CYCLOHEXANE [C6 Napthene	0.00	0.00	0.00	0.00
METHYL CYCLOHEXANE [C7 N	0.00	0.00	0.00	0.00
Hexylene Glycol	144,512.40	1.78	144,508.83	1.80
TOTAL	1,222,812	129,194	173,729	919,889

Aeration Basin Effluent		Manhole 4 Influent		Bezene Waste NESHAP Header		
				E		
Conc (mg/L)	gpm	Conc (mg/L)	Flow, gpm	Conc (mg/L)	gpm	
0.08	4,720	0.06	3,938	9.93	782	10
0.00		0.00		0.00		11
0.03		9.66		5.77		12
0.03		0.52		5.39		13
0.06		1.66		1.48		14
0.09		1.10		1.13		15
0.01		0.06		10.69		16
0.00		0.02		9.73		17
0.00		0.00		0.00		18
0.00		1.15		1.20		19
0.00		0.87		0.99		20
0.00		0.05		0.08		21
0.02		0.52		7.64		22
0.01		0.02		4.30		23
0.01		0.07		0.27		24
0.00		0.00		0.00		25
0.26		2.07		7.88		26
0.00		0.06		0.29		27
0.21		4.10		17.71		28
0.06		0.38		13.66		29

	0.00		0.11		0.83		30
	0.00		0.00		0.00		31
	0.00		6.03		2.82		32
	0.07		0.05		3.40		33
	0.00		0.06		8.87		34
	0.00		0.00		0.00		35
	0.29		0.39		24.52		36
	0.00		0.00		0.00		37
	0.00		0.00		0.00		38
	0.00		0.00		0.00		39
	0.00		0.00		0.00		40
	0.00		0.00		0.00		41
	0.00		0.00		0.00		42
	0.00		0.00		0.00		43
	0.00		0.00		0.00		44
	0.00		0.00		0.00		45
	0.00		0.00		0.60		46
	0.00		0.00		0.00		47
	0.00		0.00		0.00		48
	0.18		0.67		23.76		49
	0.00		0.07		0.06		50
	0.00		0.05		0.39		51
	0.00		0.05		0.91		52
	0.00		0.05		0.05		53
	0.00		0.00		0.00		54
	0.00		0.00		0.00		55
	0.00		0.00		0.00		56
	6.99		7.57		4.06		57
Checks							

Table 2. Air Emissions Comparison of Years 2005 to 2009

Compounds Name	2005 Emission	2006 Emission	2007 Emission	2008 Emission	2009 Emission
	Pounds per year	Pounds per year	Pounds per year	Pounds per year	Pounds per year
	Utilized 1/2 Method Detection Limit (MDL) for non-detect and less than MDL sample analysis				
DICHLORO 2-PROPANOL 1,3	17	95	137	84	68.98
ETHYL(2) HEXANOL	0	0	0	0	0.00
ACETONE	39,710	37,069	43,777	37,036	55,040.62
ACETOPHENONE	168	423	171	1,906	1,846.21
ACETONITRILE	2,637	1,923	3,698	2,908	3,307.30
ALLYL ALCOHOL	107	114	199	955	2,503.51
AMMONIA	1,307	1,683	1,166	809	588.52
BENZENE	3,951	1,537	934	610	361.60
CHLOROFORM	8,183	10,323	5	5	0.00
CUMENE (isopropylbenzene)	8,032	1,736	9,074	15,610	17,985.54
METHYLENE CHLORIDE	17,796	13,850	3,109	20,459	14,813.57
EPICHLOROHYDRIN	307	297	366	2,492	326.16
ETHANOL	598	537	2,091	589	447.86
DICHLOROETHANE(1,2)	1,081	88	3,260	702	3,624.21
GYLCIDOL	14	8	11	70	13.68
ISOBUTYL ALCOHOL	0	0	0	0	0.00
PROPANOL ISO	3,064	3,211	3,706	1,948	2,702.14
PROPYL ETHER ISO	3,436	1,235	4,776	6,783	998.51
METHANOL	8,618	2,652	5,106	2,474	3,870.18
METHYL ETHYL KETONE	6,163	9,104	6,132	7,250	10,747.66
METHYL ISOBUTYL KETONE	667	768	1,194	6,636	1,635.33
BUTANOL-1	0	0	0	0	0.00
PHENOL	21	40	121	80	103.05
BUTANOL(S)	474	518	938	835	486.85

TOLUENE	747	5,061	20,673	9,029	847.38
TRICHLOROPROPANE(1,2,3)	148	435	0	0	0.00
PROPANOL	323	6,945	385	2,326	2,509.64
PENTANES	0	0	0	0	0.00
PENTANES	0	0	0	0	0.00
HEXANE(-n)	0	0	0	0	0.03
HEXANE(-n)	0	0	0	0	0.03
HEPTANE(-n)	0	0	0	0	0.05
OCTANE	0	0	0	0	0.12
C9+ ALKANES	0	0	0	0	0.06
C9 AROMATICS	0	0	0	0	0.00
ETHYLBENZENE	0	0	0	0	0.00
METHYL-TERT-BUTYL ETHER	27,481	33,715	30,707	312	361.15
XYLENE(-o)	0	0	0	0	0.00
BUTANE	0	0	0	0	0.01
DICHLORO PROPANOL 2,3	107	404	615	4,590	3,298.02
DIACETONE ALCOHOL	1	1	4	8	1.59
hydroxyacetone (hydroxy DMK)	4	11	5	30	3.74
MESITYL OXIDE	117	121	145	1,117	146.59
METHYL ISOBUTYL CARBINOL	480	497	580	4,439	552.09
BUTYRALDEHYDE	0	0	0	0	0.00
CYCLOHEXANE	0	0	0	0	0.00
METHYL CYCLOHEXANE	0	0	0	0	0.00
HEXYLENE GLYCOL	0.067	0.2	0	0	1.78
Totals:	**135,758**	**134,400**	**143,086**	**158,492**	**129,223**

NOTE: 2009 MTBE Emissions revised based upon samples taken at DAF & IGF on June 10, 2009.

Change in emissions from 2008 to 2009

-15
0
18,005
-60
399
1,549
-221
-248
-5
2,376
-5,645
-2,165
-141
2,922
-56
0
754
-5,785
1,396
3,497
-5,000
0
23
-348

-8,181
0
183
0
0
0
0
0
0
0
0
0
49
0
0
-1,292
-7
-26
-970
-3,887
0
0
0
2
-29,269