USS Clairton Works
Total Annual Benzene (TAB) - 1997
Waste Stream Listing

Waste No.	Waste Stream	Controlled Y/N	Water Content >10% Y/N	Waste Stream Type Code	Annual Waste Quantity (gal)	Range of Benzene Concentration (ppm)	Annual Flow Weighted Avg. Benz. Conc.(ppm)	Annual BQ (Mg)	TAB Component Y/N
1	#1 Unit #1 Tar Decanter Sludge	N	Y	F	57728	80 - 420	185.0	0.040	Y
2	#1 Unit #2 Tar Decanter Sludge	N	Y	F	57728	80 - 420	185.0	0.040	Y
3	#1 Unit #3 Tar Decanter Sludge	N	Y	F	57728	67 - 330	164.3	0.036	Y
4	#1 Unit #4 Tar Decanter Sludge	N	Y	F	57728	67 - 330	164.3	0.036	Y
5	#1 Unit #5 Tar Decanter Sludge	N	Y	F	57728	3.5 - 180	59.0	0.013	Y
6	#1 Unit #6 Tar Decanter Sludge	N	Y	F	57728	3.5 - 180	59.0	0.013	Y
7	#1 Unit #7 Tar Decanter Sludge	N	Y	F	57728	6 - 8.6	6.9	0.001	Y
8	#1 Unit #8 Tar Decanter Sludge	N	Y	F	57728	6 - 8.6	6.9	0.001	Y
9	#1 Unit #9 Tar Decanter Sludge	N	Y	F	57728	8.2 - 14	12.4	0.003	Y
10	#1 Unit #10 Tar Decanter Sludge	N	Y	F	57728	8.2 - 14	12.4	0.003	Y
11	#1 Unit #11 Tar Decanter Sludge	N	Y	F	0	Down	ND	0	Y
12	#1 Unit #12 Tar Decanter Sludge	N	Y	F	0	Down	ND	0	Y
13	#2 Unit #1 Tar Decanter Sludge	N	Y	F	57728	19 - 35	28.0	0.006	Y
14	#2 Unit #2 Tar Decanter Sludge	N	Y	F	57728	19 - 35	28.0	0.006	Y
15	#2 Unit #3 Tar Decanter Sludge	N	Y	F	0	Down	ND	0	Y
16	#2 Unit #4 Tar Decanter Sludge	N	Y	F	0	Down	ND	0	Y
17	#2 Unit #5 Tar Decanter Sludge	N	Y	F	57728	11 - 300	111.7	0.024	Y
18	#2 Unit #6 Tar Decanter Sludge	N	Y	F	57728	11 - 300	111.7	0.024	Y
19	#2 Unit #7 Tar Decanter Sludge	N	Y	F	57728	58 - 880	522.5	0.113	Y
20	#2 Unit #8 Tar Decanter Sludge	N	Y	F	57728	58 - 880	522.5	0.113	Y
21	#2 Unit #11 Tar Decanter Sludge	N	Y	F	57728	140 - 290	376.7	0.082	Y
22	#2 Unit #12 Tar Decanter Sludge	N	Y	F	57728	140 - 290	376.7	0.082	Y
	Average Tar Decanter Sludge	**No**	**Y**	**F**	**1039099**	**3.5 - 880**	**161.6**	**0.63**	**Y**
23	Phosam Tar Unit Sludge	No	Y	F	12433	0 - 14	7.9	0.000	Y
24	T-1 Sludge	N	Y	F	22195	0 - 14	7.9	0.001	Y
25	T-2 Sludge	N	Y	F	27732	10 - 20	15	0.002	Y
26	Pitch Traps	N	Y	F	9435	150 - 13000	3614.0	0.128	Y
27	By-Product Spills	N	Y	F	0	2.37-6.41	4.7	0.000	Y
28	Drains	N	Y	F	907	2.37-6.42	5.7	0.000	Y
29	1-3 Decanters	N	Y	F	2607	3.5 - 880	161.5	0.002	Y
30	7-9 Decanters	N	Y	F	10240	3.5 - 880	161.5	0.006	Y
31	Bad Boxes- Clean Ups	N	Y	F	12156	ND	161.5	0.007	Y
32	Vacuum Truck Wastes	N	Y	F	112254	0-20	10	0.004	Y
	All Other Sludge To AKJ Average	**No**	**Y**	**F**	**209959**	**0 - 13000**	**161.6**	**0.150**	**Y**

*Y - Hard piped to Subpart I. Controls;
ND - Not Determined

ED_002508A_00001316-00001

USS Clairton Works
Total Annual Benzene (TAB) - 1997
Waste Stream Listing

Waste No.	Waste Stream	Controlled Y/N	Water Content >10% Y/N	Waste Stream Type Code	Annual Waste Quantity (gal)	Range of Benzene Concentration (ppm)	Annual Flow Weighted Avg. Benz. Conc.(ppm)	Annual BQ (Mg)	TAB Component Y/N
33	Lube Oil Water Removal #1 C.R.	N	Y	B	3650	0.028 - 0.13	0.071	0.000	Y
34	Lube Oil Water Removal #2 C.R.	N	Y	B	3650	0.028 - 0.13	0.071	0.000	Y
35	Lube Oil Water Removal #5 C.R.	N	Y	B	3650	0.028 - 0.13	0.071	0.000	Y
	Lube Oil Systems	**No**	**Y**		**10950**	**0.028 - 0.13**	**0.071**	**0.000**	**Y**
36	100 - Vac.Carbonate Unit Rich Solution	N	Y	E	525600	10 - 14	11.7	0.02	Y
37	100 - Vac. Carbonate Unit Lean Solution	*Y	Y	E	13140000	0.58 - 1.1	0.80	0.04	N
38	600 - Vac.Carbonate Unit Rich Solution	N	Y	E	525600	1.9 - 11	5.00	0.01	Y
39	601 - Vac.Carbonate Unit Lean Solution	*Y	Y	E	13140000	7.4 - 9.8	8.30	0.41	N
	Vacuum Carbonate Systems	***Y/N**			**1051200**	**1.9 - 14**	**8.35**	**0.03**	**Y**
40	SCOT Unit Quench Column Blowdown	*Y	Y	A	6832800	.04 - .13	0.080	0.00	N
41	SCOT Unit Condensate Blowdown - 301F	*Y	Y	A	5256000	0.028 - 0.16	0.099	0.00	N
	SCOT Unit Systems	*Y			12088800	0.028 - 0.16	0.090	0.00	N
42	#1 U.F. Bleeder Stack Sump	N	Y	A	2628000	0 - .034	0.01	0.00	Y
43	#1 U.F. Bleeder Stack Sumps @ PC	N	Y	A	8935	0 - .325	0.1	0.00	Y
44	#2 U.F. Bleeder Stack Sump	N	Y	A	43625	2.3 - 2.6	2.4	0.00	Y
	Underfiring Bleeder Stacks	**N**	**Y**	**A**	**2680560**	0 - 0.325	**0.05**	**0.00**	**Y**
45	Phosam Fractionator Bottoms	*Y	Y	E	52034400	.00028 - .53	0.185	0.036	N
46	#1 Unit COG Suction Main Condensate Drip #1	N	Y	A	552931.2	21 - 25	23.0	0.05	Y
47	#1 Unit COG Suction Main Condensate Drip #2	N	Y	A	552931.2	21 - 25	23.0	0.05	Y
48	#1 Unit COG Suction Main Condensate Drip #3	*Y	Y	A	471463.2	21 - 25	23.0	0.04	N
49	#1 Unit COG Suction Main Condensate Drip #4	*Y	Y	A	283298.4	21 - 25	23.0	0.02	N
50	#2 Unit COG Suction Main Condensate Drip #5	*Y	Y	A	333756	25 - 73	48.7	0.06	N
51	#2 Unit COG Suction Main Condensate Drip #6	*Y	Y	A	333756	25 - 73	48.7	0.06	N
52	Phosam Absorber Bottoms - Drip #7	N	Y	A	305373.6	25 - 73	48.7	0.06	Y
53	Phosam Absorber Bottoms - Drip #8	N	Y	A	305373.6	25 - 73	48.7	0.06	Y
54	Phosam Absorber Bottoms - Drip #9	N	Y	A	305373.6	25 - 73	48.7	0.06	Y
55	Phosam Absorber Outlet - Drip #10	*Y	Y	A	471463.2	21 - 25	23.0	0.04	N
56	Phosam Absorber Outlet - Drip #11	*Y	Y	A	471463.2	7.9 - 13	23.0	0.04	N
57	Phosam Absorber Outlet - Drip #12	*Y	Y	A	471463.2	30 - 54	23.0	0.04	N
58	#1 Unit COG Condensate Drip #13 - Raw Gas	N	Y	A	0	25 - 73	48.7	0.00	Y
59	#1 Unit COG Condensate Drip #14 - Raw Gas	N	Y	A	0	25 - 73	48.7	0.00	Y
60	#1 Unit COG Condensate Drip #15 - Sub Gas	N	Y	A	0	*Design	1.0	0.00	Y
61	#1 Unit COG Condensate Drip #16 - DR	N	Y	A	508780.8	*Design	1.0	0.00	Y

*Y - Hard piped to Subpart L Controls;
ND - Not Determined

ED_002508A_00001316-00002

USS Clairton Works
Total Annual Benzene (TAB) - 1997
Waste Stream Listing

Waste No.	Waste Stream	Controlled Y/N	Water Content >10% Y/N	Waste Stream Type Code	Annual Waste Quantity (gal)	Range of Benzene Concentration (ppm)	Annual Flow Weighted Avg. Benz. Conc.(ppm)	Annual BQ (Mg)	TAB Component Y/N
62	#1 Unit COG Condensate Drip #17 - UF	N	Y	A	0	0 - 10	5.0	0.00	Y
63	#1 Unit COG Condensate Drip #18 - UF Main	N	Y	A	0	0 - 10	5.0	0.00	Y
	COG Condensate - In Plant(Avg.)	**No**	**Y**	**A**	**5367427.2**			**0.26**	**Y**
64	#1 Unit NESHAPS Seal Pot #1 Tar Decanter Drain	*Y	Y	A	262800	3 - 6.9	4.46	0.004	N
65	#1 Unit NESHAPS Seal Pot #2 Tar Decanter Drain	*Y	Y	A	262800	3 - 6.9	4.46	0.004	N
66	#1 Unit NESHAPS Seal Pot #3 Tar Decanter Drain	*Y	Y	A	262800	3 - 6.9	4.46	0.004	N
67	#1 Unit NESHAPS Seal Pot #4 Tar Decanter Drain	*Y	Y	A	262800	3 - 6.9	4.46	0.004	N
68	#1 Unit NESHAPS Seal Pot #5 Tar Decanter Drain	*Y	Y	A	262800	3 - 6.9	4.46	0.004	N
69	#1 Unit NESHAPS Seal Pot #6 Tar Decanter Drain	*Y	Y	A	262800	3 - 6.9	4.46	0.004	N
70	#1 Unit NESHAPS Seal Pot #7 Tar Decanter Drain	*Y	Y	A	262800	3 - 6.9	4.46	0.004	N
71	#1 Unit NESHAPS Seal Pot #8 Tar Decanter Drain	*Y	Y	A	262800	3 - 6.9	4.46	0.004	N
72	#1 Unit NESHAPS Seal Pot #9 Tar Decanter Drain	*Y	Y	A	262800	3 - 6.9	4.46	0.004	N
73	#1 Unit NESHAPS Seal Pot #10 Tar Decanter Drain	*Y	Y	A	262800	3 - 6.9	4.46	0.004	N
74	#1 Unit NESHAPS Seal Pot #11 Tar Decanter Drain	*Y	Y	A	262800	3 - 6.9	4.46	0.004	N
75	#1 Unit NESHAPS Seal Pot #12 Tar Decanter Drain	*Y	Y	A	262800	3 - 6.9	4.46	0.004	N
76	#1 Unit NESHAPS Seal Pot #1 Tar Receiver Drain	N	Y	A	262800	3 - 6.9	4.46	0.004	Y
77	#1 Unit NESHAPS Seal Pot #2 Tar Receiver Drain	N	Y	A	262800	3 - 6.9	4.46	0.004	Y
78	#1 Unit NESHAPS Seal Pot #3 Tar Receiver Drain	N	Y	A	262800	3 - 6.9	4.46	0.004	Y
79	#1 Unit NESHAPS Seal Pot #4Tar Receiver Drain	N	Y	A	262800	3 - 6.9	4.46	0.004	Y
80	#1 Unit NESHAPS Seal Pot #1 FL Surge Tank Drain	N	Y	A	262800	3 - 6.9	4.46	0.004	Y
81	#1 Unit NESHAPS Seal Pot #2 FL Surge Tank Drain	N	Y	A	262800	3 - 6.9	4.46	0.004	Y
82	#1 Unit NESHAPS Seal Pot #1 PC Cond. Sump	N	Y	A	262800	3 - 6.9	4.46	0.004	Y
83	#1 Unit NESHAPS Seal Pot #1 Weir Tank	N	Y	A	262800	3 - 6.9	4.46	0.004	Y
84	#1 Unit Tar Decanter Dike Water	N	Y	D	805035	.077 - .078	.078	0.00	Y
85	Groundwater Wells	N	Y	C	262800	0 - 31	15.6	0.02	N
86	#1 Unit Flushing Liquor Surge Tanks #1	N	Y	A	525600	70 - 110	90	0.18	Y
87	#1 Unit Flushing Liquor Surge Tanks #2	N	Y	A	525600	1.4 - 2.5	2	0.00	Y
	#1 Flushing Liquor Pumphouse Sump	***Y,No**	**Y**	**A,C**	7375035	**0 - 110**	**10.29**	**0.28**	**Y**
88	#1 Tar Tank Water	N	Y	A	288122	9.5 - 82	51.8	0.056	Y
89	#2 Tar Tank Water	N	Y	A	288122	9.5 - 82	51.8	0.056	Y
90	#3 Tar Tank Water	N	Y	A	288122	9.5 - 82	51.8	0.056	Y
91	#4 Tar Tank Water	N	Y	A	288122	9.5 - 82	51.8	0.056	Y

*Y - Hard piped to Subpart L Controls;
ND - Not Determined

ED_002508A_00001316-00003

USS Clairton Works
Total Annual Benzene (TAB) - 1997
Waste Stream Listing

Waste No.	Waste Stream	Controlled Y/N	Water Content >10% Y/N	Waste Stream Type Code	Annual Waste Quantity (gal)	Range of Benzene Concentration (ppm)	Annual Flow Weighted Avg. Benz. Conc.(ppm)	Annual BQ (Mg)	TAB Component Y/N
92	#5 Tar Tank Water	N	Y	A	288122	9.5 - 82	51.8	0.056	Y
93	#6 Tar Tank Water	N	Y	A	288122	9.5 - 82	51.8	0.056	Y
94	#7 Tar Tank Water	N	Y	A	288122	9.5 - 82	51.8	0.056	Y
95	#8 Tar Tank Water	N	Y	A	288122	9.5 - 82	51.8	0.056	Y
96	#9 Tar Tank Water	N	Y	A	288122	9.5 - 82	51.8	0.056	Y
	Tar Tank Dewatering Avg.	**No**	**Y**	**A**	**2593100**	**9.5 - 82**	**51.8**	**0.50**	**Y**
97	#2-Unit NESHAPS Seal Pot #1 Tar Decanter Drain	*Y	Y	A	262800	3 - 6.9	4.46	0.004	N
98	#2 Unit NESHAPS Seal Pot #2 Tar Decanter Drain	*Y	Y	A	262800	3 - 6.9	4.46	0.004	N
99	#2 Unit NESHAPS Seal Pot #3 Tar Decanter Drain	*Y	Y	A	262800	3 - 6.9	4.46	0.004	N
100	#2 Unit NESHAPS Seal Pot #4 Tar Decanter Drain	*Y	Y	A	262800	3 - 6.9	4.46	0.004	N
101	#2 Unit NESHAPS Seal Pot #5 Tar Decanter Drain	*Y	Y	A	262800	3 - 6.9	4.46	0.004	N
102	#2 Unit NESHAPS Seal Pot #6 Tar Decanter Drain	*Y	Y	A	262800	3 - 6.9	4.46	0.004	N
103	#2 Unit NESHAPS Seal Pot #7 Tar Decanter Drain	*Y	Y	A	262800	3 - 6.9	4.46	0.004	N
104	#2 Unit NESHAPS Seal Pot #8 Tar Decanter Drain	*Y	Y	A	262800	3 - 6.9	4.46	0.004	N
105	#2 Unit NESHAPS Seal Pot #9 Tar Decanter Drain	*Y	Y	A	262800	3 - 6.9	4.46	0.004	N
106	#2 Unit NESHAPS Seal Pot #10 Tar Decanter Drain	*Y	Y	A	262800	3 - 6.9	4.46	0.004	N
107	#2 Unit NESHAPS Seal Pot #1 Tar Receiver Drain	N	Y	A	262800	3 - 6.9	4.46	0.004	Y
108	#2 Unit NESHAPS Seal Pot #2 Tar Receiver Drain	N	Y	A	262800	3 - 6.9	4.46	0.004	Y
109	#2 Unit NESHAPS Seal Pot #3 Tar Receiver Drain	N	Y	A	262800	3 - 6.9	4.46	0.004	Y
110	#2 Unit NESHAPS Seal Pot #4Tar Receiver Drain	N	Y	A	262800	3 - 6.9	4.46	0.004	Y
111	#2 Unit NESHAPS Seal Pot #1 FL Surge Tank Drain	N	Y	A	262800	3 - 6.9	4.46	0.004	Y
112	#2 Unit NESHAPS Seal Pot #2 FL Surge Tank Drain	N	Y	A	262800	3 - 6.9	4.46	0.004	Y
113	#2 Unit NESHAPS Seal Pot #2 PC Cond. Tank #1	N	Y	A	262800	3 - 6.9	4.46	0.004	Y
114	#2 Unit NESHAPS Seal Pot #2 PC Cond. Tank #2	N	Y	A	262800	3 - 6.9	4.46	0.004	Y
115	#2 Unit NESHAPS Seal Pot #1 WW Tank	N	Y	A	262800	3 - 6.9	4.46	0.004	Y
116	#2 Unit NESHAPS Seal Pot #2 WW Tank	N	Y	A	262800	3 - 6.9	4.46	0.004	Y
117	#2 Unit NESHAPS Seal Pot #1 Liquor Tank	N	Y	A	262800	3 - 6.9	4.46	0.004	Y
118	#2 Unit NESHAPS Seal Pot #2 Liquor Tank	N	Y	A	262800	3 - 6.9	4.46	0.004	Y
119	#2 Unit NESHAPS Seal Pot NH3 Still Feed Tank	N	Y	A	262800	3 - 6.9	4.46	0.004	Y
120	#2 Unit NESHAPS Seal Pot #1 Weir Tank	N	Y	A	262800	3 - 6.9	4.46	0.004	Y
121	#2 Unit NESHAPS Seal Pot #2 Weir Tank	N	Y	A	262800	3 - 6.9	4.46	0.004	Y
122	Process Water Tank #1 - Light Oil, Top	*Y	Y	E	525600	190 - 320	263.3	0.52	N

*Y - Hard piped to Subpart L Controls;
ND - Not Determined

ED_002508A_00001316-00004

USS Clairton Works
Total Annual Benzene (TAB) - 1997
Waste Stream Listing

Waste No.	Waste Stream	Controlled Y/N	Water Content >10% Y/N	Waste Stream Type Code	Annual Waste Quantity (gal)	Range of Benzene Concentration (ppm)	Annual Flow Weighted Avg. Benz. Conc.(ppm)	Annual BQ (Mg)	TAB Component Y/N
123	Process Water Tank #1 - Tar, Bottom	*Y	Y	E	2628000	200 - 260	230.0	2.27	N
124	Process Water Tank #2 - Light Oil, Top	*Y	Y	E	525600	220 - 380	300.0	0.59	N
125	Process Water Tank #2 - Tar, Bottom	*Y	Y	E	2628000	190 - 330	253.3	2.50	N
126	T-3 Process Water Tank - Drains, Top	*Y	Y	E	525600	160 - 250	206.7	0.41	N
127	T-3 Process Water Tank - Drains, Bottom	*Y	Y	E	2628000	140 - 280	213.3	2.10	N
128	#2 Unit Tank Farm Trench	N	Y	D	1116446	1.2 - 19	8.9	0.04	Y
129	#2 Unit Decanter Diked Area Water	N	Y	D	483806	.31 - .39	0.4	0.00	Y
130	#2 Flushing Liquor Surge Overflow	N	Y	D	525600	.0 - .0	0.0	0.00	Y
131	#2 Primary Cooler Condensate Overflow	N	Y	D	1051200	.0 - .0	0.0	0.00	Y
132	#2 Fl. Liq/Prim. Cooler Rainwater Trench	N	Y	D	261800	0 - 9.9	9.9	0.01	Y
	#2 Flushing Liquor Pumphouse Sump	**No**	**Y**	**A,B,D,E**	**19469652**	**0 - 380**		**0.16**	**Y**
133	#1 Unit Primary Cooler Blowdown	*Y	Y	A	9198000	0 - .007	0.00	0.00	N
134	#2 Unit Primary Cooler Blowdown	*Y	Y	A	9198000	0 - .007	0.00	0.00	N
135	#1 Unit Flushing Liquor Blowdown	*Y	Y	A	131400000	70 - 110	90.00	44.38	N
136	#2 Unit Flushing Liquor Blowdown	*Y	Y	A	105120000	1.4 - 2.5	1.95	0.77	N
137	Light Oil Decanter Water	*Y	Y	A	34164000	8.9 - 2000	956.0	122.58	N
	Ammonia Still Effluent	***Yes**	**Y**	**A,C**	575532000	**0 - .5**	**0.197**	**0.43**	**Y**
	TOTAL ANNUAL BENZENE QUANTITY for SLUDGE and PROCESS WASTEWATER STREAMS							**2.44**	

*Y - Hard piped to Subpart L Controls;
ND - Not Determined

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