USS CLAIRTON WORKS

1997 Total Annual Benzene (TAB)

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

Waste Streams	Individual Contribution	Total (Mg/Yr)
Sludge Streams		0.78
Phosam Tar Unit Sludge	0	
Tar Decanter Sludge	0.63	
All Other Sludge	0.15	
Process Wastewater Streams		1.66
Gas Handling/Chemical Recovery/Wastewater Streams		
a. Lube Oil Systems Water	0	
b. COG Condensate	0.26	
c. Vacuum Carbonate Systems	0.03	
d. Underfire Stack Sumps	0	
e. #1 Flushing Liquor Sump Sources	0.28	
f. #2 Flushing Liquor Sump Sources		
1. Tar Dewatering	0.50	
2. All Other Sources	0.16	
g. Ammonia Still Effluent	0.43	
Equipment Maintenance Sources		0.20
Pumps	0.00	
Pumps Seals Leakage	0.20	
Valves Drainage	0.00	
Instrumentation	0.00	
Process Sampling		0.25
Light Oil Units	0.02	
Vessel Drainage	0.14	
Exchanger Drainage	0.09	
Process Unit Turnarounds		0.01
Gross TAB		**2.90**

ED_002508A_00001315-00002

USS CLAIRTON WORKS

Benzene Tabulation - 1997

Points of Generation Lists	Section
Indexes - Waste Streams and Types, Methods of Analyses	
Sludge Sources	1
a. Tar Decanter Sludge	
b. Phosam Tar Sludge	
c. All Other Sludges	
Process Wastewater Sources	1
a. Lube Oil Systems (Incl. Axi-Compressor Seals)	
b. COG Condensate	
c. Vacuum Carbonate Systems	
d. Underfiring Stacks Sumps	
e. #1 and #2 Flushing Liquor Sumps	
f. Free Ammonia Still Effluent	
Equipment Maintenance Sources	2
a. Mtce. - Pumps Drainage	2
b. Mtce. - Pump Seals Leakage	3
c. Mtce. - Control/Relief Valves Drainage	4
d. Mtce. - Instrumentation	5
Process Unit Turnarounds	6
a. Mtce. - Light Oil Units	6
b. Mtce. - Vessel Drainage	7
c. Mtce. - Exchanger Drainage	8
Process Sampling	9

ED_002508A_00001315-00003

USS Clairton Works Benzene Tabulation - 1997

Points of Generation Lists - 1997

Coal Tar Sludge Sources

Chemical Recovery & Wastewater
- COG Condensate
- #1 Flushing Liquor Pumphouse Sump Sources
- #2 Flushing Liquor Pumphouse Sump Sources
  - Tank Dewatering
- Vacuum Carbonate Systems
- Free Ammonia Still Effluent
- Lube Oil Systems

Gas Cleaning & Light Oil Recovery
- Axi-Compressor Seal Oil Systems
- Phosam System

Equipment Maintenance Sources
- Mtce-Pumps Draining
- Pump Seals, Packing Leakage
- Mtce-Vessel Draining, Flushing
- Mtce - Exchangers
- Mtce - Relief, Control Valves
- Mtce-Instrumentation
- Process Sampling
- Process Unit Turnarounds

Waste Stream Type Index

A. Process Waste Water

B. Product Tank Drawdown

C. Remediation Wastes

D. Process Unit Turnarounds

E. Process Fluids

F. Other Wastes

Determination / Methods of Analyses

WATER

A. Analytical Method ASTM D95-70
B. MSDS
C. Engineering Judgement

BENZENE

A. Method 8020A - Aromatic Volatiles by Gas Chromatography, SW846
B. Liquid Matrix Method 602, CFR136
C. Engineering Judgement

ED_002508A_00001315-00004