



OC-101

N61331.AR.000320
NSWC PANAMA CITY
5090.3a

Memorandum

TO: David Morris, NAS Pensacola

FROM: Mark Lieberman, ABB Environmental Services 

SUBJECT: Investigation Derived Wastewater from CSS Panama City

DATE: 18 April 1994

Based on our earlier telephone conversation I have summarized the constituent information for the groundwater that we think may need to be treated. Please review the information and let me know if the concentration ranges fall within your permit limits.

<u>Inorganics</u>	<u>µg/l</u>
Beryllium	1.3 - 93.3
Mercury	.16 - 2.0

<u>Organics</u>	
Chlorobenzene	2 - 21
Carbon Disulfide	2
Xylene	1 - 100
Methylene Chloride	1 - 10
Naphthalene	6 - 53
Trichloroethene	1 - 8
1,1,1 Trichloroethane	3 - 16
1,1,1 Trichloroethene	2
Toluene	19 - 130
Benzene	2 - 6
1,1 Dichloroethane	2 - 140
1,1 Dichloroethene	3 - 16
Acetone	4 - 10
Ethyl Benzene	13 - 78
2-Methylphenol	2 - 3
4-Methylphenol	25 - 62
Phenol	4
2,4-Dimethylphenol	3 - 6
4,4'-DDD	.012
Dieldrin	.018
Chrysene	8.3
Benzo(a)pyrene	.34

The above ranges represent results for 17 different 55 gallon drums no one drum contains all of the above constituents. The maximum organic content of any drum is 415 µg/l. We would also like to know if your permit has suspended solids restrictions. If you have any questions please feel free to contact me at (703) 769-8126.

ABB Environmental Services Inc.