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NCBC GULFPORT
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TRANSMITTAL LETTER FOR VERIFICATION TEST BURN WATER DATA NCBC GULFPORT
MS
5/18/1988
IDAHO NATIONAL ENGINEERING LABORATORY



76
5/24/88

May 18, 1988

Mr. Steve Spengler
Mississippi Department of Natural Resources
Bureau of Pollution Control
2380 Highway 80 West
Jackson, MS 39204

TRANSMITTAL OF VERIFICATION TEST BURN WATER DATA DJH-11-88

Ref: POTW Permit #PT90429

Dear Mr. Spengler:

Per your request, I have attached a data summary for the POTW effluent water analysis performed in support of the December 1986 Verification Test Burns conducted at the Naval Construction Battalion Center (NCBC).

The data are divided into two tables. Table 1 shows the actual detection data, and Table 2 shows the detection limits for the remaining, non-detected constituents. Only the effluent water data is shown in these tables. Please call me if you wish to review data for the stack emissions, the process ash, or the feedstock.

Currently, we are holding approximately 20,000 gallons of scrubber effluent water that has been generated since we began operations in December 1987. The water has been filtered several times through an activated charcoal bed in a successful effort to reduce the level of contamination and the level of analytical detection. The most recent analysis for the three constituents of concern is listed below.

2,3,7,8 TCDD	not detectable @ 0.24 ppt
2,4-D	not detectable @ 8.6 ppb
2,4,5-T	not detectable @ 3.3 ppb

Pending your approval, we intend to discharge the water to the POTW at a rate not to exceed 7,200 gallons per day in accordance with our POTW permit. A discharge form will be completed for each discharge and transmitted to the Mississippi Bureau of Pollution Control on a quarterly basis.

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Once the holding tanks are emptied, we plan to discharge approximately 10,000 gallons of scrubber effluent water to the POTW every week at a rate less than 7200 gallons per day. That wastewater will also be filtered through the carbon absorption bed and analyzed for 2,3,7,8-TCDD, 2,3,5-T, and 2,4-D. The water will only be discharged if the analysis shows those three constituents to be not detectable.

Please review this data and inform us of your decision regarding the requested discharge.

If you have any questions, please call me at (208) 526-9959

Very truly yours,



D. J. Haley
Sr. Programs Specialist
Hazardous Waste Projects

Attachments:
As Stated

cc: Maj. T. L. Stoddart, USAF
L. Moorehead, ENSCO
J. H. Nelson, EG&G Idaho (w/o Attach)
J. O. Zane, EG&G Idaho (w/o Attach)

POTW NONDETECT LIMITS

The following values are the detection limits for samples that were found to be ND only. Blanks indicate a positive detection.

CONSTITUENTS	DETECTION LIMIT	AFTER TEST
=====		
x METALS		
ARSENIC	ppb	
BARIUM	ppb	
CADMIUM	ppb	
CHROMIUM	ppb	10.00
LEAD	ppb	2.50
MERCURY	ppb	0.40
NICKEL	ppb	30.00
SELENIUM	ppb	
SILVER	ppb	0.10
BASE NEUTRAL/ACIDS		
BENZIDINE	ppb	80
BIS(2-CHLOROETHOXY)METHANE	ppb	10
BIS(2-CHLOROISOPROPYL)ETHER	ppb	10
3,3'-DICHLOROBENZIDINE	ppb	20
2,4-DICHLOROPHENOL	ppb	10
2,5-DICHLOROPHENOL	ppb	10
2,6-DICHLOROPHENOL	ppb	10
3,4-DICHLOROPHENOL	ppb	10
4,6-DINITRO-O-CRESOL	ppb	50
2,4-DINITROPHENOL	ppb	50
2,4-DINTROTOLUENE	ppb	10
2-METHYLPHENOL	ppb	10
3-METHYLPHENOL	ppb	10
4-METHYLPHENOL	ppb	10
4-NITROPHENOL	ppb	50
N-NITROSODIMETHYLAMINE	ppb	10
PHENOL	ppb	10
1,2,3,5-TETRACHLOROBENZINE	ppb	10
1,2,4,5-TETRACHLOROBENZINE	ppb	10
2,3,4,5-TETRACHLOROPHENOL	ppb	10
2,3,4,6-TETRACHLOROPHENOL	ppb	10
2,3,4-TRICHLOROPHENOL	ppb	10
2,4,5-TRICHLOROPHENOL	ppb	50
2,4,6-TRICHLOROPHENOL	ppb	10

Table 1

POTW EFFLUENT STORAGE TANK
(POSITIVE DETECTS ONLY)

CONSTITUENTS	DETECTION UNITS	AFTER TEST
=====		
METALS		
Arsenic	ppb	13
Barium	ppb	204
Cadmium	ppb	12
Selenium	ppb	60
BASE NEUTRALS/ACIDS		
POLYNUCLEAR AROMATIC HYDROCARBONS		
PESTICIDE/PCB/HERBICIDE		
PCB		
DIOXINS/FURANS		
OCDD	ppt	0.520
OCDF	ppt	0.010
HpCDD	ppt	0.079
BOD	ppb	2.0
COD	ppb	7.7

Table 2

POTW NONDETECT LIMITS

The following values are the detection limits for samples that were found to be ND only. Blanks indicate a positive detection.

CONSTITUENTS	DETECTION LIMIT	AFTER TEST
=====		
DIOXINS/FURANS		
2378 TCDD	ppt	0.08
2378 TCDF	ppt	0.12
TCDD	ppt	0.03
PeCDD	ppt	0.01
HxCDD	ppt	0.04
HpCDD	ppt	
OCDD	ppt	
TCDF	ppt	0.08
PeCDF	ppt	0.01
HxCDF	ppt	0.03
HpCDF	ppt	0.02
OCDF	ppt	
POLYNUCLEAR AROMATIC HYDROCARBONS		
BENZO(a)ANTHRACENE	ppb	0.013
BENZO(a)PYRENE	ppb	0.023
BENZO(b)FLUORANTHENE	ppb	0.018
CHRYSENE	ppb	0.15
DIBENZO(a,h)ANTHRACENE	ppb	0.03
FLUORANTHENE	ppb	0.21
INDENO(1,2,3-cd)PYRENE	ppb	0.043
PESTICIDE/PCB/HERBICIDE		
TOXAPHENE	ppb	1
PCB 1016	ppb	0.5
PCB 1221	ppb	0.5
PCB 1232	ppb	0.5
PCB 1242	ppb	0.5
PCB 1248	ppb	0.5
PCB 1254	ppb	1
PCB 1260	ppb	1
2,4-D	ppb	1
2,4,5-T	ppb	0.1

Table 2 (continued)