FLUOR DANIEL FERNALD
P.O. Box 538704 Cincinnati, Ohio 45253-8704 (513) 648-3000

1925

January 13, 1999

Fernald Environmental Management Project
Letter No. C:SWP(ARWWP):99-0005

Ms. Brenda Rennie
Fiscal Unit, Division of Surface Water
Ohio Environmental Protection Agency
1800 Watermark Drive
Columbus, OH 43215-1099

Dear Ms. Rennie:

OHIO ENVIRONMENTAL PROTECTION AGENCY 1998 ANNUAL DISCHARGE FEE

A letter stating an estimate of average daily flow for the U.S. Department of Energy (NPDES Permit #G-11000004-98) was recently sent from your office to the Fernald site. In the letter, the average daily flow for the Fernald Environmental Management Project (FEMP) from May 1, 1997 to October 31, 1997 was listed as 19.614670 MGD. We feel that this average daily flow estimate and the corresponding preliminary fee of $15,750.00 shown in your letter is incorrect.

The flows reported for Outfall 4001 are average daily flows. The flows from the remaining outfalls do not reflect average daily flows. The figures provided on form 4500 for Outfall 4002 are those measured during overflows of the Stormwater Retention Basin. The flows at outfalls 4003, 4004, 4005, and 4006 are only required to be measured during the months of June and December per the permit. Though these figures are shown on the MOR forms as average flows, they do not accurately represent the average daily flows at these outfalls. Therefore, in assessing the Annual Discharge Fee, these figures should not be added to the average daily flow found at Outfall 4001. A more accurate representation of the average daily flow at the FEMP is be 2.332 MGD. The data and method used to calculate this flow is provided on the next page.

To support this explanation, attached are the May - October, 1997 MORs per your request. If you have any questions, please contact Marlene Landrum at 648-4197.

Sincerely,

David J. Brettschneider
Project Manager

1

FLUOR DANIEL FERNALD

DJB:MML
Attachments

c: D.J. Carr, Fluor Daniel Fernald, MS 52-2
N. Hallein, EM-42/CLOV
E. H. Henry, Fluor Daniel Fernald, MS 52-5
W. A. Hertel, Fluor Daniel Fernald, MS 52-5
F. L. Johnston, Fluor Daniel Fernald, MS 52-2
J. D. Kappa, DOE-FEMP, MS 45
M. M. Landrum, Fluor Daniel Fernald, MS 52-5
C.G. Seifert, Fluor Daniel Fernald, MS 52-5
E.P. Skintik, DOE-FEMP, MS 45
T. J. Walsh, Fluor Daniel Fernald, MS 65-2
AR Coordinator, MS 78
EDC File No. 52700

CALCULATION OF AVERAGE DAILY FLOWS

OUTFALL 4001		
Month	Flow (MGD)	Number of Days
May	56.498	31
June	104.225	30
July	63.597	31
August	69.402	31
September	62.409	30
October	55.577	31
Totals	411.708	184*

REMAINING OUTFALLS		
Date	Outfall	Flow (MGD)
June 1, 1997	4002	1.318
June 2	4003 4004 4005 4006	10.500 0.260 1.540 3.760
Totals		17.378

*Average Daily Flow Calculations:

411.708 MGD
+ 17.378 MGD
429.086 MGD

429.086 ÷ 184 = 2.332 MGD

9002 M 4501 900212

ONTHLY REPORT FORM

4500

1925

U.S. DEPARTMENT OF ENERGY
Fernald Environmental
Management Project
P.O. Box 538704
Cincinnati, OH 45253-8704

1I000004001 MAY 1997 1 2 03/24/90 OH0009E

4001 PARSHALL FLUME, EFFLUENT TO GREAT MIAMI RIV
Hamilton

FORM

	1 999 CONDUI FLOW MGD	1 999 pH (MIN) S.U.	1 999 pH (MAX) S.U.	3 1 WATER TEMP. C	2 998 TOT.SUSP SOLIDS MG/L	3 1 DISS. OXYGEN MG/L	3 1 O & G TOTAL MG/L	2 995 NITRO NH3-N MG/L	2 998 NITRO NO2+NO3 MG/L	2 998 FLUORI TOTAL MG/L
	50050	00402	00401	00010	00530	00300	00550	00610	00630	00951
01	2.199	7.0	8.3	15	AA					
02	2.490	7.0	8.9	14	AA					
03	3.198	7.0	8.2	14	3.2					
04	3.288	6.7	8.9	14	5.2	10.8	AA	AA	0.7	0.35
05	3.193	6.5	8.7	16	AA					
06	2.834	6.8	8.6	16	4.4					
07	2.462	6.5	8.2	17	2.4					
08	2.479	7.8	8.4	16	AA					
09	2.605	8.0	8.6	15	AA					
10	2.525	8.0	8.7	16	AA					
11	1.835	7.7	9.2	15	3.6					
12	1.142	7.6	8.6	15	AA	10.6	AA	AA	2.9	0.67
13	1.132	7.8	8.0	15	AA					
14	1.130	7.8	8.2	15	AA					
15	0.891	7.4	8.5	13	AA					
16	0.902	7.8	8.4	13	AA					
17	0.862	7.9	8.5	13	AA					
18	0.872	7.0	8.0	14	AA					
19	0.562	7.7	7.9	14	AA					
20	0.908	7.3	8.0	14	AA	12.4	AA	AA	2.2	0.48
21	0.843	6.9	8.0	13	AA					
22	0.877	7.6	8.3	13	2.0					
23	0.851	7.3	8.4	19	AA					
24	0.981	7.6	8.1	16	AA					
25	1.182	7.2	8.0	13	AA					
26	1.680	7.4	8.0	18	AA					
27	2.108	7.7	8.0	17	AA					
28	2.142	7.6	8.0	16	2.0	9.4	AA	AA	2.1	0.84
29	2.287	7.8	8.0	15	3.2					
30	2.370	7.7	8.1	14	5.2					
31	3.648	8.0	8.2	15	3.6					
	56.498	N/A	N/A	N/A	76.8	43.2	AA	AA	8.1	2.36
	1.823	N/A	N/A	15	2.7	10.6	AA	AA	1.7	0.56
	3.648	8.0	9.2	19	5.2	12.4	AA	AA	2.9	0.64
	0.582	6.5	7.9	13	AA	9.4	AA	AA	0.9	0.33

AA: 00530 - 2.0 mg/l; 00550 - 5.0 mg/l; 00610 - 0.10 mg/l: 00630 - 0.1 mg/l:
AA: 00951 - 0.01 mg/l.

4

REPORTER

6/12/97

ARF Project Mgr. FDF

9002 M 9501 900212 4500 **1925**

ONTHLY REPORT FORM

U.S. DEPARTMENT OF ENERGY 1I000004001 JUN 1997 1 2 03/24/90 OH0009
Fernald Environmental
Management Project
P.O. Box 538704 4001 PARSHALL FLUME, EFFLUENT TO GREAT MIAMI RI
Cincinnati, OH 45253-8704 Hamilton FORM

	1	1	1	3	2	3	3	2	2	2
	999	999	999	1	998	1	1	998	998	998
	CONDUI FLOW MGD	pH (MIN) S.U.	pH (MAX) S.U.	WATER TEMP. C	TOT.SUSP SOLIDS MG/L	DISS. OXYGEN MG/L	O & G TOTAL MG/L	NITRO NH3-N MG/L	NITRO NO2+NO3 MG/L	FLUOR TOTA MG/
	50050	00402	00401	00010	00530	00300	00550	00610	00630	0095
01	5.192	7.8	8.4	15	4.8					
02	4.895	7.8	8.3	15	6.8	9.7	AA	AA	1.1	0.3
03	4.922	7.9	8.2	15	6.4					
04	3.967	7.8	8.0	15	2.4					
05	3.802	7.7	7.9	15	AA					
06	3.826	7.7	8.0	15	AA					
07	3.964	7.8	8.0	15	2.8					
08	3.852	7.7	7.9	15	2.0					
09	5.005	7.9	8.0	15	10.0					
10	4.947	8.0	8.1	15	6.5	9.2	AA	AA	1.4	0.3
11	3.921	7.7	8.1	15	AA					
12	3.987	8.0	8.2	15	AA					
13	3.875	7.9	8.1	17	AA					
14	3.282	7.8	8.1	16	2.4					
15	3.267	7.7	8.0	16	2.0					
16	3.085	7.7	8.0	16	2.4					
17	3.324	7.4	7.9	17	AA					
18	3.527	7.6	8.4	17	5.2	9.3	AA	AA	1.4	0.
19	3.282	7.2	7.9	17	3.6					
20	3.208	7.6	7.9	17	2.0					
21	2.949	7.8	8.5	17	AA					
22	2.991	7.9	8.2	17	AA					
23	3.081	8.0	9.0	18	AA					
24	2.400	AE	AE	17	AA					
25	2.384	AE	AE	16	AA					
26	2.327	AE	AE	16	AA	9.5	AA	AA	1.9	0.
27	2.230	AE	AE	17	AA					
28	2.285	7.9	8.6	16	AA					
29	2.230	8.2	8.3	16	AA					
30	2.218	7.5	7.9	17	3.2					
31										
	104.225	N/A	N/A	N/A	92.5	37.7	AA	AA	5.8	1.4
	3.474	N/A	N/A	16	3.4	9.4	AA	AA	1.4	0.3
	5.192	8.2	9.0	18	10.0	9.7	AA	AA	1.9	0.
	2.218	7.2	7.9	15	AA	9.2	AA	AA	1.1	0.

AA: 00530 - 2.0 mg/l; 00550 - 5.0 mg/l; 00610 - 0.10 mg/l; 00630 - 0.1 mg/l;
AA: 00951 - 0.01 mg/l.

AE:00401, 00402 - Continuous pH meter malfunctioning.

5

REPORTER

7/14/97

ARP Project M

9002 M 9501 9002:2

ONTHLY REPORT FORM

4500

1925

U.S. DEPARTMENT OF ENERGY
Fernald Environmental
Management Project
P.O. Box 538704
Cincinnati, OH 45253-8704

1I00004002 JUN 1997 1 2 03/24/90 OH0009

4002 SPILLWAY FROM STORMWATER RETENTION BASIN
Hamilton

FORM

	2 4	3 1	2 4	3 1	2 4	2 4	2 4	2 4	2 4	2 4
	CONDUI FLOW MGD	pH S.U.	TOT.SUSP SOLIDS MG/L	O & G Total MG/L	NITRO NH3-N MG/L	NITRO NO2+NO3 MG/L	PHOS TOTAL MG/L	FLUORI TOTAL MG/L	NICKEL TOT,REC UG/L	SILV TOT,R UG/
	50050	00400	00530	00550	00610	00630	00665	00951	01074	0107
01	1.318	8.2	8.0	AA	AA	0.7	AA	0.48	AA	AA
02										
03										
04										
05										
06										
07										
08										
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
	1.318	8.2	8.0	AA	AA	0.7	AA	0.48	AA	AA
	1.318	8.2	8.0	AA	AA	0.7	AA	0.48	AA	AA
	1.318	8.2	8.0	AA	AA	0.7	AA	0.48	AA	AA
	1.318	8.2	8.0	AA	AA	0.7	AA	0.48	AA	AA

AA: 00530 - 2.0 mg/l; 00550 - 5.0 mg/l; 00610 - 0.10 mg/l; 00630 - 0.1 mg/l.
AA: 00665 - 0.1 mg/l; 00951 - 0.01 mg/l; 01074 - 17.0 ug/l; 01079 - 10.0 ug/

6

DISTRIBUTION
WATER AGENCY
REPORTER

7/14/97

ARP Project Mg

9002 M 9501 900212 4500

ITHLY REPORT FORM

1925

U.S. DEPARTMENT OF ENERGY 1I000004003 JUN 1997 1 2 03/24/90 OH0009
Fernald Environmental
Management Project
P.O. Box 538704
Cincinnati, OH 45253-8704

4003 STORMWATER RUNOFF DISCHARGE TO PADDY'S RUN
Hamilton

FORM

	2 4	3 1	2 4	3 1	2 4	2 4	2 4	2 4	2 4	2 4
	CONDUI FLOW MGD	pH S.U.	TOT.SUSP SOLIDS MG/L	O & G Total MG/L	NITRO NH3-N MG/L	NITRO NO2+NO3 MG/L	PHOS TOTAL MG/L	FLUORIDE TOTAL MG/L	NICKEL TOT,REC UG/L	SILVE TOT,RE UG/L
	50050	00400	00530	00550	00610	00630	00665	00951	01074	01079
01										
02	10.500	7.9	36.4	AA	0.13	8.4	0.2	0.24	AA	AA
03										
04										
05										
06										
07										
08										
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
TOTAL	10.500	N/A	36.4	AA	0.13	8.4	0.2	0.24	AA	AA
AVG	10.500	N/A	36.4	AA	0.13	8.4	0.2	0.24	AA	AA
MAX	10.500	7.9	36.4	AA	0.13	8.4	0.2	0.24	AA	AA
MIN	10.500	7.9	36.4	AA	0.13	8.4	0.2	0.24	AA	AA

AA: 00530 - 2.0 mg/l; 00550 - 5.0 mg/l; 00610 - 0.10 mg/l; 00630 - 0.1 mg/
AA: 00665 - 0.1 mg/l; 00951 - .01 mg/l; 01074 - 17.0 ug/l; 01079 - 10.0 ug

7

DISTRIBUTION
WHITE AGENCY
GREEN REPORTER

FORM NO F-1 (ASC 3-81)

7/14/97

ARP Project Mg

9002 M 9501 90:212 4500 1925

NTHLY REPORT FORM

U.S. DEPARTMENT OF ENERGY 1I000004004 JUN 1997 1 2 03/24/90 OH0009
Fernald Environmental
Management Project
P.O. Box 538704
Cincinnati, OH 45253-8704

4004 STORMWATER RUNOFF - INACTIVE FLYASH PILE
Hamilton

FORM

	2 4 CONDUI FLOW MGD	3 1 pH S.U.	2 4 TOT.SUSP SOLIDS MG/L	3 1 O & G Total MG/L	2 4 NITRO NH3-N MG/L	2 4 NITRO NO2+NO3 MG/L	2 4 PHOS TOTAL MG/L	2 4 FLUORIDE TOTAL MG/L	2 4 NICKEL TOT,REC UG/L	2 4 SILV TOT,R UG/
	50050	00400	00530	00550	00610	00630	00665	00951	01074	0107
01										
02	0.260	8.0	28.8	AA	AA	AA	0.1	0.37	AA	AA
03										
04										
05										
06										
07										
08										
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
TAL	0.260	N/A	28.8	AA	AA	AA	0.1	0.37	AA	AA
VG.	0.260	N/A	28.8	AA	AA	AA	0.1	0.37	AA	AA
AX	0.260	8.0	28.8	AA	AA	AA	0.1	0.37	AA	AA
IN	0.260	8.0	28.8	AA	AA	AA	0.1	0.37	AA	AA

DITIONAL REMARKS (AH REPORTING CODES MUST BE EXPLAINED IN THIS SECTION)
AA: 00530 - 2.0 mg/l; 00550 - 5.0 mg/l; 00610 - 0.10 mg/l; 00630 - 0.1 mg/
AA: 00665 - 0.1 mg/l; 00951 - .01 mg/l; 01074 - 17.0 ug/l; 01079 - 10.0 ug

8

DISTRIBUTION
WHITE - AGENCY
GREEN - REPORTER

CERTIFY UNDER THE PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THAT THE INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.

DATE REPORT COMPLETED 7/14/97 SIGNATURE OF REPORTER [signature] REPORTER ARP Project Mg

FORM NC EPA 4500 (8-91)

9002 M 9501 900212 4500 1925

NTHLY REPORT FORM

U.S. DEPARTMENT OF ENERGY 1I000004005 JUN 1997 1 2 03/24/90 OH0009
Fernald Environmental
Management Project
P.O. Box 538704 4005 STORMWATER RUNOFF - WEST OF PRODUCTION ARE
Cincinnati, OH 45253-8704 Hamilton

FORM

	2 4	3 1	2 4	3 1	2 4	2 4	2 4	2 4	2 4	2 4
	CONDUI FLOW MGD	pH S.U.	TOT.SUSP SOLIDS MG/L	O & G Total MG/L	NITRO NH3-N MG/L	NITRO NO2+NO3 MG/L	PHOS TOTAL MG/L	FLUORIDE TOTAL MG/L	NICKEL TOT,REC UG/L	SILV TOT.R. UG/
	50050	00400	00530	00550	00610	00630	00665	00951	01074	0107
01										
02	1.540	7.8	73.2	AA	AA	0.9	0.1	0.48	AA	AA
03										
04										
05										
06										
07										
08										
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
TA.	1.540	N/A	73.2	AA	AA	0.9	0.1	0.48	AA	AA
3	1.540	N/A	73.2	AA	AA	0.9	0.1	0.48	AA	AA
	1.540	7.8	73.2	AA	AA	0.9	0.1	0.48	AA	AA
	1.540	7.8	73.2	AA	AA	0.9	0.1	0.48	AA	AA

AA: 00530 - 2.0 mg/l; 00550 - 5.0 mg/l; 00610 - 0.10 mg/l; 00630 - 0.1 mg/
AA: 00665 - 0.1 mg/l; 00951 - .01 mg/l; 01074 - 17.0 ug/l; 01079 - 10.0 ug

9

DISTRIBUTION
WHITE - AGENCY
GREEN REPORTER

7/14/97

ARP Project Mg

9002 M 9501 900212 4500 1925

NTHLY REPORT FORM

U.S. DEPARTMENT OF ENERGY 11300004006 JUN 1997 1 2 03/24/90 OH0009
Fernald Environmental
Management Project
P.O. Box 538704
Cincinnati, OH 45253-8704

4006 STORMWATER RUNOFF - NORTH END OF PROPERTY
Hamilton

FORM

	2 4 CONDUI FLOW MGD 50050	3 1 pH S.U. 00400	2 4 TOT.SUSP SOLIDS MG/L 00530	3 1 O & G Total MG/L 00550	2 4 NITRO NH3-N MG/L 00610	2 4 NITRO NO2+NO3 MG/L 00630	2 4 PHOS TOTAL MG/L 00665	2 4 FLUORIDE TOTAL MG/L 00951	2 4 NICKEL TOT,REC UG/L 01074	2 4 SILV TOT,R UG/ 0107
01										
02	3.760	7.9	24.0	AA	AA	1.2	0.1	0.25	AA	AA
03										
04										
05										
06										
07										
08										
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
TAL	3.760	N/A	24.0	AA	AA	1.2	0.1	0.25	AA	AA
G	3.760	N/A	24.0	AA	AA	1.2	0.1	0.25	AA	AA
AX	3.760	7.9	24.0	AA	AA	1.2	0.1	0.25	AA	AA
N	3.760	7.9	24.0	AA	AA	1.2	0.1	0.25	AA	AA

TIONAL REMARKS (AH REPORTING CODES MUST BE EXPLAINED IN THIS SECTION)
AA: 00530 - 2.0 mg/l; 00550 - 5.0 mg/l; 00610 - 0.10 mg/l; 00630 - 0.1 mg/
AA: 00665 - 0.1 mg/l; 00951 - .01 mg/l; 01074 - 17.0 ug/l; 01079 - 10.0 ug

10

DISTRIBUTION
WHITE - AGENCY
GREEN - REPORTER

CERTIFY UNDER THE PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED AND BASED ON THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT

DATE 7/14/97 SIGNATURE

ARP Project Mg

FORM NO EPA 4500 (8-81)

9002 M 9501 900212 4500 1925 OhioEPA

THLY REPORT FORM

E, ADDRESS CITY, COUNTY, ZIP	STATION CODE	REPORTED DATE (MONTH, YEAR)	PAGE	PRINTING DATE	APPLICATION NO
U.S. DEPARTMENT OF ENERGY Fernald Environmental Management Project P.O. Box 538704 Cincinnati, OH 45253-8704	1I000004001	JUL 1997	1 OF 2	03/24/90	OH000958

SAMPLING STATION DESCRIPTION

4001 PARSHALL FLUME, EFFLUENT TO GREAT MIAMI RIVE
Hamilton

NOTE: THIS FORM MUST BE TYPED

1) - ENTER 1 FOR CONTINUOUS, 2 FOR COMPOSITE, 3 FOR GRAB SAMPLE
2) - ENTER FREQUENCY OF SAMPLING

REPORTING LAB

ANALYST

(1)	1	1	1	3	2	3	3	2	2	2
(2)	999	999	999	1	998	1	1	998	998	998
	CONDUI FLOW MGD REPORTING CODE	pH (MIN) S.U. REPORTING CODE	pH (MAX) S.U. REPORTING CODE	WATER TEMP. C REPORTING CODE	TOT.SUSP SOLIDS MG/L REPORTING CODE	DISS. OXYGEN MG/L REPORTING CODE	O & G TOTAL MG/L REPORTING CODE	NITRO NH3-N MG/L REPORTING CODE	NITRO NO2+NO3 MG/L REPORTING CODE	FLUORIDE TOTAL MG/L REPORTING COD
Y	50050	00402	00401	00010	00530	00300	00550	00610	00630	00951
	2.207	7.6	7.9	17	AA					
	2.157	7.7	7.9	18	AA	9.2	AA	AA	1.7	0.37
	2.193	7.7	8.0	18	AA					
	2.080	7.8	8.0	16	AA					
	2.512	7.8	8.0	17	AA					
	2.172	7.9	8.2	17	AA					
	2.123	7.9	8.1	16	2.4					
	2.079	7.7	8.2	17	AA	9.7	AA	AA	1.3	0.30
	2.096	7.7	8.0	17	AA					
	1.401	7.2	8.5	14	AA					
	2.082	7.8	8.0	15	2.0					
	1.920	7.7	7.8	15	AA					
	1.892	7.7	7.9	16	AA					
	2.610	7.6	7.9	17	AA					
	2.538	7.6	7.6	17	AA					
	2.538	7.6	7.7	17	AA					
	2.543	7.4	7.6	18	AA					
	2.553	7.4	7.6	18	AA					
	1.838	7.2	7.9	15	AA					
	1.842	7.7	7.9	15	2.8	AE	AA	AA	1.2	0.39
	1.866	7.4	7.8	15	2.0					
	1.845	7.6	7.9	16	AA					
	1.822	7.5	7.8	13	AA					
	1.815	7.5	7.7	15	AA					
	1.871	7.6	7.8	16	AA					
	1.831	7.6	7.8	16	AA					
	1.794	7.8	7.9	16	AA					
	1.893	7.7	7.9	15	2.8	9.5	AA	AA	1.5	0.39
	1.855	7.7	7.9	14	AA					
	1.775	7.7	7.8	14	AA					
	1.854	7.6	7.8	14	AA					
L	63.597	N/A	N/A	N/A	64.0	28.4	AA	AA	5.7	1.45
	2.052	N/A	N/A	16	2.1	9.5	AA	AA	1.4	0.36
	2.610	7.9	8.5	18	2.8	9.7	AA	AA	1.7	0.39
	1.401	7.2	7.6	13	AA	9.2	AA	AA	1.2	0.30

TIONAL REMARKS (AH REPORTING CODES MUST BE EXPLAINED IN THIS SECTION)
AA: 00530 - 2.0 mg/l; 00550 - 5.0 mg/l; 00610 - 0.10 mg/l; 00630 - 0.1 mg/l;
AA: 00951 - 0.01 mg/l.

AE: Analytical result invalid.

DISTRIBUTION
WHITE - AGENCY
GREEN - REPORTER

I CERTIFY UNDER THE PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.

DATE REPORT COMPLETED	SIGNATURE OF REPORTER	TITLE OF REPORTER
8/13/97		ARF / Project Mgr.

RM NO EPA 4500 (8-91)
MERLY EPA SUR

9002 M 9501 900212 4500 1925

ITHLY REPORT FORM

U.S. DEPARTMENT OF ENERGY
Fernald Environmental
Management Project
P.O. Box 538704
Cincinnati, OH 45253-8704

1D00004001 AUG 1997 2 03/24/90 OH00095

4001 PARSHALL FLUME, EFFLUENT TO GREAT MIAMI RIV
Hamilton

	1	1	1	3	2	3	3	2	2	2
	999	999	999	1	998	1	1	998	998	998
	CONDUI FLOW MGD	pH (MIN) S.U.	pH (MAX) S.U.	WATER TEMP. C	TOT.SUSP SOLIDS MG/L	DISS. OXYGEN MG/L	O & G TOTAL MG/L	NITRO NH3-N MG/L	NITRO NO2+NO3 MG/L	FLUORI TOTAL MG/L
	50050	00402	00401	00010	00530	00300	00550	00610	00630	00951
01	1.872	7.2	7.7	15	AA					
02	2.444	7.4	7.6	15	AA					
03	2.650	7.2	7.4	15	AA	9.7	AA	AA	0.9	0.34
04	2.636	7.3	7.4	15	AA					
05	1.897	7.2	7.6	15	AA					
06	1.892	7.4	7.6	14	AA					
07	1.946	7.2	7.7	16	AA					
08	1.915	7.5	7.9	14	AA					
09	1.821	7.9	8.2	14	AA					
0	1.820	8.0	8.4	15	2.0					
1	1.885	8.3	8.5	15	AA	9.9	AA	AA	1.6	0.36
2	1.838	8.5	8.7	15	AA					
3	1.870	7.6	8.2	15	AA					
4	2.117	7.9	7.6	16	AA					
5	3.066	7.3	7.6	15	AA					
6	2.209	7.3	7.8	16	AA					
7	2.219	7.5	7.8	15	2.0					
8	3.634	7.2	7.6	19	51.6					
9	4.020	7.0	7.4	19	27.2		AH	0.12	1.3	0.45
0	3.303	7.3	7.6	15	6.8	8.6				
1	2.198	7.3	7.6	14	4.4					
2	2.078	7.2	7.5	14	3.2					
3	2.126	7.4	7.8	14	AA					
4	2.156	7.4	7.6	15	AA					
5	2.125	7.2	7.4	14	AA					
6	2.100	7.2	7.5	15	AA					
7	2.202	7.2	7.6	14	AA	8.4	AA	AA	1.7	0.36
8	1.983	7.2	7.6	15	AA					
9	1.723	AE	AE	12	AA					
0	1.653	AE	AE	13	AA					
1	2.004	7.3	7.5	13	AA					
	69.402	N/A	N/A	N/A	145.2	36.6	AA	0.42	5.5	1.51
	2.239	N/A	N/A	15	6.4	9.1	AA	0.11	1.3	0.39
	4.020	8.5	8.7	19	51.6	9.9	AA	0.12	1.7	0.45
	1.653	7.0	7.4	12	AA	8.4	AA	AA	0.9	0.34

AA:00530-2.0 mg/l;00550-5.0 mg/l;00610-0.10 mg/l;00630-0.1 mg/l;00951-0.01 mg
AE: 00401, 00402 - Continuous pH meter malfunctioning. 8/29:Min.-7.2, Max.-7.
AE: 00401, 00402 - Continuous pH meter malfunctioning. 8/30:Min.-7.2, Max.-7.
AH: 00550 - Sample container broken during transit.

REPORTER

9/2/97

ARWWP Project Mgr.

12

9002 M 9501 900212 4500 1925

MONTHLY REPORT FORM

U.S. DEPARTMENT OF ENERGY 1I000004001 SEP 1997 1 2 03/24/90 OHO

Fernald Environmental
Management Project
P.O. Box 538704
Cincinnati. OH 45253-8704

4001 PARSHALL FLUME, EFFLUENT TO GREAT MIAMI
Hamilton

FORM

	1	1	1	3	2	3	3	2	2	
	999	999	999	1	998	1	1	998	998	9
	CONDUI FLOW MGD	pH (MIN) S.U.	pH (MAX) S.U.	WATER TEMP. C	TOT.SUSP SOLIDS MG/L	DISS. OXYGEN MG/L	O & G TOTAL MG/L	NITRO NH3-N MG/L	NITRO NO2+NO3 MG/L	FLL TC M
	50050	00402	00401	00010	00530	00300	00550	00610	00630	00
01	2.212	7.2	7.5	17	AA					
02	2.202	7.3	7.4	20	AA					
03	2.311	7.3	7.9	16	2.0					
04	2.216	7.5	7.7	17	AA	9.4	AA	AA	1.6	0.
05	2.125	7.4	7.7	17	AA					
06	2.445	7.4	7.6	17	AA					
07	2.457	7.4	7.6	17	AA					
08	2.355	7.6	7.8	18	AA					
09	2.107	7.6	7.7	17	AA					
10	2.304	7.6	7.7	19	AA	9.2	AA	AA	1.9	0.
11	2.408	7.7	7.9	17	AA					
12	2.315	7.6	7.9	17	AA					
13	2.047	7.6	7.8	17	AA					
14	2.093	7.8	8.0	17	2.0					
15	2.106	7.8	7.9	15	AA					
16	2.050	7.9	8.0	15	AA	8.4	AE	AA	1.6	0.
17	2.152	7.8	7.9	15	AA					
18	1.866	7.8	8.1	15	AA					
19	1.901	7.5	8.0	14	AA					
20	1.944	7.7	7.9	14	AA					
21	1.842	7.8	7.9	13	AA					
22	1.873	6.5	7.8	13	AA	9.8	AE	AA	2.0	0.
23	1.856	7.7	7.9	13	AA					
24	1.880	7.8	7.9	13	AA					
25	1.820	7.8	8.0	14	AA					
26	1.944	7.8	7.9	13	AA					
27	1.898	7.8	7.9	14	AA					
28	1.869	7.8	7.9	14	AA					
29	1.904	7.8	7.9	14	AA					
30	1.907	7.8	7.8	13	AA					
31										
	62.409	N/A	N/A	N/A	60.0	36.8	AA	AA	7.1	1.
	2.080	N/A	N/A	16	2.0	9.2	AA	AA	1.8	0.
	2.457	7.9	8.1	20	2.0	9.8	AA	AA	2.0	0.
	1.820	6.5	7.4	13	AA	8.4	AA	AA	1.6	0.

(ADDITIONAL REMARKS: AH REPORTING CODES MUST BE EXPLAINED IN THIS SECTION)

AA: 00530 - 2.0 mg/l; 00550 - 5.0 mg/l; 00610 - 0.10 mg/l; 00630 - 0.1 mg/l
AA: 00951 - 0.01 mg/l.
AE:00550(9/16 & 22);Analytical data invalid due to improper sample preserva
Actual results were < 2.0 mg/l for each sample.

DISTRIBUTION
REPORTER

CERTIFY UNDER THE PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED AND TAKEN ON MY INC
THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLE
ARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT

DATE REPORT COMPLETED SIGNATURE OF REPORTER

13

NTHLY REPORT FORM

U.S. DEPARTMENT OF ENERGY 1100000400I OCT 1997 1 2 03/24/90 OH0009
Fernald Environmental
Management Project
P.O. Box 538704
Cincinnati, OH 45253-8704

4001 PARSHALL FLUME. EFFLUENT TO GREAT MIAMI RI
Hamilton

FORM

	1	1	1	3	2	3	3	2	2	2
	999	999	999	1	998	1	1	998	998	998
	CONDUI FLOW MGD	pH (MIN) S.U.	pH (MAX) S.U.	WATER TEMP. C	TOT.SUSP SOLIDS MG/L	DISS. OXYGEN MG/L	O & G TOTAL MG/L	NITRO NH3-N MG/L	NITRO NO2+NO3 MG/L	FLUOR TOTAL MG/
	50050	00402	00401	00010	00530	00300	00550	00610	00630	0095
01	1.914	7.8	7.9	13	AA	10.5	AA	AA	1.7	0.2
02	1.909	7.8	8.0	14	AA					
03	1.902	7.7	8.0	14	AA					
04	1.791	7.7	8.0	14	AA					
05	1.821	7.7	7.8	14	AA					
06	1.880	7.7	7.8	15	AA					
07	1.831	7.7	7.9	14	AA					
08	1.844	7.7	7.8	15	AA					
09	1.866	7.9	8.0	13	AA					
10	1.802	7.8	8.0	13	AA					
11	1.828	7.8	7.9	14	AA					
12	2.547	7.7	7.9	13	AA					
13	2.421	7.6	7.8	12	AA					
14	2.444	7.8	7.9	15	AA	8.7	AA	AA	1.3	0.4
15	2.278	7.8	7.8	13	AA					
16	2.186	7.5	7.6	13	AA					
17	1.800	7.4	7.6	16	AA					
18	0.065	7.4	7.6	16	AA					
19	0.461	7.7	7.9	15	3.2					
20	1.708	7.5	7.8	14	12.4	8.4	AA	AA	2.8	0.4
21	1.604	7.6	7.8	14	AA					
22	1.619	7.6	7.8	13	2.8					
23	1.731	7.7	7.8	20	AA					
24	1.603	7.6	7.8	13	AA					
25	1.582	7.8	7.8	13	AA					
26	1.645	7.7	7.8	13	AA	11.4	AA	AA	1.4	0.2
27	1.615	7.7	7.8	13	AA					
28	1.599	7.6	7.8	13	AA					
29	1.708	7.6	7.7	13	AA					
30	2.215	7.7	7.8	12	AA					
31	2.358	7.7	7.8	12	AA					
	55.577	N/A	N/A	N/A	74.4	39.0	AA	AA	7.2	1.4
	1.793	N/A	N/A	14	2.4	9.7	AA	AA	1.6	0.3
	2.547	7.9	8.0	20	12.4	11.4	AA	AA	2.8	0.4
	0.065	7.4	7.6	12	AA	8.4	AA	AA	1.3	0.2

AA: 00530 - 2.0 mg/l; 00550 - 5.0 mg/l; 00610 - 0.10 mg/l; 00630 - 0.1 mg/l;
AA: 00951 - 0.01 mg/l.

14

REPORTER 11/13/97

ARWWP Project M