

December 28, 2007

Task Order ST08-02-5-506
Control Number 1000-T08-0236

Ohio Environmental Protection Agency
Division of Environmental Services
Attention: Mr. John Spitler
401 East 5th Street
Dayton, OH 45402

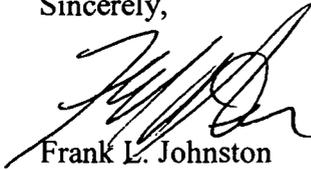
Dear Mr. Spitler:

SUBJECT: Contract No. DE-AC01-02GJ79491, Stoller
Task Order Number ST08-02-5-506, LM Fernald LTS&M
National Pollutant Discharge Elimination System (NPDES)
Permit Renewal Application – Fernald Preserve
NPDES Permit No. OH0009580

Enclosed are two copies of the 2008 Fernald Preserve National Pollutant Discharge Elimination System (NPDES) Permit Renewal Application and a \$200.00 check for the application fee.

If you have any questions, please contact me at (513) 648-5294.

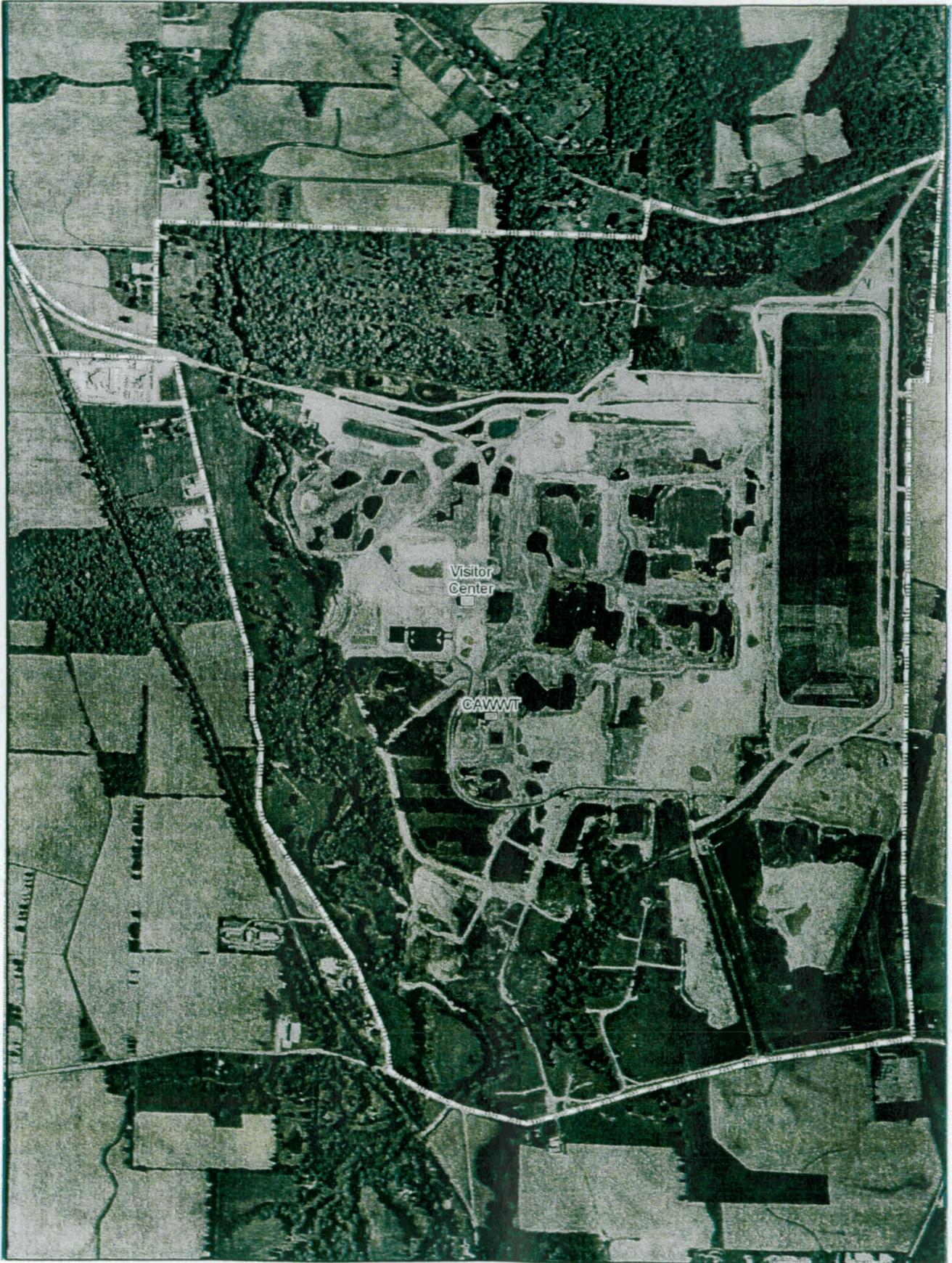
Sincerely,



Frank L. Johnston
Fernald Preserve Site Manager

FLJ/MES:dsm

c: Mary Sizemore, Stoller
AR Coordinator, Stoller (Thru W. Sumner - (2 copies)
Project File FER 115.02(A) (Thru W. Sumner)
Correspondence Control File (Thru D. Crawford)



Fernald Preserve

NPDES Permit Application - 1/2008

CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)			
A. FIRST		B. SECOND	
(specify)	NA	(specify)	
C. THIRD		D. FOURTH	
(specify)		(specify)	

VIII. OPERATOR INFORMATION		
A. NAME		B. Is the name listed in Item VIII-A also the owner?
S.M. Stoller		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)		D. PHONE (area code & no.)
F = FEDERAL S = STATE P = PRIVATE	M = PUBLIC (other than federal or state) O = OTHER (specify)	(513) 648 - 7500
O Government Contractor		

E. STREET OR P.O. BOX
10995 Hamilton-Cleves Highway

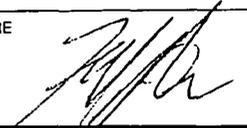
F. CITY OR TOWN	G. STATE	H. ZIP CODE	IX. INDIAN LAND
Harrison	OH	45030	Is this facility located on Indian lands? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

X. EXISTING ENVIRONMENTAL PERMITS		
A. NPDES (Discharges to surface water)	D. PSD (Air emissions from proposed sources)	
11O00004*GD	NA	
B. UIC (Underground injection of fluids)	E. OTHER (specify)	
NA	NA (specify)	
C. RCRA (Hazardous waste)	F. OTHER (specify)	
NA	NA (specify)	

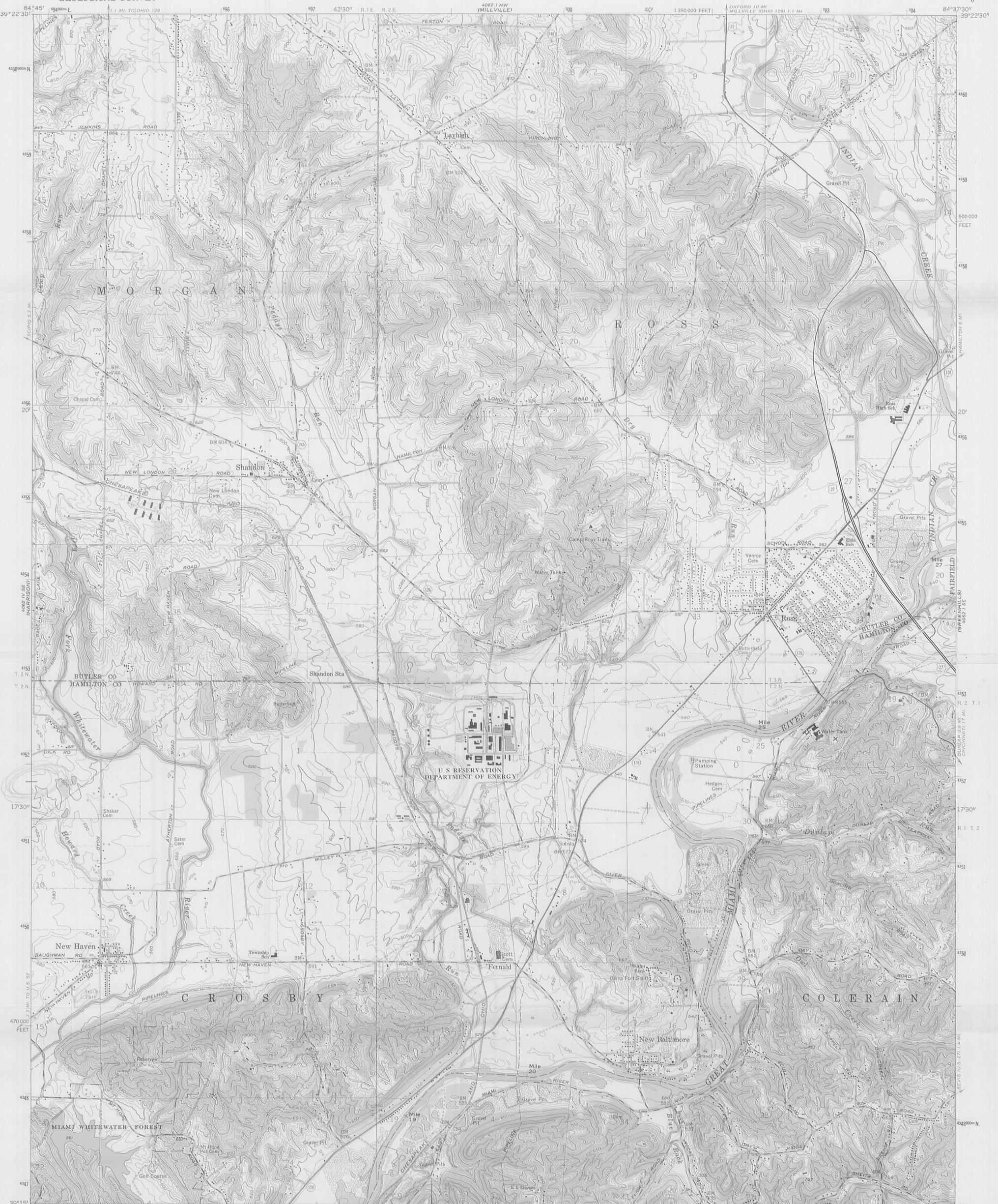
XI. MAP
Attach to this application a topographical map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers, and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)
See attached

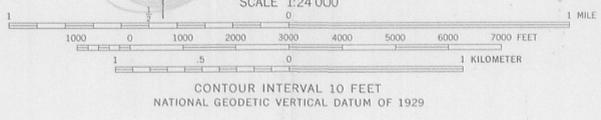
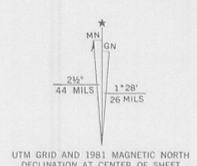
XIII. CERTIFICATION (see instructions)
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the 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.

A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED
Frank Johnston, Fernald Site Manager		12/26/07

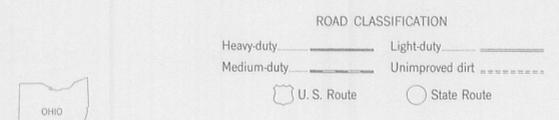
COMMENTS FOR OFFICIAL USE ONLY



Mapped, edited, and published by the Geological Survey in cooperation with the Defense Mapping Agency Revised in cooperation with State of Ohio agencies Control by USGS, NOS/NOAA, and City of Cincinnati Topography by photogrammetric methods from aerial photographs taken 1954. Field checked 1955. Revised 1965 Polyconic projection. 10,000-foot grid ticks based on Ohio coordinate system, south zone. 1000-meter Universal Transverse Mercator grid ticks, zone 16, shown in blue. 1927 North American Datum. To place on the predicted North American Datum 1983 move the projection lines 3 meters south and 5 meters west as shown by dashed corner ticks Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked Area west of the Great Miami River lies within the Miami River Survey Area east of the Great Miami River lies within the Between the Miamis Land Lines based on the Great Miami River Base. Dotted land lines established by private subdivision of the Symmes Purchase There may be private inholdings within the boundaries of the National or State reservations shown on this map



CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

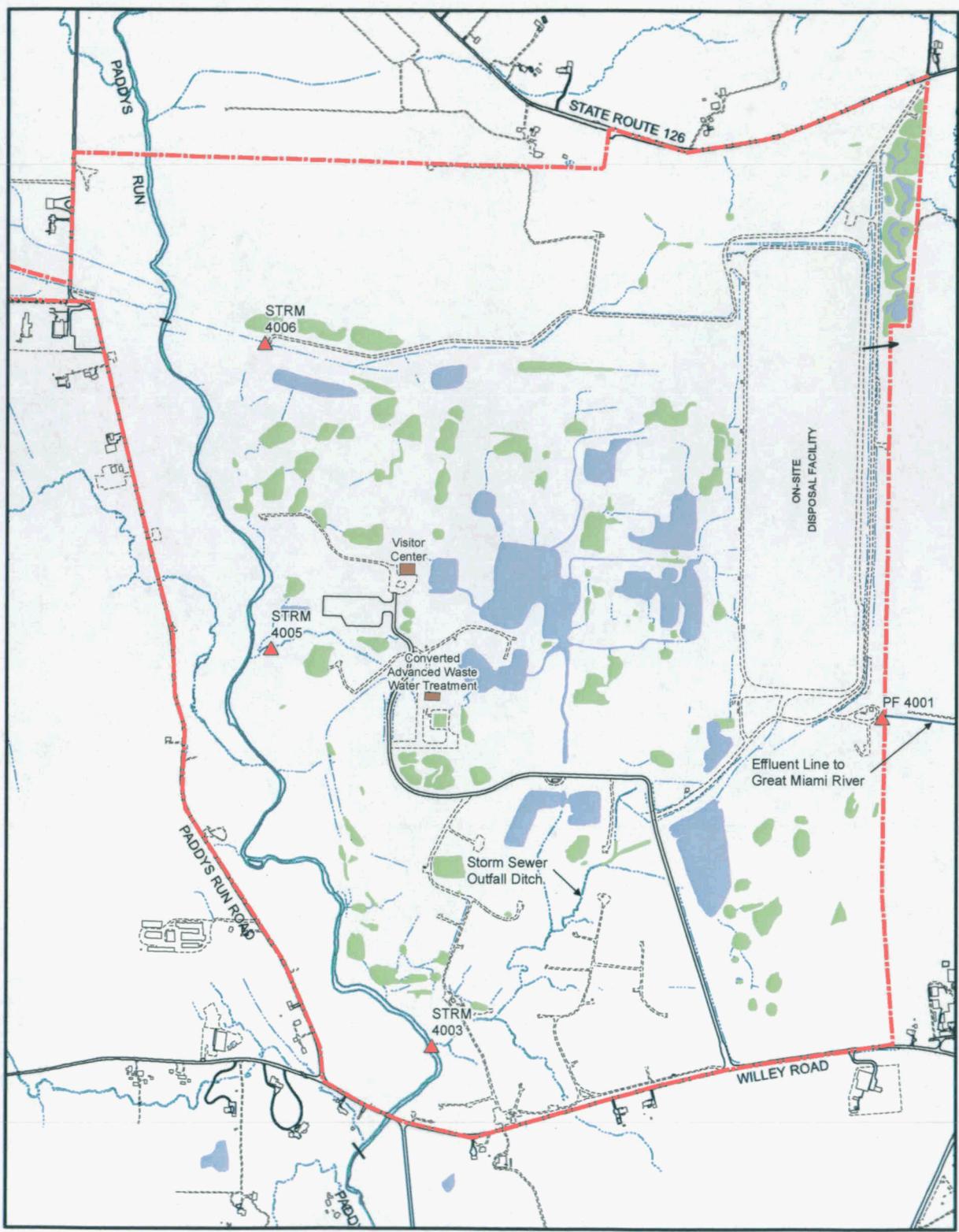


THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS FOR SALE BY U.S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092 A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

Revisions shown in purple and woodland compiled in cooperation with State of Ohio agencies from aerial photographs taken 1975 and other sources. This information not field checked. Map edited 1981

SHANDON, OHIO
N3915-W8437.5/7.5
1965
PHOTOREVISED 1981
DMA 4062 1 SW-SERIES V852

\\offsite_fred\GIS\OH\Fernald\ProjectWork\Map\Map\MPDES\MPDES_ppp_basemap.mxd 12/18/07



- | | | |
|----------------------------|---------------------|------------|
| Stormwater Discharge Point | Road-paved | Wetland |
| Fernald Preserve Boundary | Road-gravel | Open Water |
| Building | Intermittent Stream | Creek |



FERNALD PRESERVE SITE MAP



Fernald Preserve

EPA Form 3510-1; Section XII. Nature of Business

The Fernald Preserve is owned by the U. S. Department of Energy (DOE) and operated, under prime contract, by S. M. Stoller Corporation. The U.S. DOE Fernald Preserve was formerly the Feed Materials Production Center (FMPC) which was a large scale, fully integrated facility for producing uranium metal. The uranium metal was then fabricated into fuel cores and target elements for use in nuclear reactors at other DOE sites, or into other forms required by the Department of Defense. The U.S. DOE Fernald Preserve ceased uranium production in July 1989 and was formally dedicated to environmental cleanup and restoration in August 1991. Site remediation is being conducted under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

The Declaration of Physical Completion occurred on October 29, 2006. All accessible areas of the site are certified and approved by United States Environmental Protection Agency (US EPA) and Ohio Environmental Protection Agency (OEPA), the on-site disposal facility (OSDF) is complete, all required groundwater infrastructure is installed, operational and secured, and restoration activities are complete. The site is designated as a nature preserve. Much of the 1050 acres (425 hectares) of the Fernald site property is undeveloped land that provides habitat for a variety of animals and plants. Wetlands, deciduous and riparian (stream side) woodlands, old fields, grasslands, and aquatic habitats are among the site's natural resources

Current activities include remedial actions pursuant to the Consent Agreement between DOE and the US EPA as amended under CERCLA sections 120 & 106(a), involving primarily maintenance and monitoring of institutional controls, monitoring the on-site disposal facility, groundwater remediation, environmental monitoring, and ecological restoration.

USEPA and DOE have executed five individual Records of Decision (ROD) under CERCLA for each of the five Operable Units (OUs) at the site. All site activities with respect to OUs one through four have been completed. References to Final Remedial Action Reports are provided below. OU-5 will remain open until completion of the groundwater remedy.

OPERABLE UNIT 1 (OU-1)

A Final Remedial Action Report documenting completion of OU-1 remedial actions was prepared by DOE and approved by US EPA and OEPA in August and September 2006, respectively.

OPERABLE UNIT 2 (OU-2)

A Final Remedial Action Report documenting completion of OU-2 remedial actions was prepared by DOE and approved by US EPA and OEPA in September 2006.

OPERABLE UNIT 3 (OU-3)

A Final Remedial Action Report documenting completion of OU-3 remedial actions was prepared by DOE and approved by US EPA and OEPA in December 2006.

OPERABLE UNIT 4 (OU-4)

A Final Remedial Action Report documenting completion of OU-4 remedial actions was prepared by DOE and approved by US EPA and OEPA in September and October 2006 respectively.

OPERABLE UNIT 5 (OU-5)

OU-5 contains the environmental media that has been contaminated by releases from the four source operable units defined above. OU-5 contained a large volume of contaminated soil and groundwater exhibiting relatively low contaminant concentrations. Prior to site closure remedial actions included the extraction and treatment of contaminated groundwater from the Great Miami Aquifer through the Converted Advanced Wastewater Treatment Facility (CAWWT); treatment of contaminated storm water and wastewater; and the excavation and placement of contaminated soils in the engineered OSDF. Post closure activities include the extraction and treatment of contaminated groundwater from the Great Miami Aquifer through the Converted Advanced Wastewater Treatment Facility (CAWWT). The OU-5 ROD was signed on January 31, 1996.

The contaminated soils have been excavated and placed in the engineered OSDF. A total of 2,956,221 in-place yd³ (2,260,327 m³) of contaminated soil and debris were placed in the On-site Disposal Facility (OSDF). Approximately 1049 acres of land have been certified as meeting established final remediation levels.

While no estimate of the end point of groundwater remediation is possible, the infrastructure needed is in place and operational. All treatment systems have been installed. In 2007, a total of 340 M gal (1300 M liters) of groundwater was treated at the Converted Advanced Wastewater Treatment Facility (CAWWT).



CONTINUED FROM THE FRONT

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?
 YES (complete the following table) NO (go to Section III)

1. OUTFALL NUMBER (list)	2. OPERATION(S) CONTRIBUTING FLOW (list)	3. FREQUENCY		4. FLOW				C. DURATION (in days)
		a. DAYS PER WEEK (specify average)	b. MONTHS PER YEAR (specify average)	a. FLOW RATE (in mgd)		B. TOTAL VOLUME (specify with units)		
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	

III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?
 YES (complete Item III-B) NO (go to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measure of operation)?
 YES (complete Item III-C) NO (go to Section IV)

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

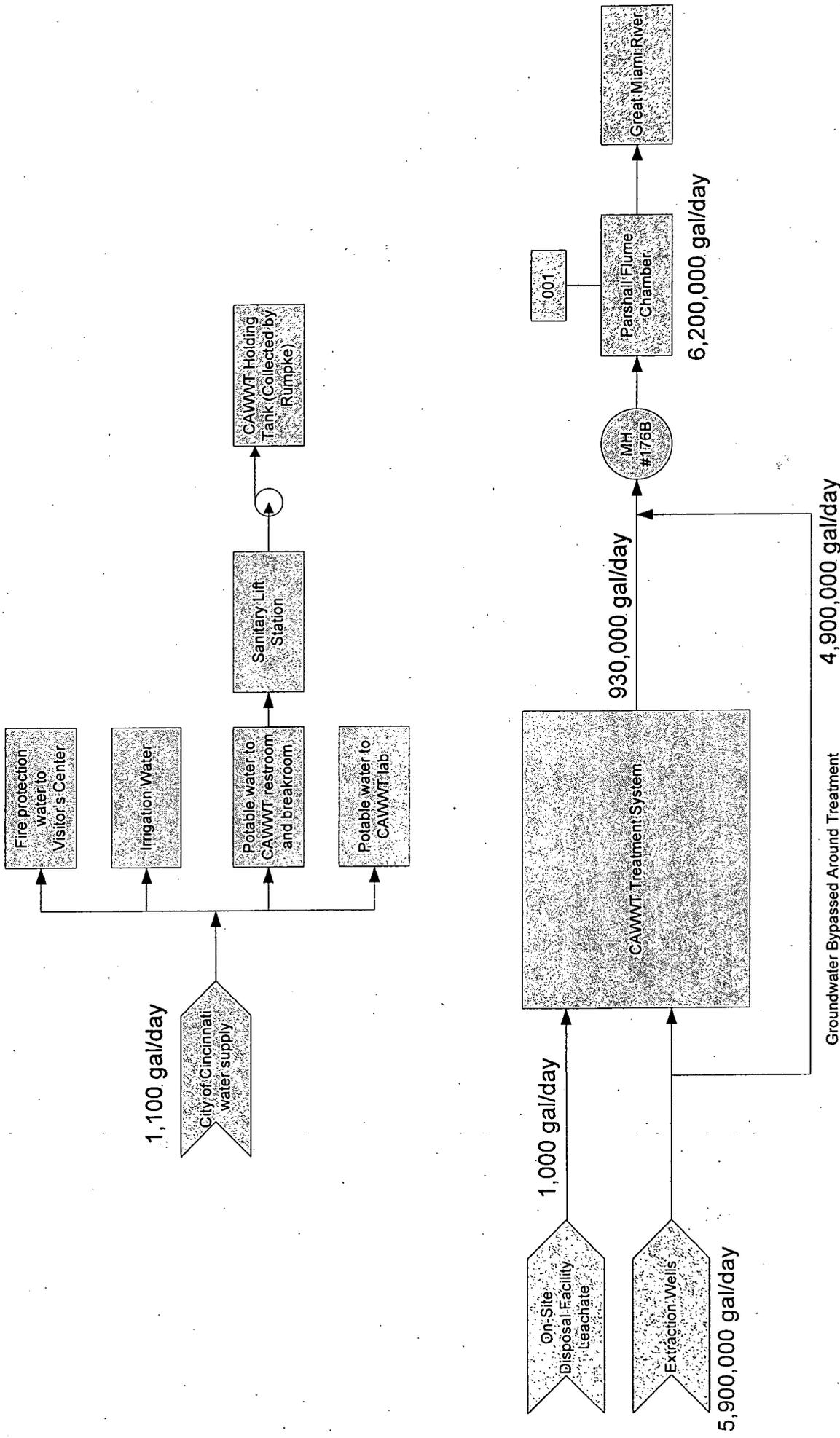
1. AVERAGE DAILY PRODUCTION			2. AFFECTED OUTFALLS (list outfall numbers)
a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. (specify)	

IV. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operations of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.
 YES (complete the following table) NO (go to Item IV-B)

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE	
	a. NO.	b. SOURCE OF DISCHARGE		a. REQUIRED	b. PROJECTED
Consent Agreement as Amended under CERCLA Sections 120 & 106(a)	4001	Wastewater, storm water, groundwater	Remediation of the Fernald Preserve in accordance with records of decision for the one open Operable Unit (OU-5) listed below:	n/a	n/a
OU5 ROD Effective 1/31/1996 ESD for OU5 effective 12/01/2001	4001	Wastewater, storm water, groundwater	Care and maintenance of an On-Site Disposal Facility, groundwater extraction and treatment, and implementing institutional controls.	n/a	n/a

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction.
 MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED



NPDES Permit Application
 Fernald Preserve
 Water Flow Schematic

EPA I.D. NUMBER (copy from Item 1 of Form 1)
 OH0009580

CONTINUED FROM PAGE 2

V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding – Complete one set of tables for each outfall – Annotate the outfall number in the space provided.
 NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
Uranium	Contamination of soil and groundwater as a result of past manufacturing activities.		
NOTE: Source, special nuclear material, and byproduct materials are not Clean Water Act pollutants under 40 CFR 122.2 and any data provided in the application concerning these materials is for informational purposes only. Uranium data on file with OEPA-OFFO			

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

YES (list all such pollutants below)

NO (go to Item VI-B)

Empty space for listing pollutants and providing details for 'YES' response.

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VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

YES (identify the test(s) and describe their purposes below)

NO (go to Section VIII)

(This area is blank as the respondent selected "NO".)

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

YES (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)

NO (go to Section IX)

A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)
GEL LABORATORIES, LLC	2040 SAVAGE RD. CHARLESTON, SC 29407	(843) 556-8171	phenols, cyanide, mercury, oil&grease, chloroform, 1,1-dichloroethane, trichloroethylene, Total Organic Carbon, bis(2-ethylhexyl) phthalate, total metals: (aluminum, antimony, arsenic, barium, beryllium, boron, cadmium, chromium, cobalt, copper, iron, lead, magnesium, manganese, molybdenum, nickel, selenium, thallium, tin, and zinc), sulfide, bromide, Nitrate/Nitrite, Total Organic Nitrogen, Total Kjeldahl Nitrogen, ammonia, total alpha, total beta, Radium-226, Radium-228

IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. NAME & OFFICIAL TITLE (type or print) Frank Johnston, Fernald Site Manager	B. PHONE NO. (area code & no.) (513) 648-5294
C. SIGNATURE 	D. DATE SIGNED 12/26/07

Form 3510-2C Section VIII

Introduction to Analytical Data for Outfall 4001 (Parshall Flume)

Samples were collected in accordance with the "Project Specific Plan for NPDES Permit Renewal Application Sampling and Analysis prepared by SM Stoller Corporation. This project specific plan was developed in accordance with 40 CFR 136 sampling and analysis instructions, EPA-3510 Form-2C instructions, as well as the Sitewide CERCLA Quality Assurance Project Plan (SCQ).

Samples were collected on November 1, 2007 in accordance with Fernald's Proposed Sampling and Analysis Campaign letter to OEPA dated August 29, 2007. Data have been reported per EPA Form 3510-2C instructions whereby information for daily maximum, 30-day maximum and long-term average values (in terms of concentration and mass) as required. For parameters that are currently permitted for which data have been reported through monthly discharge monitoring reports, the maximum, 30-day maximum and long-term average values were based on data submitted from November 1, 2006 through November 1, 2007. This time frame is relevant because it represents our ongoing operations. Remediation was completed in October 2006. The sample results from the NPDES permit application sampling and analysis plan were factored into these values. Currently permitted parameters are identified where the "number of analysis" column is greater than one.

For parameters not currently permitted, a 30-day maximum and long term average value cannot be provided. For parameters permitted that require quarterly samples, a 30-day maximum average value was not provide, however a long term average value was provided using quarterly results.

Analytical data is provided for all parameters with the exception for titanium. Samples for titanium were not collected because they could not be analyzed at either the on-site or offsite labs using the currently approved EPA method. The US DOE Fernald Preserve does not believe titanium would be present in the discharge.

As required, an indication of a parameter's presence or absence in the effluent is provided. A "believed present" designation is based on a professional judgment as to a parameters presence in a source (e.g. groundwater contaminant), the treatment path and treatment efficiency the parameters would likely undergo, and ultimately, the likelihood of it being detected in the combined discharge to the Great Miami River.

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages.
SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)
OH0009580

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO.
4001

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT				3. UNITS (specify if blank)				4. INTAKE (optional)			
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Biochemical Oxygen Demand (BOD)	2	65.1	n/a	n/a	n/a	n/a	1	mg/L	kg	n/a	n/a	n/a
b. Chemical Oxygen Demand (COD)	2.71	88.3	n/a	n/a	n/a	n/a	1	mg/L	kg	n/a	n/a	n/a
c. Total Organic Carbon (TOC)	28	912.1	n/a	n/a	n/a	n/a	1	mg/L	kg	n/a	n/a	n/a
d. Total Suspended Solids (TSS)	10.8	352	2.6	73.2	2.1	49.6	353	mg/L	kg	n/a	n/a	n/a
e. Ammonia (as N)	0.26	8.5	0.06	1.6	0.03	0.72	117	mg/L	kg	n/a	n/a	n/a
f. Flow	VALUE	8.61 MGD	VALUE	7.42 MGD	VALUE	6.17 MGD	353	n/a	n/a	VALUE	n/a	n/a
g. Temperature (winter)	VALUE	12.32	VALUE	11.21	VALUE	10.99	179	°C	°C	VALUE	n/a	n/a
h. Temperature (summer)	VALUE	12.70	VALUE	11.30	VALUE	11.18	172	°C	°C	VALUE	n/a	n/a
i. pH	MINIMUM	7.35	MAXIMUM	8.7			345	STANDARD UNITS	STANDARD UNITS			

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X'		3. EFFLUENT				4. UNITS				5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Bromide (24959-87-9)	X		0.066	2.1	n/a	n/a	n/a	n/a	1	mg/L	kg	n/a	n/a	n/a
b. Chlorine, Total Residual	X		<0.05	1.6	<0.05	1.4	<0.05	1.2	46	mg/L	kg	n/a	n/a	n/a
c. Color	X		33	n/a	n/a	n/a	n/a	n/a	1	PCU	n/a	n/a	n/a	n/a
d. Fecal Coliform	X		0	n/a	n/a	n/a	n/a	n/a	1	cfu100ml	kg	n/a	n/a	n/a
e. Fluoride (18984-48-8)	X		0.4	13	0.4	11	0.22	5.1	13	mg/L	kg	n/a	n/a	n/a
f. Nitrate-Nitrite (as N)	X		1.99	65	1.99	56	0.81	21	14	mg/L	kg	n/a	n/a	n/a

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE	
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS
g. Nitrogen, Total Organic (as N)	X		0.073	2.4	n/a	n/a	1	mg/L	kg	n/a	n/a
h. Oil and Grease	X		13.5	440	6.69	188	97	mg/L	kg	n/a	n/a
i. Phosphorus (as P), Total (7723-14-0)	X		0.024	0.8	n/a	n/a	1	mg/L	kg	n/a	n/a
j. Radioactivity											
(1) Alpha, Total	X		22.1	7.2E-4	n/a	n/a	1	pCi/L	Ci	n/a	n/a
(2) Beta, Total	X		16.6	5.4E-4	n/a	n/a	1	pCi/L	Ci	n/a	n/a
(3) Radium, Total	X		1.380	4.5E-5	n/a	n/a	1	pCi/L	Ci	n/a	n/a
(4) Radium 226, Total	X		0.822	2.7E-5	n/a	n/a	1	pCi/L	Ci	n/a	n/a
k. Sulfate (as SO ₄) (14808-79-8)	X		87.5	2.9E+3	n/a	n/a	1	mg/L	kg	n/a	n/a
l. Sulfide (as S)	X		0.030	1.0	n/a	n/a	1	mg/L	kg	n/a	n/a
m. Sulfite (as SO ₃) (14265-45-3)	X	X	1.3	42.3	n/a	n/a	1	mg/L	kg	n/a	n/a
n. Surfactants	X	X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
o. Aluminum, Total (7429-90-5)	X		10.2	0.3	n/a	n/a	n/a	ug/L	kg	n/a	n/a
p. Barium, Total (7440-39-3)	X		69	1.9	54.0	1.5	140	ug/L	kg	n/a	n/a
q. Boron, Total (7440-42-8)	X		44.7	1.5	44.7	1.3	14	ug/L	kg	n/a	n/a
r. Cobalt, Total (7440-48-4)	X		0.54	1.8E-2	0.31	8.6E-3	94	ug/L	kg	n/a	n/a
s. Iron, Total (7439-89-6)	X		783	25.5	n/a	n/a	1	ug/L	kg	n/a	n/a
t. Magnesium, Total (7439-95-4)	X		28000	912.1	n/a	n/a	1	ug/L	kg	n/a	n/a
u. Molybdenum, Total (7439-98-7)	X		2.4	7.8E-2	2.1	5.9E-2	140	ug/L	kg	n/a	n/a
v. Manganese, Total (7439-96-5)	X		269	8.8	156	4.4	94	ug/L	kg	n/a	n/a
w. Tin, Total (7440-31-5)		X	1	3.3E-2	n/a	n/a	1	ug/L	kg	n/a	n/a
x. Titanium, Total (7440-32-6)		X	no data	see	intro.	n/a	n/a	n/a	n/a	n/a	n/a

CONTINUED FROM PAGE 3 OF FORM 2-C

EPA ID. NUMBER (copy from Item 1 of Form 1) **OH0009580**
 OUTFALL NUMBER **4001**

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT			4. UNITS			5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	b. NO. OF ANALYSES	
												(2) MASS
METALS, CYANIDE, AND TOTAL PHENOLS												
1M. Antimony, Total (7440-36-0)			X	<0.50	1.4E-2	<0.50	1E-2	14	ug/L	kg	n/a	n/a
2M. Arsenic, Total (7440-38-2)			X	<1.50	4.2E-1	<1.5	4E-2	14	ug/L	kg	n/a	n/a
3M. Beryllium, Total (7440-41-7)			X	<0.10	2.8E-3	<0.10	2E-3	14	ug/L	kg	n/a	n/a
4M. Cadmium, Total (7440-43-9)		X		0.35	1.1E-2	0.12	2E-3	140	ug/L	kg	n/a	n/a
5M. Chromium, Total (7440-47-3)		X		2.4	7.8E-2	1.12	2E-3	140	ug/L	kg	n/a	n/a
6M. Copper, Total (7440-50-8)		X		5.2	1.7E-1	1.19	2E-2	140	ug/L	kg	n/a	n/a
7M. Lead, Total (7439-92-1)			X	<0.50	1.6E-2	<0.50	1E-2	140	ug/L	kg	n/a	n/a
8M. Mercury, Total (7439-97-6)		X		4.74	1.5E-1	4.74	2E-2	14	ng/L	kg	n/a	n/a
9M. Nickel, Total (7440-02-0)		X		4.8	1.6E-1	2.9	5E-2	140	ug/L	kg	n/a	n/a
10M. Selenium, Total (7782-49-2)			X	2.5	8.1E-2	2.5	5E-2	140	ug/L	kg	n/a	n/a
11M. Silver, Total (7440-22-4)			X	0.32	1.0E-2	0.21	5E-3	140	ug/L	kg	n/a	n/a
12M. Thallium, Total (7440-28-0)			X	0.59	1.9E-2	n/a	n/a	1	ug/L	kg	n/a	n/a
13M. Zinc, Total (7440-66-6)		X		2	5.3E-2	8.3	9E-2	140	ug/L	kg	n/a	n/a
14M. Cyanide, Total (57-12-5)			X	<0.0015	4.9E-2	<0.0015	4E-2	14	mg/L	kg	n/a	n/a
15M. Phenols, Total			X	0.00165	5.4E-2	n/a	n/a	1	mg/L	kg	n/a	n/a
DIOXIN												
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1794-01-6)			X									

DESCRIBE RESULTS
n/a

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS				5. INTAKE (optional)				
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - VOLATILE COMPOUNDS															
1V. Acrolein (107-02-6)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2V. Acrylonitrile (107-13-1)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
3V. Benzene (71-43-2)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4V. Bis (C'loro-methyl) Ether (542-88-1)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
5V. Bromoform (75-25-2)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6V. Carbon Tetrachloride (56-23-5)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
7V. Chlorobenzene (108-90-7)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8V. Chloro-bromomethane (124-48-1)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
9V. Chloroethane (75-00-3)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
10V. 2-Chloro-ethylvinyl Ether (110-75-8)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
11V. Chloroform (67-66-3)			X	<1	3.3E-2	n/a	n/a	<1	2.E-2	8	ug/L	kg	n/a	n/a	n/a
12V. Dichloro-bromomethane (75-27-4)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
13V. Dichloro-difluoromethane (75-71-8)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
14V. 1,1-Dichloro-ethane (75-34-3)			X	<1	3.3E-2	n/a	n/a	<1	2E-2	10	ug/L	kg	n/a	n/a	n/a
15V. 1,2-Dichloro-ethane (107-06-2)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
16V. 1,1-Dichloro-ethylene (75-35-4)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
17V. 1,2-Dichloro-propane (78-87-5)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
18V. 1,3-Dichloro-propylene (542-75-6)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
19V. Ethylbenzene (100-41-4)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
20V. Methyl Bromide (74-83-9)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
21V. Methyl Chloride (74-87-3)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)		b. NO. OF ANALYSES	
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1)		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)	d. NO. OF ANALYSES	a. CONCENTRATION		b. MASS
				CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS					
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)												
22V. Methylene Chloride (75-09-2)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
24V. Tetrachloroethylene (127-18-4)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
25V. Toluene (108-88-3)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
27V. 1,1,1-Trichloroethane (71-55-6)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
28V. 1,1,2-Trichloroethane (79-00-5)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
29V. Trichloroethylene (79-01-6)			X	<1	3.3E-2	n/a	n/a	<1	2E-2	8	kg	n/a
30V. Trichlorofluoromethane (75-69-4)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
31V. Vinyl Chloride (75-01-4)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC/MS FRACTION - ACID COMPOUNDS												
1A. 2-Chlorophenol (95-57-8)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2A. 2,4-Dichlorophenol (120-83-2)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
3A. 2,4-Dimethylphenol (105-67-9)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
5A. 2,4-Dinitrophenol (51-28-5)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6A. 2-Nitrophenol (88-75-5)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
7A. 4-Nitrophenol (100-02-7)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8A. P-Chloro-M-Cresol (59-50-7)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
9A. Pentachlorophenol (87-86-5)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
10A. Phenol (108-95-2)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
11A. 2,4,6-Trichlorophenol (88-05-2)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'		3. EFFLUENT				4. UNITS				5. INTAKE (optional)				
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. NO OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2B. Acenaphthylene (208-96-8)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
3B. Anthracene (120-12-7)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4B. Benzidine (92-87-5)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
5B. Benzo (a) Anthracene (56-35-3)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6B. Benzo (a) Pyrene (50-32-8)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
7B. 3,4-Benzo-fluoranthene (205-99-2)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8B. Benzo (ghi) Perylene (191-24-2)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
9B. Benzo (k) Fluoranthene (207-08-9)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
10B. Bis (2-Chloro-ethyl) Methane (111-91-1)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
12B. Bis (2-Chloroisopropyl) Ether (102-80-1)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
13B. Bis (2-Ethyl-hexyl) Phthalate (117-81-7)			X	<10	3.3E-1	n/a	n/a	<7.0	2E-1	8	ug/L	kg	n/a	n/a	n/a
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
15B. Butyl Benzyl Phthalate (85-88-7)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
16B. 2-Chloro-naphthalene (91-58-7)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
18B. Chrysene (218-01-9)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
19B. Dibenzo (a,h) Anthracene (53-70-3)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
20B. 1,2-Dichloro-benzene (95-50-1)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
21B. 1,3-Di-chloro-benzene (541-73-1)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS				5. INTAKE (optional)		
	a. TESTING REQUIRED (if available)	b. BELIEVED PRESENT	c. BELIEVED ABSENT	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		a. CONCENTRATION	b. MASS	d. NO. OF ANALYSES	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)													
22B. 1,4-Dichloro-benzene (106-46-7)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
23B. 3,3-Dichloro-benzidine (91-94-1)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
24B. Diethyl Phthalate (84-66-2)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
25B. Dimethyl Phthalate (131-11-3)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
26B. Di-N-Butyl Phthalate (84-74-2)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
27B. 2,4-Dinitro-toluene (121-14-2)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
28B. 2,6-Dinitro-toluene (86-20-2)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
29B. Di-N-Octyl Phthalate (117-84-0)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
30B. 1,2-Diphenyl-hydrazine (as Azobenzene) (122-86-7)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
31B. Fluoranthene (206-44-0)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
32B. Fluorene (86-73-7)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
33B. Hexachloro-benzene (118-74-1)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
34B. Hexachloro-butadiene (87-68-3)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
35B. Hexachloro-cyclopentadiene (77-47-4)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
36B. Hexachloro-ethane (67-72-1)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
38B. Isophorone (78-59-1)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
39B. Naphthalene (91-20-3)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
40B. Nitrobenzene (98-95-3)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
41B. N-Nitro-sodimethylamine (62-75-9)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS				5. INTAKE (optional)		b. NO. OF ANALYSES		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS		a. LONG TERM AVERAGE VALUE	
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS					(1) CONCENTRATION	(2) MASS
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitrosodiphenylamine (86-30-6)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
44B. Phenanthrene (85-01-8)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
45B. Pyrene (129-00-0)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
46B. 1,2,4-Trichlorobenzene (120-82-1)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
GC/MS FRACTION - PESTICIDES															
1P. Aldrin (309-00-2)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
2P. α-BHC (319-84-6)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
3P. β-BHC (319-85-7)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
4P. γ-BHC (58-89-9)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
5P. δ-BHC (319-86-8)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
6P. Chlordane (97-74-9)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
7P. 4,4'-DDT (50-29-3)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
8P. 4,4'-DDE (72-55-9)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
9P. 4,4'-DDD (72-54-8)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
10P. Dieldrin (60-57-1)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
11P. α-Endosulfan (115-29-7)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
12P. β-Endosulfan (115-29-7)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
13P. Endosulfan Sulfate (1031-07-8)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
14P. Endrin (72-20-8)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
15P. Endrin Aldehyde (7421-93-4)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
16P. Heptachlor (76-44-8)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	

EPA I.D. NUMBER (copy from Item 1 of Form 1)
OH0009580

OUTFALL NUMBER
4001

CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT		4. UNITS		5. INTAKE (optional)		b. NO. OF ANALYSES	
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT		a. CONCENTRATION	b. MASS	5. INTAKE (optional)		
				a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS			c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION		(2) MASS
GC/MS FRACTION - PESTICIDES (continued)										
17P. Heptachlor Epoxide (1024-57-3)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a
18P. PCB-1242 (53469-21-9)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a
19P. PCB-1254 (11097-89-1)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a
20P. PCB-1221 (11104-28-2)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a
21P. PCB-1232 (11141-16-5)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a
22P. PCB-1246 (12672-29-6)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a
23P. PCB-1260 (11096-82-5)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a
24P. PCB-1016 (12674-11-2)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a
25P. Toxaphene (8001-35-2)			X	n/a	n/a	n/a	n/a	n/a	n/a	n/a

EPA Form 3510-2C (8-90)

PAGE V-9



Please print or type in the unshaded areas only.

FORM
2F
NPDES



U.S. Environmental Protection Agency
Washington, DC 20460

**Application for Permit to Discharge Storm Water
Discharges Associated with Industrial Activity**

Paperwork Reduction Act Notice

Public reporting burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

I. Outfall Location

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. Outfall Number (list)	B. Latitude			C. Longitude			D. Receiving Water (name)
4003	39	17	17	84	41	32	Paddys Run
4005	39	17	40	84	41	50	Paddys Run
4006	39	18	14	84	41	51	Paddys Run

II. Improvements

A. Are you now required by any Federal, State, or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

1. Identification of Conditions, Agreements, Etc.	2. Affected Outfalls		3. Brief Description of Project	4. Final Compliance Date	
	number	source of discharge		a. req.	b. proj.
Consent Agreement As Amended Under CERCLA Sections 120 & 106 (a)	4003, 4005, and 4006	Storm water	Remediation of the site in accordance with Record of Decision for Operable Unit (OU-5) listed below NOTE: OU-1, OU-2, OU-3 and OU-4 were previously remediated and their Final Remediation Action Reports have been approved by USEPA and OEPA		
OU-5 ROD Effective 1/31/96	4003,	Storm water, wastewater,	Groundwater treatment, environmental		
ESD for OU-5 Effective 12/1/01	4005, and 4006	and groundwater	monitoring, ecological restoration, monitoring onsite disposal facility, and implementing institutional controls		
Note: No final compliance dates are provided.					

B: You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

III. Site Drainage Map

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfalls(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each known past or present areas used for outdoor storage of disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which received storm water discharges from the facility.

Continued from the Front

IV. Narrative Description of Pollutant Sources

A. For each outfall, provide an estimate of the area (include units) of impervious surfaces (including paved areas and building roofs) drained to the outfall, and an estimate of the total surface area drained by the outfall.

Outfall Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)	Outfall Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)
4003	16.9 acres	716.9 acres			
4005	4.3 acres	48 acres			
4006	0.2 acres	213.7 acres			

B. Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow exposure to storm water; method of treatment, storage, or disposal; past and present materials management practices employed to minimize contact by these materials with storm water runoff; materials loading and access areas, and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied.

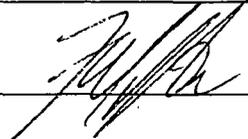
See attached.

C. For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge.

Outfall Number	Treatment	List Codes from Table 2F-1
4003	Nonstructural controls for all outfalls include the implementation of a Spill Prevention Control and Countermeasures Plan and the NPDES Permit required Storm Water Pollution Prevention Plan. These plans address inspection, training, and other administrative controls that help prevent or minimize the potential for release of pollutants via storm water.	4 - A
4005	Valve and pumping systems for several groundwater remediation modules are enclosed in shelters.	4 - A
4006	none	4 - A

V. Nonstormwater Discharges

A. I certify under penalty of law that the outfall(s) covered by this application have been tested or evaluated for the presence of nonstormwater discharges, and that all nonstormwater discharged from these outfall(s) are identified in either an accompanying Form 2C or Form 2E application for the outfall.

Name and Official Title (type or print)	Signature	Date Signed
Frank Johnston, Fernald Site Manager		12/26/07

B. Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test.

Process knowledge, review of as-built drawings, and visual inspection.

VI. Significant Leaks or Spills

Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released.

Prior to closure: no information was provided since any leaks or spills were remediated during closure activities and soil has been certified as meeting final remediation levels.

Post closure: During a thunderstorm on the evening of August 8, 2007 the power supply to the ground water extraction well field and to Converted Advanced Waste Water Treatment (CAWWT) facility was interrupted resulting in a shutdown of all wells, a partial shutdown at CAWWT, and automatic restart of most wells. When the wells automatically restarted, some of the well specific air release valves stuck in the open position. This resulted in groundwater spillage to the floor of the affected well house, which drained to the area around the well house. An incident report was generated and distributed internally to DOE, EPA, and OEPA on August 9.

VII. Discharge Information

A, B, C, & D: See instructions before proceeding. Complete one set of tables for each outfall. Annotate the outfall number in the space provided.
Table VII-A, VII-B, VII-C are included on separate sheets numbers VII-1 and VII-2.

E. Potential discharges not covered by analysis – is any toxic pollutant listed in table 2F-2, 2F-3, or 2F-4, a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

Yes (list all such pollutants below)

No (go to Section IX)

VIII. Biological Toxicity Testing Data

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

Yes (list all such pollutants below)

No (go to Section IX)

IX. Contract Analysis Information

Were any of the analyses reported in Item VII performed by a contract laboratory or consulting firm?

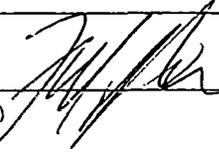
Yes (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)

No (go to Section X)

A. Name	B. Address	C. Area Code & Phone No.	D. Pollutants Analyzed
See information submitted for EPA Form 3510-2C, Part VIII			

X. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name & Official Title (Type Or Print) Frank Johnston, Fernald Site Manager	B. Area Code and Phone No. (513) 648-5294
C. Signature 	D. Date Signed 12/26/07

Form 3510-2F Section VB

Introduction to Analytical Data for Storm Water Outfall 4003

Samples were collected on November 1, 2007 in accordance with Fernald's Proposed Sampling and Analysis Campaign letter to OEPA dated August 29, 2007. Samples were collected on October 18, 2007 in accordance with the "Project Specific Plan for NPDES Permit Renewal Application Sampling and Analysis prepared by SM Stoller Corporation. This project specific plan was developed in accordance with 40 CFR 136 sampling and analysis instructions, EPA-3510 Form-2F instructions, as well as the Sitewide CERCLA Quality Assurance Project Plan (SCQ).

Results from the samples collected at Storm Water Outfall 4003 were used to characterize Storm Water Outfalls 4003, 4005, and 4005. Approval from OEPA via October 9, 2007 email to utilize the substantially identical clause was granted for these outfalls in response to Fernald's Proposed Sampling and Analysis Campaign letter to OEPA dated August 29, 2007.

All necessary composite samples were manually composited using the rain gauge method. Rainfall measurements were recorded approximately every 20 minutes corresponding to the collection of an aliquot. These aliquots were then combined into a composite sample based on the percentage of the corresponding rainfall between sampling periods to the total rainfall observed during the event (i.e. if the total event was 1-inch; and 0.1 inch of rain fell between the collection of aliquots; ten percent of the collected aliquot would be used in the composite sample).

EPA Form 3510-2F, Section IV B, "Narrative Description of Pollutant Sources"

The following paragraphs describe those materials, which have come into contact with storm water runoff within each of the three drainage basins discharging into Paddys Run. This description does not cover materials from past three year's activities, as site was remediated and over 1049 acres of soil has been certified and approved by US EPA and OEPA as meeting final remediation levels for clean-up.

Herbicide applications in certified areas (e.g. meets final remediation levels for soil) will be on an as needed basis at the direction of the Stoller Ecological Restoration group. Herbicides applied in certified areas include Plateau Selective Herbicide, Triplet non-selective, Rodeo non-selective, and Milestone non-selective. Pesticides are also used on an as-needed basis in these areas. These include Diazonon 56, Dunk, Dursban LO, and Demon 40 WP.

Drainage Basin 4003

The materials exposed to precipitation within this basin include unpaved roads, paved road, and land. The only industrial activities within this basin are pumping of uranium-contaminated groundwater, the associated treatment activities at the Converted Advanced Wastewater Treatment (CAWWT) facility, aquifer restoration and the current maintenance of the On-site Disposal Facility (OSDF).

Drainage Basin 4005

The materials exposed to precipitation within this basin include paved roads and land (woods, prairies, savannahs). The only industrial activities within this basin are pumping of uranium-contaminated groundwater.

Drainage Basin 4006

The materials exposed to precipitation within this basin include unpaved roads and land. The only industrial activity in the area is the current maintenance of a small corner of the OSDF.

EPA FORM 3510-2F - PART D

Pollutant	CAS #	GRAB CONC. MG/L	GRAB MASS LBS.	COMPOSITE CONC. MG/L	COMPOSITE MASS LBS.	Number of Samples Taken
Oil & Grease		< 1.5	< 37.5	NA	NA	1
Biochemical Oxygen Demand		6.7	167.6	5.8	144.5	1
Chemical Oxygen Demand		30.4	760.5	31.1	775.0	1
Total Suspended Solids		1.24E+01	310.2	1.04E+01	259.2	1
Total Kjeldahl Nitrogen		6.94E-01	17.4	6.48E-01	16.1	1
Nitrate + Nitrite Nitrogen		3.20E-01	8.0	4.00E-01	10.0	1
Total Phosphorus		9.40E-02	2.4	5.00E-02	1.2	1
pH (SU)		NA	NA	NA	NA	1

Date of Stormevent: October 18, 2007

Duration of Stormevent (minutes): 285

Total Rainfall During Stormevent (inches): 0.4

Number of Hours Between Beginning of Event and Previously Measured Rain Event: 43.67

Measured Rain Event: 10/16/2007 9:51 am
10/18/2007 5:30 am

Maximum Flow Rate Q_{max} During Event (cfs): 116.6

Total Flow from Rain Event (MG): 2.99

Season Sample was Taken: Summer

Form of Precipitation: Rainfall

Description of Flow Measurement:

Rationale formula $V(MG) = C \cdot A \cdot 0.027$, where:
 C = runoff coefficient
 V = total rainfall in inches
 A = drainage area in acres
 0.027 = conversion factor to million gallons

$Q_{max} = C \cdot (max\ diff.\ in\ inches) \cdot A \cdot 60\ min/20\ min$

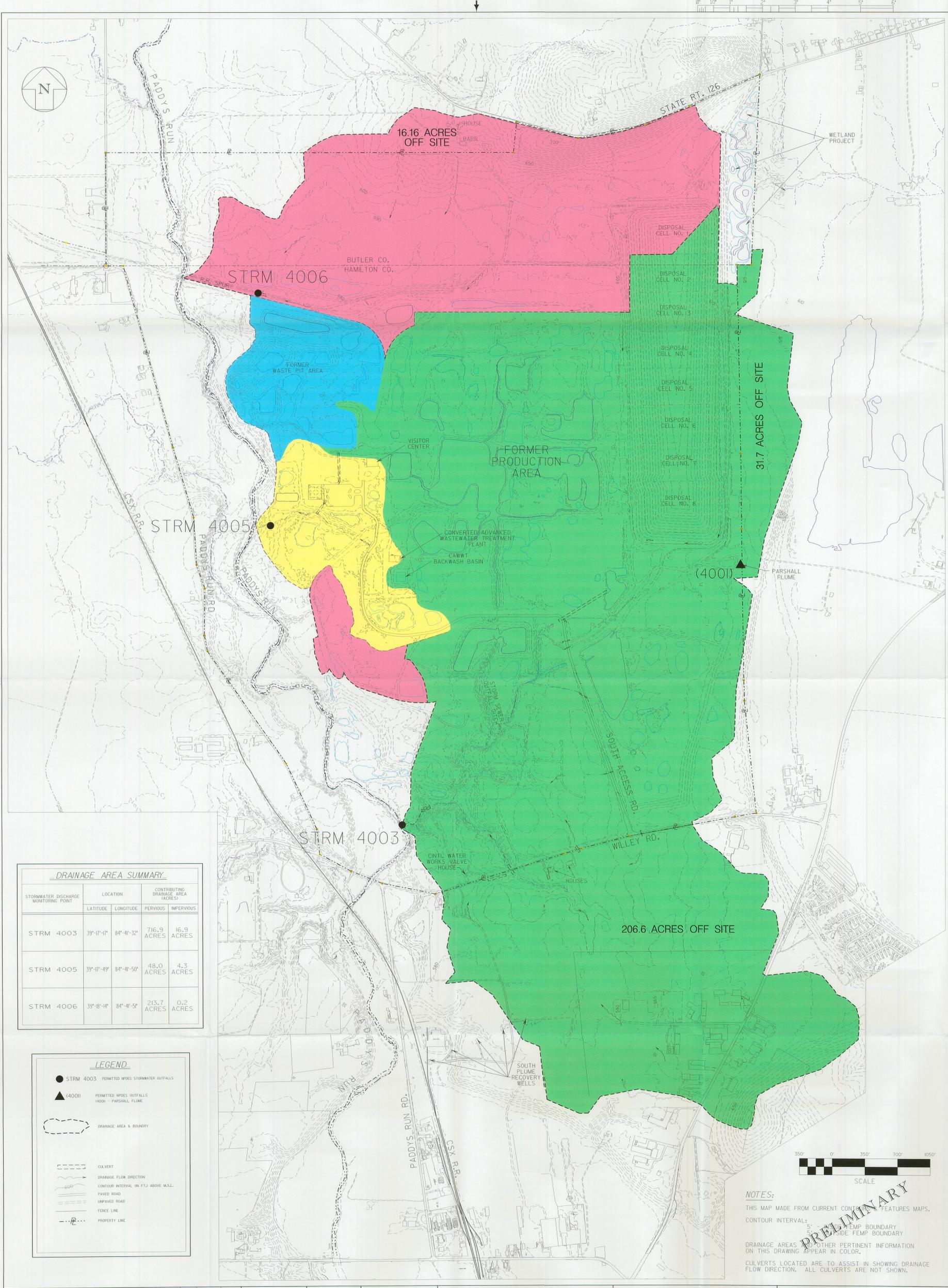
0.525
0.4
527

Pollutant	CAS #	GRAB CONC. MG/L	GRAB MASS LBS.	COMPOSITE CONC. MG/L	COMPOSITE MASS LBS.	Number of Samples Taken
1,1-Dichloroethane	75-34-3	< 1.00E-03	< 0.0	< 1.00E-03	< 2.49E-02	1
Antimony	7440-36-0	< 5.00E-04	< 0.0	< 5.00E-04	< 1.25E-02	1
Arsenic	7440-38-2	< 1.50E-03	< 0.0	2.30E-03	5.73E-02	1
Barium	7440-39-3	9.14E-02	2.3	8.94E-02	2.23E+00	1
Beryllium	7440-41-7	< 1.00E-04	< 2.50E-03	< 1.00E-04	< 2.49E-03	1
Biochemical Oxygen Demand	BOD	6.70E+00	167.6	5.80E+00	1.45E+02	1
Boron	7440-42-8	5.03E-02	1.3	4.63E-02	1.15E+00	1
COD		3.04E+01	760.5	3.11E+01	7.75E+02	1
Cadmium	7440-43-9	1.20E-04	0.0	1.30E-04	3.24E-03	1
Chlorine, Total Residual	CL-RESID	5.00E-02	1.3	N/A	N/A	1
Chloroform	67-66-3	< 1.00E-03	< 0.0	< 1.00E-03	< 2.49E-02	1
Chromium	7440-47-3	1.10E-03	0.0	< 1.00E-03	< 2.49E-02	1
Cobalt	7440-48-4	5.10E-04	0.0	< 1.00E-03	< 2.49E-02	1
Copper	7440-50-8	3.10E-03	0.1	2.90E-03	7.23E-02	1
Dissolved Oxygen	DO	6.08E+00	152.1	N/A	N/A	1
Fluoride	16984-48-8	1.60E-01	4.0	1.70E-01	4.24E+00	1
Lead	7439-92-1	5.00E-04	0.0	5.00E-04	1.25E-02	1
Manganese	7439-96-5	4.69E-02	1.2	3.24E-02	8.07E-01	1
Mercury	7439-97-6	2.30E-06	0.0	N/A	N/A	1
Molybdenum	7439-98-7	1.90E-03	0.0	1.90E-03	4.73E-02	1
NH3 as N	7664-41-7	< 3.00E-02	< 0.8	< 3.00E-02	< 7.48E-01	1
NO2+NO3 as N	NO2+NO3-N	3.20E-01	8.0	4.00E-01	9.97E+00	1
Nickel	7440-02-0	2.30E-03	0.1	2.00E-03	4.98E-02	1
Nitrogen, Total Kjeldahl	TKN	6.94E-01	17.4	6.48E-01	1.61E+01	1
Phosphorus, Total as P	TPO4	9.40E-02	2.4	5.00E-02	1.25E+00	1
Selenium	7782-49-2	< 1.00E-03	< 0.0	< 1.00E-03	< 2.49E-02	1
Silver	7440-22-4	< 2.00E-04	< 0.0	< 2.00E-04	4.98E-03	1
Total Suspended Solids	TSS	1.28E+01	320.2	1.04E+01	2.59E+02	1
Trichloroethylene	79-01-6	< 1.00E-03	0.0	< 1.00E-03	2.49E-02	1
Zinc	7440-66-6	6.00E-03	0.2	5.60E-03	1.40E-01	1
bis(2-Ethylhexyl)phthalate	117-81-7	< 1.00E-02	< 0.3	< 1.00E-02	< 2.49E-01	1
n-Hexane Extractable Material	O&G	1.53E+00	38.3	N/A	N/A	1
Specific Conductance	EC	0.617 mS/cm	N/A	N/A	N/A	1
Temperature	TMP	18.8 °C	N/A	N/A	N/A	1
Turbidity	TURBIDITY	19 NTU	N/A	N/A	N/A	1

EPA I.D. NUMBER OH0009580
 EPA FORM 3510-2F
 OUTFALL 4003

EPA FORM 3510-2F - PART C									
Pollutant	CAS #	GRAB CONC. MG/L	GRAB MASS LBS.	COMPOSITE CONC. MG/L	COMPOSITE MASS LBS.	COMPOSITE CONC. MG/L	COMPOSITE MASS LBS.	Number of Samples Taken	
Fecal Coliform (#/100mL)		4297 cfu/100ml	NA	NA	NA	NA	NA	1	
Sulfate	14808-79-8	4.90E+01	1225.7	49.5	1.23E+03	49.5	1.23E+03	1	
Aluminum	7429-90-5	2.05E+00	51.3	10.5	2.62E+02	10.5	2.62E+02	1	
Iron		2.24E-01	5.6	1.37	3.41E+01	1.37	3.41E+01	1	
Magnesium		1.49E+01	372.7	14.1	3.51E+02	14.1	3.51E+02	1	
Uranium		2.10E-03	0.1	1.90E-03	4.73E-02	1.90E-03	4.73E-02	1	

< less than detection
 Mass for grab and composite samples based on total rainfall measured during event.



DRAINAGE AREA SUMMARY

STORMWATER DISCHARGE MONITORING POINT	LOCATION		CONTRIBUTING DRAINAGE AREA (ACRES)	
	LATITUDE	LONGITUDE	PERVIOUS	IMPERVIOUS
STRM 4003	39°-17'-17"	84°-41'-32"	716.9 ACRES	16.9 ACRES
STRM 4005	39°-17'-49"	84°-41'-50"	48.0 ACRES	4.3 ACRES
STRM 4006	39°-18'-14"	84°-41'-54"	213.7 ACRES	0.2 ACRES

LEGEND

- STRM 4003 PERMITTED NPDES STORMWATER OUTFALLS
- ▲ (4001) PERMITTED NPDES OUTFALLS (4000 - PARSHALL FLLUME)
- DRAINAGE AREA & BOUNDARY
- CULVERT
- DRAINAGE FLOW DIRECTION
- 5' CONTOUR INTERVAL IN FT. ABOVE M.S.L.
- PAVED ROAD
- - - UNPAVED ROAD
- - - FENCE LINE
- - - PROPERTY LINE

NOTES:

THIS MAP MADE FROM CURRENT CONTOUR FEATURES MAPS.
 CONTOUR INTERVAL: 5'
 --- FEMP BOUNDARY
 --- SIDE FEMP BOUNDARY
 DRAINAGE AREAS & OTHER PERTINENT INFORMATION ON THIS DRAWING APPEAR IN COLOR.
 CULVERTS LOCATED ARE TO ASSIST IN SHOWING DRAINAGE FLOW DIRECTION. ALL CULVERTS ARE NOT SHOWN.

NO.	REVISIONS	DATE	DWN. BY	APPROD.	REF. DWG. NO.
12	REMOVE 4004 AND 4004A	02/20/07	SSP		
12	UPDATE SUMMARY	09/25/07	SSP		
11	UPDATE AREA OUTLINES	02/20/06	RML		
10	UPDATE OSDF CELLS 6, 7 PROGRESS ON CAP	02/20/06	WJO		
9	UPDATE NCONT, NFEAT, OSDF, EXCAV., DRAINAGE PER RES 4529	08/30/05	WJO	FLJ/GEP	
8	EXPANDED SCOPE OF WORK FOR RES #4314	1/6/02	SJS	FLJ/GEP	

SM STOLLER
 CADD DRAWING,
 DO NOT REVISE
 MANUALLY.

CONFIGURATION MANAGEMENT DRAWING
 CHANGES TO THIS DRAWING SHALL BE MADE THROUGH THE CONFIGURATION MANAGEMENT SYSTEM.
 SEE NOTES.

APPROVALS			
CIVIL & STR. ENGINEER	ROBERT W. KNEP	10/9	SAFETY ENGR. MAINTENANCE
ELECTRICAL ENGINEER	THOMAS L. CHAMBERLAIN	10/9	FEMP PROJECT WASTE MGMT.
INSTRUMENT MECHANICAL COMPLIANCE	FRANK JONKON	10/9	SECURITY PROJECTS
CHECKED	SEP		
APPROVED	CEL. PABE	10/9	

Fernald Preserve
S.M. STOLLER CORP.
U.S. DEPARTMENT OF ENERGY

FERNALD PRESERVE
 NPDES PERMITTED
 STORMWATER OUTFALLS
 OHIO NPDES PERMIT 1100004*GD
 SCALE: 1" = 350'
 RES #425
 DATE: 9/20/09
 DRAWN: MIKE LOCKE
 OOX-5500-G-01781 | 12





DIVISION OF SURFACE WATER

Antidegradation Addendum

In accordance with Ohio Administrative Code 3745-1-05 (Antidegradation), additional information may be required to complete your application for a permit to install or NPDES permit. For any application that may result in an increase in the level of pollutants being discharged (NPDES and/or PTI) or for which there might be activity taking place within a stream bed, the processing of the permit(s) may be required to go through procedures as outlined in the antidegradation rule. The rule outlines procedures for public notification and participation as well as procedures pertaining to the levels of review necessary. The levels of review necessary depend on the degradation being considered/requested. The rule also outlines exclusions from portions of the application and review requirements and waivers that the Director may grant as specified in Section 3745-1-05(D) of the rule. Please complete the following questions. The answers provided will allow the Ohio EPA to determine if additional information is needed. All projects that require both an NPDES and PTI should submit both applications simultaneously to avoid going through the antidegradation process separately for each permit.

A. Applicant: S.M. Stoller
Facility Owner: United States Department of Energy
Facility Location (city and county): Fernald, Butler and Hamilton Counties
Application or Plans Prepared By: S.M. Stoller
Project Name: US DOE Fernald Preserve
NPDES Permit Number (if applicable): 11000004*GD

B. Antidegradation Applicability

Is the application for? (check as many as apply):

Application with no direct surface water discharge (Projects that do not meet the applicability section of 3745-1-05(B)1, i.e., on-site disposal, extensions of sanitary sewers, spray irrigation, indirect discharger to POTW, etc.). (Complete Section E)

Renewal NPDES application or PTI application with no requested increase in loading of currently permitted pollutants. (Complete Section E, Do not complete Sections C or D).

PTI and NPDES application for a new wastewater treatment works that will discharge to a surface water. (Complete Sections C and E)

An expansion/modification of an existing wastewater treatment works discharging to a surface water that will result in any of the following (PTI and NPDES): (Complete Sections C and E)

- ▶ addition of any pollutant not currently in the discharge, or
- ▶ an increase in mass or concentration of any pollutant currently in the discharge, or
- ▶ an increase in any current pollutant limitation in terms of mass or concentration.

_____ PTI that involves placement of fill or installation of any portion of a sewerage system (i.e., sanitary sewers, pump stations, WWTP, etc.) within 150 feet of a stream bed. Please provide information requested on the stream evaluation addendum (i.e., number of stream crossings, fill placement, etc.) and complete Section E.

_____ Initial NPDES permit for an existing treatment works with a wastewater discharge prior to October 1, 1996. (Complete Sections D and E)

_____ Renewal NPDES permit or modification to an effective NPDES permit that will result in any of the following: (Complete Sections C and E)

- a new permit limitation for a pollutant that previously had no limitation, or
- ▶ an increase in any mass or concentration limitation of any pollutant that currently has a limitation.

C. Antidegradation Information

1. Does the PTI and/or NPDES permit application meet an exclusion as outlined by OAC 3745-1-05(D)(1) of the Antidegradation rule?

_____ Yes (Complete Question C.2)

_____ No (Complete Questions C.3 and C.4)

2. For projects that would be eligible for exclusions provide the following information:

- a. Provide justification for the exclusion.
- b. Identify the substances to be discharged, including the amount of regulated pollutants to be discharged in terms of mass and concentration.
- c. A description of any construction work, fill or other structures to occur or be placed in or near a stream bed.

3. Are you requesting a waiver as outlined by OAC 3745-1-05(D)(2-7) of the Antidegradation rule?

_____ No

_____ Yes

If you wish to pursue one of the waivers, please identify the waiver and submit the necessary information to support the request. Depending on the waiver requested, the information required under question C.4 may be required to complete the application.

4. For all projects that do not qualify for an exclusion a report must accompany this application evaluating the preferred design alternative, non-degradation alternatives, minimal degradation alternatives, and mitigative techniques/measures for the design and operation of the activity. The information outlined below should be addressed in this report. If a waiver is requested, this section is still required.

- a. Describe the availability, cost effectiveness and technical feasibility of connecting to existing central or regional sewage collection and treatment facilities, including long range plans for

sewer service outlined in state or local water quality management planning documents and applicable facility planning documents.

- b. List and describe all government and/or privately sponsored conservation projects that may have been or will be specifically targeted to improve water quality or enhance recreational opportunities on the affected water resource.
- c. Provide a brief description below of all treatment/disposal alternatives evaluated for this application and their respective operational and maintenance needs. (If additional space is needed please attach additional sheets to the end of this addendum).

Preferred design alternative:

Non-degradation alternative(s):

Minimal degradation alternative(s):

Mitigative technique/measure(s):

At a minimum, the following information must be included in the report for each alternative evaluated.

- d. Outline of the treatment/disposal system evaluated, including the costs associated with the equipment, installation, and continued operation and maintenance.
- e. Identify the substances to be discharged, including the amount of regulated pollutants to be discharged in terms of mass and concentration.
- f. Describe the reliability of the treatment/disposal system, including but not limited to the possibility of recurring operation and maintenance difficulties that would lead to increased degradation.
- g. Describe any impacts to human health and the overall quality and value of the water resource.
- h. Describe and provide an estimate of the important social and economic benefits to be realized through this proposed project. Include the number and types of jobs created and tax revenues generated.
- i. Describe environmental benefits to be realized through this proposed project.
- j. Describe and provide an estimate of the social and economic benefits that may be lost as a result of this project. Include the impacts on commercial and recreational use of the water resource.

- k. Describe the environmental benefits lost as a result of this project. Include the impact on the aquatic life, wildlife, threatened or endangered species.
- l. A description of any construction work, fill or other structures to occur or be placed in or near a stream bed.
- m. Provide any other information that may be useful in evaluating this application.

D. Discharge Information

- 1. For treatment/disposal systems constructed pursuant to a previously issued Ohio EPA PTI, provide the following information:

PTI Number _____
PTI Issuance Date _____
Initial Date of Discharge _____

- 2. Has the appropriate NPDES permit application form been submitted including representative effluent data?

_____ Yes (go to E)

_____ No (see below)

If no, submit the information as applicable under a OR b as follows:

- a. For entities discharging process wastewater attach a completed 2C form.
- b. For entities discharging wastewater of domestic origin attach the results of at least one chemical analysis of the wastestream for all pollutants for which authorization to discharge is being requested and a measurement of the daily volume (gallons per day) of wastewaters being discharged.

E. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete.

This section must be signed by the same responsible person who signed the accompanying permit application or certification as per 40 CFR 122.22.

Signature _____

Date _____ 12/26/07