



State of Ohio Environmental Protection Agency

Southwest District Office

FERNALD

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Bob Taft, Governor  
Maureen O'Connor, Lt. Governor  
Christopher Jones, Director

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July 20, 1999

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Ms. Kimberly Tate  
Contract Specialist  
U.S. DOE - Ohio Field Office  
P.O. Box 3020  
Miamisburg, OH 45334-3020

**RE: FERNALD COST RECOVERY GRANT AWARD NUMBER DE-FG05-94OR22167**

Dear Ms. Tate:

Attached please find Ohio EPA's Quarterly Report for the period April 1, 2000 through June 30, 2000 detailing activities related to the Cost Recovery Grant.

If you should have any questions regarding this report, please contact me at (937) 285-6466.

Sincerely,

Thomas A. Schneider  
Fernald Project Manager  
Office of Federal Facilities Oversight

cc w/o enc: Graham Mitchell, Chief, OFFO  
Pat Campbell, Fiscal Officer, DERR  
John Brown, Fernald Site Auditor  
Jack Craig, DOE Fernald  
Jim Beaton, Grants Administrator, Fiscal  
cc w/ enc: Kathi Nickel, DOE Fernald

**Ohio EPA Office of Federal Facilities Oversight  
Cost Recovery Grant Quarterly Report  
for the  
Third Quarter of FFY00**

**APRIL 2000**

**HIGHLIGHTS AND SIGNIFICANT EVENTS**

- Quarterly private well samples were taken from three wells on April 27<sup>th</sup>.
- Collected 15 samples from five wetland plots and their controls for Mycorrhizal activity, moisture content and organic content as well as measured vegetation migration.
- Removed 20 five-gallon pails of wetland plant and soil material from Beaver Creek Wetlands. The material was placed the same day in the newly constructed wetland of area 8 phase II at Fernald. Material was primarily bur reed (*Sparganium americanum*) and sweet flag (*Acorus calamus*) corms taken from inconspicuous areas.
- Conducted field identification, moisture content, and dominant species analysis of research plots in the A1PI wetlands on April 18 and 20.
- Collected 11 hi-vol samples for airborne particulates from 6 locations at Fernald.
- Continued monitoring for radon and publishing real-time data to the Internet from three locations near the silos and at a background location.
- OFFO staff participated in a public meeting on April 11 to explain the public involvement process for upcoming future land use discussions.
- OFFO participated in a Public Hearing for the OU4 Proposed Plan for cement stabilization of Silos 1 and 2 materials on April 25.
- Tom Schneider, OFFO along with Jim Saric from USEPA met with a landowner who's farm field appears to have been contaminated by Fernald with beryllium and arsenic above the approved cleanup numbers. The landowner is refusing DOE further access and wants DOE to purchase the property. Additional sampling is needed to characterize the contamination extent. If access can not be negotiated, DOE will need to pursue condemnation to gain access for sampling and potentially for remediation.
- Representatives from Ohio EPA met twice with concerned stakeholders at Fernald regarding the continuation of health evaluations by ATSDR and NIOSH.
- Ohio EPA submitted comments on ATSDR's Preliminary Health Assessment.
- Ohio EPA and Fernald staff surveyed A1PIII on Wed 12th to see three areas where possible debris, concrete, rocks, and other materials had been dumped. This area will be scanned with ground-penetrating radar.
- Tom Schneider made a presentation to an Environmental Ecology class on Ohio EPA's role in the Fernald cleanup.
- Tom Schneider gave a presentation titled "Science and Stewardship: a State Regulator's Perspective" as part of a panel session at USDOE's Environmental Management Science Program conference on April 27, 2000.
- Graham Mitchell gave a presentation about Fernald to Miami University graduate students.

### **DOCUMENT APPROVALS**

Provided Ohio EPA approval on the following documents: 1) Reschedule OU1 Dryer Performance Test; 2) OU1 WP Stack Monitor Alarm Modification; 3) V/FCN 20200-PSP-0005-15 for 3A/4A; 4) V/FCN 20710-PSP-0009-12 for A1P2; 5) Draft WAC PSP for Western Half SP1; 6) RtC & Revised Calibration Report for Gator; 7) DCN 20402-099 for A2P1; 8) VCNs 20710-PSP-009-14 and 20710-PSP-007-24.

### **DOCUMENT REVIEWS**

Provided review and/or comments to DOE on the following documents: 1) RtC for A8P1 Revegetation Plot 1999 Rpt; 2) A1P3 CDL & PSP ; 3) Revised WAC PSP for SP3; 4) DCN 20402-100 for A2P1; 5) OU4 AWR Site Prep; 6) 4Q99 IEMP and various RTC; 7) NRT Revised Scope Document; 8) Draft A2P3 Part 2 CDL & PSP; 9) Revised IMPP Addendum 2 & 3.

### **MEETINGS**

One or more OFFO staff participated in the following meetings:  
Weekly Project Managers conference calls; OFFO staff meeting; Fernald Team meetings; Progress Briefing; FCAB remediation committee; FCAB stewardship committee (2); health issues mtg (2); OU4 mtg; EMSP conference.

### **TRAINING**

Donna Bohannon and Joe Bartosek attended a Power Point class at Sinclair.

### **MAY 2000**

#### **HIGHLIGHTS/SIGNIFICANT EVENTS**

- Removed and placed 20 five gallon pails of pond muck. Pails were filled to less than one half full with muck from the Spring Valley Wildlife Area. The material was placed the same day in the Area 8 Phase II newly constructed ponds, vernal pool and filter wetland. Four pails were placed in Basin 4 in the Area 1 Phase I wetlands constructed last year.
- Continued wetland research by sampling basins 8, 7, 3 and 1 in A1PI.
- Collected 11 hi-vol samples for airborne particulates from 6 locations at Fernald.
- Continued monitoring for radon and publishing real-time data to the Internet from three locations near the silos and at a background location.
- A Future of Fernald workshop was held on May 24 to gather community input of future land use options. Laura Hafer facilitated two on-line 'breakout sessions' to discuss Recreation and Environmental Education. Representatives from the Department of Interior, US EPA, Ohio EPA (Donna Bohannon), and the community participated in this first ever on-line portion of a public meeting at Fernald.

- Ohio EPA planted wildflower seedlings with Morgan Elementary second graders, Ross Middle School 6th graders and Crosby Middle School 6th graders. Photos from these events can be viewed at OFFO's Fernald web site (<http://offo2.epa.state.oh.us/FERNALD/COMMUNITY/school00may.htm>).
- Ohio EPA observed an air emissions control performance test (stack test) on the Waste Pits Remedial Action Project dryers. The testing was initiated with the restart of dryer operations at the project. Excavation is currently occurring within Pits 1, 2 and 3.
- Planting was completed in the Area 8 Phase II restoration project. The project included planting various forest habitats and savanna habitat. A wetland and vernal pool were also constructed.

#### **DOCUMENT APPROVALS**

Provided Ohio EPA approval on the following document: 1) A8P3-South CDL & PSP; 2) Silo 3 Site Prep Package RtC & Change pgs; 3) October Reinjection Report; 4) A9P1 Extension Rqt, Predesign Inv., PSP; 5) 3A/4A VCN 20200-PSP-0005-16; 6) A1PIII VCN 20720-PSP-0001-3; 7) WAC report for SP3; 8) A2P3 CDL & PSP; 9) EPLTS DCN No. 20111-009, -010, 011, 012; 10) IP Amendment for Misc Small Structures; 11) V/FCN 20710-PSP-0007-25 for Area 1, Phase II; 12) VCN 20450-PSP-0002-3 PSP SP3 Wac; 13) AWR Site Prep RtC & Change pgs; 14) V/FCN 21120-PSP-0001-1 for PSP Area 9 Phase 1; 15) 11/99 Reinjection Report.

#### **DOCUMENT REVIEWS**

Provided review and/or comments to DOE on the following documents: 1) OU4 Silos 1 & 2 PP Public Comments; 2) OSDF Borrow Area Strategy Report; 3) EPLTS CFC.

#### **MEETINGS**

One or more OFFO staff participated in the following meetings: Weekly Project Managers conference calls; OFFO staff meeting; Fernald Team meetings; Annual Site Tour; FCAB Future of Fernald workshop; FLHP public meeting; NRDA mtg.; OU4 NTS mtg.; ITRC call; Site Technology Coordination Group; NRT mtg(2); OU1 stack test.

#### **JUNE 2000**

#### **HIGHLIGHTS AND SIGNIFICANT EVENTS**

- Continued A1PI wetland research by collecting two to three samples per basin (24 samples).
- Butterfly monitoring at the A1PI wetland on June 15<sup>th</sup> and 28<sup>th</sup>.

- Bi-monthly surface water and annual sediment samples were collected from Paddys Run and the Great Miami River on June 7<sup>th</sup> (13 samples).
- Collected 12 hi-vol samples for airborne particulates from 6 locations at Fernald.
- Continued monitoring for radon and publishing real-time data to the Internet from three locations near the silos and at a background location.
- Several Ohio EPA staff attended a conference at Fernald sponsored by the Ohio Chapter of the Society for Ecological Restoration on June 2<sup>nd</sup>.
- Inspection of OU4 for storm water controls on June 28<sup>th</sup>.
- Meeting with OEPA-CO staff (John Vlasko and Zach Clayton) regarding revisions to Fernald/OFFO's Health & Safety plan.
- Attended ATSDR's presentation to the public on their Preliminary Health Assessment on June 22<sup>nd</sup>.
- Met with PHC Reclamation to discuss revegetation technology demonstration.
- Provided 200 wildflower seedlings and helped plant at Fernald's 'Take Your Kid to Work Day' on June 14<sup>th</sup>.

#### DOCUMENT APPROVALS

Provided Ohio EPA approval on the following document: 1) Proposed Changes to STP for Thorium; 2) A7 WAC Report Addendum 2; 3) Report on Maintenance/Tank Farm Structures; 4) December Injection Demo Report; 5) RCI/DCN - DCN # 20111-014 for OSDF; 6) RCI/DCN - DCN # 20712-077 for A1P2; 7) V/FCN - 20710-PSP-009-16 for A1P2; 8) Trap Range TCLP Results; 9) AWR-DCN-S-0001; 10) A1P3 CDL & RtC; 11) Request for RA 28 Waste into OSDF; 12) OU1 FCNs V 00-001; 13) OU1 FCNs V 00-002; 14) OU1 FCNs V 00-003; 15) OU1 FCNs V 00-004; 16) OU1 FCNs V 00-005; 17) OU1 FCNs V 00-006; 18) OU1 FCNs V 00-007; 19) OU1 FCNs V 00-008; 20) OU1 FCNs V 00-009; 21) OU1 FCNs V 00-010; 22) OU1 FCNs V 00-011; 23) OU1 FCNs V 00-012; 24) OU1 FCNs V 00-013; 25) OU1 FCNs V 00-014; 26) OU1 FCNs V 00-015; 27) OU1 FCNs V 00-016; 28) OU1 FCNs V 00-017; 29) OU1 FCNs V 00-018; 30) OU1 FCNs V 00-019; 31) OU1 FCNs V 00-020; 32) OU1 FCNs V 00-021; 33) OU1 FCNs V 00-022; 34) AWR-DCN-S-0002.

#### DOCUMENT REVIEWS

Provided review and/or comments to DOE on the following documents: 1) Draft CDL & PSP for A2P1 AFP; 2) 3A/4A IRDP (Imp., Drawings, Specs); 3) Draft Silos 1 & 2 ROD Amendment; 4) VCN 20200-PSP-0005-18 for 3A/A; 5) VCN 21120-PSP-0001-2 for A9P1; 6) Cert Report for A1P2; 7) 3A Misc. Piles WAC PSP; 8) SP3 WAC Report.

#### MEETINGS

One or more OFFO staff participated in the following meetings: Weekly Project Managers conference calls (2); Radon conf. calls (3); OFFO staff meeting; Fernald Team meetings; FCAB stewardship committee mtg; FCAB

remediation

committee mtg; mycorrhizza meeting; PHC Reclamation mtg; NRT mtg; OU4 mtg; OSDF mtg; ITRC Rad Team conf. call; 2001 budget mtg.

**TRAINING**

- Joe Bartoszek, Donna Bohannon, and Tom Schneider attended butterfly training at Cox Arboretum on June 10<sup>th</sup>.
- Tom Schneider, Tom Ontko, Donna Bohannon and Michelle Orr attended Rad II training at Fernald.
- Graham Mitchell and Tom Schneider attended Ohio EPA labor contract training.

**OHIO EMERGENCY MANAGEMENT AGENCY ACTIVITIES**

- OEMA continues to review and update the State of Ohio Hazardous Materials Emergency Management Plan and attached USDOE Annex for the FEMP facility.
- OEMA is working with other state agencies to review and update the MOU regarding the state's response to hazardous material incidents. The MOU has been revised several times within the past few months. The MOU has been sent to the state agencies and signed by their directors. Governor Taft signed it on May 12, 2000 and it is now in effect. All changes are being incorporated into the State's Hazmat plan and the attached USDOE Annex.
- OEMA continues to work with other state agencies through regular scheduled meetings on the implementation of the State's Incident Command System during emergencies, including incidents at DOE facilities. Any changes will be incorporated into the MOU, the State's Hazmat plan and the attached USDOE Annex.
- OEMA, Hamilton County, and Butler County participated in the cooperative planning and training meetings.
- OEMA is working with EPA offices and the counties on the implementation of the DOE funding grant. OEMA continues to administer the CMOG funding program for reimbursement of money to the counties. OEMA continues to track and coordinate the time of all EMA employees that work on issues that relate to DOE facilities.
- Ohio EMA personnel participated in an update tour of the facility to see first hand the progress of clean-up activities.
- Hamilton and Butler counties are in the process of purchasing new and refurbishing old equipment to upgrade their capabilities in this area.
- OEMA has posted a page on OEMA's home page on the World Wide Web. The Ohio EMA web site has been updated by an internal work group.
- OEMA continues to upgrade the State EOC as a central notification point and

information clearinghouse for incident assessment. Computer software is continuously updated (i.e. CAMEO) with chemical inventories, hazards analyses information, emergency contacts, transportation routes, resources, etc., for responding to incidents or exercises with FEMP.

- OEMA continues to have internal working group meetings to coordinate all OEMA activities regarding DOE facilities, including the shipping of radiological wastes.
- Butler County has purchased a mobile command post that can be used for possible DOE incidents.
- Ohio EMA continues to receive and disseminate all notifications of shipments to Butler and Hamilton Counties.