



State of Ohio Environmental Protection Agency

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Southwest District Office

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Bob Taft, Governor  
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January 24, 2001

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-FG24-99OH20096**

Dear Ms. Tate:

Attached please find Ohio EPA's Quarterly Report for the period October 1, 2000 through December 31, 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  
Steve McCracken, 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  
First Quarter of FFY01

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OCTOBER 2000

**HIGHLIGHTS AND SIGNIFICANT EVENTS**

- Quarterly samples were taken from three private wells. Split samples were sent to two different labs (Thermonutech and O'Brien & Gere) for quality control.
- Collected wetland reference soil samples at Beaver Creek wetlands and Wright Patterson Air Force Base. Measured Fernald wetlands donor plots for migration.
- Collected bi-monthly surface water samples from 8 locations in Paddys Run and Great Miami River for total U, radium 226 and 228.
- Collected one surface water sample from the pilot plant drainage ditch.
- Conducted bioassay sampling as part of NPDES compliance from two locations near Fernald. Samples were sent to Ohio EPA's lab.
- Collected two fish tissue samples from one location in the Great Miami River and composited for total U analysis.
- Collected 10 (out of 12) hi-vol samples for airborne particulates from 6 locations at Fernald. The east fence line monitor is out of order; parts have been ordered.
- Continued monitoring for radon and publishing real-time data to the Internet from three locations near the silos and at a background location.
- Placement of waste materials into Cell 1 is complete, reaching design height earlier than planned. The installation of the permanent leachate line will continue through the winter. Proposals for the installation of the Cell 1 Cap of the OSDF were received in August. Discussions on the proposals concluded in September and revisions from the bidders are due for submittal in October. The contract will be awarded in early November. The Cell 1 cap is expected to be installed in 2001.
- OFFO staff attended the Fernald Citizens Advisory Board meeting on 10/14. Items discussed included the stakeholder consensus Vision for the Future of Fernald.
- OFFO staff attended the FCAB Stewardship Subcommittee Meeting on 10/17. Items discussed included the Future of Fernald 3 Workshop and the upcoming Denver SSAB meeting.
- Tom Schneider and Jim Coon attended the Interstate Technology & Regulatory Cooperation workgroup fall meeting. At the meeting Tom gave a presentation on the activities of the Radionuclide Team he co-leads.
- Tom Schneider and Graham Mitchell attended the SSAB Stewardship meeting in Denver, Co and toured Rocky Flats.
- Tom Schneider was interviewed for the Fernald Living History Project.

**DOCUMENT APPROVALS**

Provided Ohio EPA approval on the following document: 1) Pilot Plant Pump Test PSP Variance; 2) RtC for OSDF Phase III; 3) RtC on Pilot Plant Pump Test PSP; 4) RtC on Pilot Plant Pump Test PSP; 5) RtC on Wetland Replanting Strategy; 6) OU1 DCN 847; 7) A9P2 Cert Extension Rqt; 8) May 2000 Injection Rpt; 9) June

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Reinjection Report; 10) EPLTS DCN 20111-027; 11) OSDF DCN 20103-007; 12) OSDF DCN 20103-009; 13) OSDF DCN 20103-010; 14) Aggressive Injection Well Treatment Proc.; 15) SP3 CDL; 16) SP3 PSP; 17) A9P1 IMP Plan Ext Request; 18) V/FCN 20200-PSP-0005-23 PSP 3A/4A; 19) A2P1 AFP CDL & PSP; 20) VFCN 20402-psp-003-1 for AFP; 21) A2P1 AFPCDL & PSP Change Pages.

**DOCUMENT REVIEWS**

Provided review and/or comments to DOE on the following documents: 1) PSP for Paddys Run Real-Time Scan; 2) March/April Placement Report; 3) Silo 3 RD Package RtC; 4) OSDF DCN 20103 -008 (disapproval); 5) Q2/00 IEMP Report and RtCs.

**MEETINGS**

One or more OFFO staff participated in the following meetings: Weekly Project Managers conference calls (4); Radon conf. calls (4); OFFO staff meeting; Fernald Team meetings; Ohio EPA All Staff Mtg and Recognition Ceremony; Progress Briefing; FCAB Stewardship Committee mtg; FCAB meeting; OU4 meeting; ITRC meeting in San Antonio; Rocky Flats SSAB Stewardship Conference; soils meeting; Ohio EPA Data Security Committee mtg.

**NOVEMBER 2000****HIGHLIGHTS/SIGNIFICANT EVENTS**

- Collected 5 (out of 12) hi-vol samples for airborne particulates from 3 locations at Fernald. Due to cold weather, the monitors have been having problems.
- Continued monitoring for radon and publishing real-time data to the Internet from three locations near the silos and at a background location. Data is being posted intermittently because cold weather is affecting the monitors.
- On November 20, DOE and Fluor Daniel Fernald signed a new remediation contract for the DOE Fernald site. The contract is a closure contract and runs through 2010. A public signing ceremony took place on November 21 at the Fernald site.
- DOE awarded a \$2.9 million contract to International Technology Group of Pittsburgh, PA to cap Cell 1 of the OSDF. This cleanup milestone should be completed during the 2001 construction season.
- Tom Schneider presented "Native Plants in Restoration and Education" to the Pickaway County Master Gardeners group. The presentation focused on Ohio EPA restoration and education work at Fernald.
- Graham Mitchell gave a presentation to about 60 students in the IES 531 class at Miami University. The Fernald cleanup was the major topic of the presentation.
- Tom Schneider was interviewed for the Fernald Living History Project.
- Graham Mitchell attended the FCAB monthly meeting where the group agreed with the recommendations from the Long Term Stewardship conference in Denver.

- The FCAB announced a vision statement that was developed as a result of several Future of Fernald public workshops. The future vision of Fernald is: "A community resource that serves the ongoing information needs of area residents, education needs of local institutions, and reinternment of Native American remains. We envision a safe, secure, and partially accessible site, integrated with the surrounding community, that effectively protects human health and the environment from all residual contamination and fully maintains all aspects of the ecological restoration."
- Kelly Kaletsky returned from his leave of absence on November 27<sup>th</sup>. Kelly had served as a meteorologist at the South Pole Station in Antarctica for 9 months.
- The 30<sup>th</sup> train left for Envirocare of Utah with Waste Pit material.

#### DOCUMENT APPROVALS

Provided Ohio EPA approval on the following document: 1) PSP for Direct Push Sampling in IAFP/SF; 2) A1P2 Cert Report; 3) OSDF DCN 20103-002; 4) OSDF DCN 20103-005; 5) OSDF DCN 20103-003; 6) OU1 DCN 847; 7) Silo 3 DCN 40420-003; 8) OSDF RCI-20102-059R; 9) RtC for OSDF Phase III; 10) Rqst To Modify OMMMP for Aquifer Rest.; 11) Draft Nal *In Situ* Gamma Cal Rpt; 12) July 2000 Reinj. Report; 13) RTC Feb, March, April Reinj Reports; 14) August Reinj Report; 15) Sept. Reinj Report.

#### DOCUMENT REVIEWS

Provided review and/or comments to DOE on the following documents: 1) Draft HPGe Core Counter Cal. Rpt; 2) Informal Leachate Contingency Plan; 3) Conceptual Design for Northern Pine Plantation; 4) A8P2 Eco. Research Plan; 5) A8P2 Burn Plan Outline.

#### MEETINGS

One or more OFFO staff participated in the following meetings: Weekly Project Managers conference calls (4); Radon conf. calls (4); OFFO staff meeting; Fernald Team meetings; Progress Briefing; FCAB Stewardship Committee mtg; FCAB meeting; FLHP quarterly meeting; NRT meeting; ITRC meeting; OU1 mtg; A9PI mtg; Ohio Field Office lunch; RCRA mtg; Rad call; OSDF/IT mtg; STCG mtg; Integrated Stewardship Technology Team mtg.

#### DECEMBER 2000

#### HIGHLIGHTS AND SIGNIFICANT EVENTS

- Collected routine surface water samples at 6 locations in the Great Miami River and Paddys Run on December 6<sup>th</sup>.
- Completed survey of SP3 vegetative plots.

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- Collected 2 (out of 12) hi-vol samples for airborne particulates from hi-vol monitors at Fernald. Due to cold weather, the monitors have been having problems.
- Continued monitoring for radon and publishing real-time data to the Internet from three locations near the silos and at a background location. Data is being posted intermittently because cold weather is affecting the monitors.
- Joe Bartoszek mailed the manuscript for his hyporheic study to the editor of the Journal of the North American Benthological Society for review and consideration for publication in this prestigious journal.
- Tom Schneider gave a speech titled "Stewardship & Technology Challenges for Future Mgt. of Radiologically Contaminated Sites" to about 50 people.
- Kelly Kaletsky gave a presentation to Eastmont Elementary 4<sup>th</sup>, 5<sup>th</sup>, and 6<sup>th</sup> graders on his South Pole experience. Dayton television channels 2, 7 and 22 covered the story along with the Dayton Public Schools Television Network and the Dayton Daily News. He provided a separate interview on ozone issues at the South Pole to Channel 22 meteorologist Mike Tewilleger. He has scheduled additional appearances to discuss his South Pole experience for January with the Dayton chapter of the National Meteorology Society and the Kiwanis Club.
- Trains 31 and 32 with Waste Pits material left for Envirocare in Utah.

#### **DOCUMENT APPROVALS**

Provided Ohio EPA approval on the following document: 1) In-Situ Gamma Spec Calibration Report; 2) AWR-DCN-S-0011; 3) AWR-DCN-S-0014; 4) Paddys Run Real Time PSP & RtC; 5) RtC to Comments on 3a/4a RtC; 6) A9P2 Precert Scan; 7) Misc Small Structure Rpt #464.

#### **DOCUMENT REVIEWS**

Provided review and/or comments to DOE on the following documents: 1) 2000 IEMP; 2) Q2/00 IEMP Report and RtCs; 3) Reinjection Demo Reprt RtC.

#### **MEETINGS**

One or more OFFO staff participated in the following meetings:  
Weekly Project Managers conference calls (4); Radon conf. calls (4); OFFO staff meeting; Fernald Team meetings; NRT meeting; budget meeting; AWR meeting; NRDA mtg; Land Transfer and Long-term Management of Contaminated Federal Facilities Conference.

#### **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 and Butler County participated in the cooperative planning and training

- meetings at the Ross Firehouse.
- 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.
- On October 25<sup>th</sup>, representatives from Ohio EMA, Ohio EPA, and ODH attended a training presentation at Fernald on air dispersion modeling for potential radon releases.
- On October 20<sup>th</sup>, Ohio EMA personnel monitored Fernald's notification of Ohio EMA during an on-site exercise of the site's emergency capabilities.
- Butler county continues to purchase new and refurbish old equipment to upgrade their communications and warning capabilities.
- 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 reports that they continue to purchase equipment for the county's new EOC.
- Ohio EMA continues to receive and disseminate all notifications of shipments to Butler and Hamilton Counties.
- Ohio EMA has requested that Fernald provide a copy of their "Empirical Radon Model" to Ohio EMA and ODH for use in the State of Ohio's Emergency Operations Center Assessment Room. This would increase the capability of the state to assess potential releases of radon from the silo area. DOE's legal staff is reviewing the request.