Stoller
Fernald Office

established 1959

May 29, 2007

Task Order ST07-110
Control Number 1000-T07-0963

Ms. Jane Powell
Fernald Site Manager
Office of Legacy Management
U.S. Department of Energy
10995 Hamilton-Cleves Hwy.
Harrison, OH 45030

SUBJECT: Contract No. DE-AC01-02GJ79491, Stoller
Task Order Number ST07-110, LM Fernald LTS&M
Transmittal of the March 2007 Fernald Site Inspection Checklist

Dear Ms. Powell:

The purpose of this letter is to transmit the completed checklist for the March 2007 Fernald Site quarterly inspection. A map illustrating the findings was prepared and is included with this report. The inspection was conducted with participation from the Ohio Environmental Protection Agency (OEPA), Ohio Department of Health, Tetra Tech and Geosyntec.

The March 2007 inspection was the first formal site inspection conducted at Fernald as directed by the Comprehensive Legacy Management and Institutional Controls Plan (LMICP 2006). The inspection began on March 27 and was completed on March 29. The site was divided into four areas based on proximity and/or type of area to be inspected. Area 1 includes all of the facilities and structures on site, including the on-site disposal facility (OSDF). Note that the OSDF cap has a separate inspection and reporting process. Area 2 is the former production area and waste pits area. Area 3 includes the north woodlot, the north pines, the borrow area, the wetlands in the north east corner of site, and the east perimeter area. Area 4 includes the Paddy's Run corridor, the south pines, the southern waste units, and the south field. These areas are designated on the enclosed map.

No signs of unauthorized use were observed. Institutional controls appeared to be functioning. Access points, gates, fencing, signs, and other infrastructure seemed to be secure and in good condition. Roads, parking lots, and walkways were generally in good condition. Restored areas are progressing as planned. However, a number of findings were observed during the site walkdowns. Findings were categorized as follows on the enclosed map:

- **Thistle** – indicates that a species of thistle is growing and needs to be treated with herbicide or cut
- **Animal burrows** – indicates an area where an unwanted burrow was present, either from a ground hog, muskrat, or other undesirable animal
- **Nests** – indicates a goose nest was present

- **Erosion** – indicates an area where erosion is occurring and needs to be monitored or addressed
- **Debris** – indicates that some form of debris is present that needs to be removed. Debris could include concrete, drain tile, glazed tile, gravel piles, felt, other construction debris
- **Signs** – indicates that a sign is down or is otherwise illegible and needs repaired or modified
- **Fence** – indicates that fencing is down or damaged and needs addressed
- **Ruts** – indicates areas where deep ruts exist that need to be addressed

There are a few other findings that do not fit these categories, and they have been documented on the attached checklist and will also be addressed.

Corrective actions to address findings from this inspection will be handled in two ways. First, the enclosed figure depicts a "priority maintenance zone" that has been established along the paved road to the Converted Advanced Wastewater Treatment (CAWWT) and the future Visitors Center. Priority will be given for corrective actions in this area. Second, several findings that require immediate action either to prevent more long-term problems or to ensure compliance with the LMICP will be prioritized as well. Examples of such site-wide findings include control of thistle, goose nests, debris and signage. These types of findings are indicated in red on the attached figure.

Corrective actions are under way. Thistle and other noxious and invasive plant species will be physically removed, trimmed, and/or treated with herbicide by a licensed herbicide applicator. The type of herbicide used will vary depending on the location of the weed and the type of vegetation surrounding it. Herbicide application began May 10, 2007.

Debris was marked in the field with a pin flag. Unexpected debris will be characterized by Radiological Control personnel as stated in the LMICP. Non-contaminated debris will be disposed of in a regular dumpster and contaminated debris will be disposed of in the Radioactive Materials Area dumpster located in the CAWWT facility. Radiological survey work is under way. To date, no debris identified during the site inspection has been contaminated.

Plans are under way to address areas of erosion. In some cases, more detailed design is required. Bioengineering and natural channel design principals will be used whenever possible.

Goose control efforts include the use of visual deterrents and shaking eggs to prevent population growth. All such activities are in compliance with a 2007 Goose Damage Permit issued through the Ohio Department of Natural Resources.

A second part of the quarterly site inspection includes interviews of local residents and businesses, and a document review. The interviews are documented on the attached interview forms. In general the local residents interviewed are pleased with the progress at the Fernald Site

and had no concerns. Continued communication with the Contracted Site Manager and DOE is desired. Interviews with the local sheriff and fire departments indicated that all is going as expected at the site.

In addition, interviews were conducted with the Contracted Site Manager, the Aquifer Restoration Manager, and the Information Management Manager on site. Their interview forms are also included. A few items of concern were discussed and it was noted that those items are being addressed.

The next quarterly site inspection will occur in June 2007. Field investigations will focus on continued documentation of the findings described above. Upon your concurrence, please forward to EPA, OEPA, and the remainder of the inspection team. A draft transmittal letter is enclosed .

If you have any questions or require additional information, please contact John Homer at 513-648-7519.

Sincerely,

Frank Johnston
Fernald Project Site Manager

FJ:LM:dsm

Enclosures

c: J. Boylan, Stoller
J. Homer, Stoller
J. Fleck, Geosyntec
T. L. Jones, DOE Contracting Officer, DOE-EMCBC
L. McHenry, Stoller
E. Skintik, DOE-EMCBC
H. Swiger, Stoller
Administrative File (Thru D. Metzler) – w/o enclosure
Correspondence Control File (Thru C. Weston (e)
Project File FER 115.02.05(A) (Thru W. Summer)

Fernald Site Area Post-Closure Inspection Checklist

Date of Inspection: March 27 – 29, 2007 Weather Conditions: Sunny/PtSunny/Cloudy/PtCloudy/Rain/

Time of Inspection: Daytime

Inspection By: SM Stoller, OEPA, Tetra Tech, Ohio Dept. of Health, Geosyntec Other observations

Inspection Component	Condition A* or U*	Comments	Corrective Action(s) Proposed	Reference Source
1. Disturbance and Use of Fernald Site				
1A. Inspect access points to ensure that site restrictions and contact information are clearly posted.	A			LMICP
1B. Ensure that any perimeter gates/fences/barriers are in proper working condition.	U	Fencing down along north boundary.	Repair fencing	"
1C. Visually inspect interior and perimeter areas to ensure that no unauthorized use or disturbance is occurring.	A			"
1D. Note any change in adjacent off-property land use.	A			"
1E. Visually inspect site wetlands to ensure no dredge/fill or other type of disturbance is occurring.	A			Clean Water Act
1F. Visually inspect restored areas to ensure that prohibited noxious weeds are not present.	U	Thistle in various areas across site. Reed Canary grass or phragmites identified along Paddys Run.	Thistle will be treated with herbicide or cut for control	OAC
1G. Visually monitor Paddys Run to ensure disturbance of Sloan's crayfish habitat is not occurring.	A			
1H. Visually monitor along Paddys Run corridor to ensure disturbance of Indiana Bat habitat is not occurring.	A			Endangered Species Act
1I. Visually inspect site for excessive erosion.	U	Erosion is occurring in the waste pits area and in various locations around the production area and borrow area.	Erosion areas will be evaluated in more detail and addressed accordingly	LMICP
1J. Annually verify that all Deed Restrictions and other Real Estate use restrictions are in place and are applicable.				LMICP
2. Prevent Human and Environmental Exposure to Residual Contaminants				
2A. Visually inspect infrastructure supporting Aquifer Remedy to ensure no unauthorized access or disturbance is occurring.	A			LMICP
2B. Visually inspect perimeter areas to verify that prohibited activities (e.g., digging, soil removal, swimming) are not occurring on Fernald site.	A			"
2C. Visually inspect uncertified areas to ensure no digging, disturbance or tampering with signs is occurring.	A			"
2D. Visually inspect access control grating on the Main Drainage Corridor 60-inch culvert.	A			
2E. Annually (following harvest) inspect soil cover over outfall line to ensure sufficient soil cover (30 inches) is present.	N/A			

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Inspection Component	Condition A* or U*	Comments	Corrective Action(s) Proposed	Reference Source
3. Information Management				
3A. Verify that site information is available to the public and other stakeholders as planned.	A	A great deal of information about The Fernald Preserve is available to the public in a variety of ways such as publications, the Reading Room, website, bi-weekly emails, community meetings, fact sheets, a community telephone number, etc.		LMICP
3B. Verify that information on site inspections and maintenance is readily available.	A	Information about Fernald is available in the Reading Room, by request, at public meetings, on scheduled tours, speaking engagements, etc.		LMICP
3C. Verify that requests for site information are being addressed and fulfilled as planned.	A	Any requests or simple questions are handled as soon as possible with a goal of a 48-hour turnaround. Requests and inquiries are documented.		LMICP
3D. Verify that as-built drawings and information on OSDF contents and design are readily available.				LMICP
4. Site Interviews				
4A. Contracted Land Manager – Identify any unusual occurrences or problems at Fernald site.	A	There are some issues surrounding debris on site and stabilizing soils. These issues are not insurmountable.		LMICP
4B. Site Information/Data Manager – Ensure site data is available and information is being managed as planned.	A	The transition of electronic data is complete and the Fernald network has been set up and is functioning.		"
4C. Aquifer Restoration Manager – Verify that Aquifer remediation is progressing as planned and identify any unusual occurrences	A	Generally, the aquifer remediation progressed as planned.		"
4D. Other staff as appropriate – Identify any problems or site issues.	N/A			"
4E. Hamilton County/Butler County Sheriff – Identify any concerns or issues.	A	Hamilton county Sheriff's office is well aware of what has and what will be going on at Fernald, no concerns.	None	"
4F. Ross/Crosby Township Police/Fire Departments – Identify any concerns or issues.	A	No comments, everything is as expected.	None	"

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Inspection Component	Condition A* or U*	Comments	Corrective Action(s) Proposed	Reference Source
4G. Ohio "Call Before You Dig" Program Office – Ensure Fernald site information is properly noted to prevent unauthorized excavation on the site.	N/A	DOE's voting membership has not yet been set up.	None	"
4H. Stakeholder Groups (e.g., FRESH, Post-Closure Coalition) – Identify any concerns or problems.	A	Pleased with the progress and the current condition of the Fernald site	None	"
4I. Adjacent landowners.	A	Very pleased and wants to stay in contact and is also watching what is going on.	None except that the neighbor wants to make sure we take care of the thistle in a timely manner.	

*A = Satisfactory; U = Unsatisfactory (comments and identification on site map required)

FERNALD PRESERVE INTERVIEW RECORD

Name of Individual Contacted: Carol Schroer	**Time: 7 p.m.**	**Date: 04/02/07**
Title: neighbor	**Organization: Fernald Community Alliance**	
Street Address: **City, State, Zip:**	**Telephone No:** **Fax No:** **E-Mail Address:**	
Type: __ Telephone ___ Other _x_ Visit - Location of Visit: Crosby Township Community Center		
Contact Made By (Name): Sue Walpole		
Title: Community Relations Lead	**Organization: S.M. Stoller Corp.**	

Summary Of Conversation

Carol was asked about the Fernald site, what she would like to discuss and if she has any concerns or questions. She had nothing but good things to say about the site and was pleased with how well the cleanup had progressed. She attended the Closure Celebration on January 19 and was impressed with the open space at Fernald. No follow up is needed.

FERNALD PRESERVE INTERVIEW RECORD

Name of Individual Contacted: Bill Knollman	**Time: 1 p.m.**	**Date: 04/09/07**

Title: neighbor	**Organization: Knollman Farm**
Street Address: **City, State, Zip:**	**Telephone No: 513-738-1488** **Fax No:** **E-Mail Address:**

Type: __ Telephone _x_ Other ___ Visit - Location of Visit: Crosby Township Community Center

Contact Made By (Name): Sue Walpole

Title: Community Relations Lead	**Organization: S.M. Stoller Corp.**

Summary Of Conversation

I asked Bill an open-ended question – "How are we doing?"

- We don't have any problems at the time and appreciate the recent mowing that was done.
- We do want to make sure that the thistle is taken care of this year
- We were hoping that Shirley (Mrs. Knollman) would be allowed to walk along the gravel path along Willey Road
- Suggested that was talk to the Hamilton County game warden who lives nearby

FERNALD PRESERVE INTERVIEW RECORD

Name of Individual Contacted Ross Fire – Steve Miller	**Time: 3:30 p.m.**	**Date:04-07-07**

Title: Fire Chief	**Organization:**
Street Address: **City, State, Zip:**	**Telephone No: 513-623-8423** **Fax No:** **E-Mail Address: ross81@fuse.net**

Type: __ Telephone _x__ Other ___ Visit - Location of Visit:

Contact Made By (Name): Sue Walpole

Title: Community Relations Lead	**Organization: S.M. Stoller Corp.**

Summary Of Conversation

Steve was pleased with the new contract and what is going on at Fernald, no comment.

FERNALD PRESERVE INTERVIEW RECORD

Name of Individual Contacted - Hamilton County Sheriff Steve Barnett	**Time: 3 p.m.**	**Date: 04-24-07**

Title: Director of Public Relations	**Organization: Hamilton County Sheriff**
Street Address: 1000 sycamore St., Room 110 **City, State, Zip: Cincinnati, OH 45202**	**Telephone No: 513-946-6408** **Fax No:** **E-Mail Address:**

Type: ___ Telephone _x__ Other ___ Visit - Location of Visit:

Contact Made By (Name): Sue Walpole

Title: Community Relations Lead	**Organization: S.M. Stoller Corp.**

Summary Of Conversation

"Our patrol is well aware of what has gone on at Fernald and what is currently going on. We are pleased with the end result."

FERNALD PRESERVE INTERVIEW RECORD

Name of Individual Contacted: John Novak	**Time: 1 p.m.**	**Date: 05/02/07**
Title: Ohio Utilities Protection Program	**Organization:**	
Street Address: **City, State, Zip:**	**Telephone No: 330-545-7243** **Fax No:** **E-Mail Address:**	
Type: __ Telephone _x__ Other ___ Visit - Location of Visit:		
Contact Made By (Name): Sue Walpole		
Title: Community Relations Lead	**Organization: S.M. Stoller Corp.**	

Summary Of Conversation

This really does not apply. I have contacted John about letting us know when people might be digging around the site instead of the other way around. He knows the situation and we have left messages, but I have not spoken with him directly.

FERNALD PRESERVE INTERVIEW RECORD

Name of Individual Contacted: Frank Johnston	**Time:** 4:36 PM	**Date:** 5-14-07

Title: Site Manager	**Organization:** Stoller
Street Address: 10995 Hamilton-Cleves Hwy **City, State, Zip:** Harrison, OH 45030	**Telephone No:** 513-648-5294 **Fax No:** **E-Mail Address:** frank.johnston@lm.doe.gov

Type: __ Telephone _x_ Other ___ Visit - Location of Visit:

Contact Made By (Name): Lisa McHenry

Title: Restoration Ecologist	**Organization:** Stoller

Summary Of Conversation

From my perspective the, the contaminated debris issue has been the predominant issue. Other issues include getting disturbed soils stabilized and the air quality issue at OSDF valve house 4. None of these issues are insurmountable and all have been adequately addressed.

The lack of an approved certification report for the waste pit area is another concern. We acknowledge the elevated surface water uranium concentrations and will be continuing to evaluate the area.

FERNALD PRESERVE INTERVIEW RECORD

Name of Individual Contacted: Bill Hertel	**Time:**	**Date:** 5-14-07
Title: Aquifer Restoration Manager	**Organization:** Stoller	
Street Address: 10995 Hamilton-Cleves Hwy. **City, State, Zip:** Harrison, OH 45030	**Telephone No:** 513-648-3894 **Fax No:** **E-Mail Address:** bill.hertel@lm.doe.gov	
Type: __ Telephone _x_ Other ___ Visit - Location of Visit:		
Contact Made By (Name): Lisa McHenry		
Title: Restoration Ecologist	**Organization:** Stoller	

Summary Of Conversation

Generally, the Aquifer Remediation did progress as planned. However, our pumping rates were negatively impacted by the ice storm in mid February. That storm knocked out power to 6 wells and damaged the electronic components on several wells. Some of the wells were off for a month. We did not get everything back to normal until April.

FERNALD PRESERVE INTERVIEW RECORD

Name of Individual Contacted: Susan Marsh	**Time:** 1:30 PM	**Date:** 5-15-07

Title: Information Management Manager	**Organization:** Stoller
Street Address: 10995 Hamilton-Cleves Hwy **City, State, Zip:** Harrison, OH 45030	**Telephone No:** 513-648-7544 **Fax No:** **E-Mail Address:** susan.marsh@lm.doe.gov

Type: ___ Telephone __x__ Other ___ Visit - Location of Visit:

Contact Made By (Name): Lisa McHenry

Title: Restoration Ecologist	**Organization:** Stoller

Summary Of Conversation

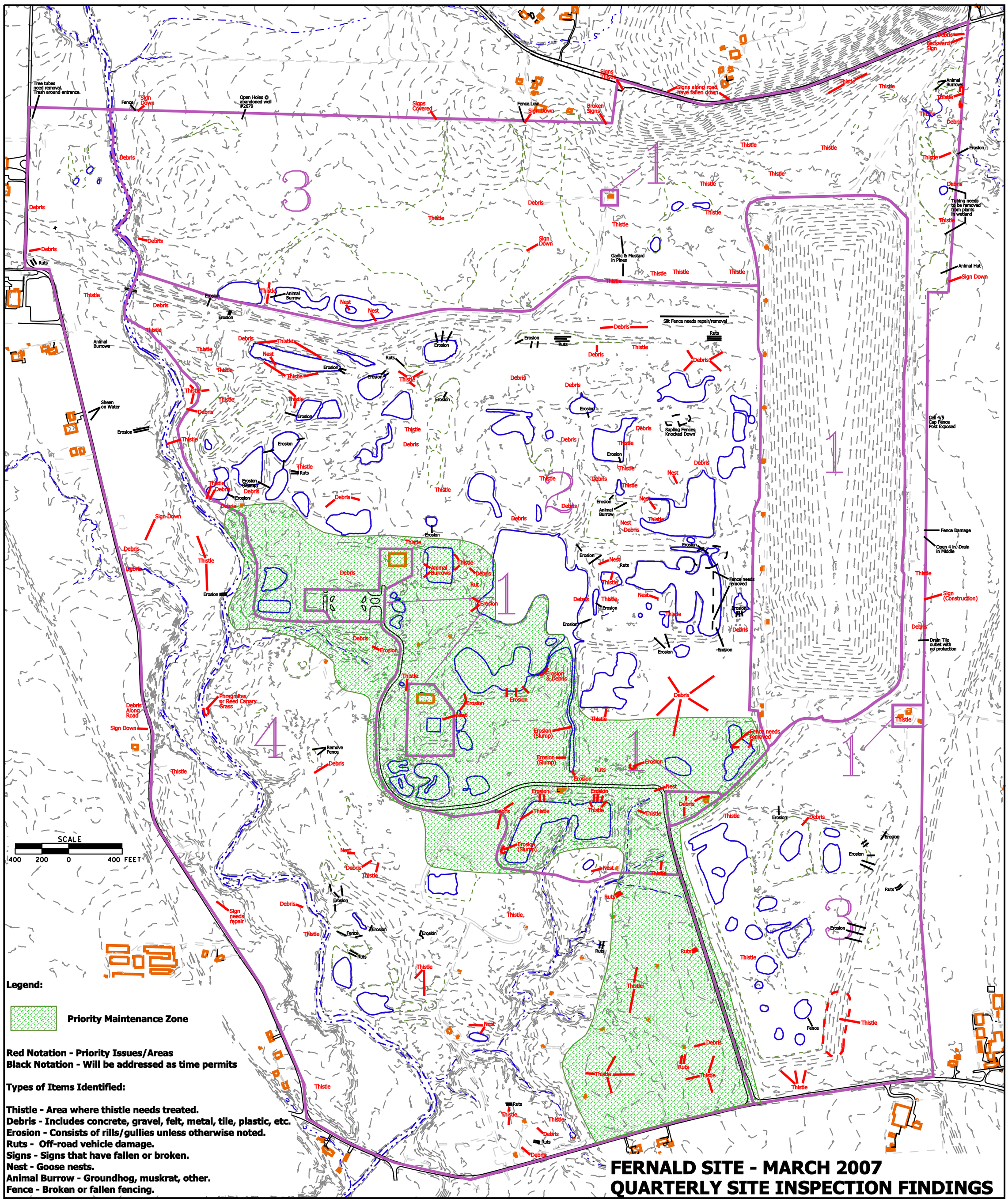
The site electronic data consists of I) Information transferred from Fluor and II) Information newly generated since transition.

I) Information transferred from Fluor
The transition RTP process identified the electronic data to be transferred and documented the completion of that process. There are no open items on the RTP associated with electronic data transition. All required data is stored on centrally managed Stoller/LM servers with appropriate security and backups.
This includes:

1. Databases associated with transferred applications, such as the Sitewide Environmental Database (SED), records database (RIDS) , health and safety (such as HIS20) (RTP has complete list)
2. GIS and CAD drawing data
3. Appropriate group share drives (such as the EMS and IEMP directories)
4. Individual user home drives and email folders.
5. the source and files associated with www.fernald.gov

II) Information newly generated since transition. LM/Stoller has established processes in place for various types of information and Fernald has followed those existing processes. The Fernald network is part of the larger Stoller/LM network and is managed according to existing security and backup policies. The local Fernald server has backup and restore capability.

1. Environmental and other sample and process data. Use of standard LM systems (SEEPro/SMS/Fieldpar) ensures secure and consist environmental data. Process data generated by CAWWT is retained on the local server and has appropriate control and backup.
2. Documents developed for reporting or other deliverables. These are managed on local server and/or GJO servers as appropriate. Documents are controlled and issued using existing LM/Stoller processes
3. CAD/GIS data. Active files are managed on local, temporary server with appropriate backups and coordinated with GJO servers.


FERNALD SITE - MARCH 2007
QUARTERLY SITE INSPECTION FINDINGS
Legend:
Priority Maintenance Zone
Red Notation - Priority Issues/Areas
Black Notation - Will be addressed as time permits
Types of Items Identified:
Thistle - Area where thistle needs treated.
Debris - Includes concrete, gravel, felt, metal, tile, plastic, etc.
Erosion - Consists of rills/gullies unless otherwise noted.
Ruts - Off-road vehicle damage.
Signs - Signs that have fallen or broken.
Nest - Goose nests.
Animal Burrow - Groundhog, muskrat, other.
Fence - Broken or fallen fencing.
SCALE
400 200 0 400 FEET
Tree tubes need removal. Trash around entrance.
Open Holes @ abandoned well #2679
Signs Covered
Fence Low
Broken Signs
Signs along road have fallen down
Backward Sign
Tubing needs to be removed from plants in wetland
Animal Hut
Garlic & Mustard in Pines
Silt Fence needs repair/removal
Sapling Fences Knocked Down
Cell 4/5 Cap Fence Post Exposed
Fence Damage
Open 4 in. Drain in Middle
Fence needs removed
Sign (Construction)
Drain Tile outlet with no protection
Phragmites or Reed Canary Grass
Debris Along Road
Remove Fence
Sign needs repair
Sheen on Water