



Department of Energy  
Office of Legacy Management

October 2, 2007

Mr. Timothy Fischer  
U.S. Environmental Protection Agency  
Region V-SRF-6J  
77 W. Jackson Blvd.  
Chicago, IL 60604-3590

Mr. Thomas A. Schneider  
Ohio Environmental Protection Agency  
401 East 5th Street  
Dayton, Ohio 45402

Dear Mr. Fischer and Mr. Schneider:

**SUBJECT: Transmittal of the September 10, 2007 Inspection Checklist for On-Site Disposal Facility**

The purpose of this letter is to transmit the completed checklist for the September 10, 2007 inspection of the On-Site Disposal Facility (OSDF) for your review. Photographs of the disposal facility and the surrounding area were taken to accompany the inspection and are included with this report. The inspection was conducted with participation from the Ohio Environmental Protection Agency (OEPA), Tetra Tech, Geosyntec Consultants, and the S.M. Stoller Corporation. The inspection was the 17th conducted on the cell 1 cap, the 13th conducted on the cell 2 cap, the 9th conducted on the cell 3 cap, the 8th conducted on the cell 4 and cell 5 caps, the 6th conducted on the cell 6 cap and the 4th complete inspection for the cell 7 and 8 caps. The herbaceous cover monitoring data for the cell 2 cap are also enclosed.

Establishment of the vegetative cover on cells 7 and 8 continues to progress very well. Cell 8 was mowed in August to prevent the rag weed and lamb's quarter from going to seed, and to release the seeds from the native grasses to aid in the establishment of native vegetation. A significant reduction in the amount of thistle present on the cell caps was very evident. Herbicide application to the cell caps for thistle control occurred in June 2007. A second application of herbicide was conducted in September to areas where thistle was identified during the September inspection. The June application of Plateau herbicide appears to have significantly suppressed the cool season grasses on the cell 1 cap. To take advantage of this, additional native grasses and forbs will be inter-seeded across the cap this fall.

Woody vegetation was identified in the rip rap drainages around the OSDF and along the toe of the cell caps. The woody vegetation had been cut or removed manually prior to the September inspection. The vegetation was given time to re-sprout and herbicide was applied following the September inspection.

19901 Germantown Road, Germantown, MD 20874	<input type="checkbox"/>	2597 B 3/4 Road, Grand Junction, CO 81503
3610 Collins Ferry Road, P.O. Box 880, Morgantown, WV 26507	<input type="checkbox"/>	626 Cochrans Mill Road, P.O. Box 10940, Pittsburgh, PA 15236
1000 Independence Ave., S.W., Washington, DC 20585	<input type="checkbox"/>	11025 Dover St., Suite 1000, Westminster, CO 80021
10995 Hamilton-Cleves Highway, Harrison, OH 45030	<input type="checkbox"/>	955 Mound Road, Miamisburg, OH 45342
232 Energy Way, N. Las Vegas, NV 89030	<input type="checkbox"/>	

REPLY TO: Harrison Office

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Mr. Thomas Schneider  
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Some minor erosion was identified on cells 7 and 8. The rills will be evaluated and any of the rills that meet the 3"x 6" criteria will be repaired. Rocks and other debris were identified on most of the cell caps. Animal burrows continue to be observed on several of the caps as well. The enclosed inspection checklist indicates where repairs and other attention are needed.

For this inspection, a punch list was developed that lists all of the findings. Maintenance personnel will use this punch list to ensure that findings are addressed.

Pursuant to Volume II of the Legacy Management and Institutional Controls Plan, herbaceous cover data was collected for cell 2. Twelve one-meter square quadrats were randomly located across the cell cap. The attached figure demonstrates the quadrat locations. For each quadrat, total cover and species richness data were collected. From this information, native species composition and relative frequency of native species was calculated. The attached table presents a summary of the cell 2 cap data.

The results of cell 2 herbaceous cover are mixed. Total cover is at or near 90% for all quadrats. A full stand of vegetation is present across the cap. However, both percent native species and relative frequency of native species is below 50%. Nevertheless, no action is recommended at this time, aside from continued monitoring. The plant community appeared to respond well following mowing and baling in May. Canada wild rye was present in all quadrats surveyed. With the spring mow and bale, observations will be made to see if increased native plant establishment occurs next year.

The next OSDF Cell Cap inspection is scheduled for December 2007. If you have any questions or require any additional information, please call me at (513) 648-3148.

Sincerely,

  
Jane Powell,  
Fernald Site Manager  
DOE-LM-20.1

Enclosure

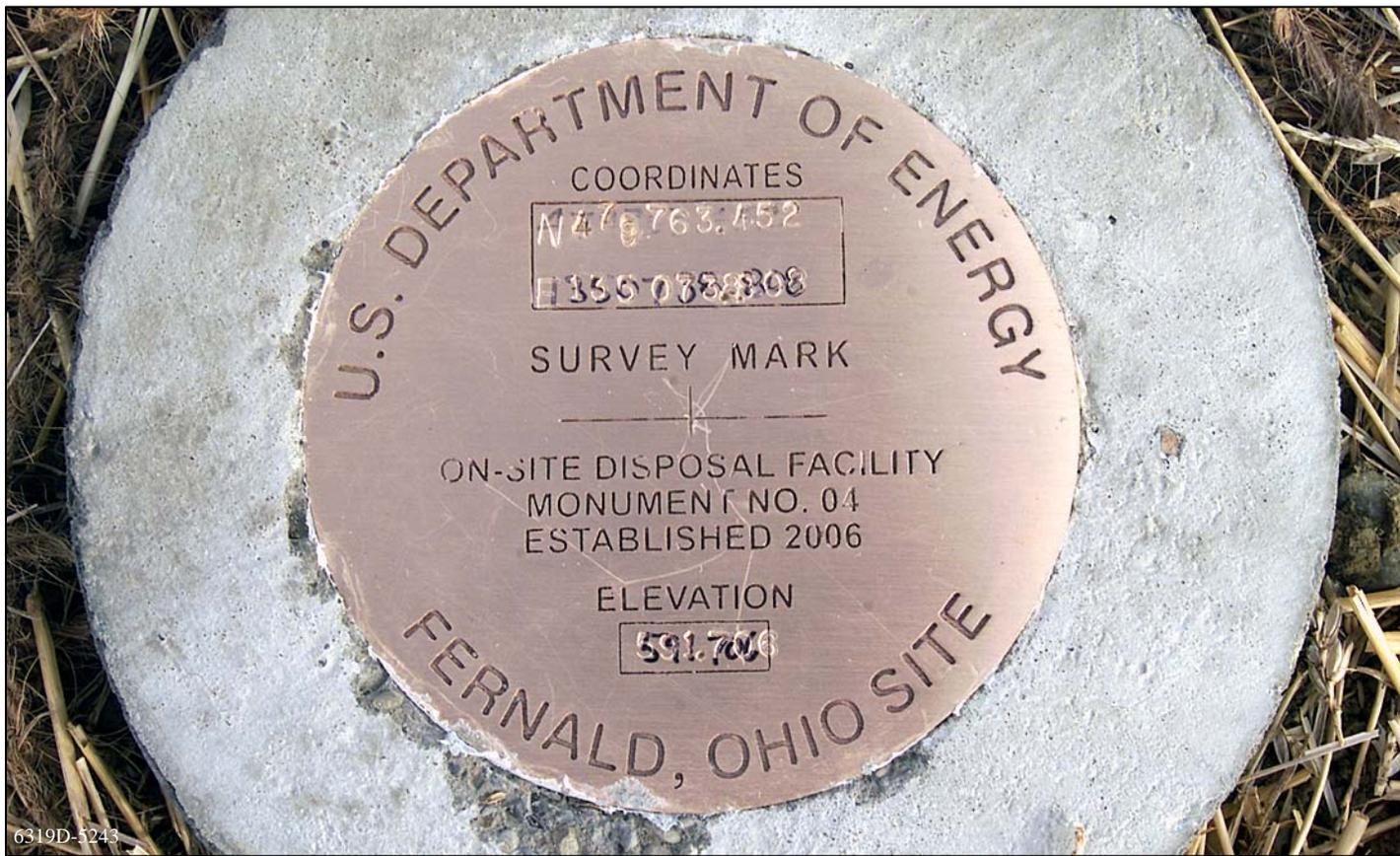
cc w/ enclosure:

M. Cullerton, Tetra Tech.  
M. Murphy, USEPA-V, A-18J  
J. Reising, DOE-EM  
T. Schneider, OEPA (three copies of enclosure)  
M. Shupe, HSI GeoTrans  
Project Record File FER030.1(A) (thru W. Sumner)  
Administrative Records (thru W. Sumner)

cc w/o enclosure:

J. Homer, Stoller  
F. Johnston, Stoller  
L. McHenry, Stoller

# On-Site Disposal Facility Inspection Report September 2007



*Stoller*  
Legacy Management Team





6319D-5414

**East Face Cell 1**



6319D-5420

**West Face Cell 1**



6319D-5417

**North Face Cell 1**



6319D-5416

**North Drainage (looking west)**



6319D-5413

**East Face Cell 2**



6319D-5421

**West Face Cell 2**



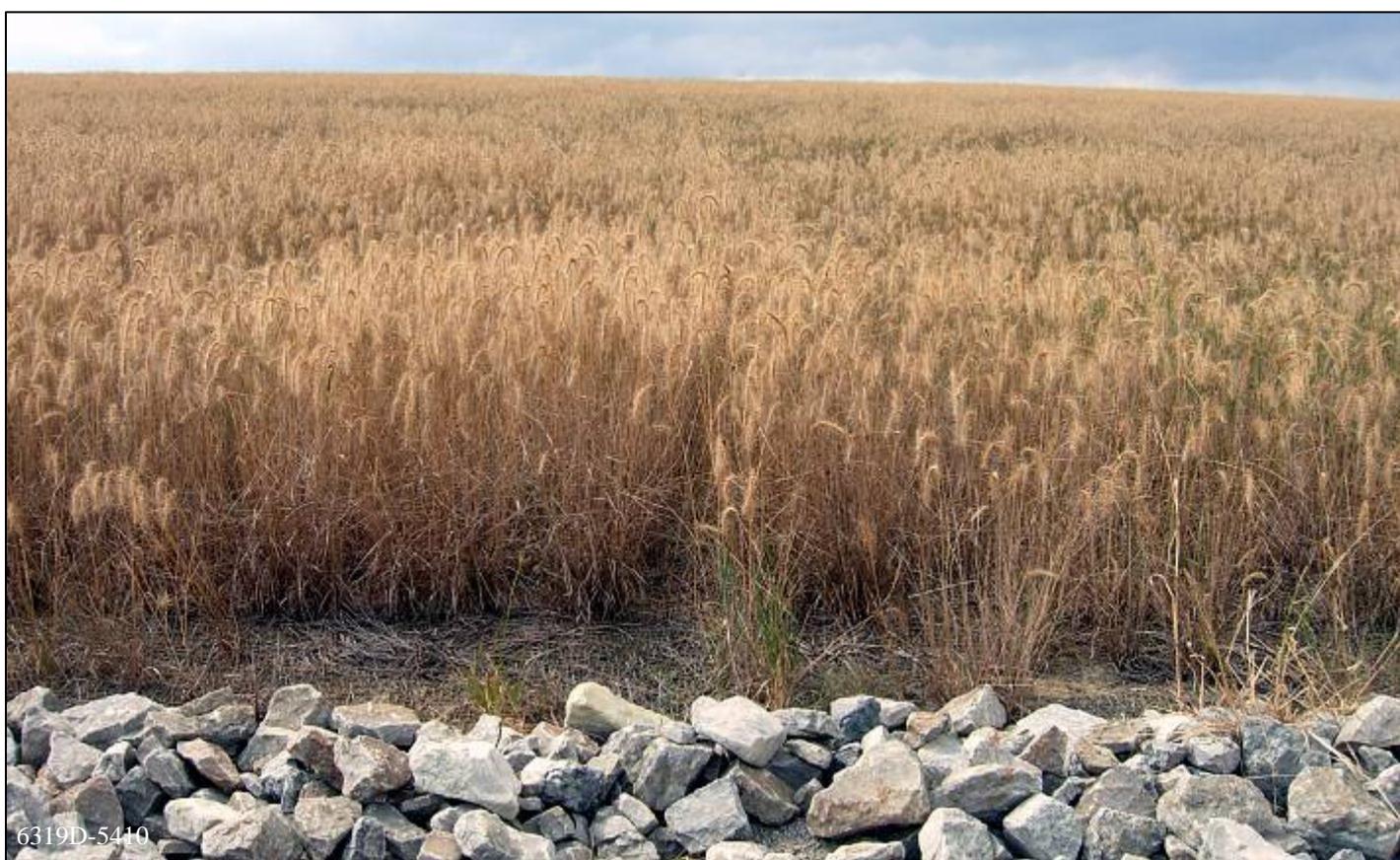
6319D-5412

**East Face Cell 3**



6319D-5422

**West Face Cell 3**



**East Face Cell 4**



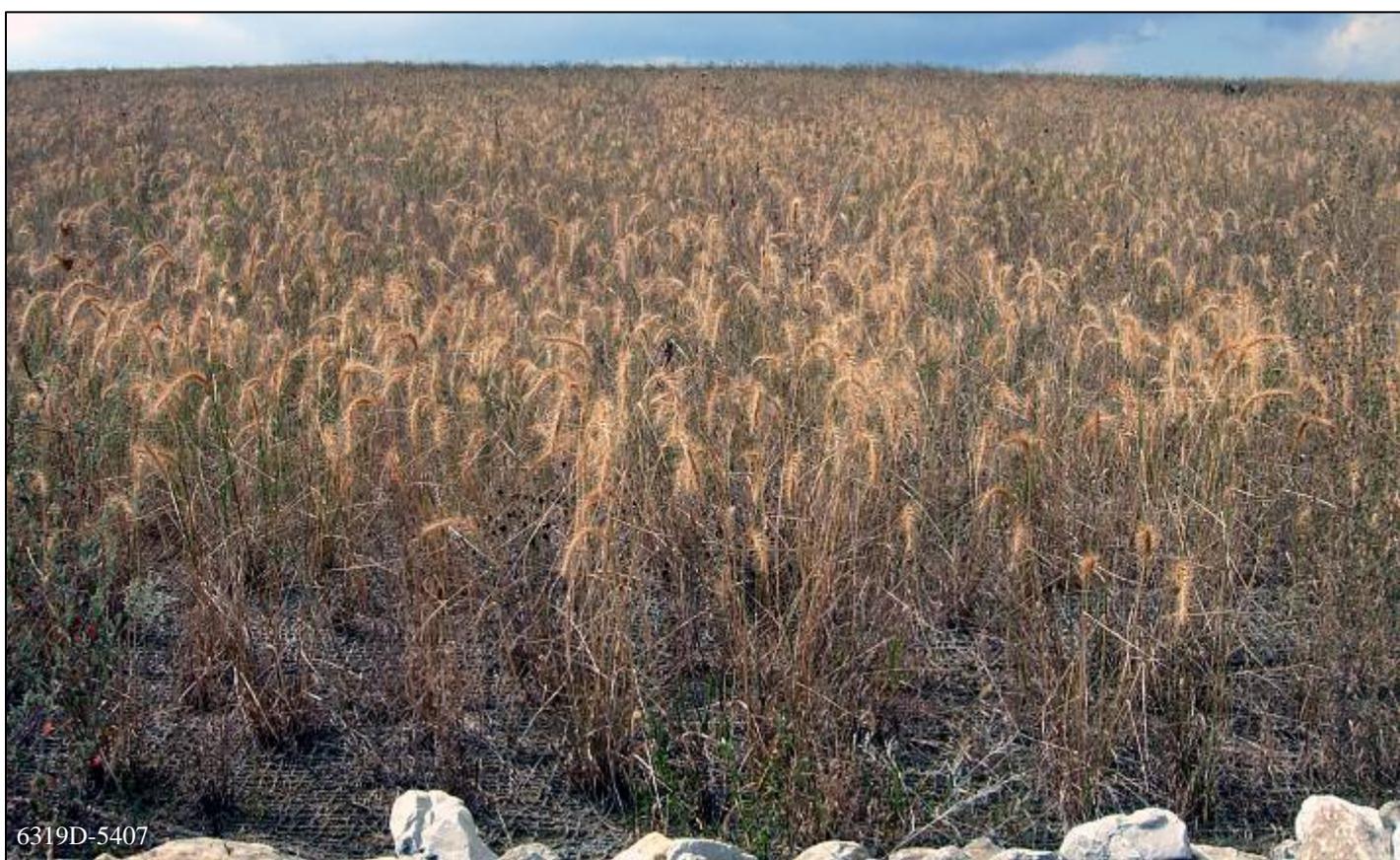
**West Face Cell 4**



**East Face Cell 5**



**West Face Cell 5**



6319D-5407

**East Face Cell 6**



6319D-5426

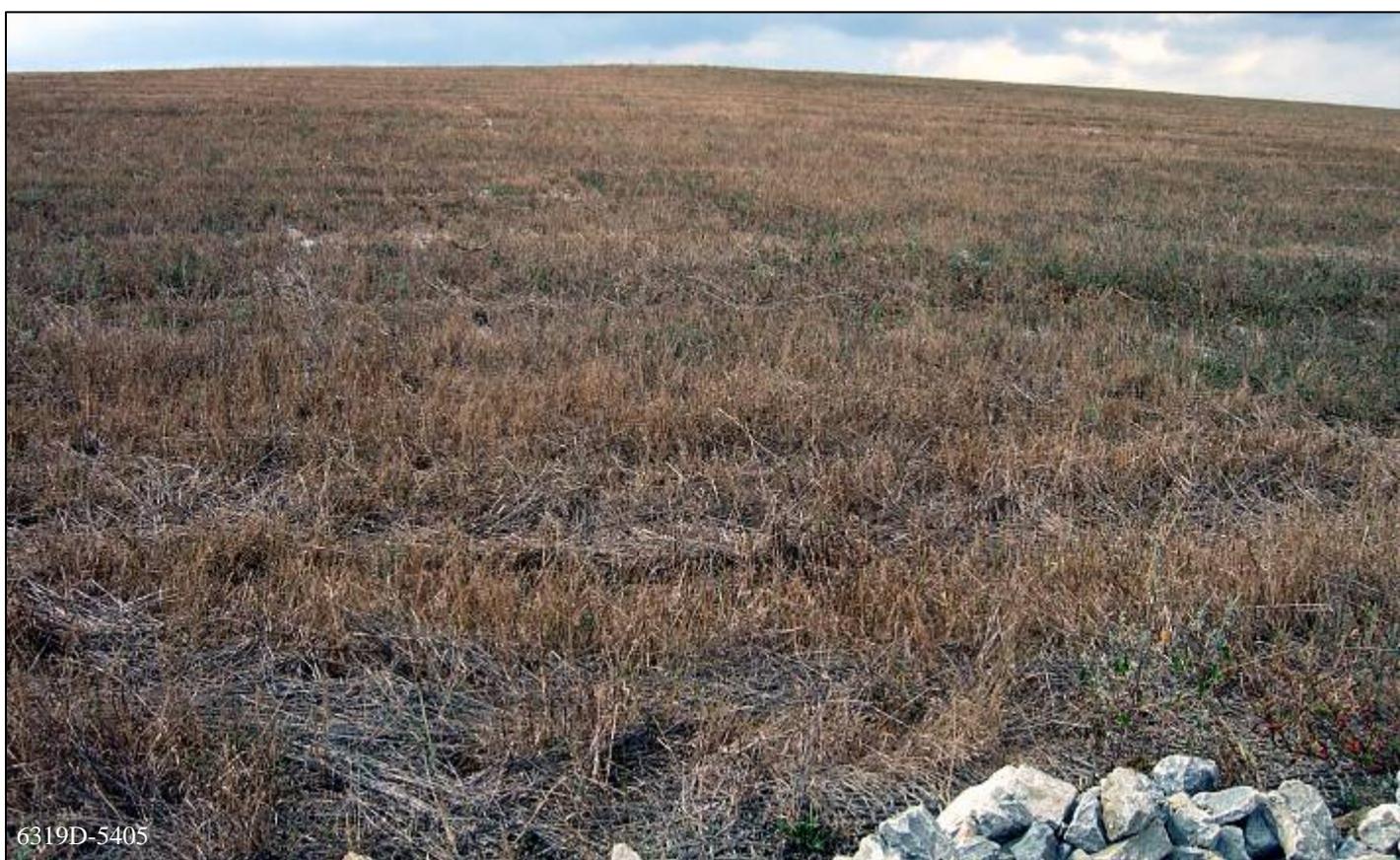
**West Face Cell 6**



**East Face Cell 7**



**West Face Cell 7**



6319D-5405

**East Face Cell 8**



6319D-5427

**West Face Cell 8**



6319D-5403

**South Face Cell 8**



6319D-5404

**South Drainage (looking west)**



6319D-5408

**East Drainage Cell 7 (looking south)**



6319D-5411

**East Drainage Cell 4 (looking south)**



6319D-5415

**East Drainage Cell 1 (looking south)**



6319D-5424

**West Inner Drainage Cell 4 (looking south)**



**West Inner Drainage Cell 1 (looking south)**



**West Outer Drainage Cell 1 (looking south)**



6319D-5429

**West Outer Drainage Cell 8 (looking north)**



6319D-5428

**West Outer Drainage Cell 8 (looking south)**