



5578

Department of Energy
Ohio Field Office
Fernald Environmental Management Project
P. O. Box 538705
Cincinnati, Ohio 45253-8705
(513) 648-3155



AUG 05 2004

Mr. James A. Saric, Remedial Project Manager
United States Environmental Protection Agency
Region V, SR-6J
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

DOE-0357-04

Mr. Tom Schneider, Project Manager
Ohio Environmental Protection Agency
401 East 5th Street
Dayton, Ohio 45402-2911

Mr. Bill Kurey
United States Fish & Wildlife Service, Suite H
6950 American Parkway
Reynoldsburg, OH 43068

Dear Mr. Saric, Mr. Schneider, and Mr. Kurey:

TRANSMITTAL OF THE JUNE 8, 2004 INSPECTION CHECKLIST FOR ON-SITE DISPOSAL FACILITY CELL 1 AND 2 CAPS

The purpose of this letter is to transmit the completed checklist for the June 8, 2004 inspection of the On-Site Disposal Facility Cell 1 and 2 Caps for your review. The inspection was conducted with participation from Tetra Tech, Inc. [supporting the United States Environmental Protection Agency (USEPA)], Ohio Environmental Protection Agency (OEPA), Ohio Department of Health (ODH), Department of Energy, Fernald Closure Project (DOE-FCP), Department of Energy, Office of Legacy Management (DOE-LM), and Fluor Fernald, Inc. The inspection was the sixth conducted on the Cell 1 Cap and the second conducted on the Cell 2 Cap, and generally found both caps to be in good condition.

During the June 2004 inspection, the team identified thistle growing on the Cell 1 Cap. Arrangements for herbicide application prior to the next inspection have been made. Some minor erosion rills (that do not meet the 3" x 6" criteria for repair) were identified as well as evidence of shallow animal burrows or digging, but no complete burrows. These areas will be monitored. There are some areas on the west side of Cell 2 in which the cover crop is not as dense as the remainder of the cap, but there is growth of other vegetation.

AUG 05 2004

DOE-0357-04

Mr. James A. Saric
Mr. Tom Schneider
Mr. Bill Kurey

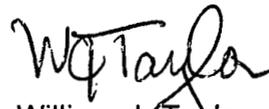
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These areas will be monitored over the summer and will be reseeded in the fall if deemed necessary.

The next inspection of the Cell 1 and Cell 2 Caps is scheduled for late September or early October.

For any question regarding this matter, please contact Johnny Reising at (513) 648-3139.

Sincerely,


William J. Taylor
Director

FCP:Reising

Enclosure: As Stated

AUG 05 2004

Mr. James A. Saric
Mr. Tom Schneider
Mr. Bill Kurey

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DOE-0357-04

cc w/enclosure:

J. Craig, DOE-LM
C. Jacobson, DOE-LM
J. Powell, DOE-LM
J. Reising, OH/FCP
D. Pfister, OH/FCP
E. Skintik, OH/FCP
G. Stegner, OH/FCP
T. Schneider, OEPA-Dayton (three copies of enclosure)
G. Jablonowski, USEPA-V, SR-6J
D. Bidwell, FCAB
D. Sarno, FCAB
F. Bell, ATSDR
M. Cullerton, Tetra Tech
M. Shupe, HSI GeoTrans
R. Vandegrift, ODH
AR Coordinator, Fluor Fernald, Inc./MS78

cc w/o enclosure:

N. Akgündüz, OH/FCP
K. Johnson, OH/FCP
K. Alkema, Fluor Fernald, Inc./MS1
J. Chiou, Fluor Fernald, Inc./MS64
J. Homer, Fluor Fernald, Inc./MS90
W. Hooper, Fluor Fernald, Inc./MS60
U. Kumthekar, Fluor Fernald, Inc./MS64
L. McKenry, Fluor Fernald, Inc./MS90
D. Nixon, Fluor Fernald, Inc./MS1
T. Poff, Fluor Fernald, Inc./MS65-2
D. Powell, Fluor Fernald, Inc./MS64
H. Swiger, Fluor Fernald, Inc./MS90
S. Walpole, Fluor Fernald, Inc./MS76
E. Woods, Fluor Fernald, Inc./MS90
ECDC, Fluor Fernald, Inc./MS52-7

OSDF Cell 2 Post Closure Inspection Checklist

Date of Inspection: June 8, 2004

Weather Conditions: Sunny, Warm

Time of Inspection: 8:30 a.m.

Temperature: 75 °F Wind Speed (Miles per hour) and Direction: 10 – 15 mph sw

Inspection By: Fluor Fernald, DOE-FCP, OLM, OEPA, Ohio Department of Health, Tetra Tech Inc.

Transect Direction** North/South

Inspection Component	Condition A* or U*	Comments	Corrective Action(s) Proposed	Reference Source
1. Entrance Road/Monitoring Access Road				
1A. Verify entrance gate, lock and signage are intact and in good working order.	A	N/A	N/A	PCC&IP 20100-PL-010 Rev. 1 July 97
1B. Verify that access gates are locked to prevent unauthorized entry.	A	N/A	N/A	"
1C. Visually observe condition of access road for signs of erosion, ruts, standing water, proper drainage and excess vegetation.	A	Gravel "wash-outs" are repaired.	N/A	"
1D. Verify that access road surfacing, cross slope, reflectors, and signage are intact and in good condition.	A	N/A	N/A	"
2. Chain Link Fence and Signage				
2A. Walk length of fence and ensure fence, posts, etc. are intact and in good condition. Ensure that gates are closed/locked to prevent unauthorized entry.	A	N/A	N/A	PCC&IP & OSDF Tech Spec #02831
2B. Verify that the proper signage is intact and in good condition at the following locations: Restricted Access; Certified Area; and Restored Area. (Some signs not installed at this time).	A	N/A	N/A	"
2C. Check for vegetation growing over fences, barricades, signs and any noxious vegetation per State of Ohio Regulations (attached) and invasive plants growing on or around OSDF perimeter.	A	N/A	N/A	"
3. Surface Water Management				
3A. Check integrity of drainage channels around OSDF for erosion or debris restricting water flow (see attached map). Build up of debris/sedimentation in drainage ditch is not to exceed 6 inches.	A	Construction in northwest drainage along cell 2 near valve house 2 is complete.	N/A	OSDF Tech. Spec. #02270; PCC&IP
3B. Visually check the integrity of RipRap in drainage channels for signs of deterioration or removal of rock.	A	N/A	N/A	See above & OSDF Tech. Spec. #02271
3C. Visually check for the presence of woody vegetation growing in drainage channels and in Rip-Rap	U	Woody plants growing in drainage channel	Herbicide has been applied. Will monitor for growth.	"
3D. Visually check the integrity of run-on and run-off control features including: Ditch checks, Gravity Inlet structures, and Culverts.	A	N/A	N/A	See above & Construction Drawing # 90X- 6000-G-00073

*A = Satisfactory *U = Unsatisfactory (comments required)

** Transect Direction should alternate each inspection (North to South & East to West)

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Inspection Component	Condition A* or U*	Comments	Corrective Action(s) Proposed	Reference Source
4. (A) Final Cover				
4A. Walk cover and side slopes in 25-ft (+/- 5-ft) transects and visually inspect for the following items:**				PCC&IP
4A1. Inspect erosion rills/channels. Flag any observable rills/channels greater than 3 inches wide and 6 inches deep or excessive erosion.	U	Some erosion rills/channels beginning on cap	Erosion rills are not 3"x6" and do not need repair.	"
4A2. Any observable depressions, settlement/subsidence, slumping or desiccation cracks. Flag any observable depressions, slumps, settlement/subsidence or desiccation cracks.	U	Shallow low areas are present on the west side of the cell.	Areas have been flagged and will be monitored.	"
4A3. Any ponding or standing water. Flag any standing water.	A	N/A	N/A	"
4A4. Evidence of burrowing animals or other bio-intrusion. Flag any observable evidence of bio-intrusion.	A	N/A	N/A	"
4A5. Evidence of vehicle traffic on the OSDF cap.	U	Depressions are present along west side of the very top of the cap. Believed to be caused by heavy equipment during construction.	Area will be monitored	"
4B. Walk toe of slope and visually inspect for the following:				PCC&IP & Phase III Drwgs #90X-6000-G- 00302 & 90X-6000-G- 00310
4B1. Evidence of settlement/subsidence, erosion, and seepage. Flag any observable evidence of settlement/subsidence, erosion, or seepage.	U	Erosion rills beginning along bottom edge of cap.	Erosion rills are not 3"x6" and do not need repair.	"
4B2. A 20-ft corridor at the toe for the presence of woody vegetation, siltation, and/or biointrusion. Flag any woody vegetation, siltation, and/or biointrusion.	A	N/A	N/A	"
4B3. Condition of rip-rap. Flag any observable abnormalities.	A	N/A	N/A	"
4C. Inspect toe at final cover for evidence of freezing or siltation. Flag any observable abnormalities.	A	N/A	N/A	"

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Inspection Component	Condition A* or U*	Comments	Corrective Action(s) Proposed	Reference Source
4. (B) Final Cover — Vegetation				
4D. Walk cover and side slopes in 25-ft (+/- 5-ft) transects and visually check vegetative cover for the following:				OSDF Tech. Spec. #02930
4D1. General health of grass cover and signs of stressed or dead grass should be noted.	A	N/A	N/A	“
4D2. Adequate grass coverage/density with no bares spots greater than 3-ft in diameter. Flag any bare spots greater than 3-ft in diameter. Any areas with questionable vegetative coverage will be sampled for percent cover and type of vegetation using meter-square quadrats.	U	Patches on the west side where the cover crop did not come in very well, but other vegetation is filling in.	Monitor these areas over the summer and reseed in the fall as necessary.	“
4D3. Inspect the cover for the presence of woody vegetation (i.e., trees or shrubs) or noxious/invasive plants growing. Flag any woody and/or noxious/invasive vegetation for removal/herbicide.	A	N/A	N/A	“
5. Cover Monitoring System				
5A. Visually inspect the integrity of the cover monitoring system: check Junction boxes, manholes, pressure transducer risers, soil water status nest headers, and settlement plates of the remote monitoring system for evidence of damage (see attached map). Check that lids and caps on enclosures are intact and in good working order.	N/A	N/A	N/A	OSDF Drwg. # 90X-5500-E-00581 & 90X-5500-G-00577
5B. Visually inspect monitoring system manholes and junction boxes for the presence of animals, insects, rodents or misc. biota. Note the presence or evidence of any biota.	N/A	N/A	N/A	“
5C. Visually inspect manholes and junction boxes and their immediate vicinity for the presence of standing water. Flag all standing water.	N/A	N/A	N/A	“
6. Groundwater Monitoring Wells				
6A. Visually inspect all groundwater wells for damage and integrity of well infrastructure.	A	N/A	N/A	PPC&IP
6A1. Groundwater Monitoring Wells	A	N/A	N/A	“
6A2. Horizontal Monitoring Wells	A	N/A	N/A	“

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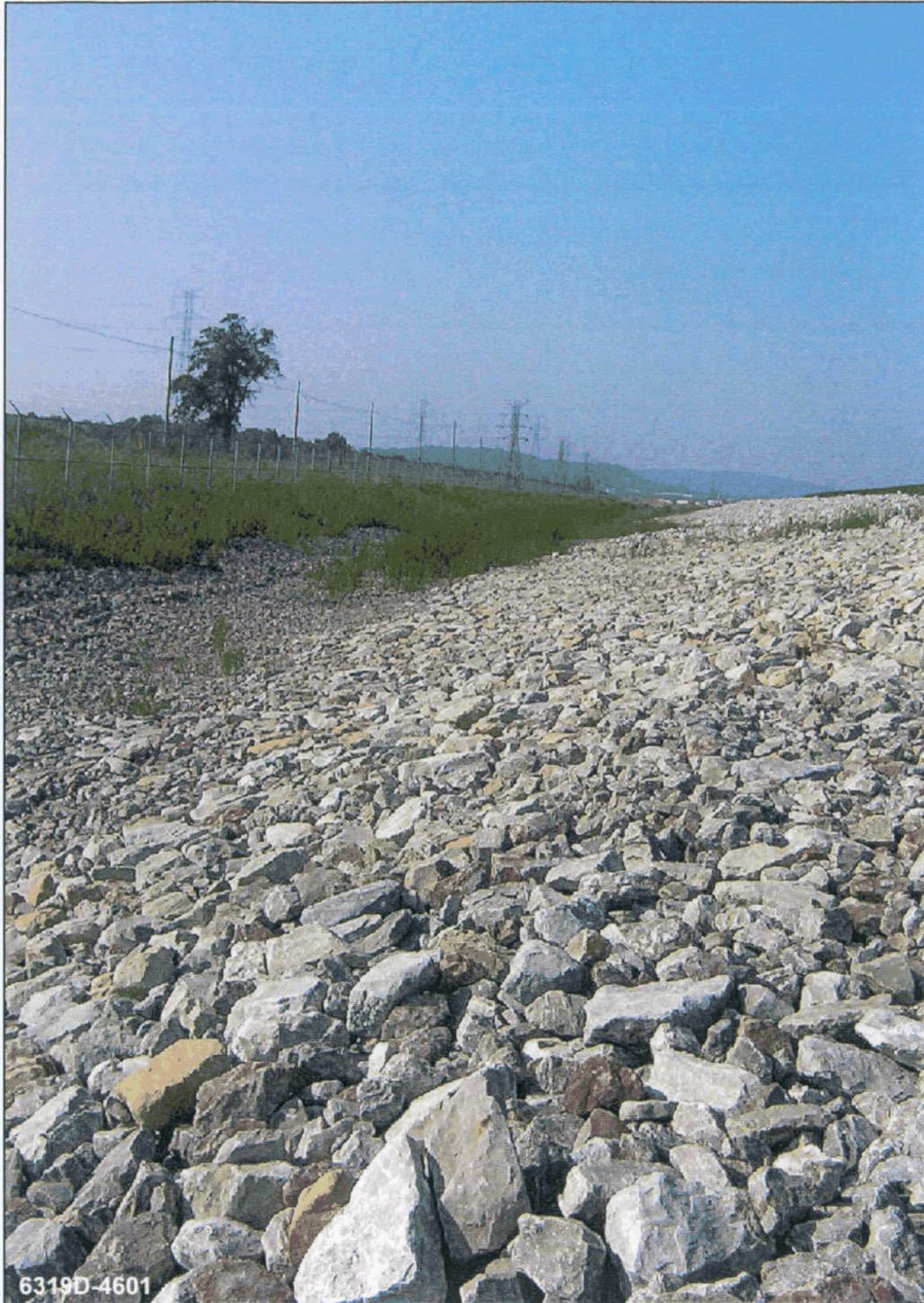
Inspection Component	Condition A* or U*	Comments	Corrective Action(s) Proposed	Reference Source
7. Miscellaneous				
7A. Visually inspect the integrity of survey benchmarks. Flag/note any abnormalities.	A	N/A	N/A	PPC&IP
7B. Visually inspect the integrity of the perched water interceptor trench (once installed). Note any abnormalities.	A	N/A	N/A	
7C. Visually observe/inspect the corridor 50-ft outside of OSDF for signs/evidence of land use changes, settlement/subsidence, erosion, standing water, encroachment, livestock grazing or noxious vegetation. Note any changes/abnormalities.	A	N/A	N/A	
7D. Visually inspect all infrastructure for any act of vandalism.	A	N/A	N/A	"
7E. List any other observations not noted in the categories above.	A	N/A	N/A	"

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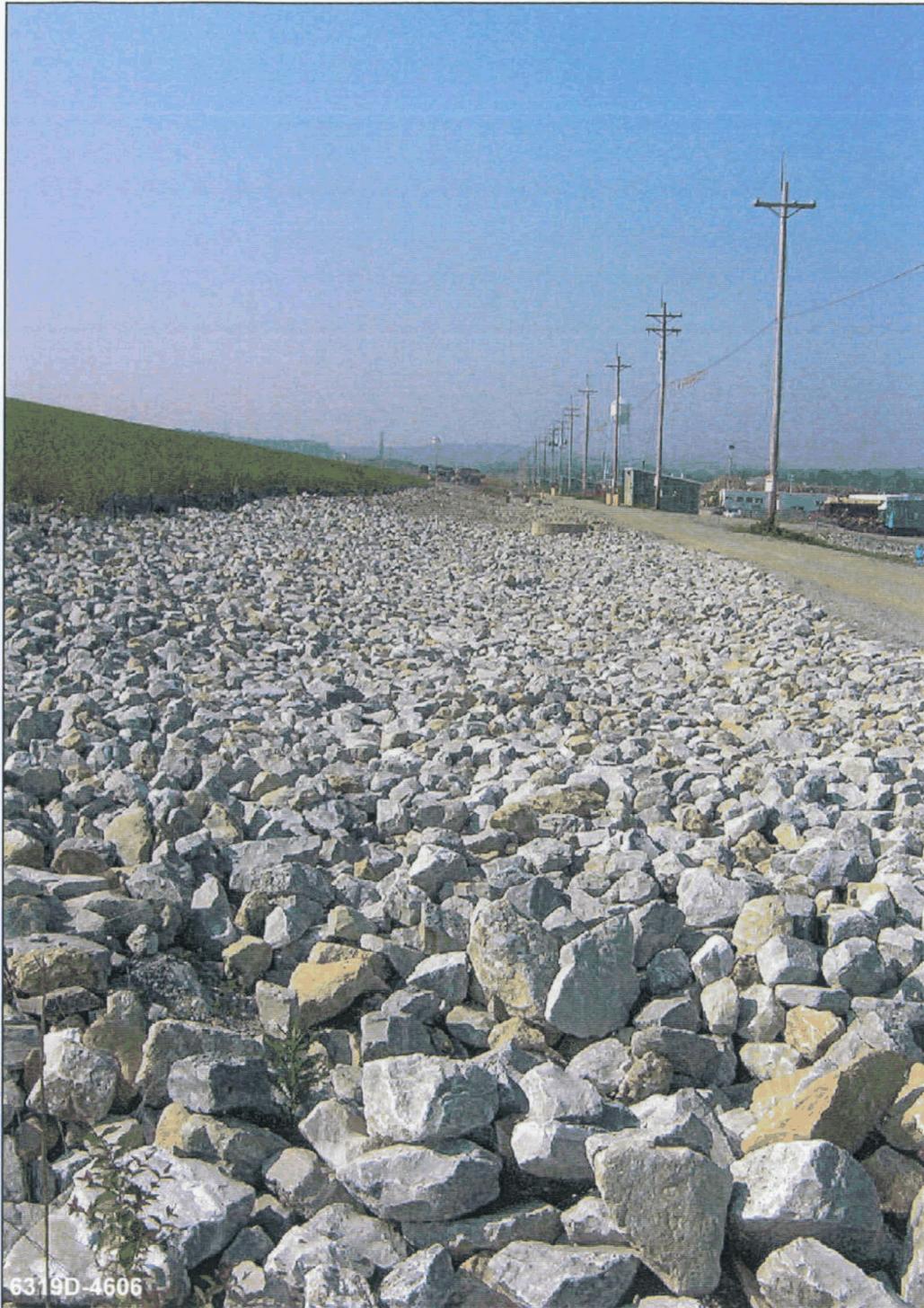


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North Drainage (looking east)



East Drainage
(looking south)



West Drainage
(looking south)



West Side Outer Drainage
(looking north)



West Side Outer Drainage
(looking south)



West Face Cell 1



West Face Cell 2



East Face Cell 2



East Face Cell 1

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North Face Cell 1