



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



4916

JUN 18 2003

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-0410-03

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

Dear Mr. Saric and Mr. Schneider:

APRIL 24, 2003 INSPECTION CHECKLIST FOR ON-SITE DISPOSAL FACILITY CELL 1 CAP

The purpose of this letter is to transmit the Completed Checklist for the April 24, 2003 inspection of the On-Site Disposal Facility (OSDF) Cell 1 Cap 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), and Fluor Fernald, Inc. The inspection was the second conducted on the Cell 1 Cap and generally found the cap to be in good condition. Some minor repairs will be required as a result of the inspection and are identified on the enclosed checklist and supporting figure. Inspections are planned on a quarterly basis with the next inspection scheduled for late July 2003.

During the April inspection, the team identified several minor corrective actions that will require repair prior to the next inspection. Several erosion rills were identified that will be filled and seeded. Several, less significant erosion rills were identified, surveyed, and will be evaluated in future inspections. A number of animal burrows were identified on the cap that may require repair. Woody vegetation was identified on the toe of the cap and in the adjacent drainage channel, and some invasive vegetation was identified on the cap. Photographs of the areas requiring correct action will be taken after mowing of the Cell 1 Cap is complete and will be submitted under separate cover.

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DOE-0410-03

Mr. James A. Saric
Mr. Tom Schneider

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Any comments on the checklist or questions regarding this matter should be directed to Jay Jalovec at (513) 648-3122 or Robert Janke at (513) 648-3124.

Sincerely,



Glenn Griffiths
Acting Director

FCP:Jalovec

Enclosure: As Stated

cc w/enclosure:

R. Janke, OH/FCP
D. Pfister, OH/FCP
J. Reising, OH/FCP
D. Goetz, Fluor Fernald, Inc./MS64
D. Powell, Fluor Fernald, Inc./MS64
C. Van Arsdale, Fluor Fernald, Inc./MS64
AR Coordinator, Fluor Fernald, Inc./MS78

cc w/o enclosure:

G. Stegner, OH/FCP
J. D. Chiou, Fluor Fernald, Inc./MS64
U. Kumthekar, Fluor Fernald, Inc./MS64
L. Ludwick, Fluor Fernald, Inc./MS65-2
E. Woods, Fluor Fernald, Inc./MS65-2
ECDC, Fluor Fernald, Inc, /MS52-7

OSDF Cell 1 Post Closure Inspection Checklist

Date of Inspection: April 24, 2003

Weather Conditions: Cloudy

Time of Inspection: 9:30 a.m.

Temperature: 45 °F Wind Speed (Miles per hour) and Direction: 5 – 10 mph - SW

Inspection By: Fluor Fernald, DOE, 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.	U	Ruts on road surface at access point to monitoring well on east side of Cell 1	Repair surface of road	"
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	N/A	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 application has been scheduled	"
3D. Visually check the integrity of run-on and run-off control features including: Ditch checks, Gravity Inlet structures, and Culverts.	U	Evaluation needed to ensure ditches North and West of Cell 1 are functioning properly	Complete Engineering evaluation and share results with inspection team	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	Multiple erosion rills/channels identified on cap	Repair erosion rills/channels by hand and reseed. Map and monitor less severe rills	"
4A2. Any observable depressions, settlement/subsidence, slumping or desiccation cracks. Flag any observable depressions, slumps, settlement/subsidence or dessication cracks.	U	Three areas of slight settlement identified – Evaluated by Engineering – determined to meet specifications	None Required	"
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.	U	Multiple animal burrows present and flagged on cap	Identify types of animals present and determine if corrective action is needed	"
4A5. Evidence of vehicle traffic on the OSDF cap.	U	Repeated vehicle traffic on southern edge of cap	Restrictions on driving on cap have been implemented	"
4B. Walk toe of slope and visually inspect for the following:	A	N/A	N/A	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.	A	N/A	N/A	"
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.	U	Woody vegetation present at toe of slope in rip rap	Herbicide woody vegetation	"
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	Several spots with inadequate grass cover were flagged – Areas identified in 10/02 inspection and reseeded in March 2003	Evaluate results of reseeding effort in June 2003 prior to repairs to erosion rills – seed bare areas as needed	"
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.	U	Thistle present in numerous locations on west side and top of cap in monitoring corridors	Use selective herbicide on portions of cap containing thistle – application has been scheduled	"
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.	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.	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.	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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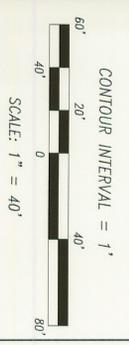


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Legend

- Erosion rills that will be watched only - (Item 4A1)
- Erosion rills that require corrective action - (Item 4A1)
- Animal Burrows - (Item 4A4)



REVISIONS:

Designed By:	
Drawn By:	M.C.K.
Checked By:	L.E.H.
Approved By:	L.E.H.

FLUOR FERNALD, INC.
FERNALD ENVIRONMENTAL
MANAGEMENT PROJECT
AERIAL PHOTOGRAPH

TECUMSEH
SURVEYING, INC.
 4948 CINCINNATI-BROOKVILLE ROAD
 SHANDON, OHIO 45013
 TELEPHONE: 513 738-2134
 FAX: 513 738-2756

Date: 5-9-03
 Scale: 1" = 40'
 OSDF CELL 1 CAP
 CORRECTIVE ACTIONS
 4-24-03 INSPECTION
 1 OF 1