

Department of Energy
Washington, DC 20585

PROD 7584

January 10, 2019

Mr. David Seely
U.S. Environmental Protection Agency
Region 5 (SR-6J)
77 W. Jackson Blvd.
Chicago, IL 60604-3590

Ms. Laura Hafer
Ohio Environmental Protection Agency
401 East 5th Street
Dayton, Ohio 45402

Dear Mr. Seely and Ms. Hafer:

Subject: Transmittal of the December 2018 Fernald Quarterly Inspection Report

This letter is the December 2018 quarterly inspection report for the Fernald Preserve, Ohio, Site. Inspections are conducted as directed by the *Comprehensive Legacy Management and Institutional Controls Plan* (LMICP) (LMS/FER/S03496). This letter also fulfills the reporting requirements specified in the Environmental Covenant, which is Appendix D of the *Consent Decree Resolving Ohio's Natural Resource Damage Claim Against DOE*. The inspections confirm that the activity and use limitations for the Fernald Preserve remain in place and are being complied with.

This December inspection report includes results from the quarterly On-Site Disposal Facility (OSDF) inspection. This walkdown was conducted on December 5 and included a walkdown of the OSDF cap in its entirety, the toe, drainages, and fence line. This report also includes results from the site inspection conducted from December 6 to 12. As stated in the 2018 LMICP, site inspections consist of two components: point-specific institutional control (PSIC) inspections and field walkdowns. All field walkdowns are scheduled during the dormant vegetation months of November through April. Results included in this report are for the following inspections:

INSPECTION TYPE	DATE	PARTICIPANTS
OSDF Inspection	December 5, 2018	Ohio EPA, ODH, and Navarro
Field Walkdown (West Quadrant)	December 12, 2018	DOE, Ohio EPA, ODH, and Navarro
PSIC Inspection	December 6–12, 2018	Navarro

Abbreviations: DOE= U.S. Department of Energy, Ohio EPA = Ohio Environmental Protection Agency, ODH = Ohio Department of Health

Findings from the field walkdown are recorded on the attached *Fernald Preserve Field Walkdown Inspection Summary* and the associated map (Figure 1). Findings from the PSIC inspection are recorded on the attached *Fernald Preserve Institutional Control Inspection* form (LMS 3047FER). Findings from the OSDF inspections are recorded on the attached *Fernald Preserve OSDF Walkdown Inspection Summary* and on the associated map (Figure 2).



Photographs of the OSDF and the surrounding area accompany the December 2018 OSDF inspection summary and are also included. Photographs of individual findings are typically taken with GPS-enabled cameras. This allows for easier location of the findings for correction or maintenance. When GPS-enabled cameras are used, the photograph files are listed on the walkdown inspection summaries; the photographs are available upon request.

Findings from Site Inspections

A field walkdown of the west quadrant, which includes the north woodlot and Paddys Run west, was conducted on December 12 with participation by U.S. Department of Energy (DOE), Ohio Environmental Protection Agency (Ohio EPA), Ohio Department of Health (ODH), and Navarro. Most of the findings were related in some way to fencing, either currently installed deer fencing that is damaged; recently removed tree protection cages that need removed from the field; or old, corrugated plastic tree tubes that have fallen off trees and need removed from the field. The currently installed deer fence will be repaired. Other items will be removed from the field. There were no signs of unauthorized access or misuse of the property.

PSICs were inspected from December 6 to 12. There were a few findings, two of which were identified during the field walkdown and are also recorded with the field walkdown inspection findings. A perimeter access barrier needs a minor repair, two perimeter signs need to be straightened and secured, and vegetation has overgrown the west gate of the former railroad trestle. Water continues to flow freely through the 60-inch culvert. The grating at both ends is still sufficient to prevent access. There is a small buildup of mud at the north end outside the grate and a small buildup of vegetative debris inside the south grate. However, the water levels are high and flow is not impeded.

The site outfall line to the Great Miami River was also surveyed and inspected, pursuant to the LMICP. No issues were observed with respect to soil cover or disturbance along the length of the line on the slope or in the floodplain. There are a number of sapling-size trees growing over the outfall line corridor on the slope leading down to the floodplain elevation. Also, standing water from recent precipitation was observed around Manhole 177B. A plan will be developed for removing the trees and adding fill around Manhole 177B within the next year. Visual inspection of the outfall line will continue to be included as part of quarterly PSIC inspections, along with an annual survey in the fall following harvest.

DOE is committed to providing quarterly summary numbers regarding debris findings. Twelve pieces of debris were surveyed since the last inspection report (September 2018). No contamination was detected and all surveyed debris was free released. Surveyed debris is a combination of debris from inspection follow-up, discoveries during construction activities, and casual observation while in the field.

Findings from OSDF Inspection

The December 2018 quarterly OSDF inspection took place on December 5, with participation by Ohio EPA, ODH, and Navarro. The inspection included a walkdown of the entire OSDF cap, toe, drainages, and fence line. Findings on the cap included primarily woody vegetation and animal burrows. The woody vegetation was scattered mostly across Cell caps 4, 5, 6, and 7. Prescribed burn, physical removal, herbicide, or a combination of these methods will be used to clear the

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Ms. Laura Hafer
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unwanted vegetation. The southern half of the OSDF (Cell caps 5, 6, 7, and 8) is scheduled to be burned in the spring of 2019. Woody vegetation will be easily accessible and will be addressed following the burn. The animal burrows identified during the inspection were collapsed and filled in. There were trees and minor erosion identified along the perimeter fence. The integrity of the OSDF fence is not compromised. Physical removal and herbicide will be used to clear the woody vegetation along the fence line, and any erosion will continue to be monitored.

Findings from all of these inspections have been added to the site maintenance database and are included in the *Fernald Maintenance and Repair Action Items Summary*, a printout of which is enclosed. Resolution of the findings is tracked through the database. Items on the database list that have been resolved since the previous inspection report are included in the report with the date and description of the resolution. Previously reported, resolved findings are removed from the list. The resolution of older findings can be found in previous quarterly inspection reports.

The 2019 inspection schedule is shown below.

DATE	INSPECTION TYPE	REPORT DATE
January 9, 2019	Central Quadrant	March 28, 2019
February 6, 2019	South Quadrant	March 28, 2019
March 6, 2019	OSDF Toe, East Quadrant, PSIC	March 28, 2019
June 5, 2019	OSDF Toe, PSIC	June 27, 2019
August/September 2019	Annual Site Inspection Photos	Fernald Preserve 2019 Site Environmental Report
September 5, 2019	OSDF Toe, PSIC	September 26, 2019
December 4, 2019	OSDF Complete Cap and Toe, West Quadrant, PSIC	January 2020

If you have any questions or require additional information, please call me at (513) 648-3333. Please send any correspondence to my attention at:

U.S. Department of Energy
Office of Legacy Management
10995 Hamilton-Cleves Hwy.
Harrison, OH 45030

Sincerely,



Susan Smiley
Fernald Preserve Site Manager
DOE-LM-22

Enclosure

Mr. David Seely
Ms. Laura Hafer
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cc w/enclosure:

M. Rubadue, ODH
L. Hafer, OEPA (two copies of enclosure)
DOE Read File (e)
LM Admin Support (e)
File: FER 115.02.05(A) (thru M. Korte) (e)

cc w/o enclosure:

(electronic)

D. Shafer, DOE-LM
G. Hooten, DOE-LM
B. Zimmerman, DOE-LM
F. Banks, DOE-LM
R. King, DOE-LM
B. Taylor, DOE-LM
B. Hertel, Navarro
J. Homer, Navarro
L. McHenry, Navarro

U.S. Department of Energy Office of Legacy Management

Fernald Preserve Field Walkdown Inspection Summary

Beginning: 12/12/2018

Ending: 12/12/2018

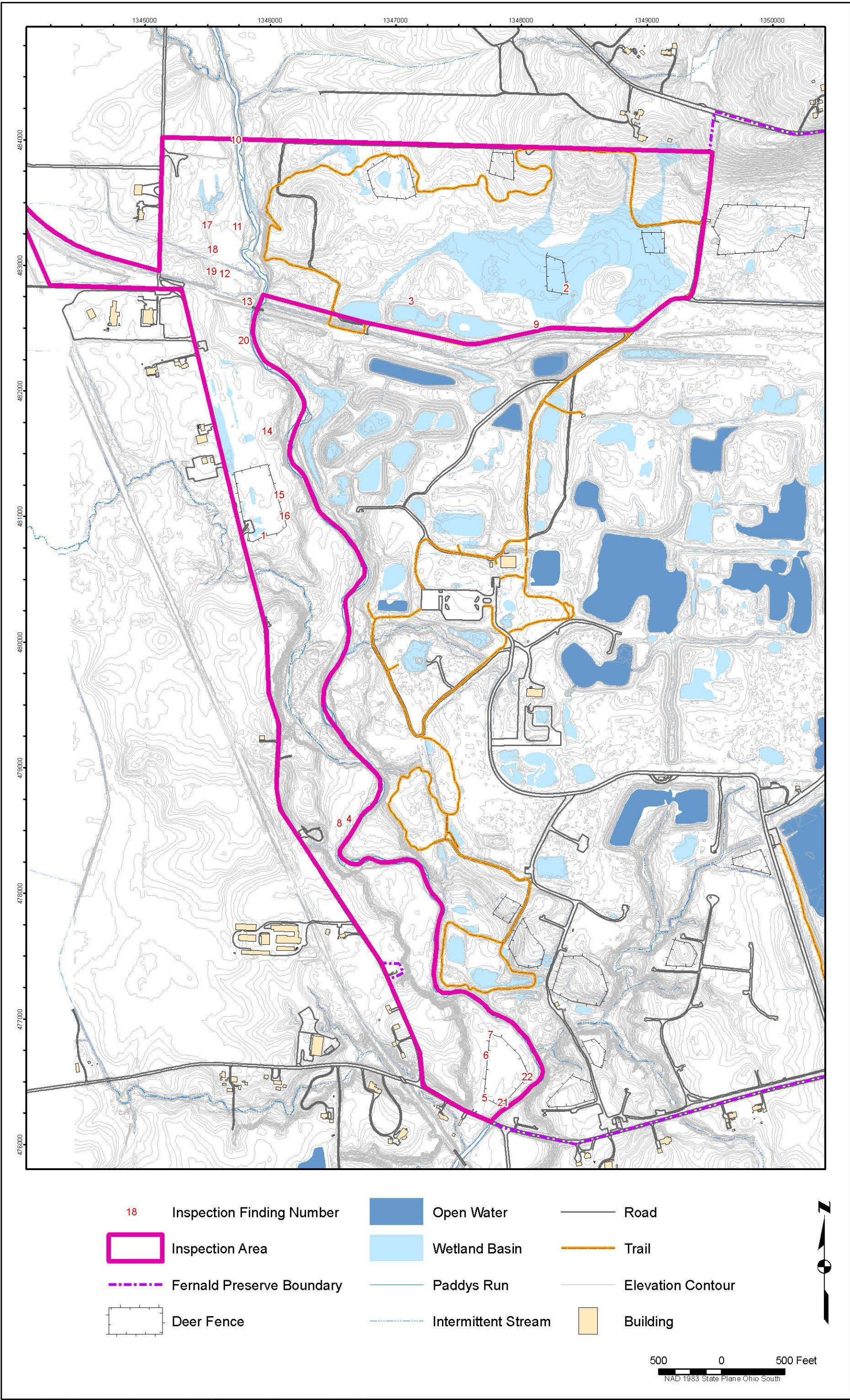
Area(s): West Quadrant - North wood lot; Paddys Run West

Inspector(s): DOE, Ohio EPA, ODH, Navarro

Map No.	Location	GPS?	Type of Finding	Description	Photo
1	South side of deer fence	Yes	Fencing	Hole in deer fence	12132018_42_01
2	East side of deer fence	No	Fencing	Japanese honeysuckle pulling fence down pole	
3	North side of former chain link deer fence	No	Fencing	Concrete from fence posts left in ground following fence removal	
4	South end of floodplain	Yes	Fencing	Old deer cages and metal posts on ground	12132018_44_01; 12132018_44_02
5	South end of deer fence	Yes	Fencing	Fence is falling	12132018_41_01
6	West side of deer fence	Yes	Fencing	Deer fence falling	12132018_41_02
7	Northwest section of deer fence	Yes	Fencing	Deer fence falling	12132018_41_03
8	South end of floodplain	Yes	Fencing	Deer cages and metal posts on ground	12132018_41_04
9	East end of former chainlink fence	Yes	Fencing	6" diameter pipe from former chain link fence left in the ground; open hole	12132018_41_05
10	North perimeter sign at Paddys Run	Yes	Signage	Sign turned	12132018_43_01
11	Floodplain	Yes	Fencing	Tree tubes need removed	12132018_43_02
12	In wooded area	Yes	Fencing	Tree tubes need removed	12132018_43_03
13	West gate of railroad trestle	Yes	Fencing	Fencing overgrown with vegetation	12132018_43_04

Map No.	Location	GPS?	Type of Finding	Description	Photo
14	Edge of woodlot	Yes	Debris	Wooden plank	12132018_43_05
15	East side of deer fence	Yes	Fencing	Deer fence is down	12132018_43_06
16	East side of deer fence	Yes	Fencing	Hole in fence	12132018_43_07
17	Just south of pond, left of mowed path	No	Fencing	Tree tube needs removed	
18	Approximately 20 feet north of drainage ditch	No	Fencing	Tree tubes need removed	
19	On south side of drainage	No	Fencing	Tree tubes need removed	
20	Inside mowed path at treeline	No	Signage	Two "Danger/Steep Grade" signs are off posts	
21	Southeast section of fence	Yes	Fencing	Tree on fence	12132018_40_01
22	Northeast section of fence	Yes	Fencing	Fence is down	12132018_40_02

Additional Notes



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Figure 1
West Quadrant Inspection Findings, December 2018



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Fernald Preserve Institutional Control Inspection

Date: 12/12/2018 Inspector: Navarro Camera: NA

Type of Finding					Follow-up				
Institutional Control	Sign	Barrier	Grounds keeping	Other	Description	Photo No.	Corrected	Maintenance Required	Continue Observation
Perimeter Gates with Locks									
					NO FINDINGS				
					NO FINDINGS				
					NO FINDINGS				
					NO FINDINGS				
Perimeter Access Barriers									
V2A		X			Spring and rope need reattached		X		
					NO FINDINGS				
					NO FINDINGS				
					NO FINDINGS				
Perimeter Signs									
S45	X				Sign is leaning and post is loose in the ground		X		
					NO FINDINGS				
					NO FINDINGS				
					NO FINDINGS				
Fenced Areas and Gates with Locks									
CAWWT					NO FINDINGS				
OSDF					NO FINDINGS				
Electric Substation					NO FINDINGS				
Water Meter House					NO FINDINGS				
Trestle					NO FINDINGS				
Interior Access Barrier									
					NO FINDINGS				
					NO FINDINGS				
					NO FINDINGS				
					NO FINDINGS				
Non-remedy Buildings and Structures									
Former Communications Building					NO FINDINGS				
Former Dissolved Oxygen Building					NO FINDINGS				



Fernald Preserve Institutional Control Inspection

Type of Finding					Follow-up				
Institutional Control	Sign	Barrier	Grounds keeping	Other	Description	Photo No.	Corrected	Maintenance Required	Continue Observation
Restoration Storage Shed					NO FINDINGS				
Uncertified Areas									
60-inch Culvert					NO FINDINGS				
18-inch Culvert					NO FINDINGS				
CAWWT					NO FINDINGS				
South Field Extraction System Valve House					NO FINDINGS				
Outfall Line					NO FINDINGS				
Other									
Roads and Parking Areas					NO FINDINGS				
Cultural Resource Areas					NO FINDINGS				
Additional Notes									

U.S. Department of Energy Office of Legacy Management

Fernald Preserve OSDF Walkdown Inspection Summary

Beginning: 12/05/2018

Ending: 12/05/2018

Area(s): OSDF cap, toe, fence line and drainage

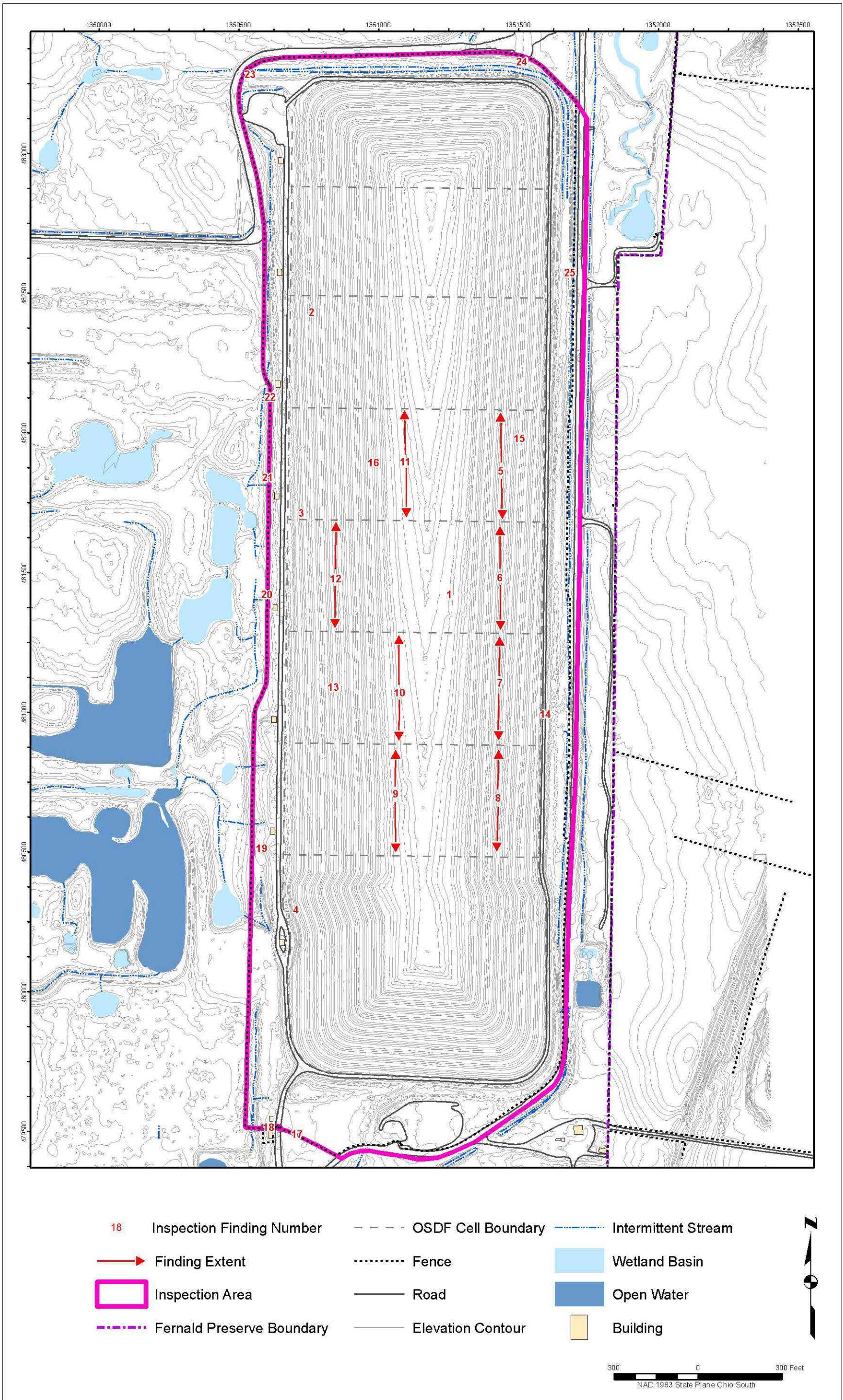
Inspector(s): Ohio EPA, ODH, Navarro

Map No.	Location	GPS?	Type of Finding	Description	Photo
1	Cell 5, east 6:1 slope, top, south end	No	Vegetation	Woody vegetation (trees and honeysuckle)	
2	Cell 3, west toe	Yes	Vegetation	Teasel and bare area	12052018_43_01
3	Cell 4, west toe	Yes	Biointrusion	Groundhog hole	12052018_43_02
4	Cell 8, west toe, edge of riprap	No	Biointrusion	Animal burrow	
5	Cell 4, east 6:1 slope	No	Vegetation	Woody vegetation (trees) across east slope	
6	Cell 5, east 6:1 slope	No	Vegetation	Woody vegetation (trees) across east slope	
7	Cell 6, east 6:1 slope	No	Vegetation	Woody vegetation (trees)	
8	Cell 7, east 6:1 slope	No	Vegetation	Woody vegetation (trees) less dense	
9	Cell 7, west 6:1 slope, top	No	Vegetation	Woody vegetation (trees)	
10	Cell 6, west 6:1 slope, top	No	Vegetation	Woody vegetation (trees) more dense	
11	Cell 4, west 6:1 slope, top	No	Vegetation	Woody vegetation (trees)	
12	Cell 5, west 6:1 slope	No	Vegetation	Woody vegetation (trees)	
13	Cell 6, west 6:1 slope	No	Vegetation	Woody vegetation (trees)	
14	Cell 6, east toe, south end	Yes	Biointrusion	Animal burrow	12052018_41_01

Map No.	Location	GPS?	Type of Finding	Description	Photo
15	Cell 4, east slope	Yes	Vegetation	Woody vegetation (pear tree)	12052018_42_01
16	Cell 4, west, near top	No	Vegetation	Woody vegetation	
17	Cell 8, east of the south entrance gate	No	Signage	Sign is down	
18	Cell 8, west of the south entrance gate	No	Signage	Sign is down	
19	Cell 7, west drainage, at fence	No	Vegetation	Woody vegetation (cedar)	
20	Cell 5, west drainage, at fence	No	Vegetation	Woody vegetation (pear)	
21	Cell 4, west drainage, at midpoint of fence (outside)	No	Debris	Concrete	
22	Cell 3, west drainage, at fence (outside)	No	Erosion	Minor erosion	
23	Cell 1, northwest corner drainage, at fence, north of gate	No	Vegetation	Woody vegetation (pear trees)	
24	Cell 1, northeast drainage, at corner of fence	No	Vegetation	Woody vegetation (pear trees)	
25	Cell 2, east drainage	No	Vegetation	Woody vegetation (cottonwood)	

Additional Notes

1) A Navarro civil engineer participated in this inspection. 2) Woody vegetation was not individually identified, except along the perimeter fence. A narrative description of woody vegetation is provided in the text of the report.



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Figure 2
OSDF Inspection Findings, December 2018

FERNALD PRESERVE

On-Site Disposal Facility Inspection Photographs

DECEMBER 2018



**U.S. DEPARTMENT OF
ENERGY**

Legacy
Management



IMGP7096

East Face Cell 1



IMGP7091

West Face Cell 1



IMGP7094

North Face Cell 1



IMGP7095

North Drainage (looking west)



IMGP7098

East Face Cell 2



IMGP7109

West Face Cell 2



IMGP7099

East Face Cell 3



IMGP7110

West Face Cell 3



IMGP7100

East Face Cell 4



IMGP7089

West Face Cell 4



IMGP7102

East Face Cell 5



IMGP7087

West Face Cell 5



IMGP7103

East Face Cell 6



IMGP7086

West Face Cell 6



IMGP7104

East Face Cell 7



IMGP7084

West Face Cell 7



IMGP7106

East Face Cell 8



IMGP7081

West Face Cell 8



IMGP7108

South Face Cell 8



IMGP7107

South Drainage (looking west)



IMGP7105

East Drainage Cell 7 (looking south)



IMGP7101

East Drainage Cell 4 (looking south)



IMGP7097

East Drainage Cell 1 (looking south)



IMGP7085

West Inner Drainage Cell 7 (looking south)



IMGP7089

West Inner Drainage Cell 4 (looking south)



IMGP7093

West Inner Drainage Cell 1 (looking south)



IMGP7092

West Outer Drainage Cell 1 (looking south)



IMGP7082

West Outer Drainage Cell 8 (looking south)



IMGP7083

West Outer Drainage Cell 8 (looking north)

FERNALD PRESERVE MAINTENANCE AND REPAIR ACTION ITEMS SUMMARY
DECEMBER 2018 UPDATE

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
1013	South side of south pines deer fence	No	Honeysuckle	6/2/2010	June 2010 quarterly field walkdown	45			Large-scale woody invasives are addressed on a prioritized schedule
1291	North pines	No	Honeysuckle along woodline	9/7/2011	September 2011 quarterly field walkdown	10			Large-scale woody invasives are addressed on a prioritized schedule
1468	Drainage area	No	Garlic mustard	6/5/2012	June 2012 quarterly field walkdown	26			
1739	East bank Paddys Run	No	Multiflora rose	6/6/2013	June 2013 quarterly field walkdown	52			
1774	Hill along State Route 126	No	Teasel and honeysuckle	9/4/2013	September 2013 quarterly field walkdown	3			Large-scale woody invasives are addressed on a prioritized schedule
1781	Hill along State Route 126	No	Honeysuckle	9/4/2013	September 2013 quarterly field walkdown	10			Large-scale woody invasives are addressed on a prioritized schedule
1788	WM1 W4 between pond and swale	No	Honeysuckle	9/4/2013	September 2013 quarterly field walkdown	17			
2232	East and north of service road, northwest of WM2	No	Pear tree	12/4/2014	December 2014 quarterly field walkdown	2			
2235	West of north/south section of Hickory Trail	No	Autumn olive	12/4/2014	December 2014 quarterly field walkdown	5			
2346	W4 swale	No	Honeysuckle	3/12/2015	March 2015 quarterly field walkdown	2			Large-scale woody invasives are addressed on a prioritized schedule
2358	Monitoring Wells 2431 and 3431	No	Water collecting around well pads; terrain needs altered to drain surface water away from wells	3/12/2015	March 2015 quarterly field walkdown	14			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
2615	Cell 3, east slope	No	Erosion/burrow	12/2/2015	December 2015 OSDF Inspection	106			
2659	At base of hill on west side	No	Old cages	12/8/2015	December 2015 quarterly field walkdown	6			
2695	Pit 3	No	Posts and wire fence need removed (tree cages)	1/28/2016	January 2016 quarterly field walkdown	25			
2712	Slope east of drainage that flows north from off site	No	Old deer cages need removed	2/23/2016	February 2016 quarterly field walkdown	12			
2735	North of the pines just east of north access road	No	Old cages	3/2/2016	March 2016 quarterly field walkdown	2			
2818	Cell 3, west toe	No	Sandy dirt pile	9/6/2016	September 2016 OSDF Inspection	17			
2871	Cell 4, west face	Yes	Rock	12/1/2016	December 2016 OSDF Inspection	1			Camera L14641
2893	Rip rap repair	No	Side blow out	1/11/2017	January 2017 quarterly field walkdown	1			
2907	30 yards north of Swan Pond	No	Old cages need removed	1/11/2017	January 2017 quarterly field walkdown	15			
2912	East bank of drainage/side drainage off top of hill	No	Cut through core matting	1/11/2017	January 2017 quarterly field walkdown	20			
2914	South bank of Swan Pond	No	Cages and t-posts	1/11/2017	January 2017 quarterly field walkdown	22			
2922	Area not identified on map	No	Large bare area	1/11/2017	January 2017 quarterly field walkdown	30			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
2923	East of small basin to the east of Swan Pond	No	Erosion	1/11/2017	January 2017 quarterly field walkdown	31			
2935	North of Angel Pond	No	Deer cage	1/11/2017	January 2017 quarterly field walkdown	43			
2939	North of pond	No	T-post	1/11/2017	January 2017 quarterly field walkdown	47			
2943	North of east/west drain	No	T-posts	1/11/2017	January 2017 quarterly field walkdown	51			
2953	East side of drain and up the hill	No	Old cages and t-posts	2/8/2017	February 2017 quarterly field walkdown	9			
2956	West of concrete wall	Yes	Exposed concrete and erosion	2/8/2017	February 2017 quarterly field walkdown	12			The concrete is from a beneficial reuse of concrete in this area; erosion repair is needed
2958	South of 'dance hall'	No	Broken survey marker	2/8/2017	February 2017 quarterly field walkdown	14			
2962	Along trail, both sides	No	Deer cages	2/8/2017	February 2017 quarterly field walkdown	18			
2963	Among the trees at the south edge of the field	No	Deer cages	2/8/2017	February 2017 quarterly field walkdown	19			
2964	Pines west of CAWWT	No	Deer cages	2/8/2017	February 2017 quarterly field walkdown	20			
2965	South of trail	No	Cages	2/8/2017	February 2017 quarterly field walkdown	21			
2966	South of south end of trail	No	Deer cages	2/8/2017	February 2017 quarterly field walkdown	22			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
2967	West of 'dance hall'	No	Deer cages	2/8/2017	February 2017 quarterly field walkdown	23			
2970	Just inside pines on east side	No	Deer cages	3/2/2017	March 2017 quarterly field walkdown	2			
2974	Edge of pond	Yes	Deer cages need to be pulled	3/2/2017	March 2017 quarterly field walkdown	6			
2977	South berm of NPPW5	Yes	Water level 1 foot lower in basin	3/2/2017	March 2017 quarterly field walkdown	9			
2988	Cell 8, middle of west slope	No	Appears animal was digging for rodents	3/29/2017	March 2017 OSDF Inspection	4	Unable to locate due to heavy vegetation	12/19/2018	This inspection was a walk-down of Cell Caps 7 and 8 following a prescribed burn on March 9, 2017
2998	Cell 7, west slope near top	Yes	Animal burrow	3/29/2017	March 2017 OSDF Inspection	14	Unable to locate due to heavy vegetation	12/19/2018	This inspection was a walk-down of Cell Caps 7 and 8 following a prescribed burn on March 9, 2017
3000	Cell 8, gravel roadway along south face	No	The gravel road is developing an erosion rill, washing gravel into south drainage	6/7/2017	June 2017 OSDF Inspection	2			
3058	Top of the hill	Yes	Survey marker is at this location; unknown why it is here	12/7/2017	December 2017 quarterly field walkdown	1			
3063	South end of flood plain along Paddys Run	Yes	Metal posts and cages at trees	12/7/2017	December 2017 quarterly field walkdown	6			
3066	West end of railroad trestle	Yes	Concrete	12/7/2017	December 2017 quarterly field walkdown	9			
3067	Bank of creek	Yes	Post on ground; signs on ground	12/7/2017	December 2017 quarterly field walkdown	10			
3068	East of deer fence	Yes	Old cages need removed	12/7/2017	December 2017 quarterly field walkdown	11			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
3069	North side of west end of W2	Yes	Deer cages need removed	12/7/2017	December 2017 quarterly field walkdown	12			
3070	Area of former deer fence	No	Deer fencing laying on ground and needs removed	12/7/2017	December 2017 quarterly field walkdown	13			This deer fence was removed; some material was left behind
3071	North end of flood plain	Yes	Metal posts at several trees need removed	12/7/2017	December 2017 quarterly field walkdown	14			
3072	Along Paddys Run Rd	Yes	Deer cages need removed	12/7/2017	December 2017 quarterly field walkdown	15			
3073	Cell 7, west slope	Yes	Animal burrow	12/14/2017	December 2017 OSDF Inspection	1	Unable to locate due to heavy vegetation	12/19/2018	
3074	Cell 5, west top	Yes	Honeysuckle	12/14/2017	December 2017 OSDF Inspection	2			
3082	North end of 60" culvert	No	Vegetation buildup; appears metal grate is detaching from concrete	12/8/2017	December 2017 point-specific institutional controls inspection	NA			Water is flowing freely
3084	West gate of former railroad trestle	No	Gate is overgrown with vegetation	12/8/2017	December 2017 point-specific institutional controls inspection	NA			
3085	Northeast of Swan pond	Yes	Wash out between ponds	1/10/2018	January 2018 quarterly field walkdown	1			
3092	In depression east of pond and west of Hickory trail	No	Large teasel patch	1/10/2018	January 2018 quarterly field walkdown	8			
3099	West of sampling road, at bottom of slope	Yes	Tree cages (need removed)	1/10/2018	January 2018 quarterly field walkdown	15			
3102	In and along edge of water at west end of Angel pond	No	Tree cages (need removed)	1/10/2018	January 2018 quarterly field walkdown	18			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
3103	East edge of basin just south of CAWWT	No	Water coming into an area, causing a 4-foot bare area and erosion	1/10/2018	January 2018 quarterly field walkdown	19			
3111	Bank over creek	No	Tree cages (need removed)	2/13/2018	February 2018 quarterly field walkdown	4			
3112	Behind "bone yard"	No	Tree cages (need removed)	2/13/2018	February 2018 quarterly field walkdown	5			
3113	East side of deer fence	Yes	Break in deer fence	2/13/2018	February 2018 quarterly field walkdown	6			
3114	East of well house	Yes	Styrofoam pieces	2/13/2018	February 2018 quarterly field walkdown	7			
3115	Road down into SSOD	No	Tree across access	2/13/2018	February 2018 quarterly field walkdown	8			
3116	Paddys Run	Yes	Concrete	2/13/2018	February 2018 quarterly field walkdown	9			Very large. Need equipment to remove.
3117	South of parking lot	No	Teasel	2/13/2018	February 2018 quarterly field walkdown	10			
3118	South of glacial erratic and Shingle Oak trail	No	Teasel	2/13/2018	February 2018 quarterly field walkdown	11			
3119	South of pines, north of Sycamore trail above SWU	No	Teasel	2/13/2018	February 2018 quarterly field walkdown	12			
3120	East bank of boardwalk pond	No	Teasel	2/13/2018	February 2018 quarterly field walkdown	13			
3123	North side of fence	Yes	Deer fence ripped and sagging	2/13/2018	February 2018 quarterly field walkdown	16			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
3124	Southeast side of deer fence	Yes	Deer fence sagging	2/13/2018	February 2018 quarterly field walkdown	17			
3125	Near well house that is northeast of electric-substation	No	Teasel	2/13/2018	February 2018 quarterly field walkdown	18			
3128	North of pond	No	Tree cages and metal posts (need removed)	3/6/2018	March 2018 quarterly field walkdown	2			
3129	Property line	No	Metal posts from old power lines	3/6/2018	March 2018 quarterly field walkdown	3			
3134	Basin 6	No	Hole	3/6/2018	March 2018 quarterly field walkdown	8			
3136	Cell 1, north drainage	Yes	Willow in cattails	3/6/2018	March 2018 OSDF Inspection	1	Herbicide applied	12/3/2018	
3139	Cell 2, east drainage	Yes	Willows in cattails	3/6/2018	March 2018 OSDF Inspection	4	Herbicide applied	12/19/2018	
3141	Cell 5, east drainage	No	Cedar and honeylocust	3/6/2018	March 2018 OSDF Inspection	6	Herbicide applied	12/3/2018	
3142	Cell 8, south fenceline	Yes	Pear tree	3/6/2018	March 2018 OSDF Inspection	7	Herbicide applied	12/19/2018	
3143	Cell 8, southwest drainage	Yes	Woody vegetation	3/6/2018	March 2018 OSDF Inspection	8	Herbicide applied	12/3/2018	
3146	Cell 1, west fence behind VH1	Yes	Cedar	3/6/2018	March 2018 OSDF Inspection	11	Woody vegetation cut	12/19/2018	
3147	Cell 4, east toe	Yes	Several cedar trees	3/6/2018	March 2018 OSDF Inspection	12	Woody vegetation cut	12/6/2018	

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
3158	Cell 1, west 6:1	Yes	Animal burrow	4/10/2018	April 2018 OSDF Inspection	10	Unable to locate	12/19/2018	
3179	Cell 2, east toe	Yes	Holes, possible soil settling	4/10/2018	April 2018 OSDF Inspection	31			
3188	Cell 3, west toe across from valve house	No	Erosion in several places at and along rip rap, 6" deep	4/10/2018	April 2018 OSDF Inspection	40			
3192	Cell 4, east drainage	Yes	Willow	6/6/2018	June 2018 OSDF Inspection	3	Woody vegetation cut and herbicide applied to cut stump	11/27/2018	
3193	Cell 3/4 boundary, east drainage	Yes	Ash tree	6/6/2018	June 2018 OSDF Inspection	4	No action required	11/28/2018	Could not locate
3195	Cell 8, outer west drainage, southwest corner	No	Trees in drainage, thistle on banks	6/6/2018	June 2018 OSDF Inspection	6	Woody vegetation cut and herbicide applied to cut stump	11/28/2018	
3197	Cell 8, south drainage, south side	No	Thistle and woody vegetation	6/6/2018	June 2018 OSDF Inspection	8	Woody vegetation cut and herbicide applied to cut stump	12/3/2018	
3198	Cell 8, south drain, southeast corner	No	Teasel	6/6/2018	June 2018 OSDF Inspection	9			
3199	Cell 8, east drainage	No	Woody vegetation	6/6/2018	June 2018 OSDF Inspection	10	Woody vegetation cut and herbicide applied to cut stump	11/27/2018	
3200	Cell 7/8 boundary, east drainage along fence	No	Woody vegetation and teasel	6/6/2018	June 2018 OSDF Inspection	11	Woody vegetation cut and herbicide applied to cut stump	11/27/2018	
3201	Cell 6, east drainage, along fence	No	Woody vegetation and teasel	6/6/2018	June 2018 OSDF Inspection	12	Woody vegetation cut and herbicide applied to cut stump	11/27/2018	
3202	Cell 4, east drainage, along fence	No	Musk thistle	6/6/2018	June 2018 OSDF Inspection	13			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
3203	Cell 2, east drainage, in cattails	No	Willow	6/6/2018	June 2018 OSDF Inspection	14	Woody vegetation cut and herbicide applied to cut stump	11/27/2018	
3204	North fence line	Yes	Couplers broken from fence	6/6/2018	June 2018 OSDF Inspection	15			
3205	Cell 1, north drain, along fence	No	Teasel and thistle	6/6/2018	June 2018 OSDF Inspection	16			
3206	Cell 1, north drainage	No	Woody vegetation	6/6/2018	June 2018 OSDF Inspection	17	Woody vegetation cut and herbicide applied to cut stump	11/27/2018	
3207	Cell 1, north drainage, northwest corner	No	Teasel	6/6/2018	June 2018 OSDF Inspection	18			
3209	Former railroad trestle	No	West gate overgrown with vegetation	6/14/2018	June 2018 point-specific institutional controls inspection	NA			
3211	Cell 1, north drainage and at toe of slope	Yes	Cottonwoods in cattails; multiflora rose at toe	9/6/2018	September 2018 OSDF Inspection	1	Woody vegetation cut and herbicide applied to cut stump	10/9/2018	
3212	Cell 1, toe of slope	Yes	Woody vegetation (cherry, honeysuckle)	9/6/2018	September 2018 OSDF Inspection	2	Woody vegetation cut and herbicide applied to cut stump	10/9/2018	
3213	Cell 3, east drainage	Yes	Woody vegetation (ash)	9/6/2018	September 2018 OSDF Inspection	3	Woody vegetation cut and herbicide applied to cut stump	10/9/2018	
3214	Cell 4, east 6:1 slope	Yes	Woody vegetation (pear, honeysuckle)	9/6/2018	September 2018 OSDF Inspection	4	Woody vegetation cut and herbicide applied to cut stump	10/9/2018	
3215	Cell 5, east drainage	Yes	Woody vegetation (ash, cottonwood)	9/6/2018	September 2018 OSDF Inspection	5	Woody vegetation cut and herbicide applied to cut stump	10/9/2018	
3216	Cell 5, east toe	Yes	Woody vegetation (pear)	9/6/2018	September 2018 OSDF Inspection	6	Woody vegetation cut and herbicide applied to cut stump	10/9/2018	

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
3217	Cell 5, east drain between drain and fence	Yes	Woody vegetation (cedar)	9/6/2018	September 2018 OSDF Inspection	7	Woody vegetation cut and herbicide applied to cut stump	10/9/2018	
3218	Cell 6, east toe	Yes	Woody vegetation (cherry, dogwood)	9/6/2018	September 2018 OSDF Inspection	8	Woody vegetation cut and herbicide applied to cut stump	10/9/2018	
3219	Cell 7, at 6/7 boundary at toe	Yes	Woody vegetation (honeysuckle, dogwood)	9/6/2018	September 2018 OSDF Inspection	9	Woody vegetation cut and herbicide applied to cut stump	10/9/2018	
3220	Cell 8, east drainage at edge of drainage	Yes	Woody vegetation (cherry, honeysuckle)	9/6/2018	September 2018 OSDF Inspection	10	Woody vegetation cut and herbicide applied to cut stump	10/9/2018	
3221	Cell 8, southeast toe	Yes	Woody vegetation (dogwood)	9/6/2018	September 2018 OSDF Inspection	11	Woody vegetation cut and herbicide applied to cut stump	10/9/2018	
3222	Cell 8, south toe	Yes	Woody vegetation (pear, honeysuckle)	9/6/2018	September 2018 OSDF Inspection	12	Woody vegetation cut and herbicide applied to cut stump	10/9/2018	
3223	Cell 8, south toe	Yes	Woody vegetation (cedar)	9/6/2018	September 2018 OSDF Inspection	13	Woody vegetation cut and herbicide applied to cut stump	10/9/2018	
3224	Cell 8, south drainage (100 feet from road)	Yes	Woody vegetation (honeysuckle)	9/6/2018	September 2018 OSDF Inspection	14	Woody vegetation cut and herbicide applied to cut stump	10/9/2018	
3225	Cell 8, southwest toe	Yes	Woody vegetation (honeysuckle, pear)	9/6/2018	September 2018 OSDF Inspection	15	Woody vegetation cut and herbicide applied to cut stump	10/10/2018	
3226	Cell 7, west inner drainage	Yes	Woody vegetation (honeysuckle)	9/6/2018	September 2018 OSDF Inspection	16	Woody vegetation cut and herbicide applied to cut stump	10/10/2018	
3227	Cell 6, west inner drainage	Yes	Woody vegetation (honeysuckle)	9/6/2018	September 2018 OSDF Inspection	17	Woody vegetation cut and herbicide applied to cut stump	10/10/2018	
3228	Cell 5, west inner drainage	Yes	Woody vegetation (honeysuckle)	9/6/2018	September 2018 OSDF Inspection	18	Woody vegetation cut and herbicide applied to cut stump	10/10/2018	

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
3229	Cell 4, west inner drainage	Yes	Woody vegetation (honeysuckle)	9/6/2018	September 2018 OSDF Inspection	19	Woody vegetation cut and herbicide applied to cut stump	10/10/2018	
3230	Cell 4, west inner drainage	Yes	Woody vegetation (dogwood)	9/6/2018	September 2018 OSDF Inspection	20	Woody vegetation cut and herbicide applied to cut stump	10/10/2018	
3231	Cell 3, west inner drainage, next to wells	Yes	Woody vegetation (honeysuckle)	9/6/2018	September 2018 OSDF Inspection	21	Woody vegetation cut and herbicide applied to cut stump	10/10/2018	
3232	Cell 2, west inner drainage	Yes	Woody vegetation (dogwood)	9/6/2018	September 2018 OSDF Inspection	22	Woody vegetation cut and herbicide applied to cut stump	10/10/2018	
3233	Cell 2, west inner drainage	Yes	Woody vegetation (dogwood)	9/6/2018	September 2018 OSDF Inspection	23	Woody vegetation cut and herbicide applied to cut stump	10/10/2018	
3234	Cell 2, at Cell 2/3 boundary	Yes	Burrow under fence	9/6/2018	September 2018 OSDF Inspection	24	Continue to monitor location	12/19/2018	Fence is not compromised
3235	Cell 4, north end, east drain	Yes	Woody vegetation (honeysuckle, willow)	9/6/2018	September 2018 OSDF Inspection	25	Woody vegetation cut and herbicide applied to cut stump	10/9/2018	
3236	Cell 6, north end, east drainage	Yes	Woody vegetation (mulberry, dogwood)	9/6/2018	September 2018 OSDF Inspection	26	Woody vegetation cut and herbicide applied to cut stump	10/9/2018	
3237	Cell 6, at Cell 6/7 boundary, east drainage	Yes	Woody vegetation (pear, honeysuckle)	9/6/2018	September 2018 OSDF Inspection	27	Woody vegetation cut and herbicide applied to cut stump	10/9/2018	
3238	Cell 6, east 6:1, south end	No	Woody vegetation (honeysuckle)	9/6/2018	September 2018 OSDF Inspection	28	Woody vegetation cut and herbicide applied to cut stump	10/9/2018	
3239	Cell 8, east toe, north end	No	Woody vegetation (pear)	9/6/2018	September 2018 OSDF Inspection	29	Woody vegetation cut and herbicide applied to cut stump	10/9/2018	
3240	Cell 5, east 6:1 slope, top, south end	No	Woody vegetation (trees and honeysuckle)	12/5/2018	December 2018 OSDF Inspection	1			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
3241	Cell 3, west toe	Yes	Teasel and bare area	12/5/2018	December 2018 OSDF Inspection	2			
3242	Cell 4, west toe	Yes	Groundhog hole	12/5/2018	December 2018 OSDF Inspection	3	Collapsed and filled in hole with dirt	12/6/2018	
3243	Cell 8, west toe, edge of riprap	No	Animal burrow	12/5/2018	December 2018 OSDF Inspection	4	Collapsed hole and filled in with dirt	12/6/2018	
3244	Cell 4, east 6:1 slope	No	Woody vegetation (trees) across east slope	12/5/2018	December 2018 OSDF Inspection	5			
3245	Cell 5, east 6:1 slope	No	Woody vegetation (trees) across east slope	12/5/2018	December 2018 OSDF Inspection	6			
3246	Cell 6, east 6:1 slope	No	Woody vegetation (trees)	12/5/2018	December 2018 OSDF Inspection	7			
3247	Cell 7, east 6:1 slope	No	Woody vegetation (trees) less dense	12/5/2018	December 2018 OSDF Inspection	8			
3248	Cell 7, west 6:1 slope, top	No	Woody vegetation (trees)	12/5/2018	December 2018 OSDF Inspection	9			
3249	Cell 6, west 6:1 slope, top	No	Woody vegetation (trees) more dense	12/5/2018	December 2018 OSDF Inspection	10			
3250	Cell 4, west 6:1 slope, top	No	Woody vegetation (trees)	12/5/2018	December 2018 OSDF Inspection	11			
3251	Cell 5, west 6:1 slope	No	Woody vegetation (trees)	12/5/2018	December 2018 OSDF Inspection	12			
3252	Cell 6, west 6:1 slope	No	Woody vegetation (trees)	12/5/2018	December 2018 OSDF Inspection	13			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
3253	Cell 6, east toe, south end	Yes	Animal burrow	12/5/2018	December 2018 OSDF Inspection	14	Filled in hole with rocks	12/13/2018	
3254	Cell 4, east slope	Yes	Woody vegetation (pear tree)	12/5/2018	December 2018 OSDF Inspection	15			
3255	Cell 4, west, near top	No	Woody vegetation	12/5/2018	December 2018 OSDF Inspection	16			
3256	Cell 8, east of the south entrance gate	No	Sign is down	12/5/2018	December 2018 OSDF Inspection	17	Replaced sign	12/6/2018	
3257	Cell 8, west of the south entrance gate	No	Sign is down	12/5/2018	December 2018 OSDF Inspection	18	Replaced sign	12/6/2018	
3258	Cell 7, west drainage, at fence	No	Woody vegetation (cedar)	12/5/2018	December 2018 OSDF Inspection	19			
3259	Cell 5, west drainage, at fence	No	Woody vegetation (pear)	12/5/2018	December 2018 OSDF Inspection	20			
3260	Cell 4, west drainage, at midpoint of fence (outside)	No	Concrete	12/5/2018	December 2018 OSDF Inspection	21			
3261	Cell 3, west drainage, at fence (outside)	No	Minor erosion	12/5/2018	December 2018 OSDF Inspection	22			
3262	Cell 1, northwest corner drainage, at fence, north of gate	No	Woody vegetation (pear trees)	12/5/2018	December 2018 OSDF Inspection	23			
3263	Cell 1, northeast drainage, at corner of fence	No	Woody vegetation (pear trees)	12/5/2018	December 2018 OSDF Inspection	24			
3264	South side of deer fence	Yes	Hole in deer fence	12/12/2018	December 2018 quarterly field walkdown	1			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
3265	East side of deer fence	No	Japanese honeysuckle pulling fence down pole	12/12/2018	December 2018 quarterly field walkdown	2			
3266	North side of former chain link deer fence	No	Concrete from fence posts left in ground following fence removal	12/12/2018	December 2018 quarterly field walkdown	3			This concrete is not considered debris
3267	South end of floodplain	Yes	Old deer cages and metal posts on ground	12/12/2018	December 2018 quarterly field walkdown	4			
3268	South end of deer fence	Yes	Fence is falling	12/12/2018	December 2018 quarterly field walkdown	5			
3269	West side of deer fence	Yes	Deer fence falling	12/12/2018	December 2018 quarterly field walkdown	6			
3270	Northwest section of deer fence	Yes	Deer fence falling	12/12/2018	December 2018 quarterly field walkdown	7			
3271	South end of floodplain	Yes	Deer cages and metal posts on ground	12/12/2018	December 2018 quarterly field walkdown	8			
3272	East end of former chainlink fence	Yes	6" diameter pipe from former chain link fence left in the ground; open hole	12/12/2018	December 2018 quarterly field walkdown	9			
3273	North perimeter sign at Paddys Run	Yes	Sign turned	12/12/2018	December 2018 quarterly field walkdown	10	Sign turned to face off property	12/18/2018	
3274	Floodplain	Yes	Tree tubes need removed	12/12/2018	December 2018 quarterly field walkdown	11	Removed tree tubes	12/13/2018	
3275	In wooded area	Yes	Tree tubes need removed	12/12/2018	December 2018 quarterly field walkdown	12			
3276	West gate of railroad trestle	Yes	Fencing overgrown with vegetation	12/12/2018	December 2018 quarterly field walkdown	13	Vegetation removed from fencing	12/20/2018	

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
3277	Edge of woodlot	Yes	Wooden plank	12/12/2018	December 2018 quarterly field walkdown	14			
3278	East side of deer fence	Yes	Deer fence is down	12/12/2018	December 2018 quarterly field walkdown	15			
3279	East side of deer fence	Yes	Hole in fence	12/12/2018	December 2018 quarterly field walkdown	16			
3280	Just south of pond, left of mowed path	No	Tree tube needs removed	12/12/2018	December 2018 quarterly field walkdown	17	Removed tree tubes	12/13/2018	
3281	Approximately 20 feet north of drainage ditch	No	Tree tubes need removed	12/12/2018	December 2018 quarterly field walkdown	18	Removed tree tubes	12/13/2018	
3282	On south side of drainage	No	Tree tubes need removed	12/12/2018	December 2018 quarterly field walkdown	19	Removed tree tubes	12/13/2018	
3283	Inside mowed path at treeline	No	Two "Danger/Steep Grade" signs are off posts	12/12/2018	December 2018 quarterly field walkdown	20	Signs reattached to posts	12/18/2018	
3284	Southeast section of fence	Yes	Tree on fence	12/12/2018	December 2018 quarterly field walkdown	21			
3285	Northeast section of fence	Yes	Fence is down	12/12/2018	December 2018 quarterly field walkdown	22			
3286	North fenceline on Hickory Trail	No	Perimeter sign S45 is leaning and loose	12/12/2018	December 2018 point-specific institutional controls inspection	NA	Sign post straightened and secured	12/18/2018	
3287	Perimeter access at electrical substation	No	Access V2A rope detached from spring	12/12/2018	December 2018 point-specific institutional controls inspection	NA	Repaired attachment	12/18/2018	
3288	Cell 2, east drainage	No	Woody vegetation (cottonwood)	12/5/2018	December 2018 OSDF Inspection	25	Herbicide applied	12/19/2018	