

# Iowa Department of Natural Resources

## Sanitary Disposal Project New Cell Inspection Checklist

Permit Number - <b>65-SDP-01-72P</b>	Inspection Date - <b>10/29/19</b>
Facility Name - <b>Loess Hills Landfill</b>	Weather Conditions - <b>Sunny - 30°F N wind 5-10 mph</b>
Landfill Contact Person - <b>Herb Handel</b>	Cell/Phase Reference Number - <b>E,F,G</b>

	Yes	No	N/A	Central Office Notes (Include electronic versions of pertinent plan sheets)	Field Office Notes
1. Approved Plans and Specifications for the New Cell Plan Available For Review?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pertinent plan sheets must be reviewed and used during the inspection to perform spot checks on cell construction.	
2. Cell Components					
a. Groundwater Underdrain System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not required at all sites. Describe general construction of system - i.e. parallel trench or underdrain blanket type of system. May need to refer to plans as this system may not be visible.	<b>underdrain blanket</b>
1) Constructed in apparent accordance with plans?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Inspect outfall and check for flowing water, at a minimum. Describe any noted deviations from the plans and any new problems identified during this inspection related to this issue.	
b. Liner System				Describe system	
1) Compacted Clay and Flexible Membrane Liner (FML)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	May need to refer to plans as this system may not be visible. For clay component, if possible, measure thickness and inspect surface for evidence of compaction at the liner edge. For FML component, if possible, inspect the surface or edge of the liner at a seam/weld. A geotextile cushion must be placed on top of the FML.	<b>3+8" lifts .5' accretion density testing</b>
2) Compacted Clay or Other Liner Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	May need to refer to plans as this system may not be visible. If possible, measure thickness and inspect surface for evidence of compaction at the liner edge.	

3) Constructed in apparent accordance with plans?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Describe any noted deviations from the plans and any new problems identified during this inspection related to this issue. Basal liner and sideslope (abutment) liner may be constructed differently.	
c. Leachate Collection System				May need to refer to plans as this system may not be visible. Confirm that collection piping to the leachate lagoon, pipe cleanouts, and leachate head piezometers were installed.	2 new cleanouts on west side
1) Piping	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Inspect and measure thickness and describe if it is a "granular" layer, such as sand or tire chips, and/or if it is a geonet (i.e. triplanar geonet sandwiched with geotextile).	sand & geo textile added extra layer of fabric on top of liner near drain
2) Drainage Layer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3) Constructed in apparent accordance with plans?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Describe any noted deviations from the plans and any new problems identified during this inspection related to this issue.	
d. Leachate Storage					
1) Constructed in apparent accordance with plans?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Describe any noted deviations from the plans and any new problems identified during this inspection related to this issue.	Tied into existing system
3. Surface Water Run-On Control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is storm water effectively prevented from entering the disposal cell or is sedimentation occurring?	diversion berms/terraces
1) Constructed in apparent accordance with plans?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Describe any noted deviations from the plans and any new problems identified during this inspection related to this issue.	
4. Surface Water Run-Off Control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	All storm water that comes into contact with waste must be directed to the leachate collection system.	
1) Constructed in apparent accordance with plans?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Describe any noted deviations from the plans and any new problems identified during this inspection related to this issue.	