Appendix C: Landfill Inspection Forms – Fourth Quarter CY 2015

C.1 Original Landfill

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

INSPECTOR: Ryan Uzdienski DATE: 10/21/15 TIME: 12:47 REVIEWED BY: Jay Smith

TEMPERATURE: 44°F WEATHER CONDITIONS: Cloudy, light rain REVIEW DATE: 10/26/15

SUBSIDENCE / CONSOLIDATION

REGION	EVIDENCE OF CRACKS?	EVIDENCE OF DEPRESSIONS?	EVIDENCE OF SINK HOLES?	EVIDENCE OF PONDING?	OTHER (DESCRIBE BELOW)
COVER – WEST	☐ Yes ☒ No	☒ Yes ☐ No	☐ Yes ☒ No	☐ Yes ☒ No	
COVER – EAST	☐ Yes ☒ No	☒ Yes ☐ No	☐ Yes ☒ No	☐ Yes ☒ No	
BUTTRESS FILL	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
DIVERSION BERM 1	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
DIVERSION BERM 2	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
DIVERSION BERM 3	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
DIVERSION BERM 4	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
DIVERSION BERM 5	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
DIVERSION BERM 6	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
DIVERSION BERM 7	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	

Settlement Plates – Inspect integrity. Intact? ☒ Yes ☐ No

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

Minor depressions and up lift above berm 3 on the west side. No signs that it is continuing to move. Very small depression just above berm 6. These are existing observations previously reported, that continue to show no further signs of movement.

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

SLOPE STABILITY

REGION	EVIDENCE OF CRACKS?	EVIDENCE OF SEEPS?	EVIDENCE OF BLOCK OR CIRCULAR FAILURE?	OTHER (DESCRIBE BELOW
COVER – WEST	☐ Yes ☒ No	☒ Yes ☐ No	☐ Yes ☒ No	
COVER – EAST	☐ Yes ☒ No	☒ Yes ☐ No	☐ Yes ☒ No	
BUTTRESS FILL SIDESLOPE	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
WEST PERIMETER CHANNEL SIDESLOPES	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
EAST PERIMETER CHANNEL SIDESLOPES	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
COVER SEEPS (IF PRESENT)	☐ Yes ☒ No	☒ Yes ☐ No	☐ Yes ☒ No	

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

One seep is ~30ft west of the EPC. Not in the EPC but close proximity. This is an existing seep but after the recent construction the flow has increased ~1 to 2 gpm

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

SOIL COVER

REGION	EVIDENCE OF SOIL DEPOSITION OR EROSION?	EVIDENCE OF EROSION RILLS/GULLIES?	EVIDENCE OF BURROWING ANIMALS?	OTHER (DESCRIBE BELOW)
COVER – WEST	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	Saturated
COVER – EAST	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	↓
BUTTRESS FILL	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	↓
BUTTRESS FILL SIDESLOPE	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	↓

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

Had 0.82 in of rain within 10 hours prior to inspection. All of the cLF was saturated.

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

VEGETATION

No longer needed Success Criteria met.

REGION	CONDITION OF GRASS	UNWANTED VEGETATION PRESENT*?	PERCENTAGE OF GRASS VERSUS BARE GROUND?	PERCENTAGE OF UNWANTED VEGETATION?
COVER- WEST		☐ Yes ☐ No		
COVER - EAST		☐ Yes ☐ No		
DIVERSION BERM 1		☐ Yes ☐ No		
DIVERSION BERM 2		☐ Yes ☐ No		
DIVERSION BERM 3		☐ Yes ☐ No		
DIVERSION BERM 4		☐ Yes ☐ No		
DIVERSION BERM 5		☐ Yes ☐ No		
DIVERSION BERM 6		☐ Yes ☐ No		
DIVERSION BERM 7		☐ Yes ☐ No		
WEST PERIMETER CHANNEL		☐ Yes ☐ No		
EAST PERIMETER CHANNEL		☐ Yes ☐ No		
UPPER BUTTERESS FILL SIDESLOPE		☐ Yes ☐ No		
LOWER BUTTRESS FILL SIDESLOPE		☐ Yes ☐ No		

PW 10/21/15

* Unwanted vegetation includes weeds and "woody vegetation." Woody vegetation within the OLF waste footprint shall be removed. Other locations shall be evaluated per Section 3.5.

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

Areas that were regraded in recent construction are being monitored for vegetation growth. At the time of inspection 3% of the total affected area had vegetation with no unwanted vegetation. Working with the Rocky Flats ecologist for monitoring and maintence of this area.

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

STORMWATER MANAGEMENT STRUCTURES

CHANNELS

STRUCTURE	EVIDENCE OF EXCESSIVE EROSION, GULLYING, SCOUR, OR UNDERMINING?	EVIDENCE OF SETTLEMENT/ SUBSIDENCE OR DEPRESSIONS?	EVIDENCE OF BREACHING OR BANK FAILURE?	EVIDENCE OF BURROWING ANIMALS?	EVIDENCE OF SEDIMENT BUILD-UP OR OTHER BLOCKAGE?
DIVERSION BERM 1	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 2	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 3	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 4	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 5	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 6	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 7	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
TEMPORARY CHECK DAMS*	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
WEST PERIMETER CHANNEL	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
EAST PERIMETER CHANNEL	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No

* Check dams may be removed after vegetation is established.

OTHER DEFICIENCIES?

N/A

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

N/A

STORMWATER MANAGEMENT STRUCTURES (CONTINUED)

OUTFALLS

CHECK EACH STRUCTURE FOR EXCESSIVE EROSION AND SEDIMENT DEPTH. IF SEDIMENT DEPTH IS COMPROMISING THE DESIGN CHARACTERISTICS, REMOVE SEDIMENT.

STRUCTURE	CONDITION / SEDIMENT DEPTH
DIVERSION BERM OUTFALL 1	No issue
DIVERSION BERM OUTFALL 2	
DIVERSION BERM OUTFALL 3	
DIVERSION BERM OUTFALL 4	
DIVERSION BERM OUTFALL 5	
DIVERSION BERM OUTFALL 6	
DIVERSION BERM OUTFALL 7	
WEST PERIMETER CHANNEL OUTFALL	
EAST PERIMETER CHANNEL OUTFALL	
FRENCH DRAIN OUTFALL (SID)	

OTHER DEFICIENCIES?

N/A

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

N/A

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

"RUN-ON" CONTROL

AREA	ADVERSELY AFFECTING OLF?		
NORTH OF THE ORIGINAL LANDFILL	☐ Yes	☒ No	COMMENT:
WEST OF THE WEST PERIMETER CHANNEL	☐ Yes	☒ No	COMMENT:
EAST OF THE EAST PERIMETER CHANNEL	☐ Yes	☒ No	COMMENT:
NORTH OF WOMAN CREEK	☐ Yes	☒ No	COMMENT:

MAINTENANCE REQUIRED

N/A

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

INSTITUTIONAL CONTROLS

ITEM			
EVIDENCE OF EXCAVATION(S) OF COVER AND IMMEDIATE VICINITY OF COVER?	☐ Yes	☒ No	COMMENT:
EVIDENCE OF CONSTRUCTION OF ROADS, TRAILS, OR BUILDINGS ON COVER?	☐ Yes	☒ No	COMMENT:
EVIDENCE OF DRILLING OF WELLS OR USE OF GROUNDWATER?	☐ Yes	☒ No	COMMENT:
DAMAGE OR REMOVAL OF ANY SIGNAGE OR GROUNDWATER MONITORING WELLS?	☐ Yes	☒ No	COMMENT:

OTHER DEFICIENCIES / PHOTO LOG

N/A

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

ACTION ITEMS

DEFICIENCY	DATE NOTED	ACTION	DATE COMPLETED	COMMENTS
Cracking, Slumping	3/12/2015	OLF interim and	9/22/2015	OLF is in good condition
Uplift, depressions	4/20/2015	grading repairs		all repairs were successful.
	5/20/2015			Erosion Controls placed
	6/22/2015			over all disturbed areas.
	7/22/2015			
	8/17/2015			

INSPECTOR SIGNATURE: _____ DATE: 10/21/15

REVIEWER SIGNATURE: Amy Squill DATE: 10/20/15

Attachment 1: October 2015
Monthly Report of the Original Landfill Inspections at the Rocky Flats Site

The monthly inspection of the Original Landfill (OLF) at the Rocky Flats, Colorado, Site was completed on October 21, 2015. At the time of inspection, the weather was cloudy and rainy. The site received 1.72 inches of precipitation during the month of October. By the end of the business day on October 21, 2015, the site had received over an inch of rain, and a weather-related inspection was completed on October 22, 2015.

All repairs completed during the recent construction project were in good condition with no signs of cracking or movement on either the east or west sides (Figures 1– 3). The Rocky Flats site ecologist inspected the newly disturbed areas. This includes maintaining erosion controls, monitoring vegetation growth, and reseeding if necessary. New vegetative growth was observed on 3 percent of the area in the recent construction area.

The entire OLF was saturated at the time of inspection. Seeps were flowing at 2–5 gallons per minute. The seeps on the east side showed higher flow rates than those on the west side. The berm 7 channel was catching the majority of the surface water because of the close proximity to two large seeps (Figures 4 and 5). The drain pipe installed on the east end of berm 7 was successfully catching the influx of water and diverting it to the bottom of the East Perimeter Channel (EPC).

Figure 1: Rocky Flats site OLF. Looking at the top of the EPC and berm 4.

Figure 2: Rocky Flats site OLF. Looking north at berm 1.

Figure 3: Rocky Flats site OLF. Looking northwest following berm 6.

Figure 4: Rocky Flats site OLF. Looking west following berm 7. Large seep is in the top of the photo contributing to the water in the channel.

Figure 5: Rocky Flats site OLF. Seep just above berm 7 adding to the flow shown in Figure 4.

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

Weather Related 1.1 inches of rain

INSPECTOR: Ryan Uzdienski DATE: 10/22/15 TIME: 10:40 REVIEWED BY: Linda L. Kaur

TEMPERATURE: 40°F WEATHER CONDITIONS: Cloudy, Rainy REVIEW DATE: 11/18/15

SUBSIDENCE / CONSOLIDATION

REGION	EVIDENCE OF CRACKS?	EVIDENCE OF DEPRESSIONS?	EVIDENCE OF SINK HOLES?	EVIDENCE OF PONDING?	OTHER (DESCRIBE BELOW)
COVER – WEST	☐ Yes ☒ No	☒ Yes ☐ No	☐ Yes ☒ No	☐ Yes ☒ No	
COVER – EAST	☐ Yes ☒ No	☒ Yes ☐ No	☐ Yes ☒ No	☐ Yes ☒ No	
BUTTRESS FILL	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
DIVERSION BERM 1	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
DIVERSION BERM 2	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
DIVERSION BERM 3	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
DIVERSION BERM 4	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
DIVERSION BERM 5	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
DIVERSION BERM 6	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
DIVERSION BERM 7	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	

Settlement Plates – Inspect integrity. Intact? ☒ Yes ☐ No

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

N/A

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

SLOPE STABILITY

REGION	EVIDENCE OF CRACKS?	EVIDENCE OF SEEPS?	EVIDENCE OF BLOCK OR CIRCULAR FAILURE?	OTHER (DESCRIBE BELOW
COVER – WEST	☐ Yes ☒ No	☒ Yes ☐ No	☐ Yes ☒ No	
COVER – EAST	☐ Yes ☒ No	☒ Yes ☐ No	☐ Yes ☒ No	
BUTTRESS FILL SIDESLOPE	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
WEST PERIMETER CHANNEL SIDESLOPES	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
EAST PERIMETER CHANNEL SIDESLOPES	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
COVER SEEPS (IF PRESENT)	☐ Yes ☒ No	☒ Yes ☐ No	☐ Yes ☒ No	

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

N/A

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

SOIL COVER

REGION	EVIDENCE OF SOIL DEPOSITION OR EROSION?	EVIDENCE OF EROSION RILLS/GULLIES?	EVIDENCE OF BURROWING ANIMALS?	OTHER (DESCRIBE BELOW)
COVER – WEST	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
COVER – EAST	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
BUTTRESS FILL	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
BUTTRESS FILL SIDESLOPE	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

N/A

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

VEGETATION

No longer needed success criteria met

REGION	CONDITION OF GRASS	UNWANTED VEGETATION PRESENT*?	PERCENTAGE OF GRASS VERSUS BARE GROUND?	PERCENTAGE OF UNWANTED VEGETATION?
COVER- WEST		☐ Yes ☐ No		
COVER - EAST		☐ Yes ☐ No		
DIVERSION BERM 1		☐ Yes ☐ No		
DIVERSION BERM 2		☐ Yes ☐ No		
DIVERSION BERM 3		☐ Yes ☐ No	RU	
DIVERSION BERM 4		☐ Yes ☐ No		
DIVERSION BERM 5		☐ Yes ☐ No		
DIVERSION BERM 6		☐ Yes ☐ No		
DIVERSION BERM 7		☐ Yes ☐ No		
WEST PERIMETER CHANNEL		☐ Yes ☐ No		
EAST PERIMETER CHANNEL		☐ Yes ☐ No		
UPPER BUTTERESS FILL SIDESLOPE		☐ Yes ☐ No		
LOWER BUTTRESS FILL SIDESLOPE		☐ Yes ☐ No		

* Unwanted vegetation includes weeds and "woody vegetation." Woody vegetation within the OLF waste footprint shall be removed. Other locations shall be evaluated per Section 3.5.

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

disturbed areas from recent construction on the east and west sides are still bare with 30% of the total area has vegetation coming up through the erosion controls.

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

STORMWATER MANAGEMENT STRUCTURES

CHANNELS

STRUCTURE	EVIDENCE OF EXCESSIVE EROSION, GULLYING, SCOUR, OR UNDERMINING?	EVIDENCE OF SETTLEMENT/ SUBSIDENCE OR DEPRESSIONS?	EVIDENCE OF BREACHING OR BANK FAILURE?	EVIDENCE OF BURROWING ANIMALS?	EVIDENCE OF SEDIMENT BUILD-UP OR OTHER BLOCKAGE?
DIVERSION BERM 1	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 2	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 3	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 4	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 5	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 6	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 7	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
TEMPORARY CHECK DAMS*	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
WEST PERIMETER CHANNEL	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
EAST PERIMETER CHANNEL	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No

* Check dams may be removed after vegetation is established.

OTHER DEFICIENCIES?

N/A

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

N/A

STORMWATER MANAGEMENT STRUCTURES (CONTINUED)

OUTFALLS

CHECK EACH STRUCTURE FOR EXCESSIVE EROSION AND SEDIMENT DEPTH. IF SEDIMENT DEPTH IS COMPROMISING THE DESIGN CHARACTERISTICS, REMOVE SEDIMENT.

STRUCTURE	CONDITION / SEDIMENT DEPTH
DIVERSION BERM OUTFALL 1	No issue
DIVERSION BERM OUTFALL 2	
DIVERSION BERM OUTFALL 3	
DIVERSION BERM OUTFALL 4	
DIVERSION BERM OUTFALL 5	
DIVERSION BERM OUTFALL 6	
DIVERSION BERM OUTFALL 7	
WEST PERIMETER CHANNEL OUTFALL	
EAST PERIMETER CHANNEL OUTFALL	
FRENCH DRAIN OUTFALL (SID)	

OTHER DEFICIENCIES?

N/A

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

N/A

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

"RUN-ON" CONTROL

AREA	ADVERSELY AFFECTING OLF?		
NORTH OF THE ORIGINAL LANDFILL	☐ Yes	☒ No	COMMENT:
WEST OF THE WEST PERIMETER CHANNEL	☐ Yes	☒ No	COMMENT:
EAST OF THE EAST PERIMETER CHANNEL	☐ Yes	☒ No	COMMENT:
NORTH OF WOMAN CREEK	☐ Yes	☒ No	COMMENT:

MAINTENANCE REQUIRED

N/A

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

INSTITUTIONAL CONTROLS

ITEM			
EVIDENCE OF EXCAVATION(S) OF COVER AND IMMEDIATE VICINITY OF COVER?	☐ Yes	☒ No	COMMENT:
EVIDENCE OF CONSTRUCTION OF ROADS, TRAILS, OR BUILDINGS ON COVER?	☐ Yes	☒ No	COMMENT:
EVIDENCE OF DRILLING OF WELLS OR USE OF GROUNDWATER?	☐ Yes	☒ No	COMMENT:
DAMAGE OR REMOVAL OF ANY SIGNAGE OR GROUNDWATER MONITORING WELLS?	☐ Yes	☒ No	COMMENT:

OTHER DEFICIENCIES / PHOTO LOG

N/A

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

ACTION ITEMS

DEFICIENCY	DATE NOTED	ACTION	DATE COMPLETED	COMMENTS
None	10/22/15			

INSPECTOR SIGNATURE: Ryan Hydinn DATE: 10/22/15

REVIEWER SIGNATURE: Linda L. Kavin DATE: 11/18/15

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

INSPECTOR: Ryan Uzdienski DATE: 11/24/2015 TIME: 0900 REVIEWED BY: Gregg Squill

TEMPERATURE: 54°F WEATHER CONDITIONS: Sunny, few clouds, windy REVIEW DATE: 12-1-15

SUBSIDENCE / CONSOLIDATION

REGION	EVIDENCE OF CRACKS?	EVIDENCE OF DEPRESSIONS?	EVIDENCE OF SINK HOLES?	EVIDENCE OF PONDING?	OTHER (DESCRIBE BELOW)
COVER – WEST	☐ Yes ☒ No	☒ Yes ☐ No	☐ Yes ☒ No	☐ Yes ☒ No	
COVER – EAST	☐ Yes ☒ No	☒ Yes ☐ No	☐ Yes ☒ No	☐ Yes ☒ No	
BUTTRESS FILL	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
DIVERSION BERM 1	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
DIVERSION BERM 2	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
DIVERSION BERM 3	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
DIVERSION BERM 4	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
DIVERSION BERM 5	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
DIVERSION BERM 6	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
DIVERSION BERM 7	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	

Settlement Plates – Inspect integrity. Intact? ☒ Yes ☐ No

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

Previously observed minor uplift and depressions above berm 3 on the west end. No new movement or cracking. In addition, the small depression just above berm 6 on the east end. No new movement. Both observations have been previously reported.

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

SLOPE STABILITY

REGION	EVIDENCE OF CRACKS?	EVIDENCE OF SEEPS?	EVIDENCE OF BLOCK OR CIRCULAR FAILURE?	OTHER (DESCRIBE BELOW
COVER – WEST	☐ Yes ☒ No	☒ Yes ☐ No	☐ Yes ☒ No	
COVER – EAST	☐ Yes ☒ No	☒ Yes ☐ No	☐ Yes ☒ No	
BUTTRESS FILL SIDESLOPE	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
WEST PERIMETER CHANNEL SIDESLOPES	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
EAST PERIMETER CHANNEL SIDESLOPES	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
COVER SEEPS (IF PRESENT)	☐ Yes ☒ No	☒ Yes ☐ No	☐ Yes ☒ No	

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

All seeps are still saturated but flows have slowed down to 0.25 gpm to 1 gpm. The largest flow was observed at the seep on the east side close to the EPC.

SOIL COVER

REGION	EVIDENCE OF SOIL DEPOSITION OR EROSION?	EVIDENCE OF EROSION RILLS/GULLIES?	EVIDENCE OF BURROWING ANIMALS?	OTHER (DESCRIBE BELOW)
COVER – WEST	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
COVER – EAST	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
BUTTRESS FILL	☐ Yes ☒ No	☐ Yes ☒ No	☒ Yes ☐ No	
BUTTRESS FILL SIDESLOPE	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

One small burrow hole was discovered on the central portion of the buttress. No signs of any activity at the burrow. Not adversely affecting the integrity of the landfill.

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

VEGETATION

No longer needed Success Criteria Met.

REGION	CONDITION OF GRASS	UNWANTED VEGETATION PRESENT*?	PERCENTAGE OF GRASS VERSUS BARE GROUND?	PERCENTAGE OF UNWANTED VEGETATION?
COVER- WEST		☐ Yes ☐ No		
COVER - EAST		☐ Yes ☐ No		
DIVERSION BERM 1		☐ Yes ☐ No		
DIVERSION BERM 2		☐ Yes ☐ No		
DIVERSION BERM 3		☐ Yes ☐ No		
DIVERSION BERM 4		☐ Yes ☐ No	PV	
DIVERSION BERM 5		☐ Yes ☐ No		
DIVERSION BERM 6		☐ Yes ☐ No		
DIVERSION BERM 7		☐ Yes ☐ No		
WEST PERIMETER CHANNEL		☐ Yes ☐ No		
EAST PERIMETER CHANNEL		☐ Yes ☐ No		
UPPER BUTTERESS FILL SIDESLOPE		☐ Yes ☐ No		
LOWER BUTTRESS FILL SIDESLOPE		☐ Yes ☐ No		

* Unwanted vegetation includes weeds and "woody vegetation." Woody vegetation within the OLF waste footprint shall be removed. Other locations shall be evaluated per Section 3.5.

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

Continuing to work with the Rocky Flats Ecologist for vegetative growth and monitoring erosion controls. At the time of inspection 5% of the total area in the recent construction had vegetation growing. No unwanted vegetation at this time.

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

STORMWATER MANAGEMENT STRUCTURES

CHANNELS

STRUCTURE	EVIDENCE OF EXCESSIVE EROSION, GULLYING, SCOUR, OR UNDERMINING?	EVIDENCE OF SETTLEMENT/ SUBSIDENCE OR DEPRESSIONS?	EVIDENCE OF BREACHING OR BANK FAILURE?	EVIDENCE OF BURROWING ANIMALS?	EVIDENCE OF SEDIMENT BUILD-UP OR OTHER BLOCKAGE?
DIVERSION BERM 1	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 2	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 3	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 4	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 5	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 6	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 7	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
TEMPORARY CHECK DAMS*	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
WEST PERIMETER CHANNEL	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
EAST PERIMETER CHANNEL	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No

* Check dams may be removed after vegetation is established.

OTHER DEFICIENCIES?

N/A

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

N/A

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

STORMWATER MANAGEMENT STRUCTURES (CONTINUED)

OUTFALLS

CHECK EACH STRUCTURE FOR EXCESSIVE EROSION AND SEDIMENT DEPTH. IF SEDIMENT DEPTH IS COMPROMISING THE DESIGN CHARACTERISTICS, REMOVE SEDIMENT.

STRUCTURE	CONDITION / SEDIMENT DEPTH
DIVERSION BERM OUTFALL 1	No issue
DIVERSION BERM OUTFALL 2	
DIVERSION BERM OUTFALL 3	
DIVERSION BERM OUTFALL 4	
DIVERSION BERM OUTFALL 5	
DIVERSION BERM OUTFALL 6	
DIVERSION BERM OUTFALL 7	
WEST PERIMETER CHANNEL OUTFALL	
EAST PERIMETER CHANNEL OUTFALL	
FRENCH DRAIN OUTFALL (SID)	

OTHER DEFICIENCIES?

N/A

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

N/A

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

"RUN-ON" CONTROL

AREA	ADVERSELY AFFECTING OLF?		
NORTH OF THE ORIGINAL LANDFILL	☐ Yes	☒ No	COMMENT:
WEST OF THE WEST PERIMETER CHANNEL	☐ Yes	☒ No	COMMENT:
EAST OF THE EAST PERIMETER CHANNEL	☐ Yes	☒ No	COMMENT:
NORTH OF WOMAN CREEK	☐ Yes	☒ No	COMMENT:

MAINTENANCE REQUIRED

N/A

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

INSTITUTIONAL CONTROLS

ITEM			
EVIDENCE OF EXCAVATION(S) OF COVER AND IMMEDIATE VICINITY OF COVER?	☐ Yes	☒ No	COMMENT:
EVIDENCE OF CONSTRUCTION OF ROADS, TRAILS, OR BUILDINGS ON COVER?	☐ Yes	☒ No	COMMENT:
EVIDENCE OF DRILLING OF WELLS OR USE OF GROUNDWATER?	☐ Yes	☒ No	COMMENT:
DAMAGE OR REMOVAL OF ANY SIGNAGE OR GROUNDWATER MONITORING WELLS?	☐ Yes	☒ No	COMMENT:

OTHER DEFICIENCIES / PHOTO LOG

N/A

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

ACTION ITEMS

DEFICIENCY	DATE NOTED	ACTION	DATE COMPLETED	COMMENTS
None	11/24/15			

INSPECTOR SIGNATURE: [signature] DATE: 11/24/15

REVIEWER SIGNATURE: [signature] DATE: 12-1-15

Attachment 1: November 2015
Monthly Report of the Original Landfill Inspections at the Rocky Flats Site

The monthly inspection of the Original Landfill (OLF) at the Rocky Flats, Colorado, Site was completed on November 24, 2015. At the time of inspection, the weather was sunny and windy. The site received 1.07 inches of precipitation during the month of November. The site received snow in the month of November that slowly melted throughout the month.

The OLF cover was in good condition, with no new movement or cracks observed. Specifically, the area of recent construction shows no signs of movement (Figures 1−3).

All seeps on the OLF were saturated at the time of inspection. Seeps were flowing between 0.25 gallons per minute (GPM) and 1 GPM. These flows are much lower than in previous months. The seep at the end of berm 6, just to the west of the East Perimeter Channel (EPC), had the largest flow at approximately 1 GPM and is draining directly into the EPC through a pipe that was installed during the recent construction (Figure 4).

Vegetation continues to grow in the recent construction area. New vegetative growth was observed on 5 percent of the regraded area. We are continuing to work with the Rocky Flats site ecologist with monitoring and maintenance of this area for vegetation and erosion controls.

Figure 1: Rocky Flats site OLF. Looking west at the top of the EPC and recent construction area.

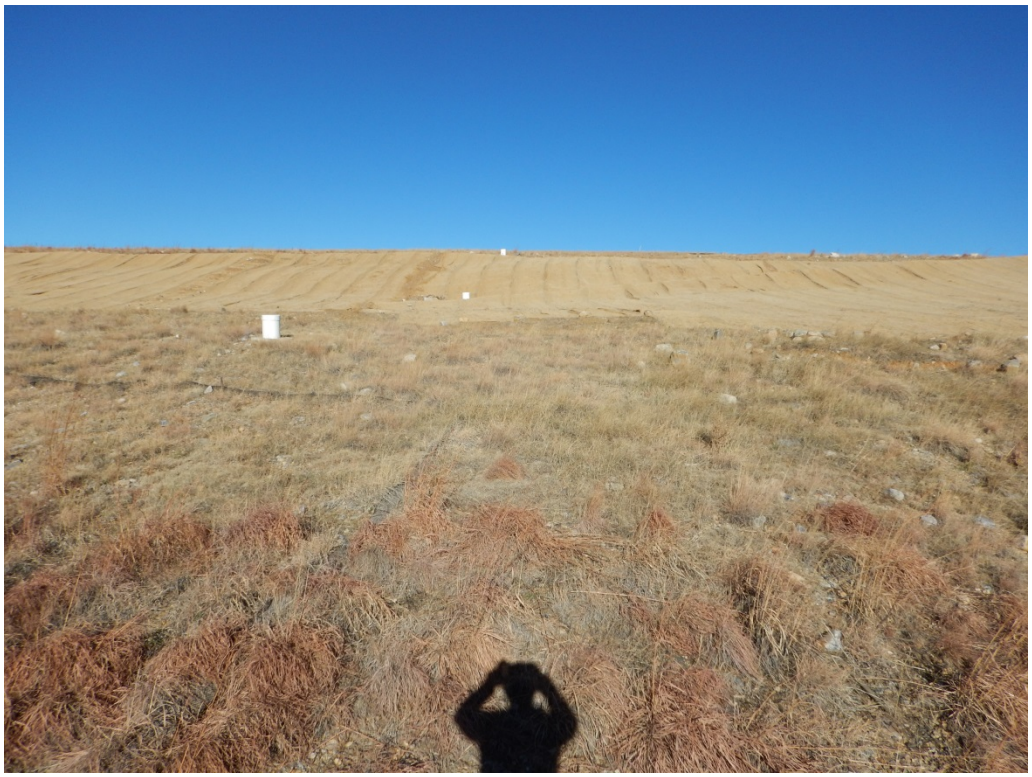

Figure 2: Rocky Flats site OLF. Looking north toward berm 1 and the recent construction area.

Figure 3: Rocky Flats site OLF. Looking east between berms 5 and 6 at recent construction area.

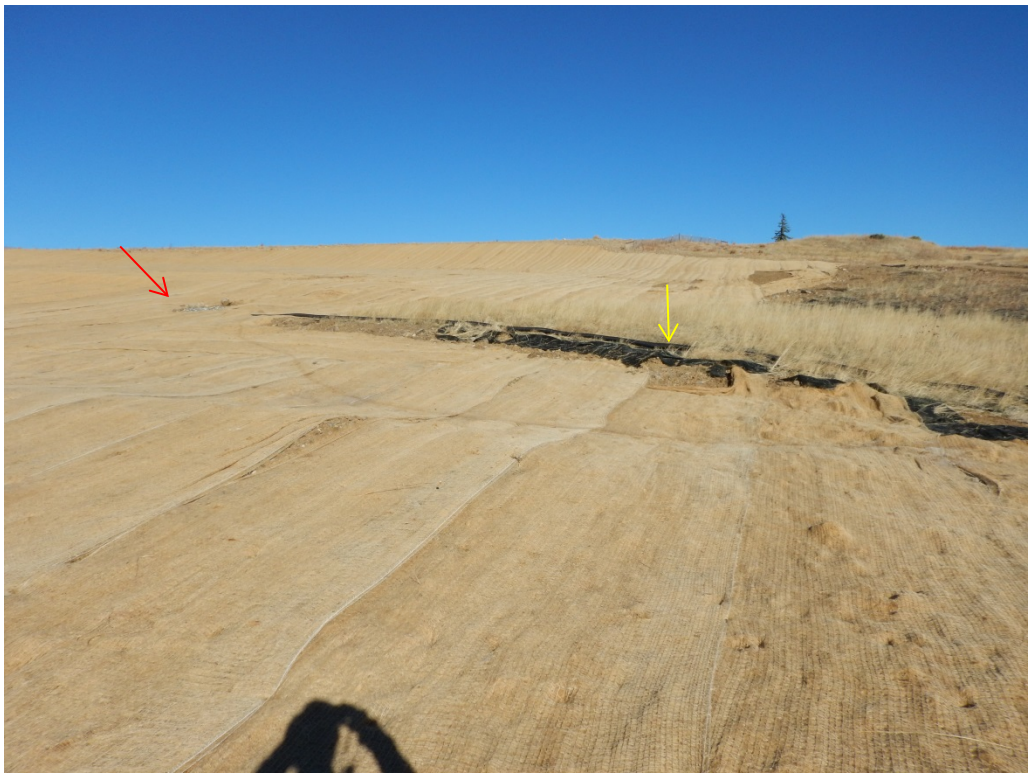

Figure 4: Rocky Flats site OLF. Looking north from just below berm 6—also pictured is the high flowing seep (red arrow), and drain pipe running into the EPC (yellow arrow).

Figure 5: Rocky Flats site OLF. Looking at the seep above berm 7—there's almost no flow compared to the 3 GPM on last inspection.

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

INSPECTOR: Ryan Uzdienski DATE: 12/28/2015 TIME: 10:30 REVIEWED BY: [illegible]

TEMPERATURE: 22°F WEATHER CONDITIONS: Sunny REVIEW DATE: 1-4-16

SUBSIDENCE / CONSOLIDATION

REGION	EVIDENCE OF CRACKS?	EVIDENCE OF DEPRESSIONS?	EVIDENCE OF SINK HOLES?	EVIDENCE OF PONDING?	OTHER (DESCRIBE BELOW)
COVER – WEST	☐ Yes ☒ No	☒ Yes ☐ No	☐ Yes ☒ No	☐ Yes ☒ No	
COVER – EAST	☐ Yes ☒ No	☒ Yes ☐ No	☐ Yes ☒ No	☐ Yes ☒ No	
BUTTRESS FILL	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
DIVERSION BERM 1	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
DIVERSION BERM 2	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
DIVERSION BERM 3	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
DIVERSION BERM 4	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
DIVERSION BERM 5	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
DIVERSION BERM 6	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
DIVERSION BERM 7	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☒ Yes ☐ No	

Settlement Plates – Inspect integrity. Intact? ☒ Yes ☐ No

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

Previously reported depressions above berm 3, on the west end, and the small depression above berm 6 still exist. At berm 7, ponding was discovered where the berm was damned up. No action at this time because the whole ponding area was frozen.

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

SLOPE STABILITY

REGION	EVIDENCE OF CRACKS?	EVIDENCE OF SEEPS?	EVIDENCE OF BLOCK OR CIRCULAR FAILURE?	OTHER (DESCRIBE BELOW
COVER – WEST	☐ Yes ☒ No	☒ Yes ☐ No	☐ Yes ☒ No	
COVER – EAST	☐ Yes ☒ No	☒ Yes ☐ No	☐ Yes ☒ No	
BUTTRESS FILL SIDESLOPE	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
WEST PERIMETER CHANNEL SIDESLOPES	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
EAST PERIMETER CHANNEL SIDESLOPES	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
COVER SEEPS (IF PRESENT)	☐ Yes ☒ No	☒ Yes ☐ No	☐ Yes ☒ No	

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

Seeps remain saturated but show little to no flow.

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

SOIL COVER

REGION	EVIDENCE OF SOIL DEPOSITION OR EROSION?	EVIDENCE OF EROSION RILLS/GULLIES?	EVIDENCE OF BURROWING ANIMALS?	OTHER (DESCRIBE BELOW)
COVER – WEST	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
COVER – EAST	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
BUTTRESS FILL	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	
BUTTRESS FILL SIDESLOPE	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

OLF was covered by snow at the time of inspection.

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

VEGETATION

No longer needed. Success Criteria met.

REGION	CONDITION OF GRASS	UNWANTED VEGETATION PRESENT*?	PERCENTAGE OF GRASS VERSUS BARE GROUND?	PERCENTAGE OF UNWANTED VEGETATION?
COVER- WEST		☐ Yes ☐ No		
COVER - EAST		☐ Yes ☐ No		
DIVERSION BERM 1		☐ Yes ☐ No		
DIVERSION BERM 2		☐ Yes ☐ No		
DIVERSION BERM 3		☐ Yes ☐ No	RU 12/28/15	
DIVERSION BERM 4		☐ Yes ☐ No		
DIVERSION BERM 5		☐ Yes ☐ No		
DIVERSION BERM 6		☐ Yes ☐ No		
DIVERSION BERM 7		☐ Yes ☐ No		
WEST PERIMETER CHANNEL		☐ Yes ☐ No		
EAST PERIMETER CHANNEL		☐ Yes ☐ No		
UPPER BUTTERESS FILL SIDESLOPE		☐ Yes ☐ No		
LOWER BUTTRESS FILL SIDESLOPE		☐ Yes ☐ No		

* Unwanted vegetation includes weeds and "woody vegetation." Woody vegetation within the OLF waste footprint shall be removed. Other locations shall be evaluated per Section 3.5.

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

Vegetation continues to be monitored in conjunction with the Rocky Flats Ecologist. No new growth observed.

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

STORMWATER MANAGEMENT STRUCTURES

CHANNELS

STRUCTURE	EVIDENCE OF EXCESSIVE EROSION, GULLYING, SCOUR, OR UNDERMINING?	EVIDENCE OF SETTLEMENT/ SUBSIDENCE OR DEPRESSIONS?	EVIDENCE OF BREACHING OR BANK FAILURE?	EVIDENCE OF BURROWING ANIMALS?	EVIDENCE OF SEDIMENT BUILD-UP OR OTHER BLOCKAGE?
DIVERSION BERM 1	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 2	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 3	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 4	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 5	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 6	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
DIVERSION BERM 7	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
TEMPORARY CHECK DAMS*	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
WEST PERIMETER CHANNEL	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
EAST PERIMETER CHANNEL	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No

* Check dams may be removed after vegetation is established.

OTHER DEFICIENCIES?

Snow build up in the berm channels on the east side of the OLF. Not adversely affecting their function.

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

N/A

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

STORMWATER MANAGEMENT STRUCTURES (CONTINUED)

OUTFALLS

CHECK EACH STRUCTURE FOR EXCESSIVE EROSION AND SEDIMENT DEPTH. IF SEDIMENT DEPTH IS COMPROMISING THE DESIGN CHARACTERISTICS, REMOVE SEDIMENT.

STRUCTURE	CONDITION / SEDIMENT DEPTH
DIVERSION BERM OUTFALL 1	No issue
DIVERSION BERM OUTFALL 2	
DIVERSION BERM OUTFALL 3	
DIVERSION BERM OUTFALL 4	
DIVERSION BERM OUTFALL 5	
DIVERSION BERM OUTFALL 6	
DIVERSION BERM OUTFALL 7	Where berm 7 was damned, and drain installed on the east end, a frozen pond was discovered
WEST PERIMETER CHANNEL OUTFALL	No issue
EAST PERIMETER CHANNEL OUTFALL	No issue
FRENCH DRAIN OUTFALL (SID)	No flow

OTHER DEFICIENCIES?

The ponding at berm 7 was less than 3 square feet and shallow.

MAINTENANCE REQUIRED / COMMENTS / PHOTO LOG

N/A

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

"RUN-ON" CONTROL

AREA	ADVERSELY AFFECTING OLF?		
NORTH OF THE ORIGINAL LANDFILL	☐ Yes	☒ No	COMMENT:
WEST OF THE WEST PERIMETER CHANNEL	☐ Yes	☒ No	COMMENT:
EAST OF THE EAST PERIMETER CHANNEL	☐ Yes	☒ No	COMMENT:
NORTH OF WOMAN CREEK	☐ Yes	☒ No	COMMENT:

MAINTENANCE REQUIRED

No maintenance required.

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

INSTITUTIONAL CONTROLS

ITEM			
EVIDENCE OF EXCAVATION(S) OF COVER AND IMMEDIATE VICINITY OF COVER?	☐ Yes	☒ No	COMMENT:
EVIDENCE OF CONSTRUCTION OF ROADS, TRAILS, OR BUILDINGS ON COVER?	☐ Yes	☒ No	COMMENT:
EVIDENCE OF DRILLING OF WELLS OR USE OF GROUNDWATER?	☐ Yes	☒ No	COMMENT:
DAMAGE OR REMOVAL OF ANY SIGNAGE OR GROUNDWATER MONITORING WELLS?	☐ Yes	☒ No	COMMENT:

OTHER DEFICIENCIES / PHOTO LOG

N/A

ORIGINAL LANDFILL – MONITORING AND MAINTENANCE PLAN INSPECTION FORM

ACTION ITEMS

DEFICIENCY	DATE NOTED	ACTION	DATE COMPLETED	COMMENTS
N/A	12/28/2015			

INSPECTOR SIGNATURE: [signature] DATE: 12/28/2015

REVIEWER SIGNATURE: [signature] DATE: 1-4-16

Attachment 1: December 2015
Monthly Report of the Original Landfill Inspections at the Rocky Flats Site

The monthly inspection of the Original Landfill (OLF) at the Rocky Flats, Colorado, Site was completed on December 28, 2015. At the time of inspection, the weather was sunny.

The site received less than 10 inches of snow in the month of December that slowly melted throughout the month; therefore, there were no weather-related inspections. The site received 0.3 inches of precipitation during the month of December as recorded from the Rocky Flats MET Tower. Adjacent to the site, the National Renewable Energy Laboratory recorded 1.04 inches of precipitation in the month of December using heated rain gauges.

The OLF cover was in good condition, with no movement or cracks observed. Specifically, the area of recent construction shows no signs of movement (Figures 1 and 2). At the time of inspection the majority of the OLF was covered by snow. The perimeter channels and the berm channels had the most snow accumulation (Figures 3–5). The snow was not affecting the function of the channels.

Seeps on the OLF were saturated at the time of inspection but showed little to no flow. In the area at berm 7 where the berm channel was dammed to install a drain pipe, just below a large seep, a frozen puddle of water was discovered. This puddle was less than 3 square feet in area and located at the mouth of the installed drain pipe (Figure 6). The mouth of the drain was frozen at the time of inspection causing the water to pond and freeze in that area. It will be monitored on the next weekly inspection to ensure that flow has returned and no standing water remains.

Vegetation growth in the recently disturbed areas is the same as last month. The Rocky Flats site ecologist continues to monitor the recent construction area for vegetation and erosion controls.

Figure 1: Rocky Flats site OLF. Looking west over the recent construction area. Top of the East Perimeter Channel (EPC) pictured.

Figure 2: Rocky Flats site OLF. Photo from the west end of berm 2 looking northeast at berm 1.

Figure 3: Rocky Flats site OLF. Looking south down the EPC and recent construction area on the east side.

Figure 4: Rocky Flats site OLF. Looking south down the Western Perimeter Channel.

Figure 5: Rocky Flats site OLF. Looking west, just north of berm 5, an example of the snow buildup in the berm channels.

Figure 6: Rocky Flats site OLF. Looking north from berm 7, pictured is the seep just above berm 7 identified in previous inspections. Also pictured is the frozen puddle in the berm channel.

C.2 Present Landfill

PRESENT LANDFILL – MONITORING AND MAINTENANCE PROGRAM

INSPECTION FORM

INSPECTOR: Ryan Uzdienski DATE: 11/24/2015 TIME: 11:47 REVIEWED BY: Gene Spak

TEMPERATURE: 58°F WEATHER CONDITIONS: Sunny, few Clouds, Windy REVIEW DATE: 12-1-15

METEOROLOGICAL STATION LOCATION: Rocky Flats Met tower

SUBSIDENCE/CONSOLIDATION

REGION	EVIDENCE OF CRACKS?	EVIDENCE OF DEPRESSIONS	EVIDENCE OF SINK HOLES?	EVIDENCE OF PONDING?	OTHER (DESCRIBE BELOW)
TOP OF COVER - WEST	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
TOP OF COVER – EAST	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
COVER SIDESLOPE – NORTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
COVER SIDESLOPE-SOUTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
EAST FACE SLOPE – NORTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
EAST FACE SLOPE – SOUTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
EAST FACE SLOPE – CENTRAL	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
EAST FACE SLOPE – NORTH SEEP*	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	

Settlement Plates and side-slope monitoring points to be inspected for integrity. During Year 1, they will be surveyed quarterly, and annually thereafter

Integrity intact? ☒ YES ☐ NO

MAINTENANCE REQUIRED/COMMENTS/PHOTO LOG

Good condition, no maintenance

•AREA OF SEEP IS OUTSIDE OF LANDFILL COVER AND EAST OF THE COVER ANCHOR TRENCH

SLOPE STABILITY

REGION	EVIDENCE OF CRACKS?	EVIDENCE OF BLOCK OR CIRCULAR FAILURE/	EVIDENCE OF SEEPS?	OTHER (DESCRIBE BELOW)
COVER SIDESLOPE –NORTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
COVER SIDESLOPE - SOUTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
PERIMETER CHANNEL OUTER SLOPE-NORTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
PERIMETER CHANNEL OUTER SLOPE-SOUTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
EAST FACE SLOPE – NORTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
EAST FACE SLOPE – SOUTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
EAST FACE SLOPE – CENTRAL	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
EAST FACE SLOPE – NORTH SEEP*	☐ YES ☒ NO	☐ YES ☒ NO	☒ YES ☐ NO	

MAINTENANCE REQUIRED/COMMENTS/PHOTO LOG

None

•AREA OF SEEP IS OUTSIDE OF LANDFILL COVER AND EAST OF THE COVER ANCHOR TRENCH

SOIL COVER

REGION	EVIDENCE OF SOIL DEPOSITION OR EROSION?	EVIDENCE OF EROSION RILLS/GULLES?	EVIDENCE OF BURROWING ANIMALS	OTHER (DESCRIBE BELOW)
TOP OF COVER - WEST	☐ YES ☒ NO	☐ YES ☒ NO	☒ YES ☐ NO	
TOP OF COVER – EAST	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
COVER SIDESLOPE – NORTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
COVER SIDESLOPE-SOUTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
EAST FACE SLOPE – NORTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
EAST FACE SLOPE – SOUTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
EAST FACE SLOPE – CENTRAL	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
AREA WHERE EAST SLOPE CENTRAL MEETS EAST SLOPE NORTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
AREA WHERE EAST SLOPE CENTRAL MEETS EAST SLOPE SOUTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
	VENT CAPS IN PLACE & SECURE?	**STANDPIPES IN GOOD CONDITION?**	**BIRDS OR INSECTS IN VENT CAPS?**	
COVER – BAROMETRIC VENTS	☒ YES ☐ NO	☒ YES ☐ NO	☐ YES ☒ NO	

MAINTENANCE REQUIRED/COMMENTS/PHOTO LOG

3 very Small burrows (< 1.5 inches in diameter) were discovered on the South west portion of the cover. No Signs of activity around the burrows. Not adversely affecting the PLF at this time and will continue to be monitored.

SEEP TREATMENT SYSTEM

REGION	EVIDENCE OF PLUGGING, OBSTRUCTIONS OR EXCESS DERIS?	EVIDENCE OF CRACKS OR DETERIORATION	OTHER (DESCRIBE BELOW)
GWIS INLET PIPES	☐ YES ☒ NO	☐ YES ☒ NO	N/A
STRIP DRAIN INLET PIPE	☐ YES ☒ NO	☐ YES ☒ NO	
NORTH MANHOLE OUTLET PIPE	☐ YES ☒ NO	☐ YES ☒ NO	
SOUTH MANHOLE OUTLET PIPE	☐ YES ☒ NO	☐ YES ☒ NO	
TREATMENT UNIT	☐ YES ☒ NO	☐ YES ☒ NO	
TREATMENT UNIT OUTLET PIPE	☐ YES ☒ NO	☐ YES ☒ NO	
NORTH MANHOLE	☐ YES ☒ NO	☐ YES ☒ NO	
SOUTH MANHOLE	☐ YES ☒ NO	☐ YES ☒ NO	
TREATMENT UNIT GRATING	NA	☐ YES ☒ NO	

MAINTENANCE REQUIRED/COMMENTS/PHOTO LOG

None

STORMWATER MANAGEMENT STRUCTURES

STRUCTURE	EVIDENCE OF EXCESSIVE EROSION, GULLYING, SCOUR OR UNDERMINING?	EVIDENCE OF SETTLEMENT/ SUBSIDENCE OR DEPRESSIONS?	EVIDENCE OF BREACHING OR BANK FAILURE?	EVIDENCE OF BURROWING ANIMALS?	EVIDENCE OF SEDIMNET BUILD-UP OR OTHER BLOCKAGE?	EVIDENCE OF LINING DETERIORATION HOLES, RIPS, OR SEPARATIONS?	EVIDENCE OF LINING DISPLACEMENT?
DIVERSION BERM	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO
VEGETATION-LINED PERIMETER CHANNEL - NORTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO
VEGETATION-LINED PERIMETER CHANNEL - SOUTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO
RIPRAP-LINED PERIMETER CHANNEL	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO
C350-LINED EAST FACE	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO
EAST FACE RIPRAP CHANNEL-NORTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO
EAST FACE RIPRAP CHANNEL - SOUTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO

OTHER DEFICIENCIES?

N/A

MAINTENANCE REQUIRED/COMMENTS/PHOTO LOG

No maintenance. Both North and South perimeter channels became more saturated the further east in the channel.

STORMWATER MANAGEMENT STRUCTURES (CONTINUED)

OUTFALLS

CHECK EACH STRUCTURE FOR EXCESSIVE EROSION AND SEDIMENT DEPTH. IF SEDIMENT DEPTH IS COMPROMISING THE DESIGN CHARACTERISTICS, REMOVE SEDIMENT.

STRUCTURE	CONDITION/SEDIMENT DEPTH
DIVERSION BERM OUTFALL – NORTH	No issue
DIVERSION BERM OUTFALL – SOUTH	↓
CULVERT 1 OUTFALL	
CULVERT 2 OUTFALL	
SOUTH CULVERT OUTFALL	

CULVERTS

CHECK EACH STRUCTURE FOR BLOCKAGE, SURROUNDING CONDITIONS, BREACHING, SEDIMENT BUILD-UP, AND INLET/OUTLET CONDITIONS.

STRUCTURE	CONDITION
CULVERT 1	No issue good condition
CULVERT 2	↓
SOUTH CULVERT	

MAINTENANCE REQUIRED/COMMENTS/PHOTO LOG

N/A

"RUN-ON" EROSION CONTROL

AREA	ADVERSELY AFFECTING PFL?
RUN-ON INTO PERIMETER CHANNEL-NORTH	☐ YES ☒ NO COMMENT: No issue
RUN-ON INTO PERIMETER CHANNEL – SOUTH	☐ YES ☒ NO COMMENT:
NATURAL DRAINAGE FED BY CULVERT 1	☐ YES ☒ NO COMMENT:
NATURAL DRAINAGE FED BY NORTHEAST PERIMETER CHANNEL	☐ YES ☒ NO COMMENT:
NATURAL DRAINAGE FED BY RIPRAP	☐ YES ☒ NO COMMENT:

MAINTENANCE REQUIRED/COMMENTS/PHOTO LOG

N/A

INSTITUTIONAL CONTROLS

ITEM	
EVIDENCE OF EXCAVATIONS(S) OF COVER AND IMMEDIATE VICINTIY OF COVER?	☐ YES ☒ NO COMMENT:
EVIDENCE OF CONSTRUCTIONS OF ROADS OR TRAILS ON COVER OR BUILDINGS?	☐ YES ☒ NO COMMENT:
EVIDENCE OF UNAUTHORIZED ENTRY?	☐ YES ☒ NO COMMENT:
EVIDENCE OF DRILLING OR WELLS OR USE OF GROUNDWATER	☐ YES ☒ NO COMMENT:
DISRUPTION OR DAMAGE OF SEEP TREATMENT SYSTEM?	☐ YES ☒ NO COMMENT:
DAMAGE OR REMOVAL OF ANY SIGNAGE OR GROUNDWATER MONITORING WELLS?	☐ YES ☒ NO COMMENT:

OTHER DEFICIENCIES/PHOTO LOG

N/A

ACTIONS ITEMS

DEFICIENCY	DATE NOTED	ACTION	DATE COMPLETED	COMMENTS
None	11/24/2015			

INSPECTOR SIGNATURE: [signature] DATE: 11/24/2015

REVIEWER SIGNATURE: [signature] DATE: 12-1-15

Weather Related 1.1 inches of Rain

PRESENT LANDFILL – MONITORING AND MAINTENANCE PROGRAM

INSPECTION FORM

INSPECTOR: Ryan Uzdienski DATE: 10/22/15 TIME: 9:00 REVIEWED BY: [illegible]

TEMPERATURE: 40°F WEATHER CONDITIONS: Rainy REVIEW DATE: 10/26/15

METEOROLOGICAL STATION LOCATION: Rocky Flats Met tower

SUBSIDENCE/CONSOLIDATION

REGION	EVIDENCE OF CRACKS?	EVIDENCE OF DEPRESSIONS	EVIDENCE OF SINK HOLES?	EVIDENCE OF PONDING?	OTHER (DESCRIBE BELOW)
TOP OF COVER - WEST	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
TOP OF COVER – EAST	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
COVER SIDESLOPE – NORTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
COVER SIDESLOPE-SOUTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
EAST FACE SLOPE – NORTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
EAST FACE SLOPE – SOUTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
EAST FACE SLOPE – CENTRAL	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
EAST FACE SLOPE – NORTH SEEP*	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	

Settlement Plates and side-slope monitoring points to be inspected for integrity. During Year 1, they will be surveyed quarterly, and annually thereafter

Integrity intact? ☒ YES ☐ NO

MAINTENANCE REQUIRED/COMMENTS/PHOTO LOG

Cover was saturated at time of inspection.

•AREA OF SEEP IS OUTSIDE OF LANDFILL COVER AND EAST OF THE COVER ANCHOR TRENCH

SLOPE STABILITY

REGION	EVIDENCE OF CRACKS?	EVIDENCE OF BLOCK OR CIRCULAR FAILURE/	EVIDENCE OF SEEPS?	OTHER (DESCRIBE BELOW)
COVER SIDESLOPE –NORTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
COVER SIDESLOPE - SOUTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
PERIMETER CHANNEL OUTER SLOPE-NORTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
PERIMETER CHANNEL OUTER SLOPE-SOUTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
EAST FACE SLOPE – NORTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
EAST FACE SLOPE – SOUTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
EAST FACE SLOPE – CENTRAL	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
EAST FACE SLOPE – NORTH SEEP*	☐ YES ☒ NO	☐ YES ☒ NO	☒ YES ☐ NO	

MAINTENANCE REQUIRED/COMMENTS/PHOTO LOG

N/A

•AREA OF SEEP IS OUTSIDE OF LANDFILL COVER AND EAST OF THE COVER ANCHOR TRENCH

SOIL COVER

REGION	EVIDENCE OF SOIL DEPOSITION OR EROSION?	EVIDENCE OF EROSION RILLS/GULLES?	EVIDENCE OF BURROWING ANIMALS	OTHER (DESCRIBE BELOW)
TOP OF COVER - WEST	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
TOP OF COVER – EAST	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
COVER SIDESLOPE – NORTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
COVER SIDESLOPE-SOUTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
EAST FACE SLOPE – NORTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
EAST FACE SLOPE – SOUTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
EAST FACE SLOPE – CENTRAL	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
AREA WHERE EAST SLOPE CENTRAL MEETS EAST SLOPE NORTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
AREA WHERE EAST SLOPE CENTRAL MEETS EAST SLOPE SOUTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
	VENT CAPS IN PLACE & SECURE?	**STANDPIPES IN GOOD CONDITION?**	**BIRDS OR INSECTS IN VENT CAPS?**	
COVER – BAROMETRIC VENTS	☒ YES ☐ NO	☒ YES ☐ NO	☐ YES ☒ NO	

MAINTENANCE REQUIRED/COMMENTS/PHOTO LOG

N/A

SEEP TREATMENT SYSTEM

REGION	EVIDENCE OF PLUGGING, OBSTRUCTIONS OR EXCESS DERIS?	EVIDENCE OF CRACKS OR DETERIORATION	OTHER (DESCRIBE BELOW)
GWIS INLET PIPES	☐ YES ☒ NO	☐ YES ☒ NO	
STRIP DRAIN INLET PIPE	☐ YES ☒ NO	☐ YES ☒ NO	
NORTH MANHOLE OUTLET PIPE	☐ YES ☒ NO	☐ YES ☒ NO	
SOUTH MANHOLE OUTLET PIPE	☐ YES ☒ NO	☐ YES ☒ NO	
TREATMENT UNIT	☐ YES ☒ NO	☐ YES ☒ NO	
TREATMENT UNIT OUTLET PIPE	☐ YES ☒ NO	☐ YES ☒ NO	
NORTH MANHOLE	☐ YES ☒ NO	☒ YES ☐ NO	
SOUTH MANHOLE	☐ YES ☒ NO	☒ YES ☐ NO	
TREATMENT UNIT GRATING	NA	☐ YES ☒ NO	

MAINTENANCE REQUIRED/COMMENTS/PHOTO LOG

Minor cracking on grout around manhole. Not affecting the manhole.

STORMWATER MANAGEMENT STRUCTURES

STRUCTURE	EVIDENCE OF EXCESSIVE EROSION, GULLYING, SCOUR OR UNDERMINING?	EVIDENCE OF SETTLEMENT/ SUBSIDENCE OR DEPRESSIONS?	EVIDENCE OF BREACHING OR BANK FAILURE?	EVIDENCE OF BURROWING ANIMALS?	EVIDENCE OF SEDIMNET BUILD-UP OR OTHER BLOCKAGE?	EVIDENCE OF LINING DETERIORATION HOLES, RIPS, OR SEPARATIONS?	EVIDENCE OF LINING DISPLACEMENT?
DIVERSION BERM	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO
VEGETATION-LINED PERIMETER CHANNEL - NORTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO
VEGETATION-LINED PERIMETER CHANNEL - SOUTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO
RIPRAP-LINED PERIMETER CHANNEL	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO
C350-LINED EAST FACE	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO
EAST FACE RIPRAP CHANNEL-NORTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO
EAST FACE RIPRAP CHANNEL - SOUTH	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO

OTHER DEFICIENCIES?

N/A

MAINTENANCE REQUIRED/COMMENTS/PHOTO LOG

Saturated throughout

STORMWATER MANAGEMENT STRUCTURES (CONTINUED)

OUTFALLS

CHECK EACH STRUCTURE FOR EXCESSIVE EROSION AND SEDIMENT DEPTH. IF SEDIMENT DEPTH IS COMPROMISING THE DESIGN CHARACTERISTICS, REMOVE SEDIMENT.

STRUCTURE	CONDITION/SEDIMENT DEPTH
DIVERSION BERM OUTFALL – NORTH	No issue
DIVERSION BERM OUTFALL – SOUTH	↓
CULVERT 1 OUTFALL	
CULVERT 2 OUTFALL	
SOUTH CULVERT OUTFALL	

CULVERTS

CHECK EACH STRUCTURE FOR BLOCKAGE, SURROUNDING CONDITIONS, BREACHING, SEDIMENT BUILD-UP, AND INLET/OUTLET CONDITIONS.

STRUCTURE	CONDITION
CULVERT 1	good condition, no issue
CULVERT 2	↓
SOUTH CULVERT	

MAINTENANCE REQUIRED/COMMENTS/PHOTO LOG

N/A

"RUN-ON" EROSION CONTROL

AREA	ADVERSELY AFFECTING PFL?
RUN-ON INTO PERIMETER CHANNEL-NORTH	☐ YES ☒ NO COMMENT:
RUN-ON INTO PERIMETER CHANNEL – SOUTH	☐ YES ☒ NO COMMENT:
NATURAL DRAINAGE FED BY CULVERT 1	☐ YES ☒ NO COMMENT:
NATURAL DRAINAGE FED BY NORTHEAST PERIMETER CHANNEL	☐ YES ☒ NO COMMENT:
NATURAL DRAINAGE FED BY RIPRAP	☐ YES ☒ NO COMMENT:

MAINTENANCE REQUIRED/COMMENTS/PHOTO LOG

N/A

INSTITUTIONAL CONTROLS

ITEM	
EVIDENCE OF EXCAVATIONS(S) OF COVER AND IMMEDIATE VICINTIY OF COVER?	☐ YES ☒ NO COMMENT:
EVIDENCE OF CONSTRUCTIONS OF ROADS OR TRAILS ON COVER OR BUILDINGS?	☐ YES ☒ NO COMMENT:
EVIDENCE OF UNAUTHORIZED ENTRY?	☐ YES ☒ NO COMMENT:
EVIDENCE OF DRILLING OR WELLS OR USE OF GROUNDWATER	☐ YES ☒ NO COMMENT:
DISRUPTION OR DAMAGE OF SEEP TREATMENT SYSTEM?	☐ YES ☒ NO COMMENT:
DAMAGE OR REMOVAL OF ANY SIGNAGE OR GROUNDWATER MONITORING WELLS?	☐ YES ☒ NO COMMENT:

OTHER DEFICIENCIES/PHOTO LOG

N/A

ACTIONS ITEMS

DEFICIENCY	DATE NOTED	ACTION	DATE COMPLETED	COMMENTS
None	10/22/15			

INSPECTOR SIGNATURE: [signature] DATE: 10/22/15

REVIEWER SIGNATURE: [signature] DATE: 10/26/15