

2012 ANNUAL REPORT – FINAL REPORT

**Landfill Inspection Report
Coldwater Road Landfill
Flint, Michigan
MID 005 356 860**

**RACER Trust
Ypsilanti, Michigan**

February 2013



**Landfill Inspection
Coldwater Road Landfill
Flint, Michigan
MID 005 356 860**

**Prepared for RACER Trust
Ypsilanti, Michigan**



**SCOTT L. CORMIER, P.E.
VICE PRESIDENT
O'BRIEN & GERE ENGINEERS, INC.**

February 25, 2013

Mr. Richard Conforti, P.E.
Environmental Engineer
Michigan Department of Natural Resources and Environment
Waste and Hazardous Material Division
P.O. Box 30241
Lansing, Michigan 48909-7741

RE: 2012 Annual Landfill Inspection Report Coldwater Road Landfill
Flint, Michigan
FILE: 14774/48630 #5

Dear Mr. Conforti:

On behalf of Revitalizing Auto Communities Environmental Response Trust (RACER), O'Brien & Gere Engineers, Inc. (O'Brien & Gere) is presenting this annual Landfill Inspection Report summarizing the 2012 Quarterly Post Closure Inspections at the hazardous waste landfill for the Coldwater Road Landfill facility in Flint, Michigan.

Each quarterly inspection event consisted of the following activities:

- A visual inspection of the landfill cap and berms
- A visual inspection of the leachate accumulation above ground storage tank (AST)
- A visual inspection of the site access roads
- A visual inspection of the site perimeter fencing and gates
- An inspection of the leachate collection system
- Testing of the leachate detection alarm system
- A summary of the monthly removal of liquids from the leak detection vaults
- A visual inspection of site drainage structures.

A summary of the inspections is outlined in the following sections and copies of the quarterly inspection reports are included as Attachment A. A site location map (Figure 1), a site layout (Figure 2), and a 2012 incident location map (Figure 3) are also included.

CAP AND BERMS

The cap and berms were visually inspected each quarter for deep root penetration, burrowing animals, soil erosion, slope failures, and ponding water in the ditch and/or washouts. No slope failures or ponding of water was observed during the 2012 quarterly inspections. The following is a summary of the issues encountered on the cap and berms during the 2012 quarterly inspections.

Several hundred woody-stemmed plants were removed by the root from the landfill cap between March 2012 and December 2012.

Eight animal burrows were identified and closed throughout the year. Animal burrows were photographically documented (before and after repair), and the approximate size and configuration of the burrows were documented and included in the Quarterly Status Reports.

Traps were set at the opening of each animal burrow that appeared to be active. After several days without animal activity, the burrows were filled using methods approved by the Michigan Department of Environmental Quality (MDEQ). Animal burrows located during the quarterly inspections are noted on Figure 3. A log of burrow activity throughout the year is maintained at the landfill. The log contains information on the date that a burrow was identified, response activities, and the date the burrow was filled.

LEACHATE COLLECTION AST

The 15,000-gallon leachate accumulation AST is located in the containment/control building. An inspection of this AST system (tank, piping, containment) is completed and documented during each site visit by O'Brien & Gere and during quarterly inspections in accordance with the post-closure care plan (PCP). No evidence of leakage was observed within the AST secondary containment area or the associated piping.

ACCESS ROADS

The landfill access and perimeter roads were inspected for sufficient gravel and proper drainage during the quarterly inspections. During the 2nd quarter inspection, shallow ruts in the road were observed along the south and east landfill access road (Figure 3). The shallow ruts were filled in with gravel during the 3rd quarter and will continue to be monitored and addressed as necessary. No other problems to the access roads were observed during 2012.

SITE PERIMETER FENCING AND GATES

Damage to the site perimeter fence and/or the barbwire was noted at a number of locations during the quarterly inspections. During the 1st quarter inspection, two sections of downed barbwire were observed along the east and west perimeter fence. During the 3rd quarter inspection, three previously repaired holes were reopened along the west perimeter fence. During the 4th quarter inspection, a section of downed barbwire was observed along the west perimeter fence.

The holes in the perimeter fence and downed barbwire were repaired either during the inspections or shortly thereafter.

LEACHATE COLLECTION SYSTEM

The leachate collection system was inspected quarterly for visible signs of damage. System components inspected include the control panels for the sumps and the leak detection vaults, as well as the visible portions of the vault piping. No evidence of damage was observed for the aboveground components of the system. Additionally, no signs of erosion/washouts were noticed in the areas around the control panels and posts.

LEACHATE DETECTION ALARM SYSTEM

A problem with the PermAlert system was discovered during the 1st quarter inspection. The problem required diagnosis by a PermAlert system technician. The PermAlert system diagnostics carried out in the 2nd and 3rd quarters indicated a problem with the cable in a section of the force main piping toward the south end of the site, indicating need to replace the section of cable. The cable was replaced during the 4th quarter.

VAULT LIQUID REMOVAL

The leak detection vaults were pumped out monthly during the year. The volumes of liquid evacuated from each cell are provided in Table 1 and were reported in the Quarterly Status Reports.

DRAINAGE INSPECTION

The perimeter of the landfill and berm, drainage trenches at the base of the landfill, the Remaining Materials Area (RMA, Figure 2), and the wetland area were inspected for potential drainage problems. No drainage issues were observed during the quarterly inspections for 2012.

This summary of the quarterly inspections fulfills the annual inspection reporting requirements for 2012. If you have any questions, feel free to contact either of us at (248) 477-5701.

Very truly yours,
O'BRIEN & GERE ENGINEERS, INC.



Scott L. Cormier, P.E.
Vice President

Very truly yours,
O'BRIEN & GERE ENGINEERS, INC.



Clifford S. Yantz, P.G.
Technical Associate

Enclosures

cc: David Favero – RACER Trust
Kevin Schneider – O'Brien & Gere

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

On Behalf of RACER Trust



Scott L. Cormier, P.E.
Vice President – O'Brien & Gere Engineers, Inc.

Agent for RACER Trust

February 25, 2013

Date

cc: file

TABLES

Table 1
Coldwater Road Landfill Facility
Liquid Volumes Removed from LDS Vaults in 2012

Date 2012	Vault A	Vault B	Vault C	Vault D	Vault E	Vault F	TOTAL LDS GALLONS
20-Jan-12	345	59	19	1,257	168	-	1,848
15-Feb-12	131	39	15	774	138	7	1,104
8-Mar-12	67	71	11	745	9	-	903
23-Apr-12	110	-	24	763	501	-	1,398
17-May-12	73	277	11	998	267	-	1,626
12-Jun-12	60	86	6	275	225	-	652
12-Jul-12	50	75	75	90	150	-	440
21-Aug-12	119	159	152	177	192	26	825
12-Sep-12	92	67	90	95	99	15	458
12-Oct-12	79	42	65	79	75	10	350
15-Nov-12	58	41	41	95	51	333	619
07-Dec-12	48	29	40	29	44	17	207
YEAR END TOTAL	1,232	945	549	5,377	1,919	408	10,430

Notes:

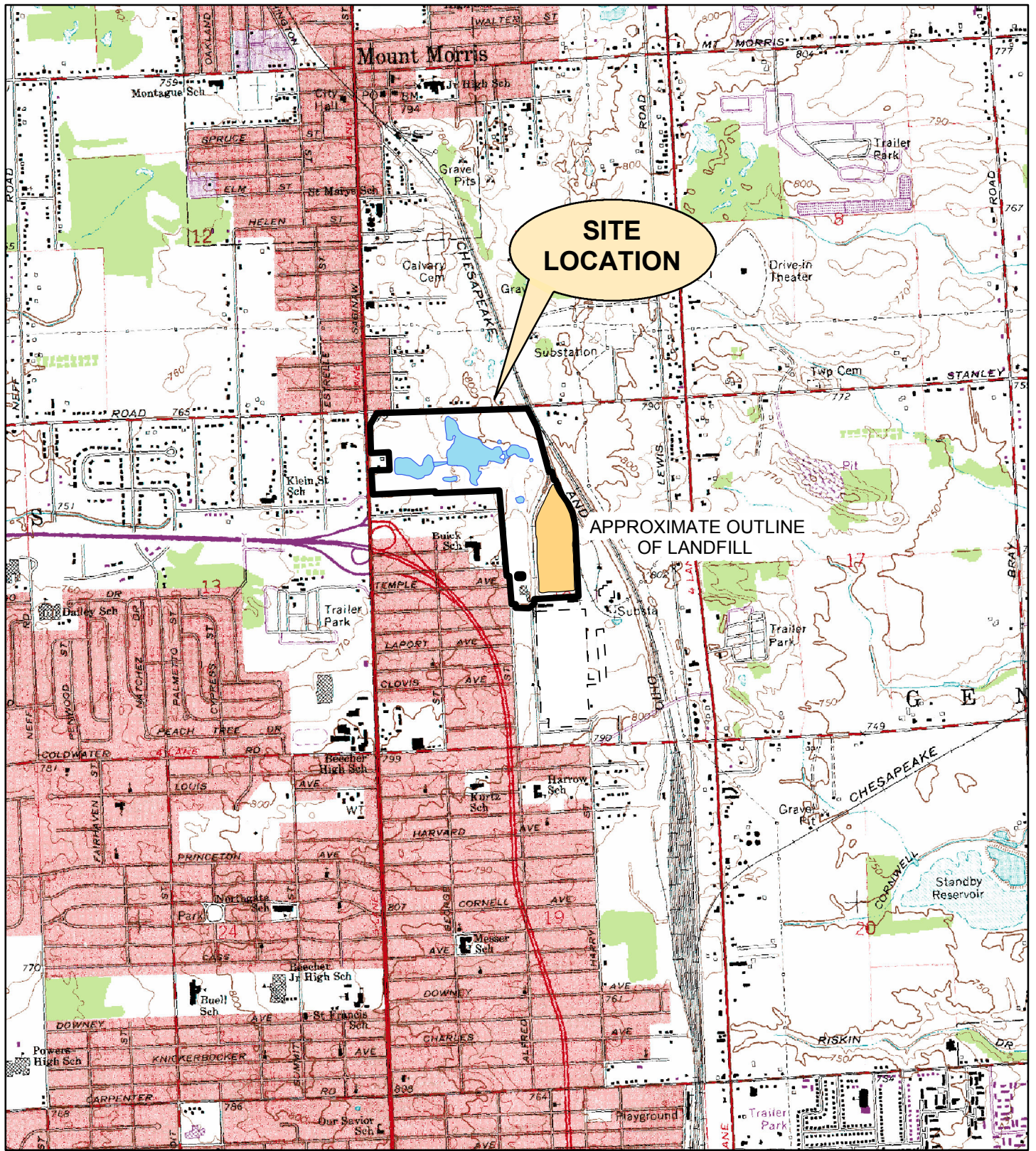
Liquid volumes in gallons.

LDS - Leak Detection System

FIGURES

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PLOT DATE: 1/21/2013 KBS



RACER TRUST
COLDWATER ROAD LANDFILL FACILITY
FLINT, MICHIGAN

SITE LOCATION MAP

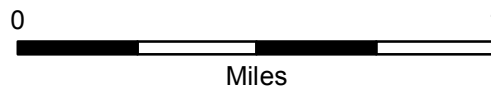




FIGURE 2

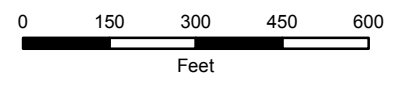


LEGEND

-  LEACHATE COLLECTION SUMP
-  ACCESS PORT FOR LEAK DETECTION VAULT

RACER TRUST
COLDWATER ROAD
LANDFILL FACILITY
FLINT, MICHIGAN

SITE LAYOUT



DECEMBER 2012
15388/48630-002



10781PROJECTS\RACER-15388\48630\DOC\RPT\INSP-SEC\013.MXD




PLOT DATE: 1/23/2013 KBS



FIGURE 3

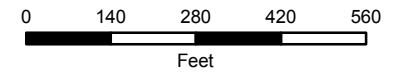


LEGEND

-  LEACHATE COLLECTION SUMP
-  ACCESS PORT FOR LEAK DETECTION VAULT
-  MONITORING WELL LOCATION
-  FENCE REPAIR
-  SHALLOW ROAD RUTS
-  ANIMAL BURROW LOCATION

RACER TRUST
 COLDWATER ROAD
 LANDFILL FACILITY
 FLINT, MICHIGAN

**2012
 INCIDENT LOCATION
 MAP**



DECEMBER 2012
 15388/48630-003



MAP USES DATA FROM THE MICHIGAN CENTER FOR GEOGRAPHIC INFORMATION

ATTACHMENT A
Inspection Logs

Quarterly Post Closure Inspection Log Sheet
 Coldwater Road Landfill Site – Operations and Maintenance
 Flint, Michigan
 Project No. 39196

Inspector's Name/Title Clifford S. Yank

Inspector's Signature/Date/Time *Clifford Yank* 3/26/12 9:00-4:00
Am Pm

Cap and Berm

Inspect the landfill cap and berms for burrowing animals, soil erosion, slope failures, ponding, washouts, and liner damage/exposure. Indicate the presence or absence of each item. Note identified issues on an attached drawing.

Area of Inspection	Animal Burrows?	Soil Erosion	Slope Failures?	Ponding?	Washouts?	Liner damage or exposure?	If yes to any, describe issue, location, and actions taken
Cell A	No	No	No	No	No	No	—
Cell B	Yes	No	No	No	No	No	3 animal burrows right on the edge of C1 at B1 about half way up slope traps set at 2 of the 3
Cell C	Yes	No	No	No	No	No	mole holes/tracks in southern area of
Cell D	No	No	No	No	No	No	—
Cell E	No	No	No	No	No	No	—
Cell F	Yes	No	No	No	No	No	Animal burrow at east end of F4 - trap set.
Berms	No	No	No	No	No	No	—
Eastern Access Road	Yes	Yes	No	No	No	No	Animal burrow off of Land fill in access road above culvert in Cell D area some erosion due to burrow - Burrow does not appear active.

also mole holes/tracks in C4 area

Woody Plant Removal Activities

Summarize monthly activities:

No woody plant removal to speak of this quarter as it's the winter quarter. Inspected for woody plants and we will schedule several days of woody plant removal for early April. For the most part there are very few woody plants visible on the landfill cover. The east slope needs the most attention from D4 → B3 area. Woody plants aren't bad in this area but of any area there are several that need removal.

Leachate Tank Storage

Inspect for evidence of leakage, and presence of drums, sandbags, shovels at each leachate tank storage location.

Tank

- Cracks or holes observed in tank? No Yes
- Liquid dripping or running from tank? No Yes
- Staining observed on the tank surface? No Yes

Piping

- Is piping sagging, cracked or punctured? No Yes
- Liquid dripping or running from piping? No Yes
- Is the tank discharge valve closed and locked? No Yes *except during discharging*
- Staining observed on the piping surface? No Yes

Emergency Response

- Are drums present in accumulation building? No Yes
- Are sandbags present in accumulation building? No Yes *but we have sorpant booms, oil dry etc for building.*
- Are shovels present in accumulation building? No Yes

Vegetation

Inspect landfill cap and berm for areas with sparse vegetation, deep-rooted plants and proper height around equipment and access roads. Describe any identified issues and note on an attached drawing. If no issues are found, indicate "none" in the appropriate box.

Cell	Areas with sparse vegetation present?	Deep-rooted plants present?	Areas around building and equipment mowed?	Access roads mowed and in good condition?
A	None	None	Yes	Yes
B	↓	Few (3-4) at NW corner of B2 B3 area needs attention	↓	↓
C		C4 area needs Attention		
D		D4 area needs Attention		
E		E4 & E3 may have a few		
F		None		
Berms		↓		
	→ Suggest that we cut trees/brush east of eastern access road to fence line to avoid wind blown seeds from these areas. Same south of landfill, and the RR area west of landfill.			

Access Roads

Inspect for sufficient gravel and proper drainage. Note identified issues on an attached drawing.

Area	Sufficient gravel present?	Proper drainage present?	If no, describe
Roads located approx. west of landfill	Yes	Yes	
Roads located approx. east of landfill	Some areas could use more gravel, but this area not accessed often	↓	
Roads located approx. north of wetlands	Some gravel could be used, but even not accessed often		
Roads located approx. south of wetlands	Yes		
Roads located approx. west of wetlands	Yes		
Roads located approx. east of wetlands	Yes		

Site Perimeter Fence

Inspect all perimeter fencing and gates for damage or unauthorized entry, and proper warning signs. Note identified issues on an attached drawing.

Area	Any damage present?	Signs of unauthorized entry?	Broken or damaged locks on gates?	"Trespassing Prohibited" and "Private Property" Signs Posted?
Fences along north property line	No	No	No	Yes - possibly could use a few more
Fences along south property line	No	No	No	Yes
Fences along west property line	Yes to barb wire only as noted on attached map	No	No	Yes ←
Fences along east property line	one small area noted on attached map has one strand of barb wire missing	No	No	Yes

Leachate Collection System

Conduct the alarm test, cable test and battery test on a yearly basis as outlined in Section 4 of the post Closure Care Plan. Inspect the system panel boxes for visible signs of damage.

Alarm Test

1. Disconnect the sensor cable.
2. Reconnect the sensor cable. Alarm will reset.

Cable Test

1. Wet a short length of cable to activate the alarm by wetting a section of the cable stored in the containment vault.
2. Dry the cable after the test.

Alarm Test		Cable Test	
Did the system show a fault in the cable?	Was the alarm activated?	Was the alarm activated?	Any damage noted to system panel boxes?

Battery Test

1. Turn the power off.
2. Remove the processor card.
3. Remove the battery jumper.
4. Is the voltage across the terminals is < 3.6 VDC?
5. If yes, replace the battery.

Kevin Schneider conducted these tests earlier in March see his notes.

Remaining Materials Area

Inspect the soil cover for deep root penetration, burrowing animals, soil erosion, ponding of water and slope failures. Note problems on an attached drawing.

Area of Inspection	Animal Burrows?	Soil Erosion	Slope Failures?	Ponding?	Washouts?	If yes to any, describe issue, location, and actions taken
RMA	No	No	No	Yes, but this is the pond that has always existed	No	

Drainage Inspections

Inspect the perimeter of the landfill and berm, drainage trenches at the base of the landfill, RMA and wetlands area for potential drainage problems. Check culverts around landfill, western drainage swale and north landfill catch basin for blockage.

Area Inspected	Drainage problem or blockage observed?	Location (note on figure)	Description	Corrective Actions
Perimeter of landfill and berm	No	—	—	—
Drainage trenches at base of landfill	No	—	—	—
RMA	No	—	—	—
Wetlands area	No	—	—	—
Culverts around landfill	Yes	see map (attached)	discharge of culvert in NW corner of C1 needs gravel removed from inside pipe	Will remove gravel from pipe next discharge during visit
Western drainage swale	No	—	—	—
North landfill catch basin	No	—	—	—

2nd qtr
Quarterly Post Closure Inspection Log Sheet
 Coldwater Road Landfill Site – Operations and Maintenance
 Flint, Michigan
 Project No. 47850

Inspector's Name/Title Kevin Schneider - Scientist / Todd Kone

Inspector's Signature/Date/Time [Signature] 4/5/12 + 5/21/12 - 5/23/12

Cap and Berm

Inspect the landfill cap and berms for burrowing animals, soil erosion, slope failures, ponding, washouts, and liner damage/exposure. Indicate the presence or absence of each item. Note identified issues on an attached drawing.

Area of Inspection	Animal Burrows?	Soil Erosion	Slope Failures?	Ponding?	Washouts?	Liner damage or exposure?	If yes to any, describe issue, location, and actions taken
Cell A	No	No	No	No	No	No	
Cell B	Yes cells B1, B3	No	No	No	No	No	Traps set up. Animal trapped @ B1, burrow filled in
Cell C	No	No	No	No	No	No	
Cell D	No	No	No	No	No	No	
Cell E	No	No	No	No	No	No	
Cell F	Yes cells F4	No	No	No	No	No	
Berms	No	No	No	No	No	No	Trap set up. no activity burrow filled in

Woody Plant Removal Activities

Summarize monthly activities:

Inspected landfill cap & removed woody plants throughout quarter

Leachate Tank Storage

Inspect for evidence of leakage, and presence of drums, sandbags, shovels at each leachate tank storage location.

Tank

Cracks or holes observed in tank? No X Yes ___
 Liquid dripping or running from tank? No X Yes ___
 Staining observed on the tank surface? No X Yes ___

Piping

Is piping sagging, cracked or punctured? No X Yes ___
 Liquid dripping or running from piping? No X Yes ___
 Is the tank discharge valve closed and locked? No ___ Yes X
 Staining observed on the piping surface? No X Yes ___

Emergency Response

Are drums present in accumulation building? No X Yes ___
 Are sandbags present in accumulation building? No X Yes ___ *→ spill kit onsite*
 Are shovels present in accumulation building? No ___ Yes X

Vegetation

Inspect landfill cap and berm for areas with sparse vegetation, deep-rooted plants and proper height around equipment and access roads. Describe any identified issues and note on an attached drawing. If no issues are found, indicate "none" in the appropriate box.

Cell	Areas with sparse vegetation present?	Deep-rooted plants present?	Areas around building and equipment mowed?	Access roads mowed and in good condition?
A	No	Yes, Removed during inspection	No scheduled for next quarter	No
B	No	↓		
C	No			
D	No			
E	No			
F	No			
Berms	No			

Access Roads

Inspect for sufficient gravel and proper drainage. Note identified issues on an attached drawing.

Area	Sufficient gravel present?	Proper drainage present?	If no, describe
Roads located approx. west of landfill	Yes	Yes	
Roads located approx. east of landfill	ruts in roads east + south of landfill	Yes	
Roads located approx. north of wetlands	Yes	Yes	
Roads located approx. south of wetlands	Yes	Yes	
Roads located approx. west of wetlands	Yes	Yes	
Roads located approx. east of wetlands	Yes	Yes	

Site Perimeter Fence

Inspect all perimeter fencing and gates for damage or unauthorized entry, and proper warning signs. Note identified issues on an attached drawing.

Area	Any damage present?	Signs of unauthorized entry?	Broken or damaged locks on gates?	"Tresspassing Prohibited" and "Private Property" Signs Posted?
Fences along north property line	No	No	No	Yes
Fences along south property line	No	No	No	Yes
Fences along west property line	No	No	No	Yes
Fences along east property line	No	No	No	Yes

Leachate Collection System

Conduct the alarm test, cable test and battery test on a yearly basis as outlined in Section 4 of the post Closure Care Plan. Inspect the system panel boxes for visible signs of damage.

Alarm Test

1. Disconnect the sensor cable.
2. Reconnect the sensor cable. Alarm will reset.

Cable Test

1. Wet a short length of cable to activate the alarm by wetting a section of the cable stored in the containment vault.
2. Dry the cable after the test.

Alarm Test		Cable Test	Any damage noted to system panel boxes?
Did the system show a fault in the cable?	Was the alarm activated?	Was the alarm activated?	

Battery Test

1. Turn the power off.
2. Remove the processor card.
3. Remove the battery jumper.
4. Is the voltage across the terminals is < 3.6 VDC?
5. If yes, replace the battery.

** Issue with alarm system, will be repaired*

Remaining Materials Area

Inspect the soil cover for deep root penetration, burrowing animals, soil erosion, ponding of water and slope failures. Note problems on an attached drawing.

Area of Inspection	Animal Burrows?	Soil Erosion	Slope Failures?	Ponding?	Washouts?	If yes to any, describe issue, location, and actions taken
RMA	No	No	No	No	No	

Drainage Inspections

Inspect the perimeter of the landfill and berm, drainage trenches at the base of the landfill, RMA and wetlands area for potential drainage problems. Check culverts around landfill, western drainage swale and north landfill catch basin for blockage.

Area Inspected	Drainage problem or blockage observed?	Location (note on figure)	Description	Corrective Actions
Perimeter of landfill and berm	No			
Drainage trenches at base of landfill	No			
RMA	No			
Wetlands area	No			
Culverts around landfill	No			
Western drainage swale	No			
North landfill catch basin	No			

2nd Qrt 2012

1076 PROJECTS 1588 RACES TRAIL AND WETLANDS REPORTS 03/27 SEV ANNUAL FIGURE 002 1/00

PLOT DATE 7/29/2012 10A

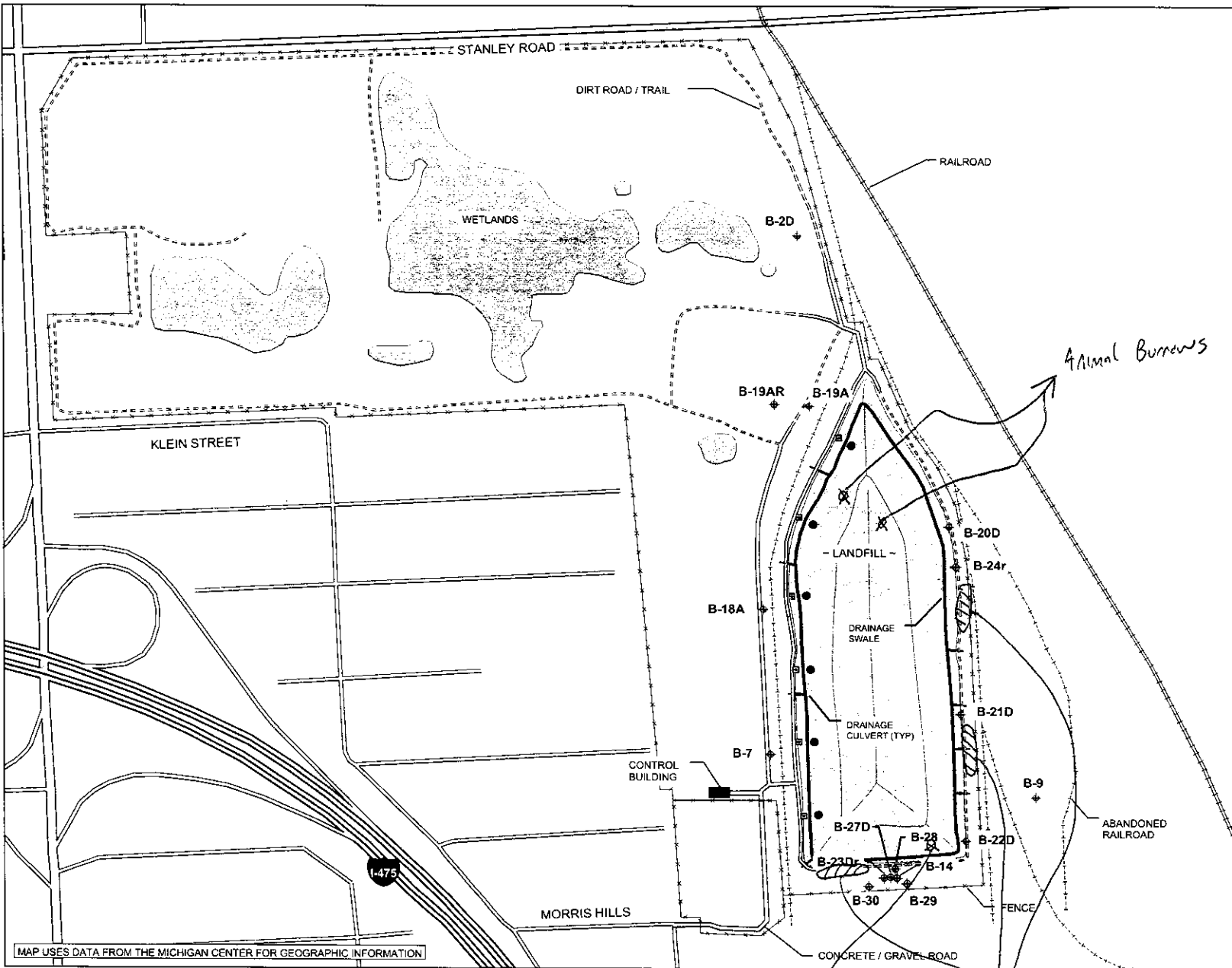


FIGURE 2

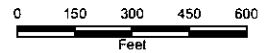


LEGEND

- LEACHATE COLLECTION SUMP
- ⊠ ACCESS PORT FOR LEAK DETECTION VAULT
- ⊕ MONITORING WELL
- ⊕ ABANDONED WELL

RACER TRUST
COLDWATER ROAD
LANDFILL FACILITY
FLINT, MICHIGAN

SITE LAYOUT



O'BRIEN & GERE
ENGINEERS, INC.

JULY 2012
151381646/010/002

MAP USES DATA FROM THE MICHIGAN CENTER FOR GEOGRAPHIC INFORMATION

3rd qtr
Quarterly Post Closure Inspection Log Sheet
 Coldwater Road Landfill Site – Operations and Maintenance
 Flint, Michigan
 Project No. 47850

Inspector's Name/Title Kevin Schneider - Scientist

Inspector's Signature/Date/Time [Signature] 9/18/12 + 9/28/12

Cap and Berm

Inspect the landfill cap and berms for burrowing animals, soil erosion, slope failures, ponding, washouts, and liner damage/exposure. Indicate the presence or absence of each item. Note identified issues on an attached drawing.

Area of Inspection	Animal Burrows?	Soil Erosion	Slope Failures?	Ponding?	Washouts?	Liner damage or exposure?	If yes to any, describe issue, location, and actions taken
Cell A	No	No	No	No	No	No	
Cell B	No	No	No	No	No	No	
Cell C	No	No	No	No	No	No	
Cell D	No	No	No	No	No	No	
Cell E	No	No	No	No	No	No	
Cell F	No	No	No	No	No	No	
Berms	No	No	No	No	No	No	

Woody Plant Removal Activities

Summarize monthly activities:

Inspected landfill cap & removed woody plants throughout quarter

Leachate Tank Storage

Inspect for evidence of leakage, and presence of drums, sandbags, shovels at each leachate tank storage location.

Tank

- Cracks or holes observed in tank? No Yes ___
- Liquid dripping or running from tank? No Yes ___
- Staining observed on the tank surface? No Yes ___

Piping

- Is piping sagging, cracked or punctured? No Yes ___
- Liquid dripping or running from piping? No Yes ___
- Is the tank discharge valve closed and locked? No ___ Yes
- Staining observed on the piping surface? No Yes ___

Emergency Response

- Are drums present in accumulation building? No Yes ___
- Are sandbags present in accumulation building? No Yes ___ *→ Spill Kit present*
- Are shovels present in accumulation building? No ___ Yes

Vegetation

Inspect landfill cap and berm for areas with sparse vegetation, deep-rooted plants and proper height around equipment and access roads. Describe any identified issues and note on an attached drawing. If no issues are found, indicate "none" in the appropriate box.

Cell	Areas with sparse vegetation present?	Deep-rooted plants present?	Areas around building and equipment mowed?	Access roads mowed and in good condition?
A	No	Yes, removed during inspections	Yes	Yes
B	No	↓		
C	No			
D	No			
E	No			
F	No			
Berms	No			

Access Roads

Inspect for sufficient gravel and proper drainage. Note identified issues on an attached drawing.

Area	Sufficient gravel present?	Proper drainage present?	If no, describe
Roads located approx. west of landfill	Yes	Yes	
Roads located approx. east of landfill	Yes	Yes	
Roads located approx. north of wetlands	Yes	Yes	
Roads located approx. south of wetlands	Yes	Yes	
Roads located approx. west of wetlands	Yes	Yes	
Roads located approx. east of wetlands	Yes	Yes	

Site Perimeter Fence

Inspect all perimeter fencing and gates for damage or unauthorized entry, and proper warning signs. Note identified issues on an attached drawing.

Area	Any damage present?	Signs of unauthorized entry?	Broken or damaged locks on gates?	"Trespassing Prohibited" and "Private Property" Signs Posted?
Fences along north property line	No	No	No	Yes
Fences along south property line	No	No	No	Yes
Fences along west property line	Yes ³ holes found in perimeter fence	No	No	Yes
Fences along east property line	No	No	No	Yes

Leachate Collection System

Conduct the alarm test, cable test and battery test on a yearly basis as outlined in Section 4 of the post Closure Care Plan. Inspect the system panel boxes for visible signs of damage.

Alarm Test

1. Disconnect the sensor cable.
2. Reconnect the sensor cable. Alarm will reset.

Cable Test

1. Wet a short length of cable to activate the alarm by wetting a section of the cable stored in the containment vault.
2. Dry the cable after the test.

Alarm Test		Cable Test	
Did the system show a fault in the cable?	Was the alarm activated?	Was the alarm activated?	Any damage noted to system panel boxes?

Battery Test

1. Turn the power off.
2. Remove the processor card.
3. Remove the battery jumper.
4. Is the voltage across the terminals is < 3.6 VDC?
5. If yes, replace the battery.

* Alarm system down for repair

Remaining Materials Area

Inspect the soil cover for deep root penetration, burrowing animals, soil erosion, ponding of water and slope failures. Note problems on an attached drawing.

Area of Inspection	Animal Burrows?	Soil Erosion	Slope Failures?	Ponding?	Washouts?	If yes to any, describe issue, location, and actions taken
RMA	No	No	No	No	No	

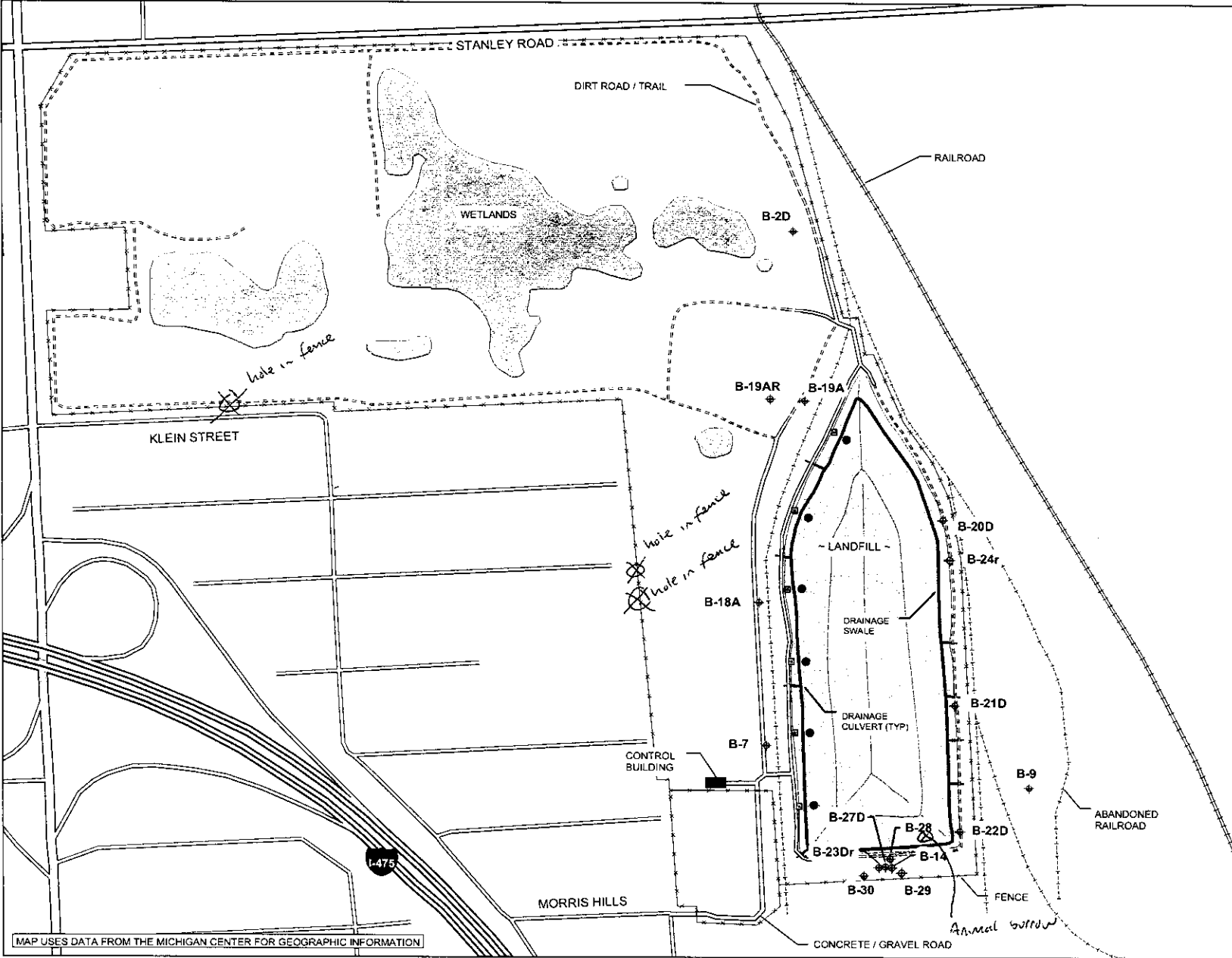
Drainage Inspections

Inspect the perimeter of the landfill and berm, drainage trenches at the base of the landfill, RMA and wetlands area for potential drainage problems. Check culverts around landfill, western drainage swale and north landfill catch basin for blockage.

Area Inspected	Drainage problem or blockage observed?	Location (note on figure)	Description	Corrective Actions
Perimeter of landfill and berm	No			
Drainage trenches at base of landfill	No			
RMA	No			
Wetlands area	No			
Culverts around landfill	minor vegetation		patches of grass	
Western drainage swale	No			
North landfill catch basin	NO			

4079 PROJECT 1538 RACER TRUST LANDFILL REPORTS 2017 SEP ANNUAL FIGURE 02 PND

PLOT DATE 7/23/2015



MAP USES DATA FROM THE MICHIGAN CENTER FOR GEOGRAPHIC INFORMATION

FIGURE 2

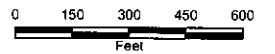


LEGEND

- LEACHATE COLLECTION SUMP
- ⊠ ACCESS PORT FOR LEAK DETECTION VAULT
- ⊕ MONITORING WELL
- ⊕ ABANDONED WELL

RACER TRUST
COLDWATER ROAD
LANDFILL FACILITY
FLINT, MICHIGAN

SITE LAYOUT



JULY 2012
15380146120002

Quarterly Post Closure Inspection Log Sheet
 Coldwater Road Landfill Site – Operations and Maintenance
 Flint, Michigan
 Project No. 48630

Inspector's Name/Title John O'Neill - Scientist

Inspector's Signature/Date/Time John O'Neill ~~11/10/2012~~
 4:00 PM 12/10/2012

Cap and Berm

Inspect the landfill cap and berms for burrowing animals, soil erosion, slope failures, ponding, washouts, and liner damage/exposure. Indicate the presence or absence of each item. Note identified issues on an attached drawing.

Area of Inspection	Animal Burrows?	Soil Erosion	Slope Failures?	Ponding?	Washouts?	Liner damage or exposure?	If yes to any, describe issue, location, and actions taken
Cell A	NO	NO	NO	NO	NO	NO	—
Cell B	NO	NO	NO	NO	NO	NO	—
Cell C	NO	NO	NO	NO	NO	NO	—
Cell D	NO	NO	NO	NO	NO	NO	—
Cell E	NO	NO	NO	NO	NO	NO	—
Cell F	NO	NO	NO	NO	NO	NO	—
Berms	NO	NO	NO	NO	NO	NO	—
	NO	NO	NO	NO	NO	NO	—

Woody Plant Removal Activities

Summarize monthly activities:

Two small FIREWOOD? PLANTS 11/10/2012, 1 in cell E (E3),
1 in cell B (B3) (B2)

Leachate Tank Storage

Inspect for evidence of leakage, and presence of drums, sandbags, shovels at each leachate tank storage location.

Tank

- Cracks or holes observed in tank? No Yes ___
- Liquid dripping or running from tank? No Yes ___
- Staining observed on the tank surface? No Yes ___

Piping

- Is piping sagging, cracked or punctured? No Yes ___
- Liquid dripping or running from piping? No Yes ___
- Is the tank discharge valve closed and locked? No ___ Yes
- Staining observed on the piping surface? No Yes ___

Emergency Response

- Are drums present in accumulation building? No Yes ___
- Are sandbags present in accumulation building? No Yes ___
- Are shovels present in accumulation building? No ___ Yes

Vegetation

Inspect landfill cap and berm for areas with sparse vegetation, deep-rooted plants and proper height around equipment and access roads. Describe any identified issues and note on an attached drawing. If no issues are found, indicate "none" in the appropriate box.

Cell	Areas with sparse vegetation present?	Deep-rooted plants present?	Areas around building and equipment mowed?	Access roads mowed and in good condition?
A	NO	NO	yes	yes
B	NO	"	"	"
C	NO	"	"	"
D	NO	"	"	"
E	YES - AREAS WHERE DRAINS WERE INSTALLED HAVE BEEN SEEDED, MULCHED & STABILIZED	NO	"	"
F	NO	"	"	"
Berms	NO	NO	#	"
			#	

Access Roads

Inspect for sufficient gravel and proper drainage. Note identified issues on an attached drawing.

Area	Sufficient gravel present?	Proper drainage present?	If no, describe
Roads located approx. west of landfill	yes	yes	
Roads located approx. east of landfill	ROADS ARE MOSTLY DIRT ON THIS SIDE	yes	
Roads located approx. north of <u>wetlands</u>	yes DIRT	NO yes ^{water} ponds along	WATER PONDS JUST EAST OF DAW STATION
Roads located approx. south of <u>wetlands</u>	ROADS ARE MOSTLY DIRT	yes	SOME PONDING- JUST NORTH OF THE SMALL POND IN THE FORMER LAGOON AREA
Roads located approx. west of <u>wetlands</u>	DIRT	yes	
Roads located approx. east of <u>wetlands</u>	DIRT	yes	

Site Perimeter Fence

Inspect all perimeter fencing and gates for damage or unauthorized entry, and proper warning signs. Note identified issues on an attached drawing.

Area	Any damage present?	Signs of unauthorized entry?	Broken or damaged locks on gates?	"Trespassing Prohibited" and "Private Property" Signs Posted?
Fences along north property line	NO	NO	NO	yes
Fences along south property line	NO	NO	NO	yes
Fences along west property line	NO*	NO	NO	yes
Fences along east property line	NO	NO	NO	yes

SOME AREAS WHERE BARB WIRE ALONG THE TOP OF THE FENCE IS MISSING

Leachate Collection System

Conduct the alarm test, cable test and battery test on a yearly basis as outlined in Section 4 of the post Closure Care Plan. Inspect the system panel boxes for visible signs of damage.

Alarm Test

1. Disconnect the sensor cable.
2. Reconnect the sensor cable. Alarm will reset.

Cable Test

1. Wet a short length of cable to activate the alarm by wetting a section of the cable stored in the containment vault.
2. Dry the cable after the test.

Alarm Test		Cable Test	
Did the system show a fault in the cable?	Was the alarm activated?	Was the alarm activated?	Any damage noted to system panel boxes?

Battery Test

1. Turn the power off.
2. Remove the processor card.
3. Remove the battery jumper.
4. Is the voltage across the terminals is < 3.6 VDC?
5. If yes, replace the battery.

Remaining Materials Area

Inspect the soil cover for deep root penetration, burrowing animals, soil erosion, ponding of water and slope failures. Note problems on an attached drawing.

Area of Inspection	Animal Burrows?	Soil Erosion	Slope Failures?	Ponding?	Washouts?	If yes to any, describe issue, location, and actions taken
RMA	NO	NO	NO	NO	NO	—

Drainage Inspections

Inspect the perimeter of the landfill and berm, drainage trenches at the base of the landfill, RMA and wetlands area for potential drainage problems. Check culverts around landfill, western drainage swale and north landfill catch basin for blockage.

Area Inspected	Drainage problem or blockage observed?	Location (note on figure)	Description	Corrective Actions
Perimeter of landfill and berm	NO			
Drainage trenches at base of landfill	NO			
RMA	NO			
Wetlands area	NO			
Culverts around landfill	NO			
Western drainage swale	NO			
North landfill catch basin	NO			

ALTHOUGH THERE ARE NO BLOCKAGES, THERE ARE PORTIONS OF THE DRAINAGE TRENCH AT THE BASE OF THE LANDFILL WHERE VEGETATION HAS ENCRUSTED AND MAY CREATE PROBLEMS IN THE FUTURE

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