

OBG

2015 ANNUAL REPORT – FINAL REPORT

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

**RACER TRUST
Detroit, Michigan**

February 2016

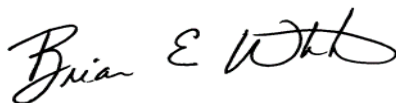


FEBRUARY 2016 | CLIENT # 15388 | PROJECT # 60794

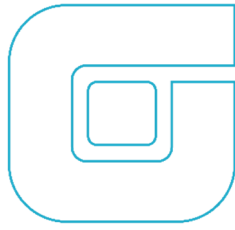
**Landfill Inspection
Coldwater Road Landfill
MID 005 356 860**

Flint, Michigan

Prepared for: RACER Trust
Detroit, Michigan



BRIAN E. WHITE, PE
SENIOR VICE PRESIDENT
O'BRIEN & GERE ENGINEERS, INC.



February 26, 2016

Mr. Richard Conforti, P.E.
Environmental Engineer
Michigan Department of Environmental Quality
Office of Waste Management and Radiological Protection
P.O. Box 30473
Lansing, Michigan 48909-7973

RE: 2015 Annual Landfill Inspection Report
Coldwater Road Landfill, Flint, Michigan
MID 005 356 860
FILE: 15388 /60794/rep

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 2015 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 Appendix A. A Site Location Map (Figure 1), a Site Layout (Figure 2), and a 2015 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 2015 quarterly inspections. The following is a summary of the issues encountered on the cap and berms during the 2015 quarterly inspections.



Several hundred woody-stemmed plants were removed by the root from the landfill cap between March 2015 and December 2015.

Three animal burrows were identified and closed throughout the year. The 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 of the animal burrows. Animals were either trapped or the burrow was deemed inactive and filled in. 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 and seeded.

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. Shallow ruts in the road were observed along the north perimeter road during the 1st quarterly inspection. During the 2nd quarterly inspection the roadway near the northwest catch basin was flooded. The shallow ruts were repaired on August 4, 2015. The wet section of road was avoided until the road was dry. No other problems to the access roads were observed during 2015.

SITE PERIMETER FENCING AND GATES

Damage to the site perimeter fence was noted at three locations during the 3rd and 4th quarterly inspections. During the 3rd quarter inspection, one previously repaired hole was reopened along the west perimeter fence. During the 4th quarter inspection, two previously repaired hole were reopened along the west and southwest perimeter fence, and one hole was located along the east perimeter fence.

The holes in the perimeter fence were repaired on September 24, 2015 and December 17, 2015.

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

The PermAlert automated leak detection alarm was tested during each quarterly inspection. The alarm was found to be operating during the each of the quarterly inspections.

VAULT LIQUID REMOVAL

The leak detection vaults were pumped out monthly during the year. Pre the revised Post Closure Care Plan October 2014, dewatering occurred on an every other month basis unless more than 300 gallons of liquid were removed from a vault during a dewatering event. If more than 300 gallons were removed from a vault, then that vault was dewatered the following month and continued to be dewatered on a monthly basis until less than 150

gallons were removed during a single dewatering event, after which dewatering for that vault reverted back to every other month. If three or more vaults had more than 300 gallons removed during a dewatering event, then the next monthly dewatering event included all the vaults. The volumes of liquid evacuated from each cell are provided in Table 1 and were reported in the Quarterly Status Reports.

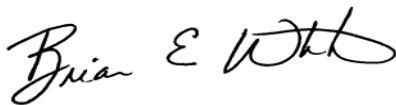
DRAINAGE INSPECTION

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 2015.

This summary of the quarterly inspections fulfills the annual inspection reporting requirements for 2015. If you have any questions, feel free to contact either of us at (248) 477-5701.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.



Brian E. White, PE
Senior Vice President

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.



Clifford S. Yantz
Scientist-3

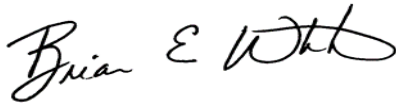
ENCLOSURES:

Table 1 – Liquid Volumes Removed in 2015
Figure 1 – Site Location Map
Figure 2 – Site Layout
Figure 3 – Incident Location Map
Appendix A – Inspection Logs

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



Brian E. White, PE
Senior Vice President – O'Brien & Gere Engineers, Inc.

Agent for RACER Trust

Date: February 26, 2016

cc: file



TABLE



TABLE 1**RACER Trust - Coldwater Road Landfill Facility****Liquid Volumes Removed from LDS Vaults in 2015**

<i>Date</i>	<i>VAULT</i>	<i>VAULT</i>	<i>VAULT</i>	<i>VAULT</i>	<i>VAULT</i>	<i>VAULT</i>	<i>TOTAL LDS</i>
<i>2015</i>	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>GALLONS</i>
13-Jan-15	135	223	27	44	860	40	1,329
25-Feb-15	--	--	--	--	825	--	825
17-Mar-15	70	130	28	6	414	23	671
16-Apr-15	--	--	--	--	568	--	568
14-May-15	114	208	31	60	631	36	1,080
19-Jun-15	--	--	--	--	413	--	413
17-Jul-15	301	314	82	67	786	6	1,556
11-Aug-15	140	115	80	61	334	8	738
24-Sep-15	--	--	--	--	454	--	454
16-Oct-15	97	235	141	142	341	21	977
15-Nov-15	--	--	--	--	203	--	203
15-Dec-15	183	215	68	78	423	100	1,067
YEAR END TOTAL	1,040	1,440	457	458	6,252	234	9,881

Notes

Liquid volumes in gallons.

LDS - Leak Detection System

Pre the revised Post Closure Care Plan October 2014, dewatering occurred on an every other month basis unless more than 300 gallons of liquid were removed from a vault during a dewatering event. If more than 300 gallons were removed from a vault, then that vault was dewatered the following month and continued to be dewatered on a monthly basis until less than 150 gallons were removed during a single dewatering event, after which dewatering for that vault reverted back to every other month. If three or more vaults had more than 300 gallons removed during a dewatering event, then the next monthly dewatering event included all the vaults.



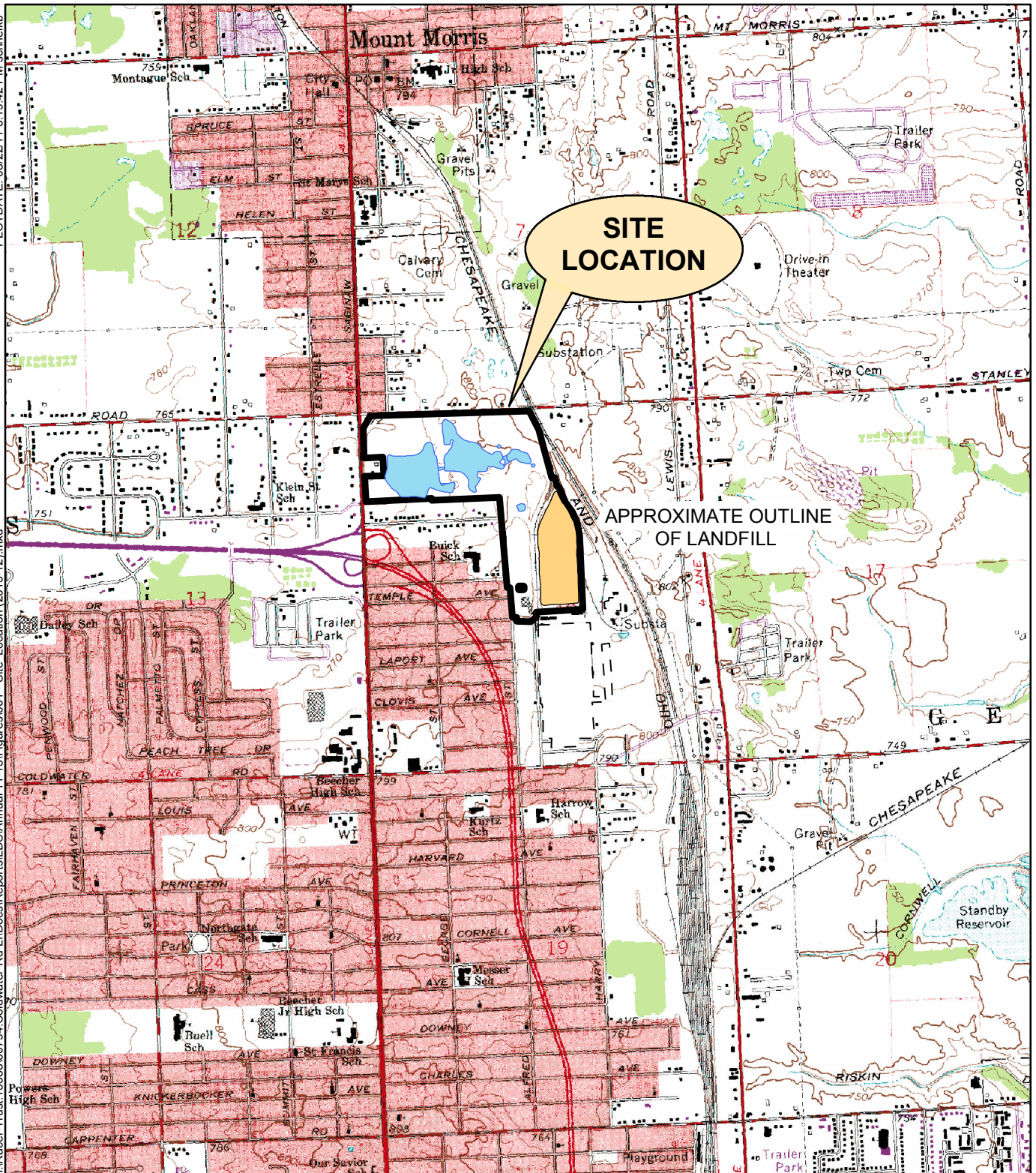


FIGURES



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**RACER TRUST
COLDWATER ROAD LANDFILL FACILITY
FLINT, MICHIGAN**

SITE LOCATION MAP

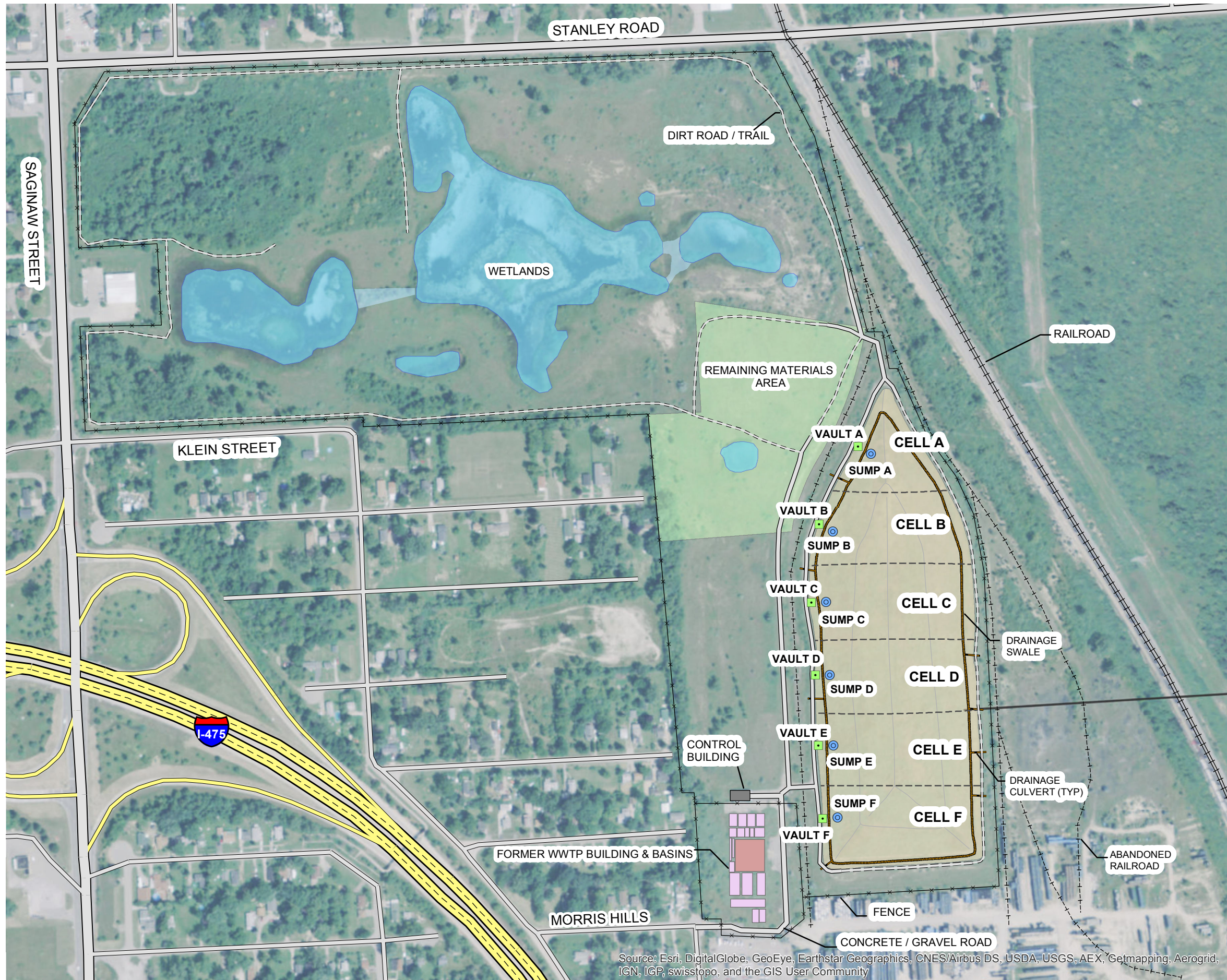


Miles





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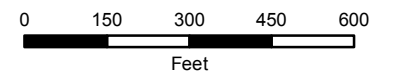


LEGEND

-  LEACHATE COLLECTION SUMP
-  ACCESS PORT FOR LEAK DETECTION VAULT

**RACER TRUST
COLDWATER ROAD
LANDFILL FACILITY
FLINT, MICHIGAN**

SITE LAYOUT



15388/60794-002
DECEMBER 2015

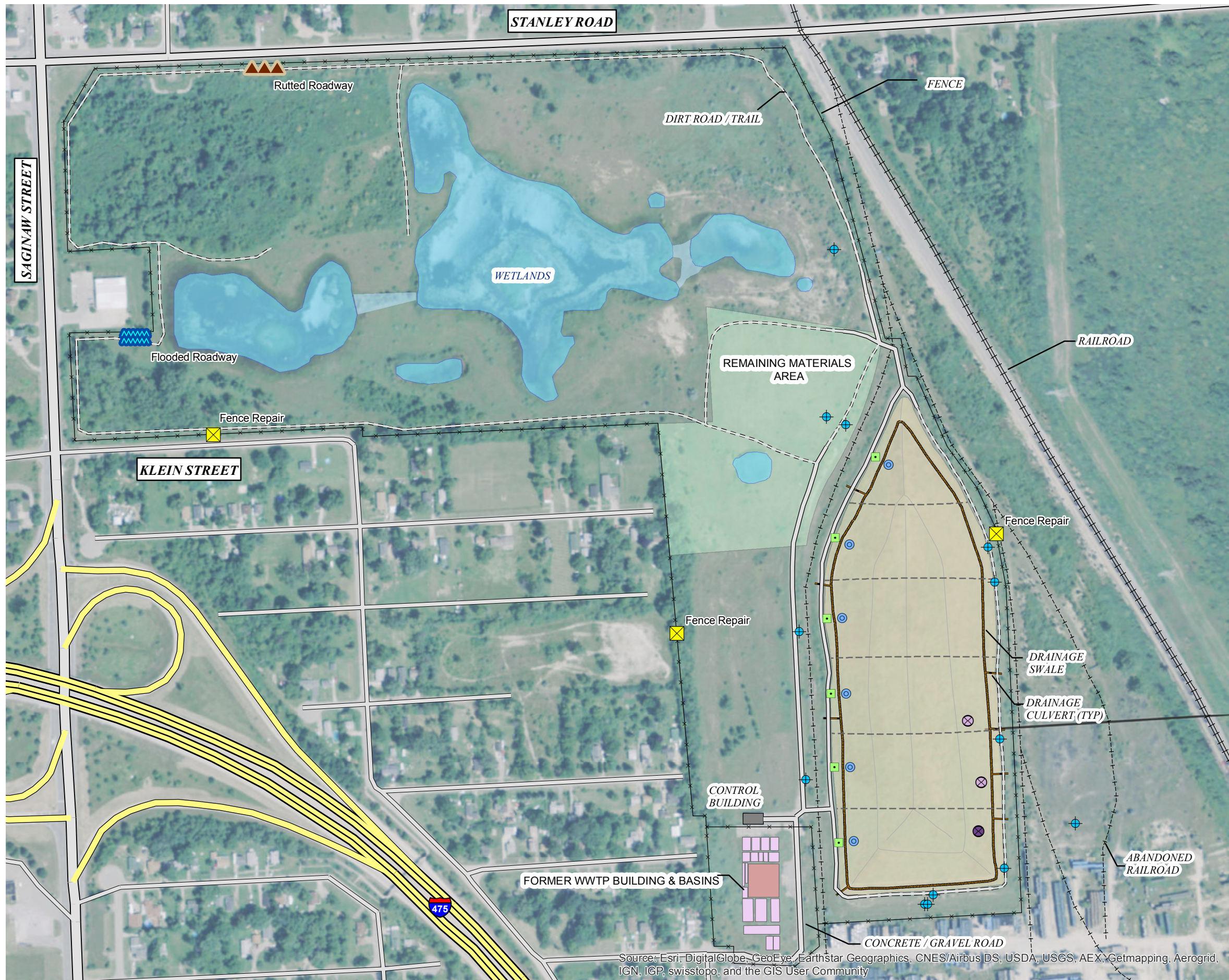


O'BRIEN & GERE ENGINEERS, INC.

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

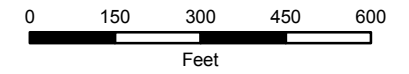


LEGEND

- LEACHATE COLLECTION SUMP
- ACCESS PORT FOR LEAK DETECTION VAULT
- MONITORING WELL LOCATION
- FENCE REPAIR
- FLOODED ROADWAY
- RUTTED ROADWAY
- ANIMAL BURROW LOCATION 3RD QUARTER
- ANIMAL BURROW LOCATION 4TH QUARTER

RACER TRUST
COLDWATER ROAD
LANDFILL FACILITY
FLINT, MICHIGAN

**2015
INCIDENT LOCATION
MAP**



15388/60794
JANUARY 2016



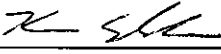
O'BRIEN & GERE ENGINEERS, INC.



APPENDIX A
Inspection Logs

Quarterly Post Closure Inspection Log Sheet
Coldwater Road Landfill Site – Operations and Maintenance
Flint, Michigan
Project No. 60794

Inspector's Name/Title Kevin Schneider

Inspector's Signature/Date/Time  3/18/15

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	Date Corrected
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:

A few woody plants were spotted and pulled during inspection
2/3 of landfill cap is covered with dead tall weeds

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 ___

If yes to any, describe issue, location, and actions taken	Date Corrected

Piping

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

If yes to any, describe issue, location, and actions taken	Date Corrected

Emergency Response

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

If no to any, describe issue, location, and actions taken	Date Corrected

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?	Do areas around building and equipment need to be mowed?	Do access roads need to be mowed?	If yes, describe issue, and actions taken	Date Corrected
A	No	No	No	No		
B	↓	↓	↓	↓		
C						
D						
E						
F						
Berms						

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 issue, and actions taken	Date Corrected
Roads located approx. west of landfill	Yes	Yes		
Roads located approx. east of landfill	Yes	Yes		
Roads located approx. north of wetlands	No	No Ruts along north perimeter Road.	Will repair and cut when tractor is rented	Repaired 8/4/15
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 Missing?	If yes to any, describe issue, and actions taken	Date Corrected
Fences along north property line	No	No	No	No		
Fences along south property line	↓	↓	↓	↓		
Fences along west property line	↓	↓	↓	↓		
Fences along east property line	↓	↓	↓	↓		

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?
			No

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.

Describe any issues and actions taken	Date Corrected

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	Date Corrected
RMA	No	No	No	No	No		

1st Qtr 2015
3/18/15

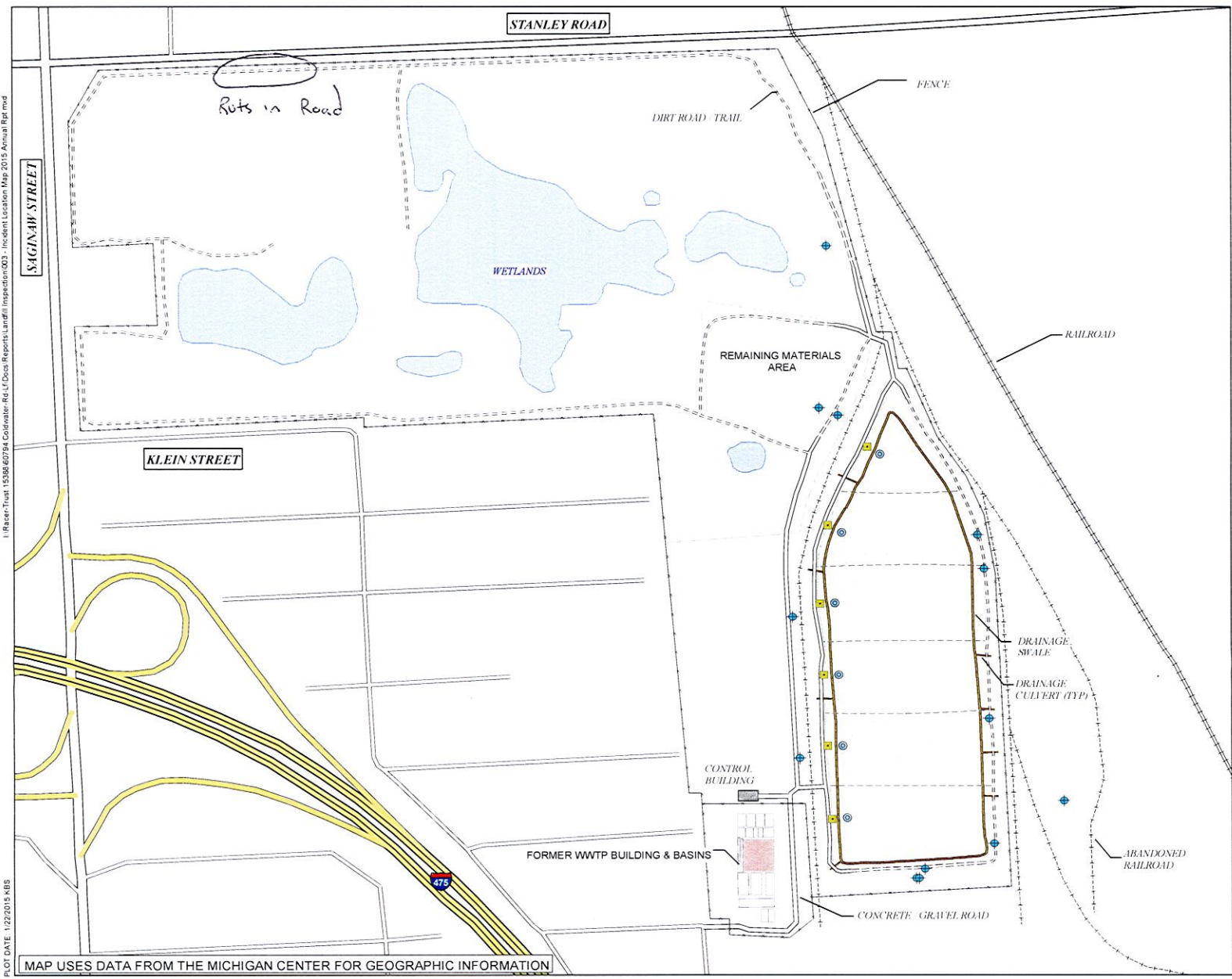


FIGURE 1

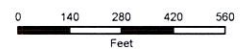


LEGEND

- ⊙ LEACHATE COLLECTION SUMP
- ACCESS PORT FOR LEAK DETECTION VAULT
- ⊕ MONITORING WELL LOCATION

RACER TRUST
COLDWATER ROAD
LANDFILL FACILITY
FLINT, MICHIGAN

**2015
INCIDENT LOCATION
MAP**



JANUARY 2015
15388/51440-003



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PLOT DATE: 1/22/2015 KBS

MAP USES DATA FROM THE MICHIGAN CENTER FOR GEOGRAPHIC INFORMATION

Quarterly Post Closure Inspection Log Sheet
Coldwater Road Landfill Site – Operations and Maintenance
Flint, Michigan
Project No. 60794

Inspector's Name/Title Kevin Schneider Scientist

Inspector's Signature/Date/Time *[Signature]* 6/19/15

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	Date Corrected
Cell A	No	No	No	No	No	No		
Cell B	Yes	No	No	No	No	No	animal burrow cell B3	7/29/15
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:

A few woody plants were spotted and pulled during inspection
Several woody plants still need to be removed

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 ___

If yes to any, describe issue, location, and actions taken	Date Corrected

Piping

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

If yes to any, describe issue, location, and actions taken	Date Corrected

Emergency Response

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

If no to any, describe issue, location, and actions taken	Date Corrected

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?	Do areas around building and equipment need to be mowed?	Do access roads need to be mowed?	If yes, describe issue, and actions taken	Date Corrected
A	No	A few	Yes	Yes	Plan to cut grass later in quarter. Plan to remove woody plants throughout quarter.	
B	↓	↓	↓	↓		
C	↓	↓	↓	↓		
D	↓	↓	↓	↓		
E	↓	↓	↓	↓		
F	↓	↓	↓	↓		
Berms	↓	↓	↓	↓		

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 issue, and actions taken	Date Corrected
Roads located approx. west of landfill	Yes	Yes		
Roads located approx. east of landfill	Yes	Yes		
Roads located approx. north of wetlands	No	OK. Ruts along north perimeter Road	Will repair later in quarter once tractor pented	Required 8/4/15
Roads located approx. south of wetlands	Yes	Yes		
Roads located approx. west of wetlands	Yes	Ponded water 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 Missing?	If yes to any, describe issue, and actions taken	Date Corrected
Fences along north property line	No	No	No	No		
Fences along south property line	↓	↓	↓	↓		
Fences along west property line	↓	↓	↓	↓		
Fences along east property line	↓	↓	↓	↓		

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?	
			NO

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.

Describe any issues and actions taken	Date Corrected

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	Date Corrected
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	Date Corrected
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 2015

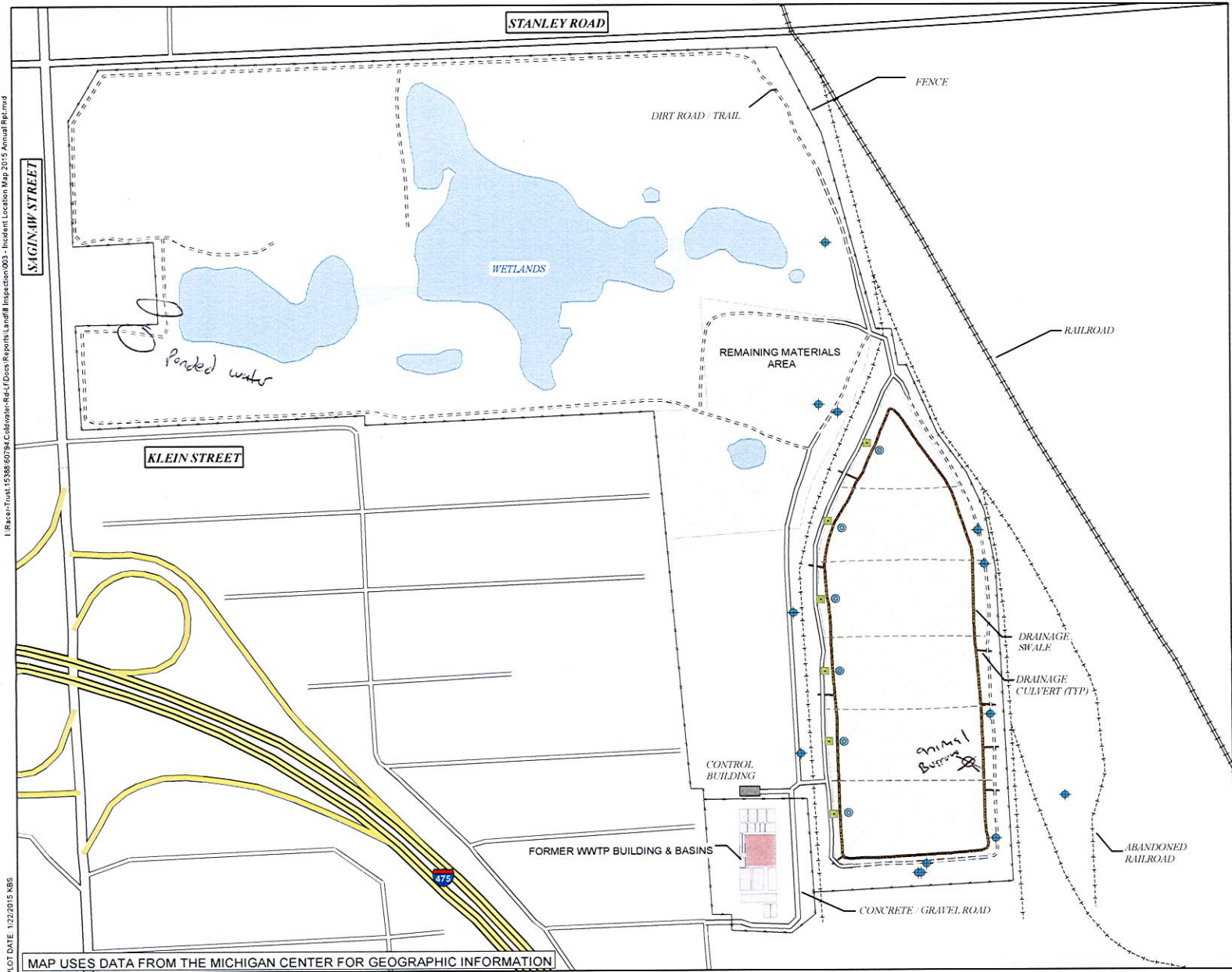





FIGURE 1

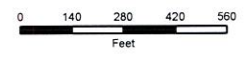


LEGEND

-  LEACHATE COLLECTION SUMP
-  ACCESS PORT FOR LEAK DETECTION VAULT
-  MONITORING WELL LOCATION

RACER TRUST
COLDWATER ROAD
LANDFILL FACILITY
FLINT, MICHIGAN

**2015
INCIDENT LOCATION
MAP**



JANUARY 2015
15388/51440-003



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PLOT DATE: 1/22/2015 KRS

MAP USES DATA FROM THE MICHIGAN CENTER FOR GEOGRAPHIC INFORMATION

Quarterly Post Closure Inspection Log Sheet
 Coldwater Road Landfill Site - Operations and Maintenance
 Flint, Michigan
 Project No. 50137 60794

Inspector's Name/Title Clifford S. Yentz / Scientist - 3

Inspector's Signature/Date/Time Clifford S. Yentz / 9-2-15 / 9:35 AM

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	Date Corrected
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	9/24/15 one burrow	No	No	No	No	No	we set trap and knee groundhog and back filled hole.	9/24/15
Cell F	No	No	No	No	No	No	—	—
Berms	No	No	No	No	No	No	—	—

Woody Plant Removal Activities

Summarize monthly activities:

7/17/15 - tree removal along west side of landfill during dewatering. / 8-4-15 tree pulling in cells F1, E1, D1, C1 / 8-11-15 tree removal during dewatering
 8-25-15 tree pulling B-1, A-1, A-2, B-3 / 9-2-15 tree pulling C-4, D-4, E-4
 9/24/15 tree pulling B-4, F-3, E-4, F-2

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 ___

If yes to any, describe issue, location, and actions taken	Date Corrected

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 ___

If yes to any, describe issue, location, and actions taken	Date Corrected

Emergency Response

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

If yes to any, describe issue, location, and actions taken	Date Corrected

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?	If yes, describe issue, and actions taken	Date Corrected
A	No	No	Earlier in August Yes	Earlier in August Yes	-	-
B	No	A few in B-2	↓	↓	↑	9/2/15
C	No	A few in C-2 & C-3				Larger - obvious trees/brush removed
D	No	A few in D-2 & D-3				11
E	No	A few in E-2 & E-3				Will get to as we move into this area in Q3.
F	No	A few in F-2 → F-4				9/24/15
Berms	No	Few				Will pull trees as we complete landfill tree pulling activities in those areas of the landfill

After rain in A, B, C, D, E, F.

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 issue, and actions taken	Date Corrected
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?	If yes to any, describe issue, and actions taken	Date Corrected
Fences along north property line	No	No	No	Yes	—	—
Fences along south property line	No	No	No	Yes	—	—
Fences along west property line	9/24/15 No one hole	west property line near AMA No	No	Yes	deer run through hole - some are hitting fence as they come through hole repair hole 9/24/15	
Fences along east property line	No	No	No	Yes	—	—

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	Date Corrected
Perimeter of landfill and berm	No	-	-	(trees/brush not a problem but still should be trimmed before end of year in ^{and tall grass} letdowns)	-
Drainage trenches at base of landfill	No	-	-		
RMA	No	-	-	ll	
Wetlands area	No	-	-	ll	
Culverts around landfill	No	-	-	ll	
Western drainage swale	No	-	-	-	-
North landfill catch basin	No	-	-	-	-

3rd Qrt 2015

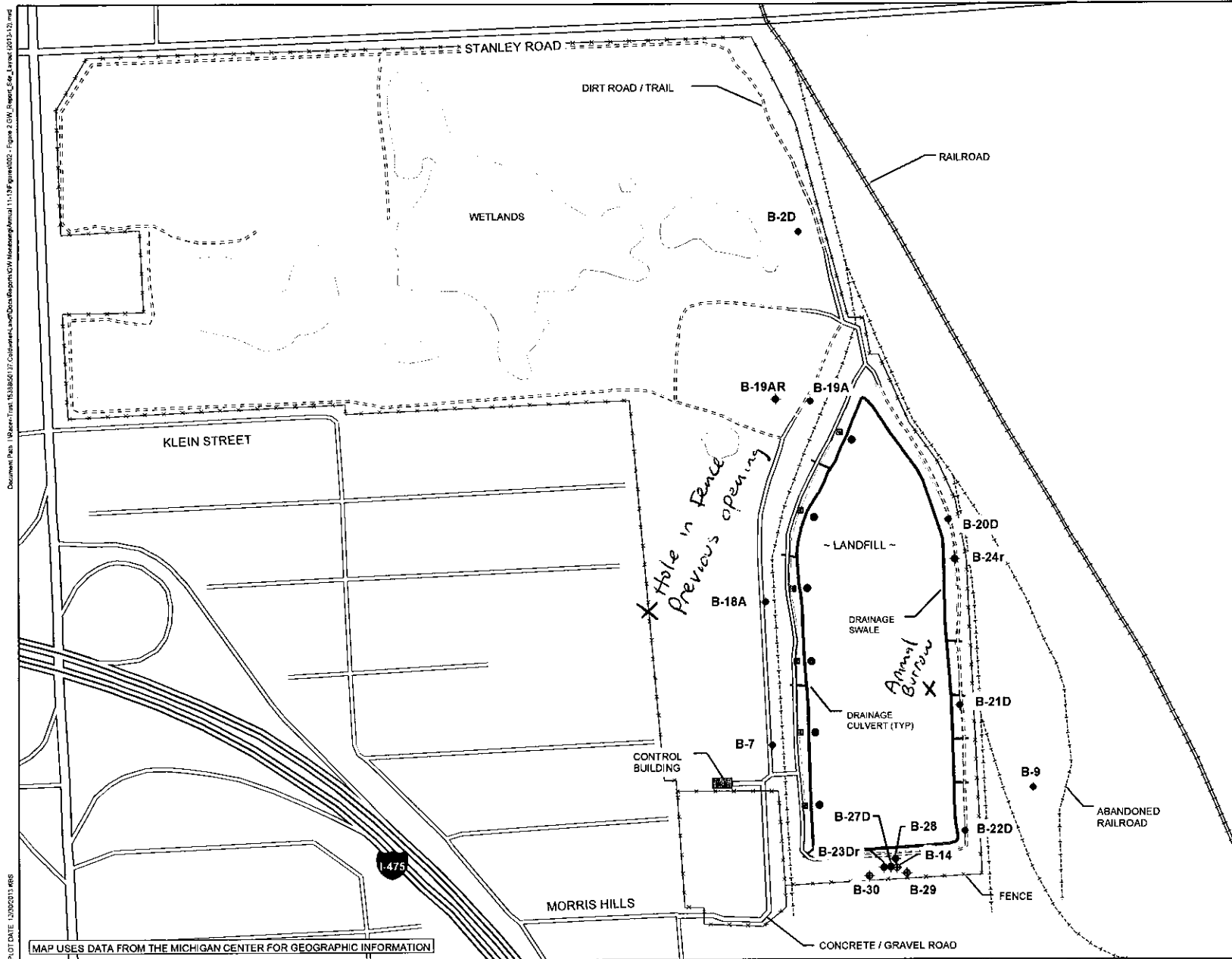


FIGURE 2

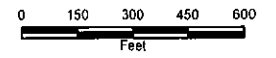


LEGEND

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

RACER TRUST
COLDWATER ROAD
LANDFILL FACILITY
FLINT, MICHIGAN

SITE LAYOUT



DECEMBER 2013
15388-00137902

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PLOT DATE: 12/02/13 PMS

MAP USES DATA FROM THE MICHIGAN CENTER FOR GEOGRAPHIC INFORMATION

Quarterly Post Closure Inspection Log Sheet
Coldwater Road Landfill Site – Operations and Maintenance
Flint, Michigan
Project No. 60794

Inspector's Name/Title Kevin Schneider

Inspector's Signature/Date/Time *K Schneider* 12/15/15 – 12/17/15

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	Date Corrected
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	Yes ^{one}	No	No	No	No	No	set trap, no activity in two days	12/17/15
Berms	No	No	No	No	No	No		

Woody Plant Removal Activities

Summarize monthly activities:

A number of woody plants were removed from the landfill cap and swale during the quarter and during the inspection

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 ___

If yes to any, describe issue, location, and actions taken	Date Corrected

Piping

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

If yes to any, describe issue, location, and actions taken	Date Corrected

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

If no to any, describe issue, location, and actions taken	Date Corrected

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?	Do areas around building and equipment need to be mowed?	Do access roads need to be mowed?	If yes, describe issue, and actions taken	Date Corrected
A	No	No	No mowed in August	No mowed in August		
B	No	No	Good condition	Good condition		
C	No	No	↓	↓		
D	No	No				
E	No	No				
F	No	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 issue, and actions taken	Date Corrected
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 Missing?	If yes to any, describe issue, and actions taken	Date Corrected
Fences along north property line	No	No	No	Yes		
Fences along south property line	No	No	No	Yes		
Fences along west property line	2 openings Yes	opened for deer path	No	Yes	Previous hole reopened	resecured fence 12/17/15
Fences along east property line	hole in fence Yes	opened for deer path	No	Yes	closed opening in fence	12/17/15

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?
			No

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.

Describe any issues and actions taken	Date Corrected

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	Date Corrected
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	Date Corrected
Perimeter of landfill and berm	No				
Drainage trenches at base of landfill	No				
RMA	No				
Wetlands area	No				
Culverts around landfill	No		few small plants and grass		
Western drainage swale	No				
North landfill catch basin	No				

43° 05.916' N
83° 40.964' W

UTM
281679 UTM 17N
4775259 UTM 17N

Lat Lon
43.0786° N
83.68273° W

PURVIS 4' wide
1' deep
4+ length

FIGURE 2

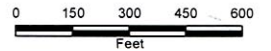


LEGEND

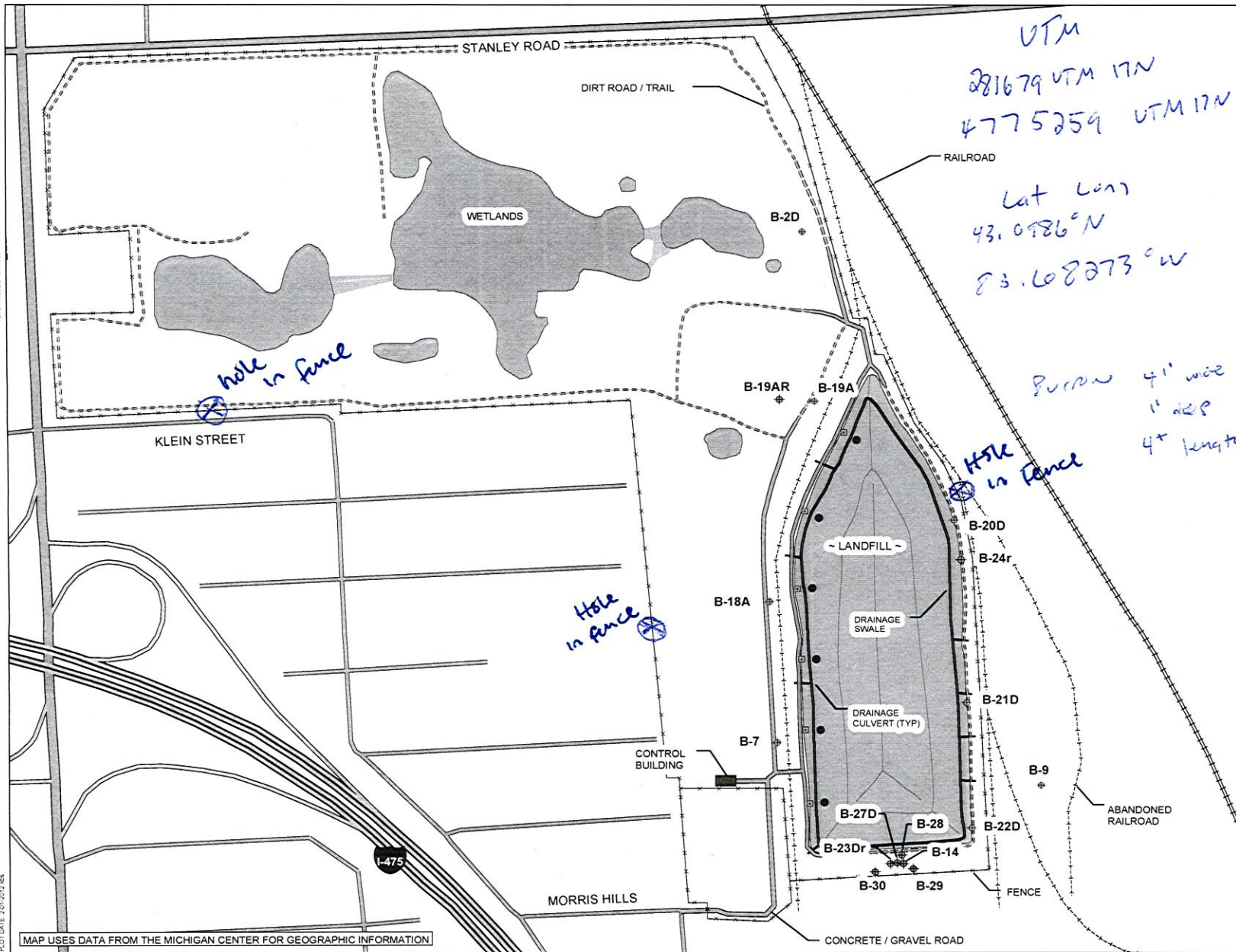
- LEACHATE COLLECTION SUMP
- ◻ ACCESS PORT FOR LEAK DETECTION VAULT
- ⊕ MONITORING WELL
- ⊕ ABANDONED WELL

RACER TRUST
COLDWATER ROAD
LANDFILL FACILITY
FLINT, MICHIGAN

SITE LAYOUT



FEBRUARY 2012
15338/47850/002



NOT PROJECT BY 15388 RACER TRUST RESOURCES REPORTS 2012 ANNUAL FIGURE 002.MXD

PLOT DATE 2/6/2012 4:56

MAP USES DATA FROM THE MICHIGAN CENTER FOR GEOGRAPHIC INFORMATION

OBG

THERE'S A WAY

