

OBG

2016 ANNUAL REPORT – FINAL REPORT

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

**RACER TRUST
Detroit, Michigan**

February 2017

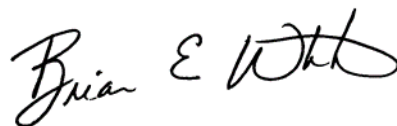


FEBRUARY 2017 | CLIENT # 15388 | PROJECT # 62658

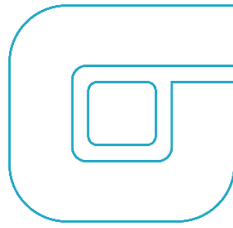
**Landfill Inspection
Coldwater Road Landfill
MID 005 356 860**

Flint, Michigan

Prepared for: RACER Trust
Detroit, Michigan



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



February 20 , 2017

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: 2016 Annual Landfill Inspection Report
Coldwater Road Landfill, Flint, Michigan
MID 005 356 860
FILE: 15388 /62658/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 2016 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 2016 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 2016 quarterly inspections. The following is a summary of the issues encountered on the cap and berms during the 2016 quarterly inspections.





Several hundred woody-stemmed plants were removed from the landfill cap between March 2016 and December 2016.

Four 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.

Animal activity was observed during a landfill cap inspection by the MDEQ on October 11, 2016. The response to the activity was detailed in a separate letter to the MDEQ dated January 18, 2017.

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 (PCCP). 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 1st quarterly inspection the west and northwest perimeter roadway was flooded. The wet section of road was avoided until the road was dry. During the 2nd quarter gravel was added to northern perimeter roadway and northern landfill roadway in areas with shallow ruts. No other problems to the access roads were observed during 2016.

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 hole was observed along the west perimeter fence near the Dollar General and an approximately 40-foot section of fence was knocked down along the west perimeter fence on Saginaw Road. During the 4th quarter inspection, one previously repaired hole was reopened along the west perimeter fence.

The knocked down fence along Saginaw Road was propped back up by RACER maintenance during the fourth quarter 2016. The holes in the perimeter fence were repaired on January 11, 2017.

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 with the exception of the months of September and November 2016. Per the Post-Closure Care Plan, which was recently revised and approved on January 24, 2017, dewatering can occur 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.

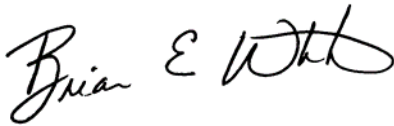
DRAINAGE INSPECTION

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 2016.

This summary of the quarterly inspections fulfills the annual inspection reporting requirements for 2016. If you have any questions, feel free to contact Cliff 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

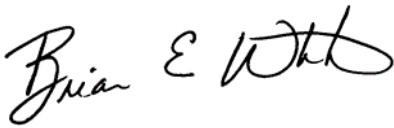
ENCLOSURES:

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 20, 2017

cc: file



TABLE



TABLE 1**RACER Trust - Coldwater Road Landfill Facility****Liquid Volumes Removed from LDS Vaults in 2016**

| <i>Date</i> 2016 | <i>VAULT</i> A | <i>VAULT</i> B | <i>VAULT</i> C | <i>VAULT</i> D | <i>VAULT</i> E | <i>VAULT</i> F | <i>TOTAL LDS</i> <i>GALLONS</i> |
|-----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------------------------|
| 20-Jan-16 | -- | -- | -- | -- | 916 | -- | 916 |
| 18-Feb-16 | 190 | 767 | 62 | 71 | 585 | 44 | 1,719 |
| 17-Mar-16 | 85 | 400 | 47 | 40 | 570 | 49 | 1,191 |
| 21-Apr-16 | -- | 382 | -- | -- | 515 | -- | 897 |
| 17-May-16 | 241 | 266 | 42 | 45 | 1,107 | 193 | 1,894 |
| 27-Jun-16 | -- | -- | -- | -- | 773 | -- | 773 |
| 26-Jul-16 | 220 | 335 | 105 | 87 | 439 | 26 | 1,212 |
| 17-Aug-16 | 89 | 94 | 94 | 88 | 138 | -- | 503 |
| 26-Sep-16 | -- | -- | -- | -- | -- | -- | 0 |
| 16-Oct-16 | 111 | 138 | 154 | 165 | 87 | 241 | 896 |
| 15-Nov-16 | -- | -- | -- | -- | -- | -- | 0 |
| 21-Dec-16 | 125 | 385 | 88 | 99 | 709 | 55 | 1,461 |
| YEAR END TOTAL | 1,061 | 2,767 | 592 | 595 | 5,839 | 608 | 11,462 |

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.

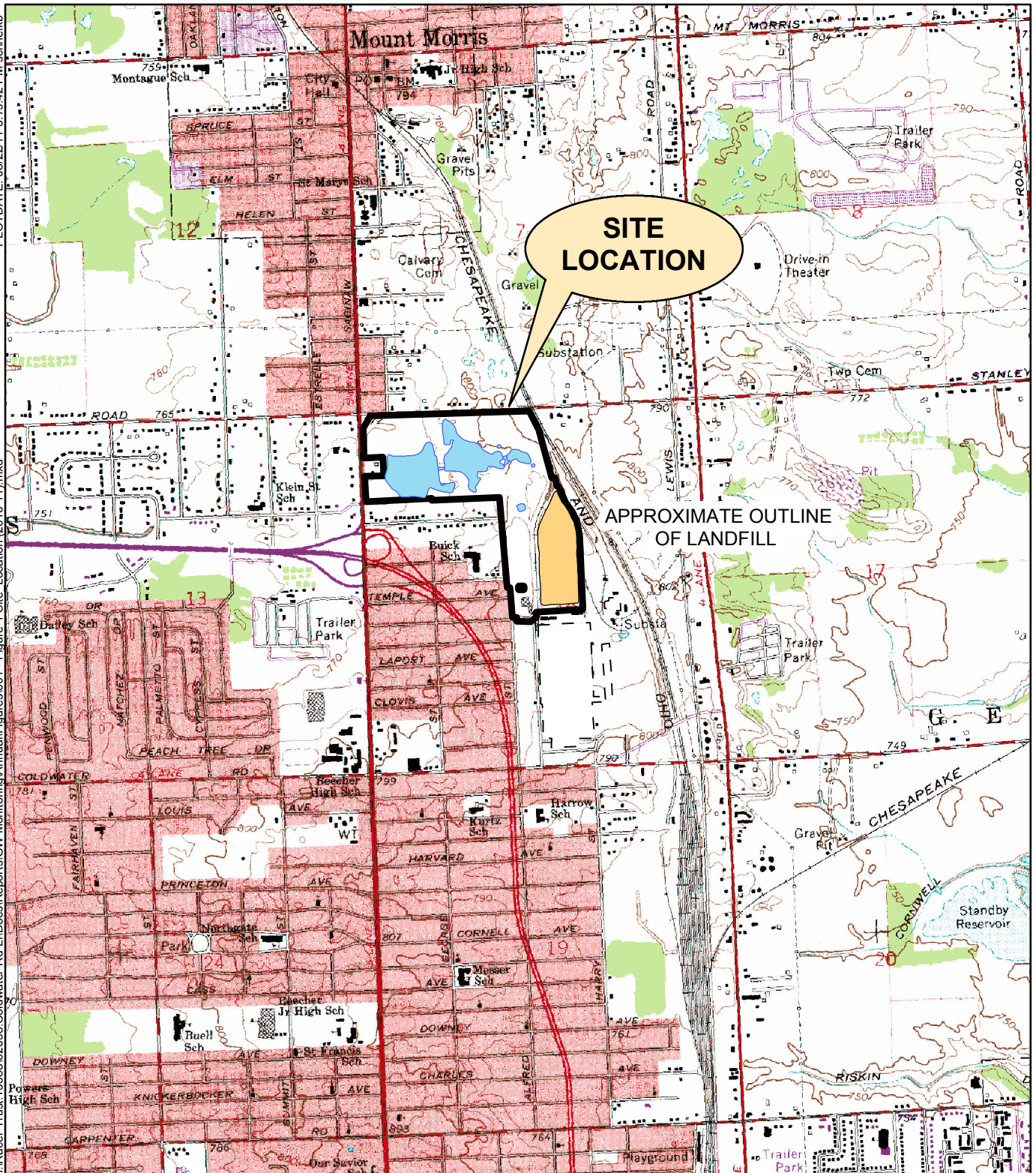




FIGURES

PLOTDATE: 08/22/11 3:19:42 PM schmekb

I:\Racer-Trust_15388\62658_Coldwater-Rc-L-1\Docs\Reports\GW_Monitoring\AnnualFigures001 - Figure 1 Site_Location (2016-11).mxd



RACER TRUST
 COLDWATER ROAD LANDFILL FACILITY
 FLINT, MICHIGAN

SITE LOCATION MAP





Miles



FIGURE 2

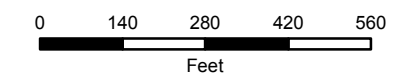


LEGEND

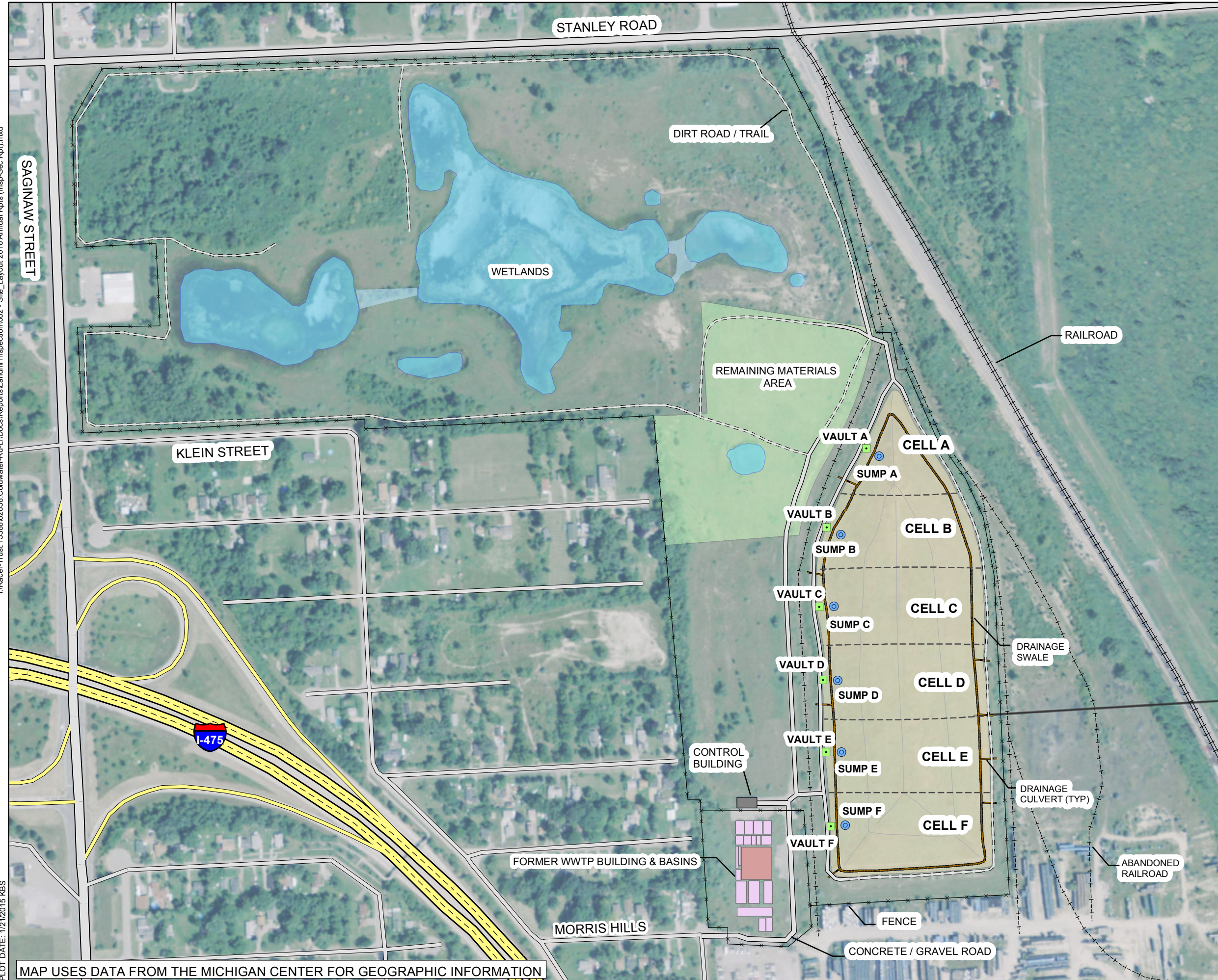
-  LEACHATE COLLECTION SUMP
-  ACCESS PORT FOR LEAK DETECTION VAULT

RACER TRUST
COLDWATER ROAD
LANDFILL FACILITY
FLINT, MICHIGAN

SITE LAYOUT



JANUARY 2017
15388/62658-002

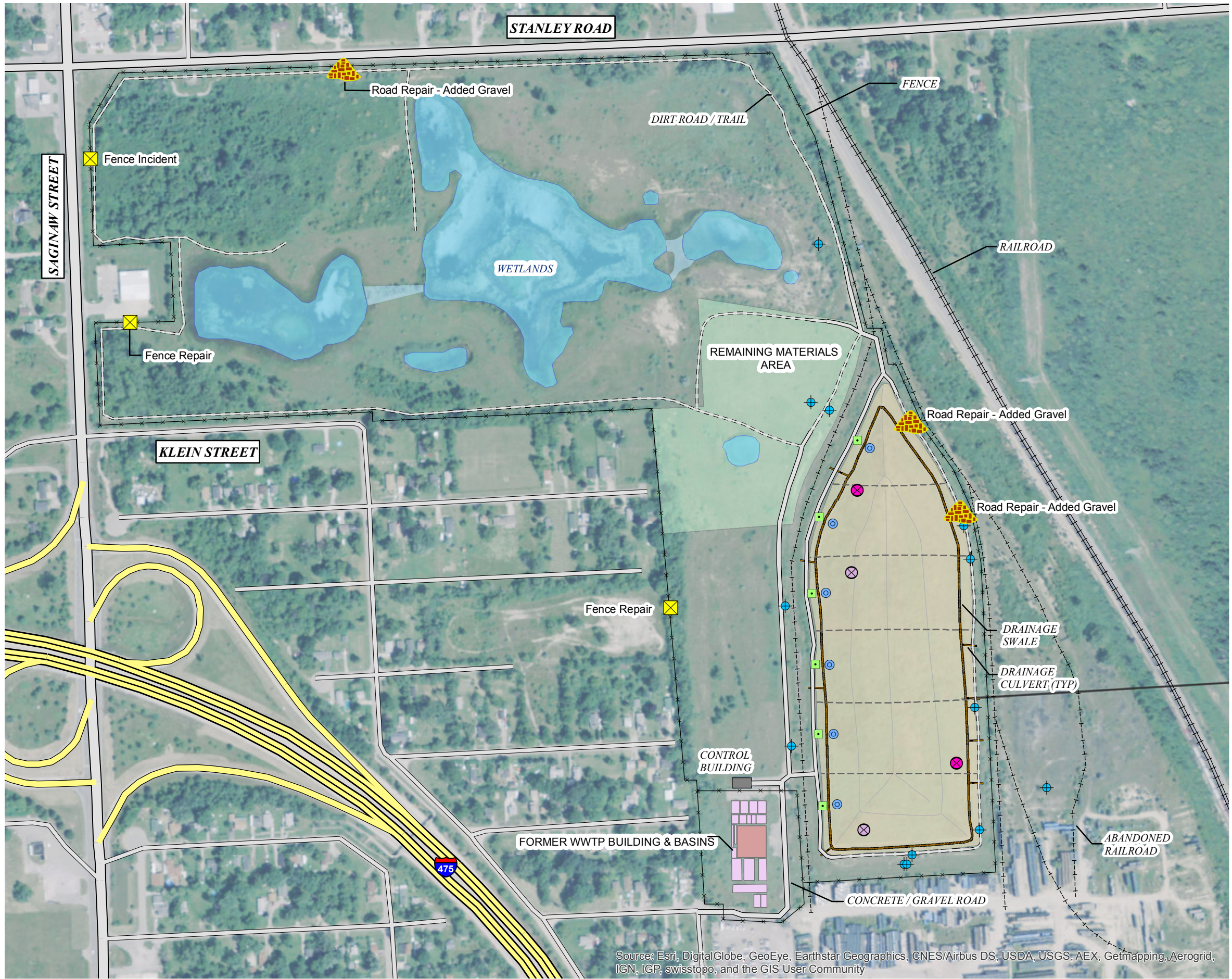


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PLOT DATE: 1/21/2015 KBS






MAP USES DATA FROM THE MICHIGAN CENTER FOR GEOGRAPHIC INFORMATION

PLOTDATE: 01/27/14 11:04:14 AM schnekb

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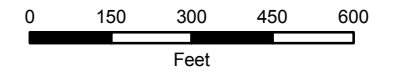


LEGEND

-  LEACHATE COLLECTION SUMP
-  ACCESS PORT FOR LEAK DETECTION VAULT
-  MONITORING WELL LOCATION
-  FENCE REPAIR
-  ROAD REPAIR - GRAVEL ADDED
-  ANIMAL BURROW LOCATION 2ND QUARTER
-  ANIMAL BURROW LOCATION 3RD QUARTER

RACER TRUST
COLDWATER ROAD
LANDFILL FACILITY
FLINT, MICHIGAN

**2016
INCIDENT LOCATION
MAP**



15388/62658
JANUARY 2017



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



APPENDIX A
Inspection Logs



Quarterly Post Closure Inspection Log Sheet
Coldwater Road Landfill Site – Operations and Maintenance
Flint, Michigan
Project No. 62658

Inspector's Name/Title Kevin Schneider Scientist II

Inspector's Signature/Date/Time *[Signature]* 3/17/16 - 3/31/16

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 | Note mounds B1 | 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 | Note mounds and trails F3 | No | No | No | No | No | | |
| Berms | No | No | No | No | No | No | | |
| | | | | | | | | |

Woody Plant Removal Activities

Summarize monthly activities:

A few woody plants throughout landfill cap

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 ___
- 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 | A few through out landfill cap | yes | yes | plan to mow grass in qrt 2 | 6/30/16 |
| 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 issue, and actions taken | Date Corrected |
|---|----------------------------|--------------------------|--|----------------|
| Roads located approx. west of landfill | yes | wet roadway | | |
| Roads located approx. east of landfill | yes | yes | | |
| Roads located approx. north of wetlands | yes | wet roadway | | |
| Roads located approx. south of wetlands | yes | yes | | |
| Roads located approx. west of wetlands | yes | wet roadway | | |
| 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 | No | No | No | No | | |
| Fences along west property line | No | No | No | No | | |
| Fences along east property line | 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 | | | | |

1st Qtr 2016

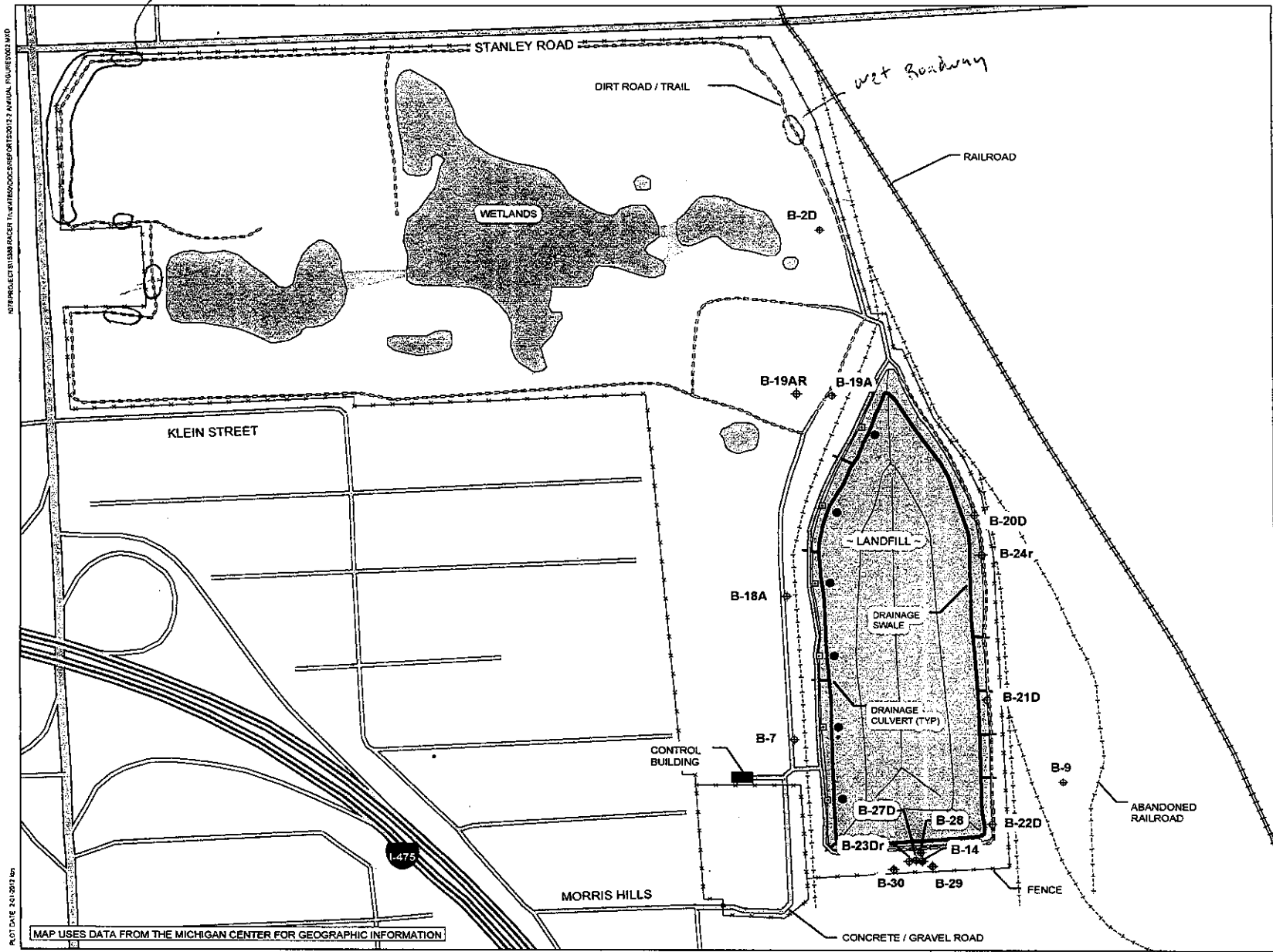
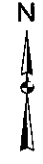


FIGURE 2

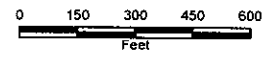


LEGEND

- 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
15388/47806/002

REF: PROJECT B (S&M) RACER TRUST COLDWATER ROAD LANDFILL FACILITY (S&M) 2012

PL01 DATE: 2-01-2012 165

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. 62658

Inspector's Name/Title Kevin Schneider / Cliff Yantz

Inspector's Signature/Date/Time 6/28/16 - 6/30/16

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 west side middle of slope | No | No | No | No | No | trap set | 8/30/16 |
| 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 animal burrow east side | No | No | No | No | No | trap set | 8/30/16 |
| Berms | No | No | No | No | No | No | | |
| | | | | | | | | |

Woody Plant Removal Activities

Summarize monthly activities:

A number of woody plants were removed during the month of June from landfill cap and berm and culverts. Trees adjacent to the landfill were 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 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 *open for discharge*
 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 | <i>A few throughout landfill cap</i> | <i>Yes scheduled for 6/30/16</i> | <i>Yes scheduled for 6/30/16</i> | | <i>6/30/16</i> |
| B | No | <i>being removed plants continued removal</i> | | | | |
| 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 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 | Shallow ruts | Yes | Smoothed ruts and added 5Y of gravel → | 6/30/14 |
| 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 | No | No | No | No | - | - |
| Fences along west property line | No | No | No | No | - | - |
| Fences along east property line | 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 | | | | |

6/28/16

Named Grass 6/30/16

added Gravel

added Gravel

Animal Burrow

Animal Burrow

FIGURE 2

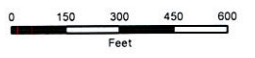


LEGEND

- LEACHATE COLLECTION SUMP
- ACCESS PORT FOR LEAK DETECTION VAULT

RACER TRUST
COLDWATER ROAD
LANDFILL FACILITY
FLINT, MICHIGAN

SITE LAYOUT

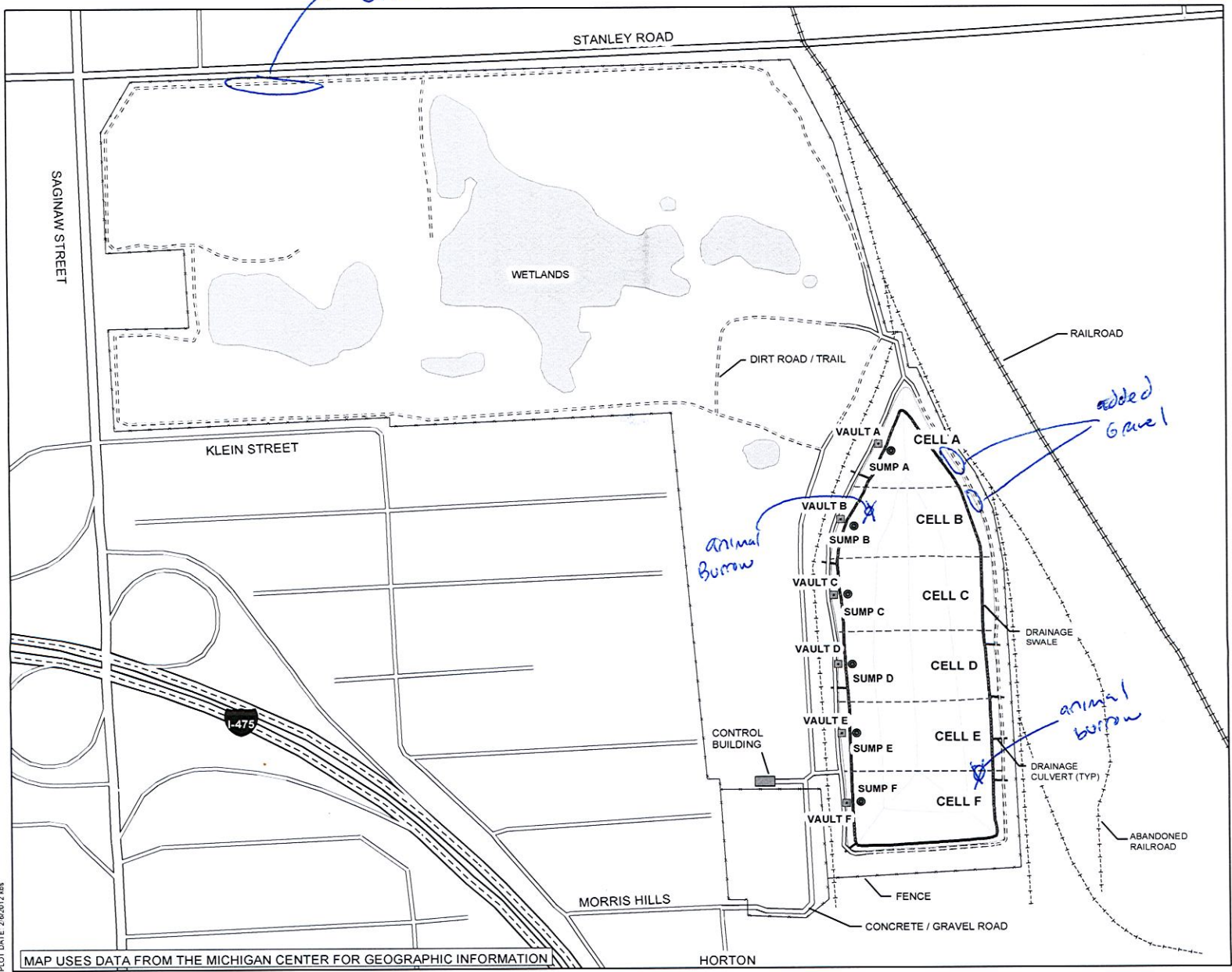


FEBRUARY 2012
15388/47850-008



1078 PROJECTS\MLC 15388\47850\DCS\REPORTS\INSPECTION SECURITY REPORT 008.MXD

PLOT DATE: 2/6/2012 10:44



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

Inspector's Name/Title Kevin Schneider / Rosine Kubwimana

Inspector's Signature/Date/Time K. Schneider 9/26/16 10:00

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 | 1 animal burrow west side | No | No | No | No | No | Set trap | 9/30/16 |
| Cell D | No | No | No | No | No | No | | |
| Cell E | No | No | No | No | No | No | | |
| Cell F | 1 animal burrow south side | No | No | No | No | No | Set trap | 9/30/16 |
| Berms | No | No | No | No | No | No | | |
| | | | | | | | | |

Woody Plant Removal Activities

Summarize monthly activities:

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 | 1 hole in fence near Dollar General Fence down west of landfill knocked down along saginaw Rd | | No | Yes | | 1/11/17 |
| Fences along east property line | No | No | No | Yes | | |

use

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 closed and locked? No Yes ___ *open during discharge*
- 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 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 | Yes | Yes | | |
| B | No | No | Yes | Yes | | |
| C | No | No | Yes | Yes | | |
| D | No | No | Yes | Yes | | |
| E | No | No | Yes | Yes | | |
| F | No | No | Yes | Yes | | |
| Berms | No | No | Yes | 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? | |
| | | | 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

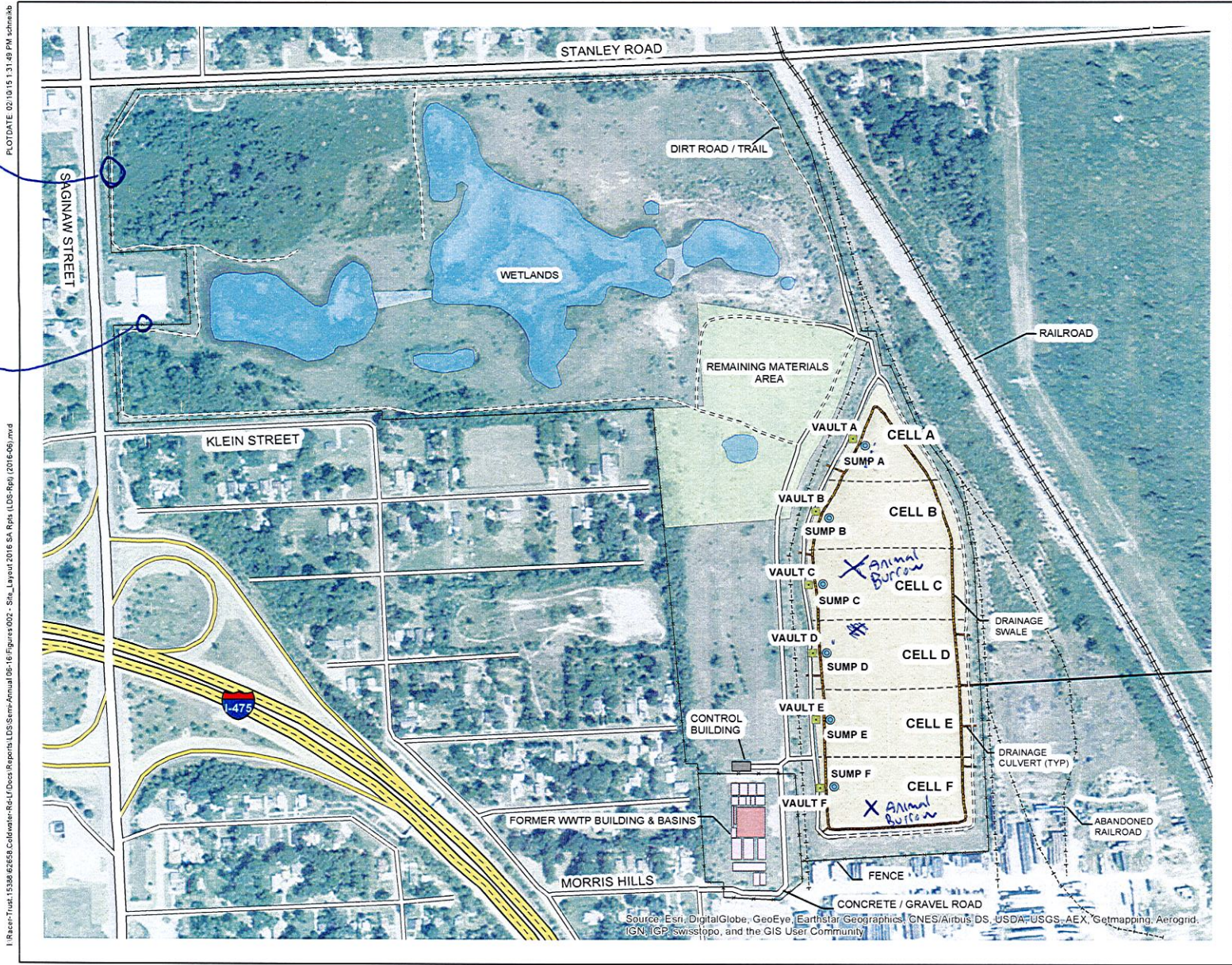
Inspect the perimeter of the landfill and berm, drainage trenches at the base of the landfill, RMA and wetlands area for potential drainage problems. Check culverts around landfill, western drainage swale and north landfill catch basin for blockage.

| 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 | | | | |

9/26/16

FIGURE 2

40' Fence
Hole in Fence



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O'BRIEN & GERE ENGINEERS, INC.

Quarterly Post Closure Inspection Log Sheet
Coldwater Road Landfill Site – Operations and Maintenance
Flint, Michigan
Project No. 62658

Inspector's Name/Title Kevin Schneider Scientist

Inspector's Signature/Date/Time K Schneider 10/21/16

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 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | |
| Cell C | | | | | | | | |
| Cell D | | | | | | | | |
| Cell E | | | | | | | | |
| Cell F | | | | | | | | |
| Berms | | | | | | | | |
| | | | | | | | 8 to 9 inches of snow cover | |

Woody Plant Removal Activities

Summarize monthly activities:

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 ___ *open during discharge*
- 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 | No | | |
| B | ↓ | ↓ | ↓ | ↓ | | |
| C | | | | | | |
| D | | | | | | |
| E | | | | | | |
| F | | | | | | |
| Berms | | | | | | |

8" to 9" inches of snow cover

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 | ↓ | ↓ | | |
| Roads located approx. north of wetlands | | | | |
| Roads located approx. south of wetlands | | | | |
| Roads located approx. west of wetlands | | | | |
| Roads located approx. east of wetlands | | | | |

8 to 9" inches of snow cover

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 | 1 hole in fence near Dollar General Fence knocked down along saginaw, street pushed up hole in previous opened | | | | | 1/11/17 |
| 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? |
| | | | 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 | | |

8 to 9" inches of snow cover

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 | | | | |

8 to 9 inches of snow cover

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PLOT DATE: 2-01-2012 .ajf

MAP USES DATA FROM THE MICHIGAN CENTER FOR GEOGRAPHIC INFORMATION

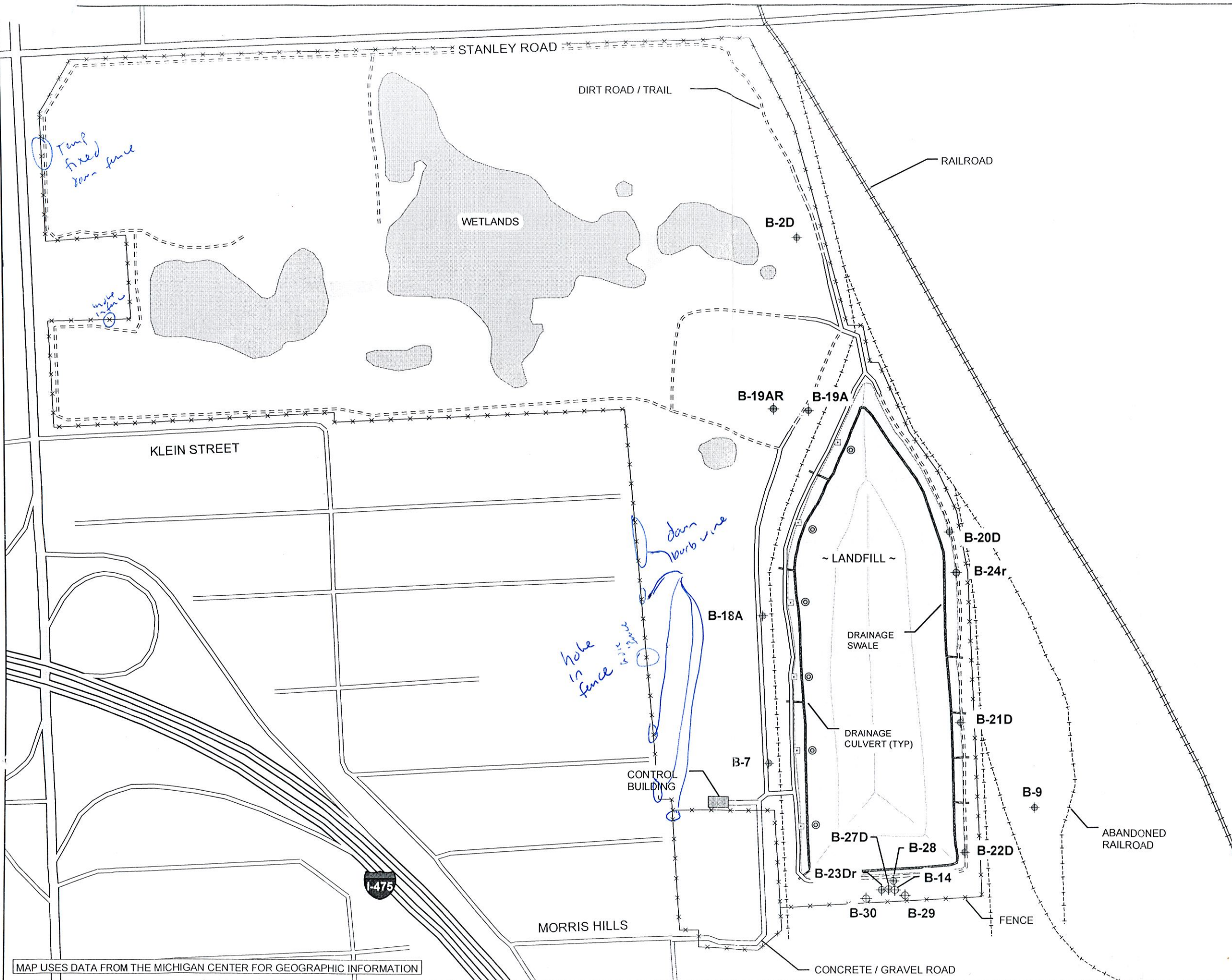


FIGURE 2

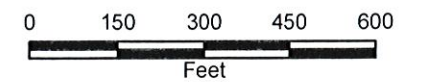


LEGEND

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

RACER TRUST
COLDWATER ROAD
LANDFILL FACILITY
FLINT, MICHIGAN

SITE LAYOUT



FEBRUARY 2012
15388/47850/002

OBG

THERE'S A WAY

