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30 March 2020

Mr. Jhein Siclon
Project Manager
Federal Site Remediation Section
Illinois Environmental Protection Agency
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Subject: Environmental Monitoring Report – 2019 Annual Operation & Maintenance Report – MIG/DeWane Landfill Site, Belvidere, Illinois

Dear Mr. Siclon:

On behalf of BFI Waste Systems of North America, LLC. (BFINA), Geosyntec Consultants (Geosyntec) performed Operation & Maintenance (O&M) activities at the MIG/Dewane Landfill (Site) in 2019 in accordance with the approved O&M Plan. As required by the O&M Plan, Geosyntec is submitting the 2019 Annual Operation and Maintenance Report.

2019 O&M ACTIVITY SUMMARY

Leachate Removal and Disposal

Approximately 220,413 gallons (4,485 gallons per week) of leachate was removed from the landfill during 2019. Covanta Environmental Solutions was the licensed hauler and Rock River Water Reclamation District was the permitted disposal facility.

Landfill Inspections

Landfill inspections were performed by Geosyntec on a quarterly basis (11 January, 12 April, 30 July, and 17 December) to observe changes in site conditions and perform proactive repairs, as necessary. During site inspections, the integrity of the major components related to the various environmental control systems (i.e. final cover, stormwater, landfill gas management systems) were assessed to design and operational requirements. Inspection sheets for each of the quarterly

landfill inspections performed in 2019 are presented in Appendix A. Photographs taken during site inspections are presented in Appendix B. There were no observed areas of stressed vegetation greater than 10,000 square feet. No damage to landfill perimeter fencing has been observed.

One major issue pertaining to the integrity or operations of the environmental control systems was observed on March 26, 2019. One of the two transformers that provides electricity to the site was damaged, most likely due to lightning, and required replacement. While the site was without power, the active gas system was transferred into passive mode by venting the riser columns along the horizontal collection trench. This allowed landfill gas to passively vent to the atmosphere. Power was restored to the site on April 30, 2019, and the active gas system was turned back on.

Once power was restored, it revealed that the electric pump within the Southeast below ground storage tank was non-operational. The pump was replaced on June 6, 2019.

Landfill Gas Monitoring and Landfill Gas Collection Inspection

Landfill gas monitoring was performed by Geosyntec to monitor the efficiency of the operation of the landfill gas system. Landfill gas monitoring is performed on a quarterly basis (26 March, 6 June, 17 September, and 18 December) with an annual gas monitoring event taking place in the 3rd quarter event. Quarterly gas monitoring events at the Site included both perimeter gas probes and gas collection monitoring locations. The annual gas monitoring event at the Site included perimeter gas probes (i.e. GP-10 through GP-40, MW-13, MW-14 and GV-60 though GV-65), gas collection monitoring locations (RC-1 through RC-5, and Blower), dual phase extraction locations (DP-1 through DP-17), and passive gas vent locations (GV-1 through GV-58) as provided within Table 6-1 of the O&M Plan. Quarterly gas monitoring events at the Site included perimeter gas probes, and gas collection monitoring locations. Landfill gas monitoring results were submitted as separate environmental monitoring reports to the IEPA on (2 July, 9 July, 1 November, and 27 December)

No deficiencies in gas extraction blowers in the Wycliffe Estates neighborhood were observed in 2019. No deficiencies or complaints were noted by the homeowners with the gas extraction blowers in 2019.

Landfill Gas Corrective Actions

To mitigate the potential for LFG leaving the site, six solar-powered passive gas vents were installed along the northern property boundary near GP-39 and GP-40 in November 2017. During

the 1st quarter 2019 LFG monitoring event the blower motor at solar gas vent GV-61 was not working. A replacement motor was ordered and replaced on June 6, 2019. The effectiveness of the solar powered gas vents at removing LFG from the discontinuous sand seam will continue to be evaluated during 2020. A discussion of the 2019 landfill gas monitoring results are provided below.

Landfill Gas Results

A record of the history of landfill gas exceedances at the Site can be found within the quarterly landfill gas monitoring reports that have been submitted to the IEPA. Key observations from 2019 LFG monitoring include:

- Methane concentrations decreased within the horizontal collection system riser columns (RCs) when the blower system was without power and freely venting to the atmosphere.
- No gas probes exceedances along western perimeter or within the Wycliffe Estates neighborhood.
- Methane concentrations at GP-39 and GP-40 showed decreasing trends during 2019.

Groundwater Monitoring

Groundwater Monitoring was performed to evaluate the efficacy of the selected groundwater remedy of monitored natural attenuation (MNA). Groundwater monitoring was performed on a quarterly basis (March 25 – 26, June 25 – 26, September 17, and December 17 - 18) with an annual groundwater monitoring event taking place during the 4th quarter sampling events. Groundwater monitoring results were submitted as separate environmental monitoring reports to the IEPA on (12 July 2019, 1 November 2019, 27 January 2020, and March 2020). Groundwater wells were observed during quarterly landfill inspection events.

Evaluation of Monitored Natural Attenuation

As discussed in the various quarterly groundwater monitoring events, groundwater concentrations for containments of concern (COCs) continue to exhibit either stable or decreasing trends.

2019 O&M Cost Summary

A summary of cost expended during 2019 for O&M activities is provided in **Table 2.**

Table 2 2019 Operation and Maintenance Budget		
Task Name	**2019 Amount Spent**	**Notes**
Project Management and Reporting	$55,722.62	
Groundwater Monitoring	$25,171.86	
General Maintenance	$22,971.73	Includes Southeast pump replacement
Site Inspection	$6,506.04	
Gas Monitoring	$28,957.95	Includes transformer replacement
Groundwater Laboratory Testing	$21,273.75	
Leachate Management	$14,870.00	Leachate cost = $0.15 per gallon which includes hauling and disposal
Mowing	$6,000.00	

SUMMARY OF 2019 O&M ACTIVITIES

Table 3 2019 Operation and Maintenance Activities Summary		
Observation	Corrective Action	Date Completed (if applicable)
1st qtr. Monitoring Period		
No power to active gas system	Replace transformer	April 30, 2019
	2nd qtr. Monitoring Period	
Pump shut down at the SE UST	Vac-truck SE tank and replace pump	June 6, 2019

Table 3 **2019 Operation and Maintenance Activities Summary**		
Observation	Corrective Action	Date Completed (if applicable)
Solar Vent Motor not working at GV-61	Replace Solar Vent Motor	June 6, 2019
3rd qtr. Monitoring Period		
Mowing of grass	NA	August 1, 2019
4th qtr. Monitoring Period		
No significant activities		

ANTICIPATED 2020 O&M ACTIVITIES

2020 O&M activities at the Landfill will be very much the same as the 2019 O&M activities that have taken place. Proactive O&M activities will continue to take place for the prevention of any structural failures or environmental releases. In the event of any problems with the Site, reactive measures will continue to take place to keep the integrity of operations and security at the Landfill. Anticipated 2020 O&M activities include:

- Landfill Inspections;
- Leachate Hauling;
- Landfill Gas Monitoring;
- Groundwater Monitoring; and
- Mowing

EVALUATION OF O&M ACTIVITIES

The Remedial Action that was completed in 2016 appears to be effective with respect to the structural integrity of the landfill. No significant environmental releases or additional hazards to public safety, health, or welfare have taken place. Quarterly landfill inspections will continue throughout 2020 to ensure this trend continues. Leachate hauling will continue taking place throughout 2020. Additional corrective actions may be required to mitigate the potential for

landfill gas migrating from the northern perimeter of the site. Any additional corrective actions that take place will be documented within quarterly landfill gas monitoring reports submitted to the IEPA. Results of groundwater sampling will continue being monitored to assess the efficiency of MNA. As required by the O&M Plan, a certification statement is provided on page 8.

Should you have any questions please contact me at (630) 203-3349.

Sincerely,

Jesse Varsho, P.E., P.G.
Principal Engineer

Attachments: Appendix A (Inspection Logs)
Appendix B (Photo Logs)

Cc: Eric Ballenger; BFINA (via email)
Mary Tierney; U.S. EPA (1 copy)
Jay Timm; IEPA (2 copies)

CERTIFICATION STATEMENT

I certify under penalty of law that the specific Activity and Use Limitations identified in Paragraph 7 of the Uniform Environmental Covenants recorded on the following parcels remain in place for the facility as listed in correspondence to Boone County Recorder on August 29, 2017.

Property Code of Parcels: 06-30-300-014
06-30-400-005
06-30-400-006
06-30-400-007
06-31-200-004
06-31-200-023
06-31-200-034
06-31-200-035

I am aware that any person who knowingly makes a false, fictitious, or fraudulent statement to the Illinois EPA, either orally or in writing, commits a class 4 felony. A second subsequent offense after conviction is a Class 3 felony.

Sincerely,

Eric Ballenger
BFINA Project Manager

APPENDIX A

QUARTERLY INSPECTION REPORTS

1ST QUARTER 2019 INSPECTION REPORT

SITE INSPECTION CHECKLIST
MIG/DEWANE LANDFILL SUPERFUND SITE
BOONE COUNTY, ILLINOIS

INSPECTION DATE: Jan. 11, 2019

Inspector(s) Names: Jesse Varsho

Company: Geosyntec

Weather Conditions: Partial Cloudy, temp 30°

General Site Conditions:
(e.g., muddy, dusty, etc.)

Inspection Item (check when completed)	Note Problems and Give Grid Locations(s)	Comments (description, concerns, possible actions, photos, etc.)
☒ Landfill ***Top*** Slopes		
• Differential settlement/ponding		
• Erosion gullies		
• Drainage sufficiency towards ditches		
• Vegetation sufficiency		
• Tree/shrub growth		
• Evidence of animal burrowing		
• Other –		
Overall Condition: ☒ Good ☐ Fair ☐ Poor		☐ Critical – Take Immediate Action
☒ Landfill ***Perimeter*** Slopes		
• Erosion gullies	C9	Review & Assess in Spring
• Evidence of animal burrowing		
• Soft or slumped areas		
• Function of drain layer outlet		
• Vegetation sufficiency		
• Tree/shrub growth		
• Other –		
Overall Condition: ☐ Good ☐ Fair ☐ Poor		☐ Critical – Take Immediate Action

Notes:

REMINDER TO INSPECTION PERSONNEL – PHOTOS OF SITE MUST BE TAKEN DURING ALL ANNUAL SITE INSPECTIONS

SITE INSPECTION CHECKLIST
MIG/DEWANE LANDFILL SUPERFUND SITE
BOONE COUNTY, ILLINOIS

INSPECTION DATE: _____

Inspection Item (check when completed)	Note Problems and Give Grid Locations(s)	Comments (description, concerns, possible actions, photos, etc.)
☒ **Surface Water Ditches**		
• Tree/Shrub Growth		
• Ponding of water due to differential settlement		
• Accumulation of sediments		
• Integrity of channel lining (i.e. grass and riprap outlet aprons)		
• Debris or any other objects obstructing the flow		
• Other –		
Overall Condition: ☒ Good ☐ Fair ☐ Poor		☐ Critical – Take Immediate Action
☒ **Monitoring Wells**		
• Protective casing, cover and lock		
• Protective casing settlement/alignment		
• Well casing and cap		
• Evidence of damage		
• Designation/label intact		
• Evidence of sedimentation		
• Other –		
Overall Condition: ☒ Good ☐ Fair ☐ Poor		☐ Critical – Take Immediate Action
☒ **Access Road**		
• Erosion gullies across or along road	minor 517	minor @ top
• Surface aggregate washouts or exposed geotextiles		
• Sediment/debris on road		
• Other –		
Overall Condition: ☒ Good ☐ Fair ☐ Poor		☐ Critical – Take Immediate Action
☐ **Perimeter Fences and Gates**		
• Damage to fence fabric or barbed wire	pre A-3	
• Holes underneath fence		fill in w/ Rock in Spring
• Damage to gates and padlocks		
• Damage/missing "no trespassing" signs		
• Other –		
Overall Condition: ☒ Good ☐ Fair ☐ Poor		☐ Critical – Take Immediate Action

Notes:

REMINDER TO INSPECTION PERSONNEL – PHOTOS OF SITE MUST BE TAKEN DURING ALL ANNUAL SITE INSPECTIONS

SITE INSPECTION CHECKLIST
MIG/DEWANE LANDFILL SUPERFUND SITE
BOONE COUNTY, ILLINOIS

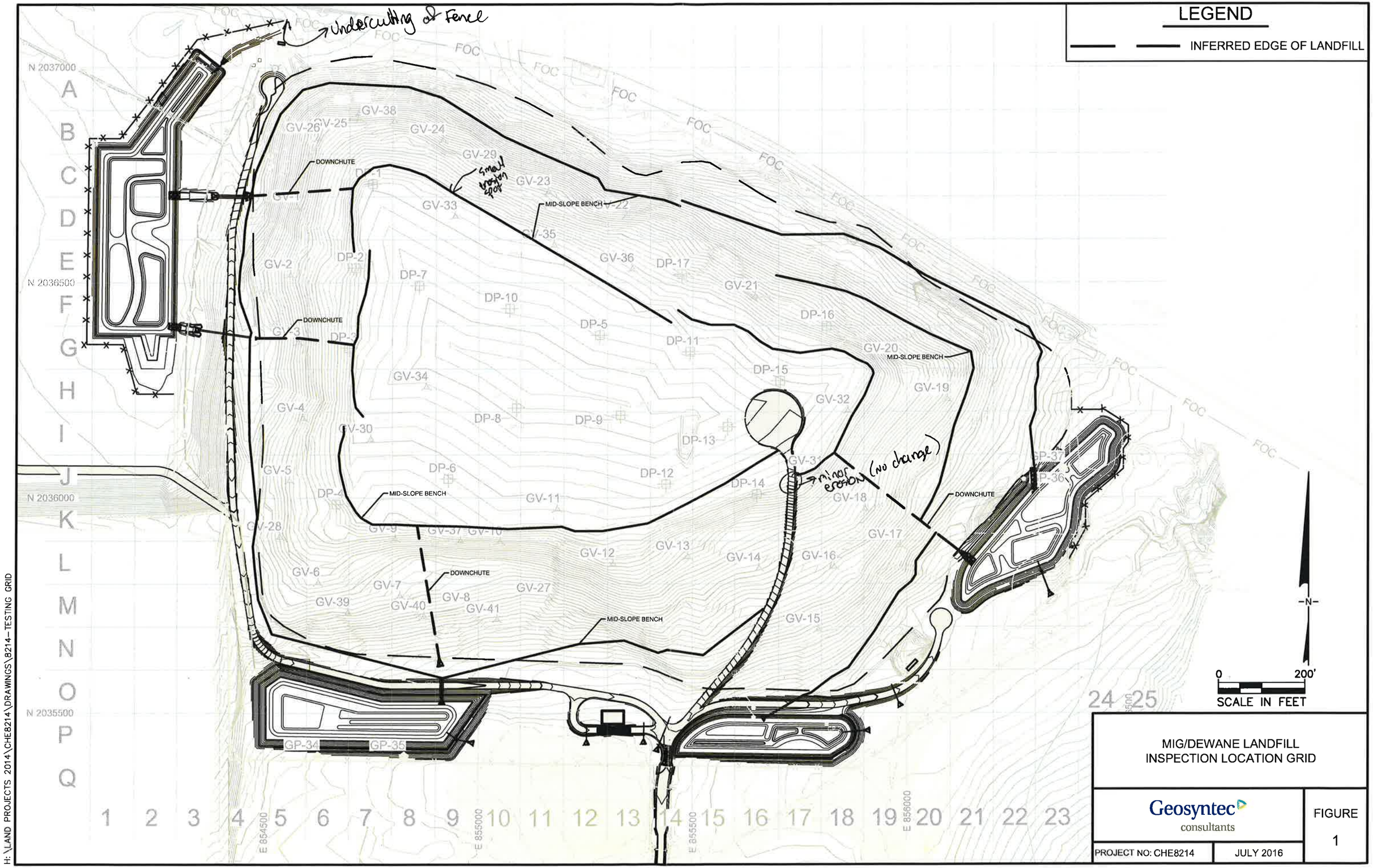
INSPECTION DATE: _____

Inspection Item (check when completed)	Note Problems and Give Grid Locations(s)	Comments (description, concerns, possible actions, photos, etc.)
☒ Leachate Collection System		
• Underground Storage Tanks (levels/pumps, etc.)		
• Above ground Storage Tank (level, appearance, etc.)		
• Secondary Containment (storm water present, etc.)		drained sw
• Truck Pad		
• Other –		
Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action		
☒ Gas Collection System		
• Collection Trench		
• Blower		
• Gas Vents		
• Gas Probes		
• Other –		
Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action		

Notes:
overall site was in good condition, minor typical repairs

REMINDER TO INSPECTION PERSONNEL – PHOTOS OF SITE

MUST BE TAKEN DURING ALL ANNUAL SITE INSPECTIONS



MIG/DEWANE LANDFILL
INSPECTION LOCATION GRID

Geosyntec consultants

FIGURE 1

PROJECT NO: CHE8214 | JULY 2016

H:\LAND PROJECTS 2014\CHE8214\DRAWINGS\8214-TESTING GRID

2ND QUARTER 2019 INSPECTION REPORT

ROUTINE SITE INSPECTION CHECKLIST
MIG/DEWANE LANDFILL SUPERFUND SITE
BOONE COUNTY, ILLINOIS

PAGE: ___ OF ___

INSPECTION DATE: 4/12/19

Inspector(s) Names: David Kein

Company: Geosyntec

Weather Conditions: Overcast, 40°, windy

General Site Conditions: wet (Thunderstorms previous two days)
(e.g., muddy, dusty, etc.)

Inspection Item
(check when completed)

☒ General Assessment of Perimeter Fencing, Gates, & Locks
Notes: under-cutting of fence in NW corner of site.

Overall Condition: ☐ Good ☒ Fair ☐ Poor ☐ Critical – Take Immediate Action

☒ Landfill Perimeter Slopes
Notes:

Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

☒ General Assessment of Gas Probes, Groundwater Monitoring Wells, and Gas Vents
Notes:

Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

☒ General Assessment of Leachate Collection Tanks, Flush-outs, Clean-outs, Control Panels Pumps, Containment and Truck Pad

Notes: Site without power. We have a blown transformer that is in the process of being replaced.

Overall Condition: ☐ Good ☐ Fair ☐ Poor ☒ Critical – Take Immediate Action

ANNUAL SITE INSPECTION CHECKLIST
MIG/DEWANE LANDFILL SUPERFUND SITE
BOONE COUNTY, ILLINOIS

PAGE: ___ OF ___

INSPECTION DATE: _____

Inspector(s) Names: _____

Company: _____

Weather Conditions: _____

General Site Conditions: _____
(e.g., muddy, dusty, etc.)

Inspection Item (check when completed)	Note Problems and Give Grid Locations(s)	Comments (description, concerns, possible actions, photos, etc.)
☒ Landfill ***Top*** Slopes		
• Differential settlement/ponding		
• Erosion gullies		
• Drainage sufficiency towards ditches		
• Vegetation sufficiency		
• Tree/shrub growth		
• Evidence of animal burrowing		
• Other –		
Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action		
☒ Landfill ***Perimeter*** Slopes		
• Erosion gullies		
• Evidence of animal burrowing		
• Soft or slumped areas		
• Function of drain layer outlet		
• Vegetation sufficiency		
• Tree/shrub growth		
• Other –		
Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action		

Notes:

REMINDER TO INSPECTION PERSONNEL – PHOTOS OF SITE MUST BE TAKEN DURING ALL ANNUAL SITE INSPECTIONS

ANNUAL SITE INSPECTION CHECKLIST
MIG/DEWANE LANDFILL SUPERFUND SITE
BOONE COUNTY, ILLINOIS

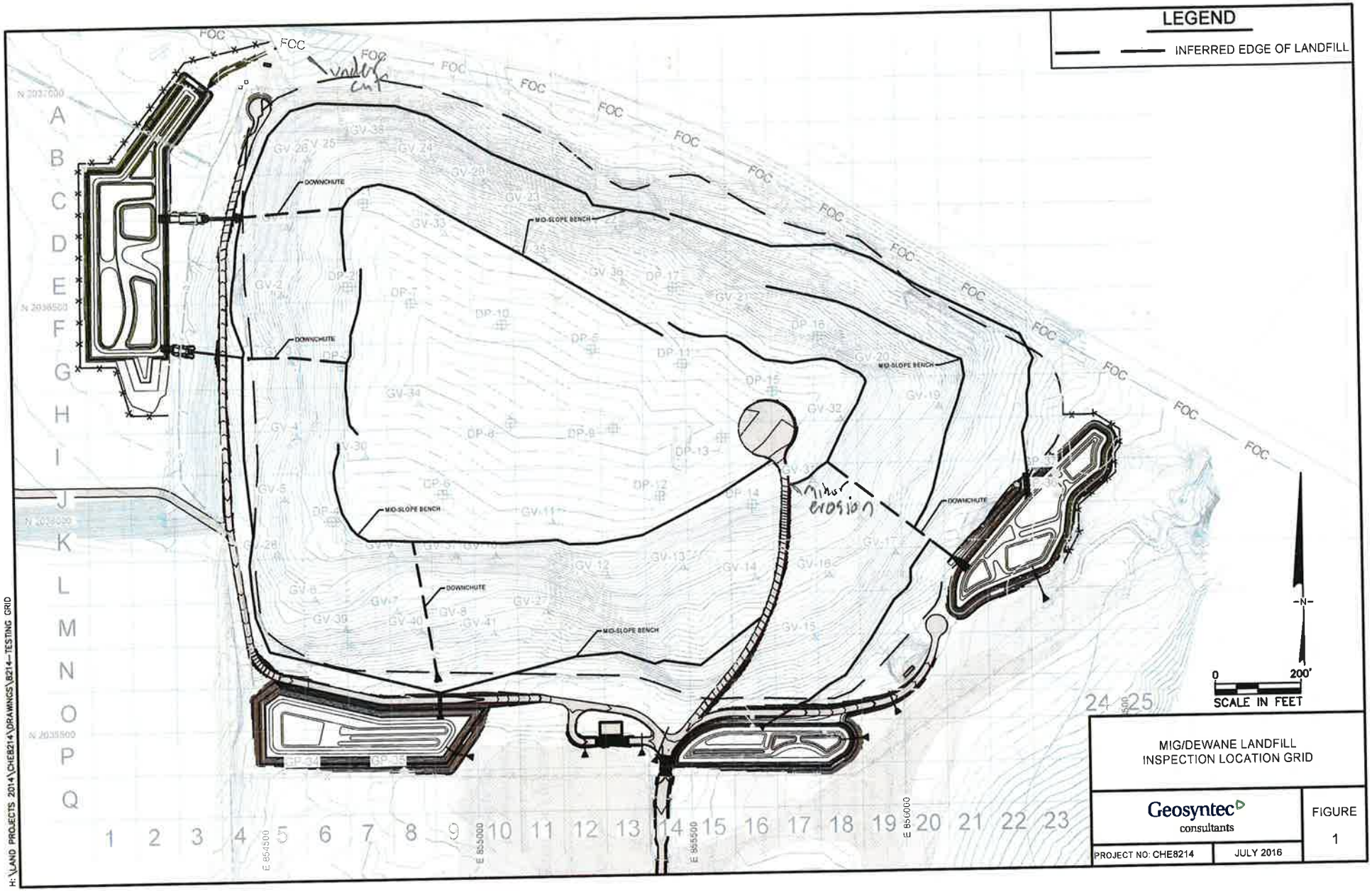
PAGE: ___ OF ___

INSPECTION DATE: _____

Inspection Item (check when completed)	Note Problems and Give Grid Locations(s)	Comments (description, concerns, possible actions, photos, etc.)
☒ **Surface Water Ditches**		
• Tree/Shrub Growth		
• Ponding of water due to differential settlement		
• Accumulation of sediments		
• Integrity of channel lining (i.e. grass and riprap outlet aprons)		
• Debris or any other objects obstructing the flow		
• Other –		
Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action		
☒ **Monitoring Wells**		
• Protective casing, cover and lock		
• Protective casing settlement/alignment		
• Well casing and cap		
• Evidence of damage		
• Designation/label intact		
• Evidence of sedimentation		
• Other –		
Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action		
☒ **Access Road**		
• Erosion gullies across or along road	minor erosion	J-17
• Surface aggregate washouts or exposed geotextiles		
• Sediment/debris on road		
• Other –		
Overall Condition: ☐ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action		
☒ **Perimeter Fences and Gates**		
• Damage to fence fabric or barbed wire	under cutting	A-6 – fill
• Holes underneath fence		
• Damage to gates and padlocks		
• Damage/missing "no trespassing" signs		
• Other –		
Overall Condition: ☐ Good ☒ Fair ☐ Poor ☐ Critical – Take Immediate Action		

Notes: Good condition. Transformer will be replaced next week to restore power to Blower and pumps.

REMINDER TO INSPECTION PERSONNEL – PHOTOS OF SITE MUST BE TAKEN DURING ALL ANNUAL SITE INSPECTIONS



MIG/DEWANE LANDFILL
INSPECTION LOCATION GRID

Geosyntec consultants

PROJECT NO: CHE8214

JULY 2016

FIGURE 1

3RD QUARTER 2019 INSPECTION REPORT

ROUTINE SITE INSPECTION CHECKLIST
MIG/DEWANE LANDFILL SUPERFUND SITE
BOONE COUNTY, ILLINOIS

PAGE: ___ OF ___

INSPECTION DATE: 7/30/19

Inspector(s) Names: David Kerr

Company: Geosyntec

Weather Conditions: 82° Sunny

General Site Conditions: Good Condition
(e.g., muddy, dusty, etc.)

Inspection Item
(check when completed)

☒ General Assessment of Perimeter Fencing, Gates, & Locks
Notes:

Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

☒ Landfill Perimeter Slopes
Notes: Well vegetated - Mowers Scheduled for Aug 1st

Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

☒ General Assessment of Gas Probes, Groundwater Monitoring Wells, and Gas Vents
Notes:

Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

☒ General Assessment of Leachate Collection Tanks, Flush-outs, Clean-outs, Control Panels Pumps, Containment and Truck Pad

Notes: ~~Stear~~ Transformer, SE tank pump, NW tank pressure transducer have all been replaced.

Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

ANNUAL SITE INSPECTION CHECKLIST
MIG/DEWANE LANDFILL SUPERFUND SITE
BOONE COUNTY, ILLINOIS

PAGE: ___ OF ___

INSPECTION DATE: _____

Inspector(s) Names: _____

Company: _____

Weather Conditions: _____

General Site Conditions: _____
(e.g., muddy, dusty, etc.)

Inspection Item (check when completed)	Note Problems and Give Grid Locations(s)	Comments (description, concerns, possible actions, photos, etc.)
☒ Landfill ***Top*** Slopes		
• Differential settlement/ponding		
• Erosion gullies		
• Drainage sufficiency towards ditches		
• Vegetation sufficiency		
• Tree/shrub growth	~~Shrub~~ · 45	shrub growth around blower. Will be mowed by end of week
• Evidence of animal burrowing		
• Other –		
Overall Condition: ☒ Good ☐ Fair ☐ Poor		☐ Critical – Take Immediate Action
☒ Landfill ***Perimeter*** Slopes		
• Erosion gullies		
• Evidence of animal burrowing		
• Soft or slumped areas		
• Function of drain layer outlet		
• Vegetation sufficiency		
• Tree/shrub growth		
• Other –		
Overall Condition: ☒ Good ☐ Fair ☐ Poor		☐ Critical – Take Immediate Action

Notes:

REMINDER TO INSPECTION PERSONNEL – PHOTOS OF SITE MUST BE TAKEN DURING ALL ANNUAL SITE INSPECTIONS

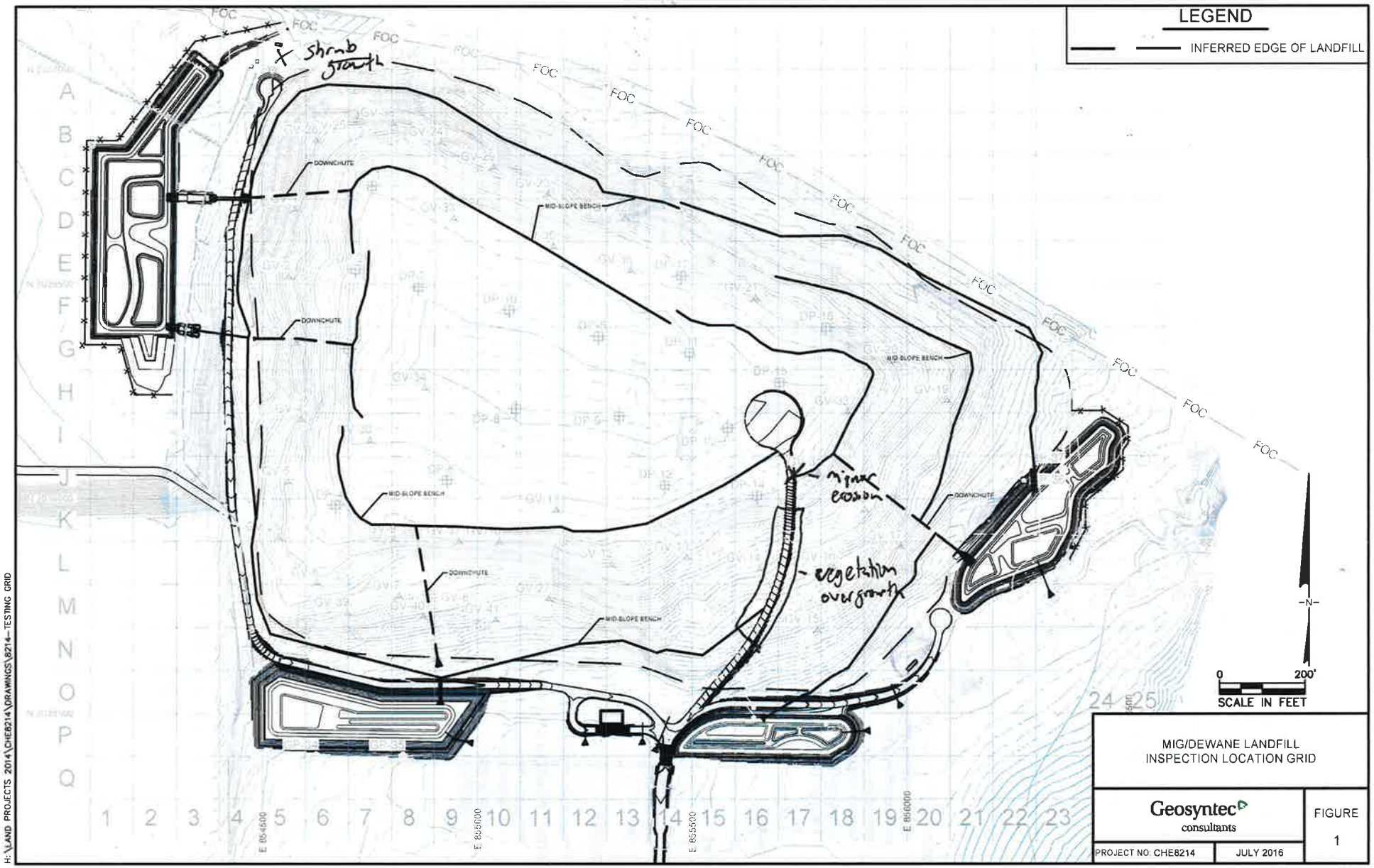
ANNUAL SITE INSPECTION CHECKLIST
MIG/DEWANE LANDFILL SUPERFUND SITE
BOONE COUNTY, ILLINOIS

PAGE: ___ OF ___

INSPECTION DATE: _____

Inspection Item (check when completed)	Note Problems and Give Grid Locations(s)	Comments (description, concerns, possible actions, photos, etc.)
☒ **Surface Water Ditches**		
• Tree/Shrub Growth		
• Ponding of water due to differential settlement		
• Accumulation of sediments		
• Integrity of channel lining (i.e. grass and riprap outlet aprons)		
• Debris or any other objects obstructing the flow		
• Other –		
Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action		
☒ **Monitoring Wells**		
• Protective casing, cover and lock		
• Protective casing settlement/alignment		
• Well casing and cap		
• Evidence of damage		
• Designation/label intact		
• Evidence of sedimentation		
• Other –		
Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action		
☒ **Access Road**		
• Erosion gullies across or along road	J-17	minor erosion
• Surface aggregate washouts or exposed geotextiles		
• Sediment/debris on road		
• Other –	K-17 — N-16	moderate overgrowth
Overall Condition: ☐ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action		
☒ **Perimeter Fences and Gates**		
• Damage to fence fabric or barbed wire		
• Holes underneath fence		
• Damage to gates and padlocks		
• Damage/missing "no trespassing" signs		
• Other –		
Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action		
Notes:		

REMINDER TO INSPECTION PERSONNEL – PHOTOS OF SITE MUST BE TAKEN DURING ALL ANNUAL SITE INSPECTIONS



MIG/DEWANE LANDFILL
INSPECTION LOCATION GRID

Geosyntec consultants

PROJECT NO. CHE8214 | JULY 2016

FIGURE 1

H:\LAND PROJECTS 2014\CHE8214\DRAWINGS\8214-TESTING GRID

4TH QUARTER 2019 INSPECTION REPORT

ROUTINE SITE INSPECTION CHECKLIST
MIG/DEWANE LANDFILL SUPERFUND SITE
BOONE COUNTY, ILLINOIS

INSPECTION DATE: 12-17-19

Inspector(s) Names: David Kein

Company: Geosyntec

Weather Conditions: 25° overcast

General Site Conditions: Good Condition
(e.g., muddy, dusty, etc.)

Inspection Item
(check when completed)

☒ General Assessment of Perimeter Fencing, Gates, & Locks
Notes: Replaced main gate lock

Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

☒ Landfill Perimeter Slopes
Notes: Good Condition

Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

☒ General Assessment of Gas Probes, Groundwater Monitoring Wells, and Gas Vents
Notes:

Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

☒ General Assessment of Leachate Collection Tanks, Flush-outs, Clean-outs, Control Panels Pumps, Containment and Truck Pad

Notes: NW Control Panel needs to be re-calibrated

Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

ANNUAL SITE INSPECTION CHECKLIST
MIG/DEWANE LANDFILL SUPERFUND SITE
BOONE COUNTY, ILLINOIS

INSPECTION DATE: _____

Inspector(s) Names: _____

Company: _____

Weather Conditions: _____

General Site Conditions: _____
(e.g., muddy, dusty, etc.)

Inspection Item (check when completed)	Note Problems and Give Grid Locations(s)	Comments (description, concerns, possible actions, photos, etc.)
☒ Landfill ***Top*** Slopes		
• Differential settlement/ponding		
• Erosion gullies		
• Drainage sufficiency towards ditches		
• Vegetation sufficiency		
• Tree/shrub growth		
• Evidence of animal burrowing		
• Other –		
Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action		
☒ Landfill ***Perimeter*** Slopes		
• Erosion gullies		
• Evidence of animal burrowing		
• Soft or slumped areas		
• Function of drain layer outlet		
• Vegetation sufficiency		
• Tree/shrub growth		
• Other –		
Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action		

Notes:

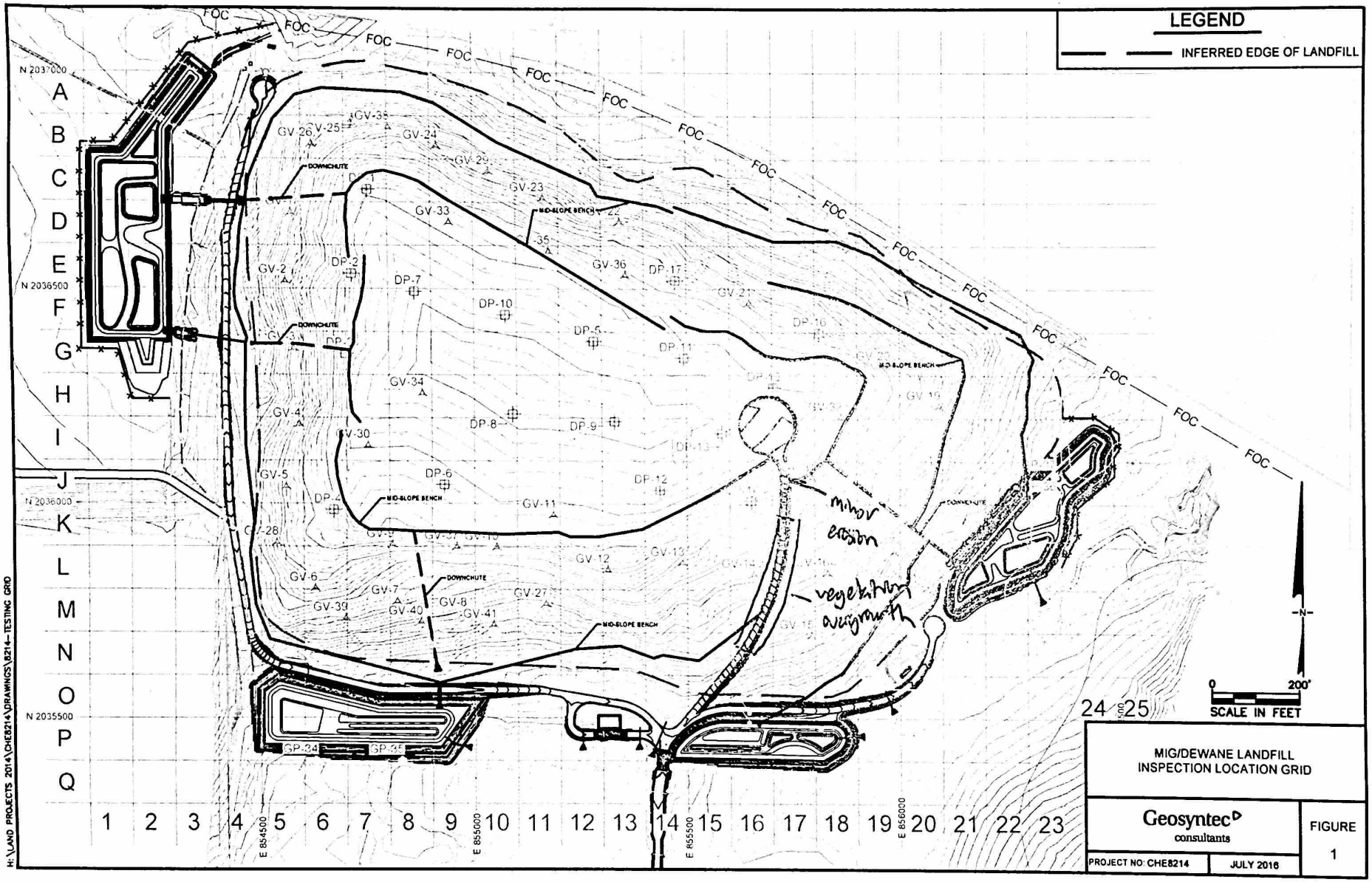
REMINDER TO INSPECTION PERSONNEL – PHOTOS OF SITE MUST BE TAKEN DURING ALL ANNUAL SITE INSPECTIONS

ANNUAL SITE INSPECTION CHECKLIST
MIG/DEWANE LANDFILL SUPERFUND SITE
BOONE COUNTY, ILLINOIS

INSPECTION DATE: _____

Inspection Item (check when completed)	Note Problems and Give Grid Locations(s)	Comments (description, concerns, possible actions, photos, etc.)
☒ **Surface Water Ditches**		
• Tree/Shrub Growth		
• Ponding of water due to differential settlement		
• Accumulation of sediments		
• Integrity of channel lining (i.e. grass and riprap outlet aprons)		
• Debris or any other objects obstructing the flow		
• Other –		
Overall Condition: ☒ Good ☐ Fair	☐ Poor	☐ Critical – Take Immediate Action
☒ **Monitoring Wells**		
• Protective casing, cover and lock		
• Protective casing settlement/alignment		
• Well casing and cap		
• Evidence of damage		
• Designation/label intact		
• Evidence of sedimentation		
• Other –		
Overall Condition: ☒ Good ☐ Fair	☐ Poor	☐ Critical – Take Immediate Action
☒ **Access Road**		
• Erosion gullies across or along road	J-17	minor erosion
• Surface aggregate washouts or exposed geotextiles		
• Sediment/debris on road		
• Other –	K-17 – N-16	vegetation overgrowth
Overall Condition: ☐ Good ☐ Fair	☐ Poor	☐ Critical – Take Immediate Action
☒ **Perimeter Fences and Gates**		
• Damage to fence fabric or barbed wire		
• Holes underneath fence		lock replaced
• Damage to gates and padlocks		
• Damage/missing "no trespassing" signs		
• Other –		
Overall Condition: ☒ Good ☐ Fair	☐ Poor	☐ Critical – Take Immediate Action
Notes:		

REMINDER TO INSPECTION PERSONNEL – PHOTOS OF SITE MUST BE TAKEN DURING ALL ANNUAL SITE INSPECTIONS


LEGEND
INFERRED EDGE OF LANDFILL
FOC
N 2037000
N 2036500
N 2036000
N 2035500
A
B
C
D
E
F
G
H
I
J
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minor erosion
vegetation overgrowth
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SCALE IN FEET
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MIG/DEWANE LANDFILL
INSPECTION LOCATION GRID
Geosyntec consultants
FIGURE
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PROJECT NO: CHE8214
JULY 2016
H:\LAND PROJECTS 2014\CHE8214\DRAWINGS\8214-TESTING GRID

APPENDIX B

PHOTOLOG

GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec consultants

Client: BFINA	**Project Number: CHE8214**
Site Name: MIG/DeWane Landfill	**Site Location: Belvidere, IL**

Photograph 1

Date: 1/11/2019

Direction: NA

Comments: Above ground storage tank

Photograph 2

Date: 1/11/2019

Direction: NA

Comments: Side slope

GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec consultants

Client: BFINA	**Project Number: CHE8214**
Site Name: MIG/DeWane Landfill	**Site Location: Belvidere, IL**

Photograph 3

Date: 1/11/2019

Direction: NA

Comments: Side slope

Photograph 4

Date: 1/11/2019

Direction: NA

Comments: Undercut fence near NW tank

GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec consultants

Client: BFINA	**Project Number: CHE8214**
Site Name: MIG/DeWane Landfill	**Site Location: Belvidere, IL**

Photograph 5

Date: 1/11/2019

Direction: NA

Comments: Solar vents along Northern perimeter

Photograph 6

Date: 1/11/2019

Direction: NA

Comments: Erosion gully

GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec consultants

Client: BFINA	**Project Number: CHE8214**
Site Name: MIG/DeWane Landfill	**Site Location: Belvidere, IL**

Photograph 7

Date: 1/11/2019

Direction: NA

Comments: Side lip

Photograph 8

Date: 1/11/2019

Direction: NA

Comments: Candlestick and NW tank

GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec consultants

Client: BFINA	**Project Number: CHE8214**
Site Name: MIG/DeWane Landfill	**Site Location: Belvidere, IL**

Photograph 9

Date: 1/11/2019

Direction: NA

Comments:
Stormwater pond

Photograph 10

Date: 1/11/2019

Direction: NA

Comments: Plateau

GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec consultants

Client: BFINA	**Project Number: CHE8214**
Site Name: MIG/DeWane Landfill	**Site Location: Belvidere, IL**

Photograph 11	
Date: 4/12/2019	
Direction: NA	
Comments: Site entrance	

Photograph 12	
Date: 4/12/2019	
Direction: NA	
Comments: Down chute	

GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec consultants

Client: BFINA	**Project Number: CHE8214**
Site Name: MIG/DeWane Landfill	**Site Location: Belvidere, IL**

Photograph 13	
Date: 4/12/2019	
Direction: NA	
Comments: Minor erosion on access road	

Photograph 14	
Date: 4/12/2019	
Direction: NA	
Comments: Plateau lip	

GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec consultants

Client: BFINA	**Project Number: CHE8214**
Site Name: MIG/DeWane Landfill	**Site Location: Belvidere, IL**

Photograph 15	
Date: 4/12/2019	
Direction: NA	
Comments: Stormwater pond	

Photograph 16	
Date: 4/12/2019	
Direction: NA	
Comments: West entrance	

GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec consultants

Client: BFINA	**Project Number: CHE8214**
Site Name: MIG/DeWane Landfill	**Site Location: Belvidere, IL**

Photograph 17	
Date: 7/30/2019	
Direction: NA	
Comments: Stormwater pond	

Photograph 18	
Date: 7/30/2019	
Direction: NA	
Comments: Borrow pit	

GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec consultants

Client: BFINA	**Project Number: CHE8214**
Site Name: MIG/DeWane Landfill	**Site Location: Belvidere, IL**

Photograph 19	
Date: 7/30/2019	
Direction: NA	
Comments: Down chute	

Photograph 20	
Date: 7/30/2019	
Direction: NA	
Comments: Blower and candlestick	

GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec consultants

Client: BFINA	**Project Number: CHE8214**
Site Name: MIG/DeWane Landfill	**Site Location: Belvidere, IL**

Photograph 21	
Date: 7/30/2019	
Direction: NA	
Comments: SE tank	

Photograph 22	
Date: 7/30/2019	
Direction: NA	
Comments: Side slope	

GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec consultants

Client: BFINA	**Project Number: CHE8214**
Site Name: MIG/DeWane Landfill	**Site Location: Belvidere, IL**

Photograph 23	
Date: 7/30/2019	
Direction: NA	
Comments: Overgrowth on access road	