

General Engineering Company
P.O. Box 340
916 Silver Lake Drive
Portage, WI 53901



Engineers • Consultants • Inspectors

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August 23rd, 2021

Little Green Lake Protection & Rehabilitation District
ATTN: Jack Goes
427 Tower Dr
Wautoma, WI 54982

Re: 2021 Little Green Lake Dam Inspection
GEC # 2-0413-127B

Dear Jack,

General Engineering Company inspected the Little Green Lake Dam on June 25th, 2021; the results of our inspection are as follows:

1.0 Background Information and Definitions:

The purpose of this inspection was to satisfy the requirements of NR 333, which requires an engineer to inspect large, low hazard dams every ten years. Wisconsin DNR requires the inspection to utilize the inspection checklist included with this report; which evaluates the individual components of the dam to note where deficiencies are found. Note that left and right are referenced by looking in the downstream direction.

The dam on this property is labeled as the Little Green Lake Dam. The key sequence number is 1211 and the field file number is 24.10. There was a single monument found on the property on the left downstream abutment. Access to the dam is provided by State Highway 44. There is no signage on the dam and there are no fences or other protection to keep people off of the dam.

The Little Green Lake Dam is comprised of an earthen embankment and a concrete culvert with wooden stoplogs that discharges to a rock lined channel. In this report, the dam structures will be distinguished as follows:

1.1 Concrete Control Structure:

The Concrete Control Structure is located on the East side of the impoundment, on the Little Green Lake Outlet that is a tributary of the Grand River, and is constructed with cast-in-place concrete wingwalls, and approximately 5 ft. x 5 ft. precast concrete culvert that has a length of



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approximately 80 ft. that runs below State Hwy. 44. The control structure appears to have 3 rows of wooden stoplogs at the upstream side of the dam.

The wooden stoplogs are formed using what appears to be 4x4 boards. Access to the structure is provided by a metal grate walkway over the upstream abutments. After the water passes over the wooden stoplogs, it passes through culvert and discharges to a rock lined channel downstream of the dam.

1.2 Earthen Embankments:

Earthen embankments make up the rest of the structure. The upstream and downstream faces of the earthen embankments are protected using dense vegetation. The crest of the dam is an asphalt paved State highway.

2.0 Key Inspection and Repair Items:

2.1 Concrete Control Structure:

The concrete structure of this dam appears to be in good condition, not showing any major cracks. There are two issues that were noted with the control structure.

The first issue is that the joint between the concrete culvert sections and the upstream wingwalls has separated in the past. There appears to be a previous repair attempt that consists of installing steel eye bolts into the face of the concrete wingwall and first culvert section, with threaded rod bolts to tie the two sections together and prevent further separation. After the installation of the bolts, the joint was then filled with a joint filler. On the day of the inspection, it was noted that the bolted connections are holding up well, but there are leaks coming through both of the joints. It is recommended that the joints be injected with SealGuard Dual component Polyurethane grout to stop the current leaks.

The second issue is that there is an approximately 2 in. diameter hole in the base of the concrete flowline in the culvert approximately 30 ft. from the stoplogs. It is recommended that the hole be filled with Xypex Patch'N Plug.

The wood stoplogs appear to be in acceptable condition at this time. There are minor leaks between some of the stoplog sections that should be monitored for worsening conditions.

2.2 Earthen Embankments

The embankments of this dam are in good condition. There is generally well-established vegetation cover that is overgrown. There is woody vegetation on the right upstream embankment near the concrete control structure, and directly above the downstream culvert. It is recommended that the vegetation be mowed on both the upstream and downstream embankments, and remove all woody vegetation around the control structure.

3.0 Timeline for Recommended Repairs:

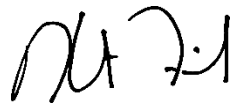
The DNR requires us to provide recommended timeframes for you to complete the above-referenced repairs as spelled out in the "*Suggested Time Frames for Follow-Up to Dam Inspection Directives*" from the DNR website. A detailed schedule for your dam, as budgets allow, is as follows:

- Concrete Control Structure:
 - Repair Seepage at Concrete Joints 3-12 Months
 - Repair Hole in Flowline 3-12 Months
- Embankments:
 - Tree/Brush Removal 6-12 Months
 - Mowing With Current Season

Please review this information and if you have any questions, please feel free to call.

Sincerely,

GENERAL ENGINEERING COMPANY



Kent E. Fish
Registered Professional Engineer

cc: Uriah Monday, DNR (w/ enclosures)
Jack Goes

Suggested Time Frames for Follow-up to Dam Inspection Directives

<u>Activity</u>	<u>Time Range</u>
Signing	30-90 days
Benchmark	6-12 months
Embankments	
Trees/brush removal	6-12 months
Erosion (investigate)	0-3 months
(repair)	3-6 months
Seepage (investigate)	0-3 months
(repair)	6-24 months
Rodents	3-6 months
Mowing	within current season
Gates (investigate)	up to 18 months
(repair)	0-36 months
Concrete (investigate)	up to 18 months
(repair)	3-36 months
Dam Failure Analysis	1-2 years (high and significant hazard) 5 years (low hazard)
EAP (interim)	6 months-1 year (high and significant hazard) 2 years (low hazard)
(based on DFA)	6 months after DFA
IOM	12 months
Safety Features	0-3 months
Inspection Report	1-3 months



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DAM INSPECTION REPORT



LITTLE GREEN LAKE DAM JUNE 2021

Prepared by:

Owner:

GENERAL ENGINEERING COMPANY

916 Silver Lake Drive
P.O. Box 340
Portage, WI 53901
Phone: (608) 742-2169
GEC No.: 2-0413-127B

LITTLE GREEN LAKE PROTECTION AND REHABILITATION DISTRICT

427 Tower Dr
Wautoma, WI 54982
Phone: (920) 787-4686

FILE INFORMATION

Detailed Information for Dam Little Green Lake Outlet

Dam Key Seq No	1211	Field File No	24.10
Size	LARGE	NID	10167
Popular Name	State Highway Comission	Former Name	

Location

County	Green Lake	Longitude	-88.972824
Latitude	43.734473		

Permitted TRS

QQQ: QQ:NE Q:NW - Sec:32 T:15N R:13E

Located TRS

Contacts

Owner	Little Green Lake Protection and Rehabilitation District	Contact	Fredrickson, Bruce
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Waterbody

Drainage Basin (sq mi)	4.80		
Stream		Impoundment	
Local Name	LITTLE GREEN LAKE OUTLET	Local Name	LITTLE GREEN LAKE
Row and Official Name		Row and Official Name	
Navigable?	not determined	Size (acres)	466.00
When was navigability determined?		Maximum Depth (ft)	28.00

Regulatory/Inspection

NR 333 Years	EAP:2014 IOM: HYD:1997 STAB: ZONE:2014		
Auth. Approval Desc		Regulatory Agency	WIDNR
Hazard Rating	Low	Estimated Hazard Rating	Low
Ferc. No		Exempt Issue Date	
Ferc. Inspection Year		License Expiration Year	

Construction Characteristics

Normal Storage (acre-ft)	500.00	Max Storage (acre-ft)	2,300.00
Structural Height (ft)	11.00	Hydraulic Height (ft)	6.00
Crest Length (ft)	1,000.00	Spillway Type	Controlled
Discharge Through Principal Spillway (cfs)	25.00	Width/Diameter of Principal Spillway (ft)	6.00
Total Discharge Through All Spillways (cfs)	75.00	Total Width/Diameter of All Spillways (ft)	6.00
Core Type		Position	
Foundation Type		Foundation Certainty	
Purposes	RECREATION	Structural Types	GRAVITY EARTH

Detailed Information for Dam Little Green Lake Outlet

Water Levels

	Normal		Winter	
	MSL	Datum	MSL	Datum
Minimum				
Normal				
Maximum				

Construction History

Designer	Construction Firm	Complete Year
MSA ASSOCIATES		1998

Outlet Gates

No data found.

Inspection History

Inspection Date	Inspection Report Date	DNR Engineer Initials	Inspection Type
7/30/2020		UM	CHECK
7/30/2013		MMH	CHECK
6/25/2012	11/30/2012	MMH	CNSLT
8/31/2009	10/7/2009	DLS	31.19
11/11/1998	6/21/1998	LJH	31.19
4/30/1975	5/9/1975	XXX	LEVEL
9/9/1969	9/12/1969	XXX	LEVEL
4/11/1961		XXX	GEN
4/11/1961	4/20/1961	XXX	LEVEL
10/10/1934	10/11/1934	XXX	LEVEL
10/10/1934		XXX	GEN
5/24/1933	6/2/1933	XXX	LEVEL
7/1/1930	7/2/1930	XXX	LEVEL
8/17/1926	8/17/1926	XXX	LEVEL
10/27/1925	10/29/1925	XXX	LEVEL

Followups

Type of Followup	Due Date	Extension Date	Completion Date
Seepage/Drainage	9/1/2014	12/1/2014	10/24/2014
Embankment repairs	8/30/2010	12/1/2014	1/1/2020
Embankment repairs	7/1/2013	12/1/2014	1/1/2020
Emergency Action Plan	1/15/2010	2/1/2014	8/21/2014
Inspection, Operation & Maintenance Manual	2/1/2014		2/1/2014
Emergency Action Plan	2/1/2014		8/21/2014
Inspection, Operation & Maintenance Manual	1/15/2010	2/1/2014	
Dam failure analysis	4/30/2011		7/25/1997
Inspection by P.E.	12/31/2008		6/25/2012
Embankment repairs	10/1/1989		11/11/1998
Schedule	8/1/1988		1/1/1998
Inspection, Operation & Maintenance Manual	6/21/1988		11/11/1998
Outlet conduit	6/21/1988		11/11/1998

Approvals

Approval Date	Docket ID	Approval Type	DNR Engineer Initials
8/1/2014		EMERGENCY ACTION PLAN	TLM
7/1/2014		PLAN APPROVAL-REPAIR, RECON; STAT 31.18	TLM
4/1/2014	NE-F-324-77(7J)	COMMUNITY HAS ADOPTED FAILURE ZONING	TLM

4/1/2014	Low - TL will send email	ASSIGN HAZARD RATING	WDS
7/1/1997		HYDROLOGY & HYDRAULIC ANALYSIS	SGJ
7/1/1997		ASSIGN HAZARD RATING	WDS
6/1/1997		DAM FAILURE ANALYSIS	WDS
6/1/1956	2-WP-1101	APPROVAL FOR TEMPORARY DRAWDOWN, 31.02	XXX
3/1/1934	2-WP-131	PLAN APPROVAL-REPAIR, RECON; STAT 31.18	XXX
7/1/1926	WP-252	LEVELS; STAT 31.02	XXX

Orders

No data found.

Inspection Schedule

Inspection Year	Inspection Type
2022	OWNER
2032	OWNER

DAM INSPECTION CHECKLIST

Consultant Inspection Process Form – for dam inspected by outside consultant

Task		Date Completed	Responsible Party	
			Owner/ Consultant	DNR
Inspection Notification *Notify dam owner of DNR inspection date/time			X	
File Research *Review last inspection report, photos, database, aerial photos, ownership information, etc.	x	6/24/2021	X	
Field Inspection *Physically inspect dam, conduct survey if required	x	6/25/2021	X	
Inspection Checklist *Fill out form documenting observations during inspection	x	6/25/2021	X	
Photo Documentation *Print and label photos, back up digital copies	x	6/25/2021	X	
Review Sufficiency Rating *Complete Sufficiency Rating questionnaire based on current condition of the dam.				X
Review Hazard Rating *Review downstream development for changes, check if downstream zoning is adopted	x	6/26/2021	X	
Review EAP *Review and update EAP, submit to DNR			X	
Review IOM *Review and update IOM, submit to DNR			X	
Inspection Report Submitted to DNR Regional Engineer			X	
Inspection Report Submitted to DNR Central Office				X
Response Letter *DNR letter which outlines work needed to be completed on the dam based on consultant inspection				X
Update database *Update owner contact information, follow-up dates, inspection dates, etc. on DNR database				X
Notify DNR of planned work * Determine if plans and specs are needed for the proposed dam work, issue proper permits or plan approvals			X	
Complete Required Elements *Owner completes required items listed in inspection report			X	
Enforcement *Pursue enforcement action against the dam owner if the required elements are not completed by the appropriate deadlines				X

Dam Name: Little Green Lake Dam

Field File #: 24.10

Engineer Completing Form: Kent Fish

Key Sequence #: 1211

Certification for Dam Inspection

Local Dam Name (PRINT): Little Green Lake Dam

DNR Field File #: 24.10

I certify that I have completed the checklist truthfully and factually:

Certifier's Name (print): Kent Fish

Company Name: General Engineering Company

Signature: 

Date: 9-28-21

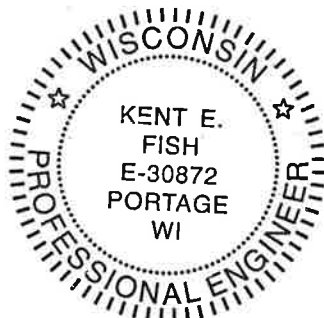
Multidisciplinary: I am experienced in the technical disciplines or I am working with other professionals experienced in the technical disciplines to properly inspect this dam and appurtenant works. Technical disciplines, in addition to general civil engineering, may include geotechnical, geological, hydrologic, structural, and mechanical:

☒ Yes ☐ No

Engineer's Wisconsin Registration Number: E 30872

Expiration Date: July 2022

Engineer's Seal (optional):



Name of Dam: Little Green Lake Dam	Date: 06/25/2021
Inspectors: Jim Nellesen	F.F #: 24.10
Owner's Name: Little Green Lake Protection & Rehabilitation District	Key Seq #: 1211
Street:	
City, State, Zip Code:	
County:	Phone:
Weather and Site conditions: Sunny, 80's, Humid	Email:

GENERAL				Action		
Item	N	P	Notes/ Observations	M	I	R
1 Monuments/Benchmarks	x	x				
			Location: Left Downstream Abutment Elevation: Measured @ 928.35' On Day Of Inspection Datum: NAVD 88			
2 Pool Level	x					
			Normal/Operating: ___/928.07' Maximum: Minimum: Staff Gage: none			
3 Access Road	x					
			County Highway 44			
4 Signage/ Security						
			Portage/route: none Dam Warning: none Downstream Hazard: none Fencing/Railings/Catwalks: none			

Additional Comments:

N= Noted; P= Photo; M= Monitor I= Investigate; R= Repair F.F.= Field File; RT = Right; LT = Left U/S = Upstream; D/S = Downstream	Action Suggestion	1. Requires immediate action 2. Plan to do soon 3. Do when convenient
--	--------------------------	---

EMBANKMENTS

Description:				Action		
Item	N	P	Location on Embankment and Deficiency			
1 Vegetation:	x		No problem			
A. Trees Quantity (<5, sparse, dense): Diameter: Location:	<input type="checkbox"/>	<input type="checkbox"/>	None			
B. Brush Quantity (sparse, dense): Location:	x	x	Sparse D/S Embankment Right Of Dam			
C. Ground cover Type (grass, crown vetch, other): Quantity (bare, sparse, adequate, dense): Appearance (too tall, too short, good):	<input type="checkbox"/>	<input type="checkbox"/>	None			
2 Erosion	x		No problem	Not applicable	Could not inspect	
A. Wave erosion (Beaching): Scarp: Length/ Width: Location:	<input type="checkbox"/>	<input type="checkbox"/>	None			
B. Runoff Erosion (Gullies) Quantity: Length/ Width/ Depth: Location:	<input type="checkbox"/>	<input type="checkbox"/>	None			
3 Instabilities	x		No problem	Not applicable	Could not inspect	
A. Slides Transverse: Longitudinal: Scarp: Length/ Width: Crack Length/ Width:	<input type="checkbox"/>	<input type="checkbox"/>	None			
B. Cracks: Transverse: Longitudinal: Length/ Width/ Depth: Location: Other:	<input type="checkbox"/>	<input type="checkbox"/>	None			
C. Bulges/ Depressions Size: Height/ Depth:	<input type="checkbox"/>	<input type="checkbox"/>	None			
D. Slope (Too Steep) U/S, D/S	<input type="checkbox"/>	<input type="checkbox"/>	None			

N= Noted; P= Photo; M= Monitor Action Suggestion 1. Requires immediate action
 I= Investigate; R= Repair 2. Plan to do soon
 F.F.= Field File; RT = Right; LT = Left 3. Do when convenient
 U/S = Upstream; D/S = Downstream

Additional Comments:

Dam Inspection Checklist

Dam Name: Little Green Lake Dam

F.F. #: 24.10

Date: 06/25/2021

P 4 of

EMBANKMENTS (Cont.)									
Item		N	P	Notes/ Observations			Action		
							M	I	R
4	Slope Protection	x	No problem		Not applicable		Could not inspect		
	A. Type (none, riprap, wave berm, concrete slabs, loose formed concrete/asphalt):	x	x	Riprap Approximately 12" Diameter					
	B. Condition:			Adequate					
5	Other	x	No problem		Not applicable		Could not inspect		
	A. Rodent burrows (few, many) Location:			None					
	B. Ruts Length/ Width/ Depth: Location:			None					
	C. Other			None					
6	Alignment	x	No problem		Not applicable		Could not inspect		
	A. Vertical Low area: Elevation Difference: Location:			None					
	B. Horizontal			None					
	C. Width Too narrow: Location:			None					
7	Toe	x	No problem		Not applicable		Could not inspect		
	Cracks/Slumps:			None					
	Embankment drains:			None					
	Type/Flow:			None					
	Location:			None					
	Seepage/ Wetness:			None					
	Hummocky:			None					
8	Seepage	x	No problem		Not applicable		Could not inspect		
	Wet area:			None					
	Boil:			None					
	Sinkhole:			None					
	Aquatic vegetation:			None					
	Rust colored deposits:			None					
	Other:			None					
	Sediment in Flow:			None					
	Flowrate:			None					
	Location:								
N= Noted; P= Photo; M= Monitor I= Investigate; R= Repair F.F.= Field File; RT = Right; LT = Left U/S = Upstream; D/S = Downstream				Action Suggestion		1. Requires immediate action 2. Plan to do soon 3. Do when convenient			
Additional Comments:									
<div style="text-align: center;">Dam Inspection Checklist</div> <div> Dam Name: Little Green Lake Dam F.F. #: 24.10 Date: 06/25/2021 Page 5 of 5 </div>									

SPILLWAY-PRINCIPAL - GATES					Action		
Item	N	P	Notes/ Observations		M	I	R
1 Gates	x		No problem	Not applicable			Could not inspect
A. Types (lift/slide, tainter(radial), stoplogs, leaf, roller, flashboards, needles, other):	x	x					
Number and Size:			(3) Stop Log Channels With 4x4 Stoplogs				
B. Stoplogs	x	x			x		
Dimensions:			4x4's 5' Length				
Condition:			Acceptable				
C. Abutments	x	x					x
Condition: *			Acceptable				
Seepage/wetness:			Minor Seepage At Joint Of Culvert To Abutment				
D. Piers (number, shape)							
Condition: *			None				
E. Operability							
Type of Operator:			Manual				
Condition(chain, cables,hoists):			None				
Security(locked?):			None				
Backup Operator:			None				
F. Access	x	x					
			Bar Grate Over Abutments				
G. Condition					x		
Rust:							
Seals (leakage):			Minor Leak				
H. Ice protection							
Type (Heaters, Bubblers, Barriers, Other)			None				
I. Debris							
Prevention (Rack, boom, etc.)			None				
J. Condition of Flowway							x
			2"-3" Diameter Hole Through Flow Line Concrete In Center Approximately 30' From Stoplogs				
K. Drains							
Type (Weep holes/ Relief drains/ Other):			None				
Flow rate:							
Location:							
L. Other							

N= Noted; P= Photo; M= Monitor

I= Investigate; R= Repair

F.F.= Field File; RT = Right; LT = Left

U/S = Upstream; D/S = Downstream

Action Suggestion

1. Requires immediate action

2. Plan to do soon

3. Do when convenient

Controlled = Gated

Uncontrolled = Overflow

Additional Comments and/or Sketch:

* Type of Concrete Problems: Spalling, cracks, exposed rebar, misalignment, joints, bug holes, efflorescence, popouts, honeycombing, scaling, craze/map cracks, isolated crack, disintegration, other

Dam Inspection Checklist

Dam Name: Little Green Lake Dam

F.F.#: 24.10

Date: 06/25/2021 Page 6 of

SPILLWAY--PRINCIPAL - OUTLET EROSION CONTROL & UNDERMINING											
								Action			
Item		N	P	Notes/ Observations				M	I	R	
1	Outlet Erosion Control		x	No problem			Not applicable	Could not inspect			
	A. Type (none, endwall, plunge pool, energy dissipation structure rock lined channel, apron)		Rock Lined Channel								
	B. Scour		<input type="checkbox"/>	<input type="checkbox"/>	None				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	C. Material		x	x					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a. Riprap: Avg Diameter: 12" average Diameter Condition (adequate, sparse, displaced, weathered): Sparse - Adequate Bedding fabric- (Yes/ No): No b. Concrete * Dimensions/Location: Concrete Flow Line										
	D. Sidewall/Headwall		<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Misalignment: None Location: Description:										
	E. Separated Joint / Loss of Joint Material:		x	x					<input type="checkbox"/>	<input type="checkbox"/>	x
	Location: U/S 1 1/2" to 2" Gap Between Culvert And Abutment w/ Seepage Description:										
	F. Natural		<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			None								
2	Undermining		No problem				Not applicable	Could not inspect			
	Location: Description:		<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			None								
<div style="display: flex; justify-content: space-between;"> <div> <p>N= Noted; P= Photo; M= Monitor</p> <p>I= Investigate; R= Repair</p> <p>F.F.= Field File; RT = Right; LT = Left</p> <p>U/S = Upstream; D/S = Downstream</p> </div> <div> <p>Action Suggestion</p> <p>Controlled = Gated Uncontrolled = Overflow</p> </div> <div> <p>1. Requires immediate action</p> <p>2. Plan to do soon</p> <p>3. Do when convenient</p> </div> </div>											
Additional Comments:											
<p>* Type of Concrete Problems: Spalling, cracks, exposed rebar, misalignment, joints, bug holes, efflorescence, popouts, honeycombing, scaling, craze/map cracks, isolated crack, disintegration, other</p>											
Dam Inspection Checklist											
<div style="display: flex; justify-content: space-between;"> Dam Name: Little Green Lake Dam F.F.#: 24.10 Date: 06/25/2021 Page <u>7</u> of <u> </u> </div>											

FIELD BOOK

Profile Leveling For:	Instrument Person: Jim Nellessen
------------------------------	---

Original Notes in Field Book #	Rod Person: Jim Nellesen
---------------------------------------	---------------------------------

Rod Person: Jim Nellessen

Instrument Used: GPS	Note Taker:
----------------------	-------------

Note Taker:

Weather Conditions: Sunny 80's

[illegible]

Bench Mark Information (Location, Elevation, Datum):

Comments:

Suggested Survey points:			
HW	Sill	Low Embankment	
TW	Crest	Lt. Groin	
D/S Channel (at toe)	Abutments	Rt. Groin	
Aux. Crest LT	Aux. Crest RT	Outlet Pipe Invert	

Outlet Pipe Invert

Dam Inspection Checklist

Dam Name: Little Green Lake Dam **F.F.#:** 24.10 **Date:** 06/25/2021 **Page** 8 **of** 10

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SKETCH

SEE ATTACHED

Dam Inspection Checklist

Dam Name: Little Green Lake Dam

F.F.#: 24.10

Date: 06/25/2021

Page 10 **of** 10

LOCATION/SURVEY MAP





General Engineering Company

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DAM MAP

LITTLE GREEN LAKE DAM INSPECTION

LITTLE GREEN LAKE PROTECTION AND REHAB DISTRICT

CITY OF GREEN LAKE

GREEN LAKE COUNTY, WI

REVISIONS	NO.	BY	DATE



0 100
SCALE

DRAWN BY	JRN
REVIEWED BY	KEF
ISSUE DATE	07/27/2021
GEC FILE NO.	2-0413-127
SHEET NO.	1

LIST OF PHOTOS

Inspection Of Little Green Lake Dam (Field File #24.10)**June 25th, 2021**

File Name	Description
0121106252101.JPG	Dam From Left Embankment
0121106252102.JPG	Dam From Right Embankment
0121106252103.JPG	View Of Upstream Concrete Dam Structure
0121106252104.JPG	View Of Downstream Outlet Structure
0121106252105.JPG	Impoundment Upstream Of Dam
0121106252106.JPG	Creek Downstream Of Dam
0121106252107.JPG	DOT Monument On Left D/S Abutment
0121106252108.JPG	Separation Of Joint At Right U/S Abutment
0121106252109.JPG	Separation Of Joint At Right U/S Abutment
0121106252110.JPG	Separation Of Joint At Left U/S Abutment
0121106252111.JPG	Separation Of Joint At Left U/S Abutment
0121106252112.JPG	Seepage At Joint At Left U/S Abutment
0121106252113.JPG	Leaking Between Stop Logs
0121106252114.JPG	Hole In Base Of Flow Line
0121106252115.JPG	Woody Vegetation On U/S Embankment
0121106252116.JPG	Woody Vegetation On D/S Embankment

General Engineering Company
P.O. Box 340
916 Silver Lake Drive
Portage, WI 53901



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Little Green Lake Dam
Dam From Left Embankment
0121106252101.JPG



Little Green Lake Dam
Dam From Right Embankment
0121106252102.JPG



Consulting Engineering • Structural Engineering • Building Design • Environmental Services
Grant Procurement & Administration • Land Surveying • Zoning Administration • Building Inspection • GIS Services





Little Green Lake Dam
View Of Upstream Concrete Dam Structure
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Little Green Lake Dam
View Of Downstream Outlet Structure
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Little Green Lake Dam
Impoundment Upstream Of Dam
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Little Green Lake Dam
Creek Downstream Of Dam
0121106252106.JPG



Little Green Lake Dam
DOT Monument On Left D/S Abutment
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Little Green Lake Dam
Separation Of Joint At Right U/S Abutment
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Little Green Lake Dam
Separation Of Joint At Right U/S Abutment
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Little Green Lake Dam
Separation Of Joint At Left U/S Abutment
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Little Green Lake Dam
Separation Of Joint At Left U/S Abutment
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Little Green Lake Dam
Seepage At Joint At Left U/S Abutment
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Little Green Lake Dam
Leaking Between Stop Logs
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Little Green Lake Dam
Hole In Base Of Flow Line
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Little Green Lake Dam
Woody Vegetation On U/S Embankment
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Little Green Lake Dam
Woody Vegetation On D/S Embankment
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