US Army Corps of Engineers ®

Site Visit Summary

TATE.	Name of System:	Gary
Army Corps		Gary Ironwood
Engineers ®	NLD System ID:	A CO 4000000
Segment Type:	,	structed, turned over to public sponsor for operations and maintenance
0 31	Name and Organization	Little Calumet River Basin Development Commission
	Prepared by: Chris S	
	Prepared by: Mike C	
Field Trip Report		Sweeney
Proport	r	

Other Segments Within This System

Segment Name	NLD Segment ID#	Segment Type
NPS - Gary North Railroad Tieback	2604000017	Non-Federally Constructed, local O&M
NPS - Martin Luther King Drive	2604000019	Non-Federally Constructed, local O&M
INDOT	2604000015	Non-Federally Constructed, local O&M
Gary Burr St	2604000005	USACE Constructed, Public sponsor O&M
Gary South	2604000004	USACE Constructed, Public sponsor O&M
Gary North	2604000003	USACE Constructed, Public sponsor O&M

Site Visit - Team Members (Levee Sponsor, USACE, and others)

Name	Organization	Discipline	Phone Number
Yuki Galisanao	USACE - Chicago District		
Art Rundzaitis	USACE - Chicago District	Construction	
Chris Schaal	USACE - Chicago District		
Mike Cook	USACE - Chicago District	Geotech	
Youa Yang	USACE - Chicago District	Geotech	

Brian Sweeney	USACE - Chicago District	Geotech	
Dan Repay	LCRBDC		
Colin Smalley	USACE	Regulatory	
Kaitlyn Wesolowski	USACE	Н&Н	
Alan Jaski	USACE	Electrical	
Andrew Lin	USACE	Structural	
Kiril Zumbulev	USACE	Mechanical	
Eric Copper	TOG		
Adam Mclade	TOG		
Jim T Harris	1st response		
Oliver King	GLEM		
Dave Washington	GLEM		
Dakari Tyler	GLEM		
Art Rundzaitis	USACE	Construction	
Jason Gerald	TOG		
Jason Gerald	TOG		
Jason Gerald	TOG		
Symeon Coleman	1st Response		
Terry Saller	1st response		
Dan Repay	LCRBDC		
Levee Safety Program Manager Signature: Yuki Galisanao, PE, PG Mair Galisanao Date: 05/08/24			

<u>Summary of Site Visit:</u> [Summarize pertinent discussions with sponsor regarding levee conditions, O&M activities, etc. and describe notable observations or changed conditions since the last site visit or inspection]

Significant issues with depressions and rutting on the crest. Minor issues with unwanted vegetation, debris encroachments, animal burrows, rutting, sod cover, depressions on the crest, concrete cracking and spalling, flap gate obstruction, and ground conductors fraying in the pump station.

Observations and Photos



Inspect ID: 2024-0001

Rated Item: 1. Unwanted Vegetation Growth Lat/Long: 41.57296/-87.32281

Caption:
No User Rating (Site Visit) - Vegetation along landside toe



Inspect ID: 2024-0003

Rated Item: 1. Unwanted Vegetation Growth Lat/Long: 41.57303/-87.32228

Caption:

No User Rating (Site Visit) - Trees on the landside berm



Rated Item: 1. Unwanted Vegetation Growth Lat/Long: 41.57273/-87.32278

Caption:
No User Rating (Site Visit) - Tree and vegetation on riverside toe



Inspect ID: 2024-0008

Rated Item: 1. Unwanted Vegetation Growth Lat/Long: 41.57285/-87.32343
Caption:

No User Rating (Site Visit) - Vegetation close to landside toe



Rated Item: 1. Unwanted Vegetation Growth Lat/Long: 41.56943/-87.32671

Caption:

No User Rating (Site Visit) - Vegetation encroaching on riverside toe



Inspect ID: 2024-0019

Rated Item: 1. Unwanted Vegetation Growth Lat/Long: 41.56806/-87.32659

Caption:

No User Rating (Site Visit) - Tree within the vegetation free zone on the riverside toe



Rated Item: 1. Unwanted Vegetation Growth Lat/Long: 41.56793/-87.32666

Caption:

No User Rating (Site Visit) - Vegetation along landside toe against the fence barrier



Inspect ID: 2024-0040

Rated Item: 1. Unwanted Vegetation Growth Lat/Long: 41.56792/-87.32509

Caption:

No User Rating (Site Visit) - Vegetation along landside toe against the fence barrier



Rated Item: 1. Unwanted Vegetation Growth Lat/Long: 41.56794/-87.32278

Caption:

No User Rating (Site Visit) - Tree growth along landside toe against the fence barrier



Inspect ID: 2024-0056

Rated Item: 1. Unwanted Vegetation Growth Lat/Long: 41.56838/-87.31699

Caption:

No User Rating (Site Visit) - Tree on landside toe



Rated Item: 1. Unwanted Vegetation Growth Lat/Long: 41.56870/-87.31559

Caption:
No User Rating (Site Visit) - Tree on riverside toe



Inspect ID: 2024-0015 Rated Item: 2. Sod Cover **Lat/Long:** 41.56982/-87.32661

Caption:

No User Rating (Site Visit) - Poor sod cover on riverside slope



Inspect ID: 2024-0027 **Rated Item:** 2. Sod Cover **Lat/Long:** 41.56801/-87.32509

Caption:
No User Rating (Site Visit) - Poor sod cover on riverside slope



Inspect ID: 2024-0029 Rated Item: 2. Sod Cover **Lat/Long:** 41.56801/-87.32538

Caption:
No User Rating (Site Visit) - Poor sod cover on riverside slope



Rated Item: 3. Encroachments Lat/Long: 41.56922/-87.32669

Caption:
No User Rating (Site Visit) - Downed tree on riverside toe



Inspect ID: 2024-0024

Rated Item: 3. Encroachments **Lat/Long:** 41.57138/-87.32677

Caption:
No User Rating (Site Visit) - Tire on landside toe



Rated Item: 3. Encroachments Lat/Long: 41.56803/-87.32680

Caption:
No User Rating (Site Visit) - Debris and tree branches along landside slope



Inspect ID: 2024-0041

Rated Item: 3. Encroachments Lat/Long: 41.56837/-87.31744
Caption:
No User Rating (Site Visit) - Debris on crown



Rated Item: 3. Encroachments Lat/Long: 41.56826/-87.31831

Caption:

No User Rating (Site Visit) - Debris encroaching on riverside slope



Inspect ID: 2024-0060

Rated Item: 3. Encroachments Lat/Long: 41.56857/-87.31665

Caption:

No User Rating (Site Visit) - Metal debris encroaching on riverside toe



Inspect ID: 2024-0035 Rated Item: 7. Settlement Lat/Long: 41.56864/-87.31667

Caption:
No User Rating (Site Visit) - Settlement of riverside toe and slope - likely due to collapsed animal burrows



Inspect ID: 2024-0004

Rated Item: 8. Depressions/ Rutting Lat/Long: 41.57284/-87.32250 Caption:

No User Rating (Site Visit) - Ponding along landside toe



Rated Item: 8. Depressions/ Rutting Lat/Long: 41.57269/-87.32551

Caption:

No User Rating (Site Visit) - Depression and rutting in crown



Inspect ID: 2024-0011

Rated Item: 8. Depressions/ Rutting Lat/Long: 41.57274/-87.32393 Caption:

No User Rating (Site Visit) - Five-inch deep depression on riverside toe and slope - likely

from erosion



Rated Item: 8. Depressions/ Rutting Lat/Long: 41.57280/-87.32409

Caption:
No User Rating (Site Visit) - Rutting and ponded water along the levee crown



Inspect ID: 2024-0013

Rated Item: 8. Depressions/ Rutting Lat/Long: 41.57259/-87.32596 Caption:

No User Rating (Site Visit) - Rutting along landside toe



Rated Item: 8. Depressions/ Rutting Lat/Long: 41.57182/-87.32676

Caption:

No User Rating (Site Visit) - Ponding and rutting along levee crown



Inspect ID: 2024-0023

Rated Item: 8. Depressions/ Rutting Lat/Long: 41.56799/-87.32641 Caption:

No User Rating (Site Visit) - Rutting from vehicle tires along riverside slope



Rated Item: 8. Depressions/ Rutting Lat/Long: 41.56795/-87.32659

Caption:
No User Rating (Site Visit) - Minor depression in crown



Inspect ID: 2024-0028

Rated Item: 8. Depressions/ Rutting Lat/Long: 41.56916/-87.32674 Caption:

No User Rating (Site Visit) - Ponding/depression at culvert inlet along landside toe



Inspect ID: 2024-0037
Rated Item: 8. Depressions/ Rutting
Lat/Long: 41.56829/-87.31793

Caption:
No User Rating (Site Visit) - Moderate rutting and depressions with ponding in crown



Inspect ID: 2024-0049

Rated Item: 8. Depressions/ Rutting
Lat/Long: 41.56868/-87.31620
Caption:
No User Rating (Site Visit) - Rutting and ponding in crown



Rated Item: 8. Depressions/ Rutting Lat/Long: 41.56864/-87.31625

Caption:

No User Rating (Site Visit) - Rutting and ponding along levee crown



Inspect ID: 2024-0072

Rated Item: 8. Depressions/ Rutting Lat/Long: 41.56850/-87.31518 Caption:

No User Rating (Site Visit) - Rutting and ponding along levee crown



Rated Item: 10. Animal Control Lat/Long: 41.56841/-87.31746

Caption:
No User Rating (Site Visit) - Animal burrows along riverside slope (typical)



Inspect ID: 2024-0052

Rated Item: 10. Animal Control **Lat/Long:** 41.56836/-87.31710

Caption:
No User Rating (Site Visit) - Animal burrow activity along landside toe and slope



Rated Item: 2. Encroachments Lat/Long: 41.57284/-87.32514

Caption:
No User Rating (Site Visit) - Tires in landside ditch



Inspect ID: 2024-0016

Rated Item: 2. Encroachments **Lat/Long:** 41.57285/-87.32507

Caption:
No User Rating (Site Visit) - Trees and tires in landside ditch



Rated Item: 5. Concrete Surfaces (Such as gatewells, outfalls, intakes, or

culverts)

Lat/Long: 41.56797/-87.32545

Caption:

No User Rating (Site Visit) - IW-04: Spalling on corner of inlet structure



Inspect ID: 2024-0081

Rated Item: 5. Concrete Surfaces (Such as gatewells, outfalls, intakes, or

Lat/Long: 41.56804/-87.32497

Caption: 0081 - No User Rating (Site Visit) - IW05: Damage to concrete.



Rated Item: 7. Foundation of Concrete Structures (Such as culverts, inlet and

discharge structures, or gatewells.) **Lat/Long:** 41.56852/-87.31696

Caption:

No User Rating (Site Visit) - IW-06: Erosion around gate wingwall



Inspect ID: 2024-0002

Rated Item: 10. Sluice / Slide Gates **Lat/Long:** 41.56798/-87.32546

Caption:

No User Rating (Site Visit) - IW-04: Operated successfully



Rated Item: 10. Sluice / Slide Gates **Lat/Long:** 41.56954/-87.32664

Caption:

No User Rating (Site Visit) - IW-03: Operated successfully



Inspect ID: 2024-0074

Rated Item: 10. Sluice / Slide Gates **Lat/Long:** 41.57300/-87.32152

Caption:

0074 - No User Rating (Site Visit) IW-01: operated successfully.



Rated Item: 10. Sluice / Slide Gates **Lat/Long:** 41.56794/-87.32493

Caption:

0075 - No User Rating (Site Visit) IW-05: operated successfully.



Inspect ID: 2024-0078

Rated Item: 10. Sluice / Slide Gates **Lat/Long:** 41.57300/-87.32152

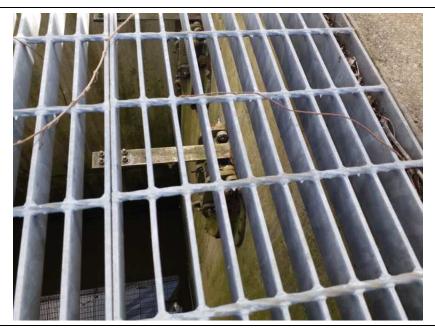
Caption: 0078 - No User Rating (Site Visit) - IW-01: operated successfully.



Rated Item: 11. Flap Gates/ Flap Valves/ Pinch Valves Lat/Long: 41.56954/-87.32665

Caption:

No User Rating (Site Visit) - IW-03: Flap gate not sealing



Inspect ID: 2024-0076

Rated Item: 11. Flap Gates/ Flap Valves/ Pinch Valves Lat/Long: 41.57302/-87.32152

Caption:

0076 - No User Rating (Site Visit) IW-02: flap gates sealing well.



Rated Item: 11. Flap Gates/ Flap Valves/ Pinch Valves Lat/Long: /-87.32152

Caption:

0080 - No User Rating (Site Visit) - IW-02: flap gates sealing well



Inspect ID: 2024-0030

Rated Item: 2. Pump Station Operations and Maintenance Equipment Manuals Lat/Long: 41.57300/-87.32153

Caption:

No User Rating (Site Visit) - PS-IW: No operations manuals on site. Kept in central location



Rated Item: 6. Fencing and Gates Lat/Long: 41.57300/-87.32154

Caption:

No User Rating (Site Visit) - PS-IW: Vegetation in fence - less than previous years



Inspect ID: 2024-0018

Rated Item: 14. Electrical Systems Lat/Long: 41.57299/-87.32155

Caption:

No User Rating (Site Visit) - PS-IW: Cables should not be routed on top of hot transformer



Rated Item: 14. Electrical Systems Lat/Long: 41.57299/-87.32155

Caption:

No User Rating (Site Visit) - PS-IW: Missing bolt on transformer



Inspect ID: 2024-0026

Rated Item: 14. Electrical Systems Lat/Long: 41.57299/-87.32154

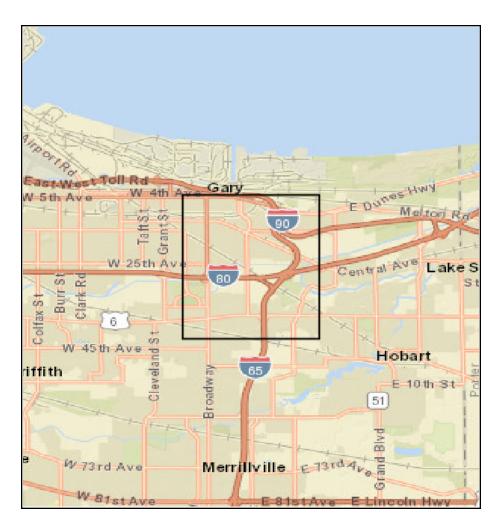
Caption:

No User Rating (Site Visit) - PS-IW: Ground conductor is starting to fray



SHEET INDEX

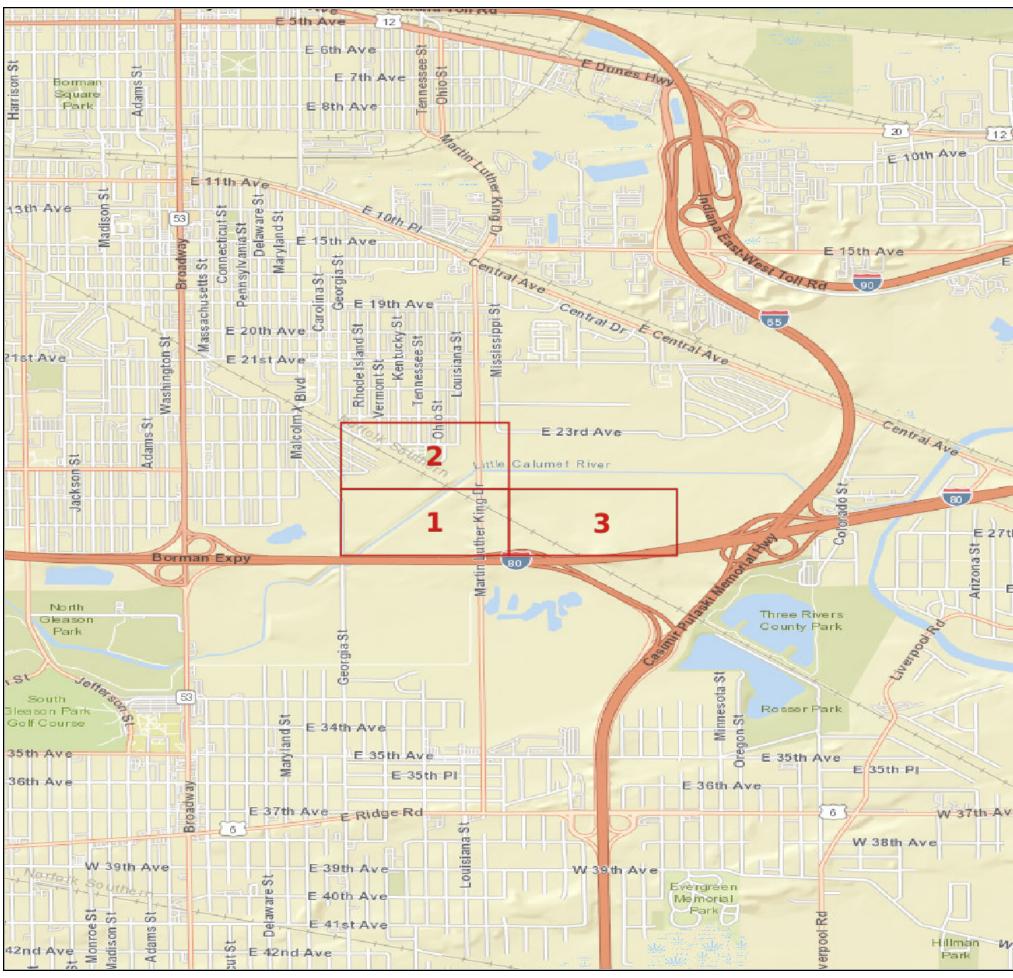
Levee: Gary Ironwood

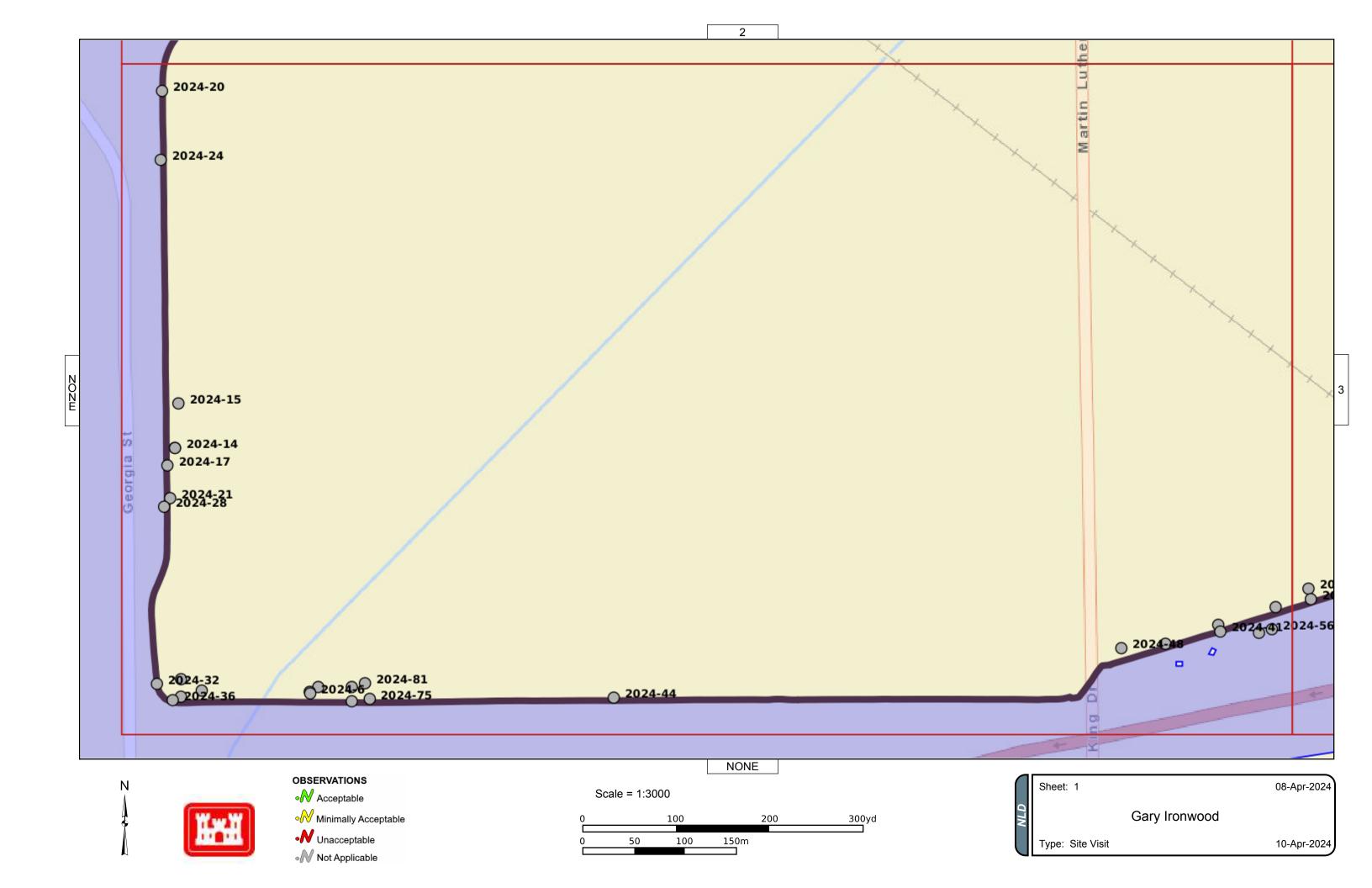


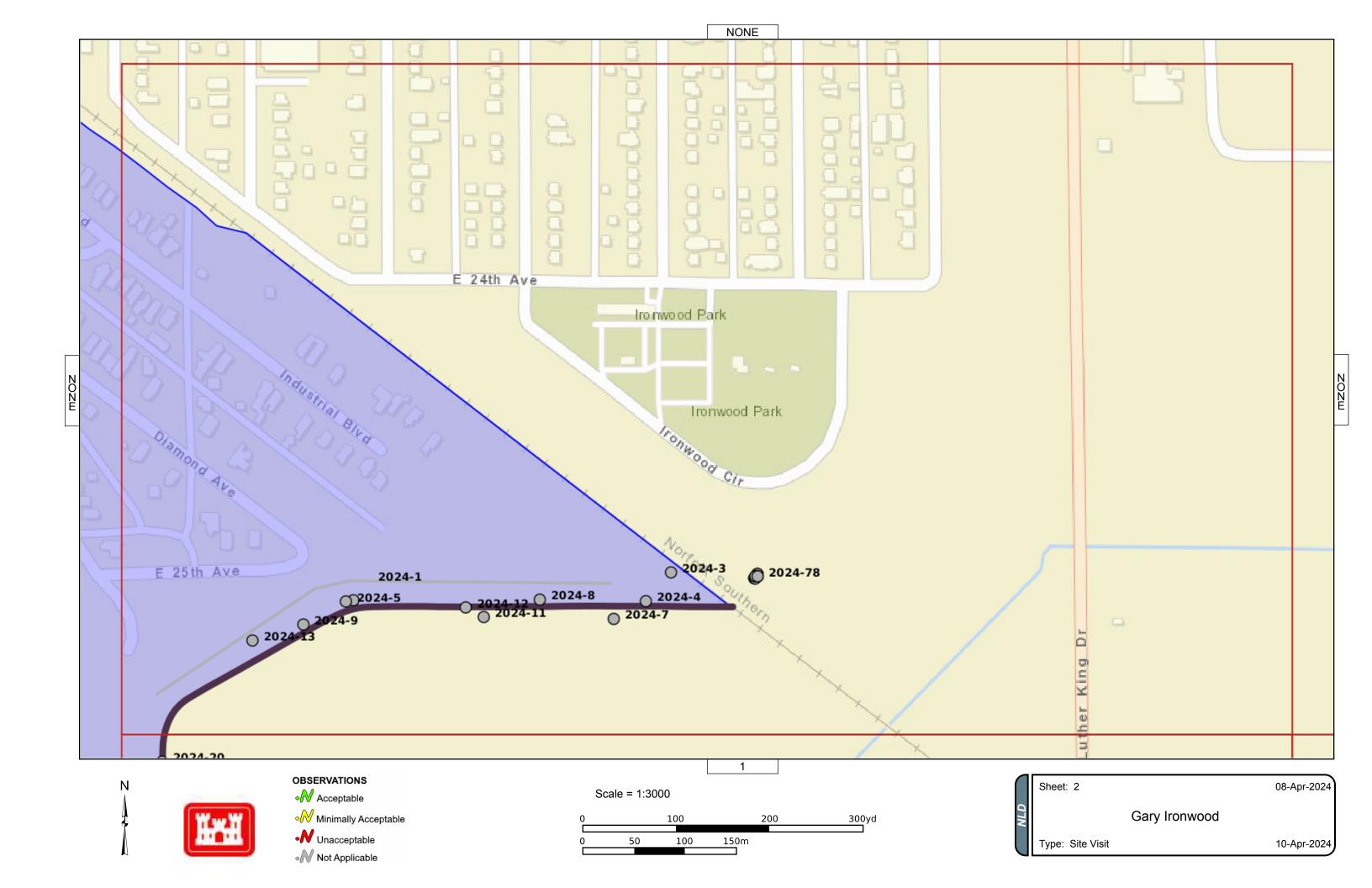
MAP ELEMENTS

3 Standard Sheets









NONE 2024-60 2024-68 2024-72 Borman Expy 80 NONE **OBSERVATIONS** Sheet: 3 Ν 08-Apr-2024 • Acceptable Scale = 1:3000 Minimally Acceptable Gary Ironwood 300yd 100 200 • Unacceptable 150m 100 Type: Site Visit 10-Apr-2024 Not Applicable

Subset of Inspection Items for Rehabilitation Program Eligibility Determination In order to be eligible, all of the following items must be rated A, M, N/A or Yes. Note: Item numbers listed below refer to their placement in the Inspection Checklist for the Gary Ironwood Segment – Gary System.

Rehabilitation Program Eligibility Determination				
Yes	\boxtimes	Public sponsor provided maintenance information per the Public Sponsor Pre-		
No		Inspection Form.		
Yes				
No		Non-federal levee system meets Initial Eligibility criteria.		
N/A				
If eith	er of tl	he above items is marked "No" the levee system is not eligible.		
Rating		Rated Item		
Levee	Emba	ankments		
Α				
M	$\overline{\boxtimes}$	3. Encroachments		
U				
Α				
U		4. Closure Structures (Stop Log, Earthen Closures, Gates, or Sandbag		
N/A	\boxtimes	Closures)		
Α	\boxtimes			
M		5. Slope Stability		
U				
Α	\boxtimes			
M		6. Erosion/ Bank Caving		
U				
Α				
M	\boxtimes	10. Animal Control		
U				
Α	\boxtimes			
M		11. Culverts/Discharge Pipes (This item includes both concrete and		
U		corrugated metal pipes.)		
N/A				
Α				
M		14. Underseepage Relief Wells/Toe Drainage Systems		
U				
N/A				
Floodwalls – N/A				
Α				
M		2. Encroachments		
U				
Α				
U		3. Closure Structures (Stop Log Closures and Gates)		
N/A				
Α				
M		5. Tilting, Sliding, or Settlement of Concrete Structures		
U				
Α				
M		6. Foundation of Concrete Structures		
U				

A	8. Underseepage Relief Wells/Toe Drainage Systems				
N/A Drai	inaga System				
	nage System				
A	9. Culverts/Discharge Pipes				
A ⊠ M □ U □ N/A □	10. Sluice/Slide Gates				
A	11. Flap Gates/Flap Valves/Pinch Valves				
Pump Stations – N/A					
A ⊠ M □ U □	17. Intake and Discharge Pipelines				
A ⊠ M □ U □ N/A □	18. Sluice/Slide Gates				
A ⊠ M □ U □ N/A □	19. Flap Gates/Flap Valves/Pinch Valves				
Rehabilitatio	Rehabilitation Program Status				
Active 🖂	System meets all interim eligibility criteria, including having received a rating of A, M, N/A or Yes for all subset items and is therefore eligible for rehabilitation assistance.				
Inactive	System does not meet interim eligibility requirements.				
Comments: Only minor issues noted for the system.					