



**US Army Corps
of Engineers®**

Levee Inspection Report

Name of System: Hammond

Name of Segment: Hammond

NLD System ID: 2605000009

NLD Segment ID: 2604000008

Segment Type: USACE Constructed, Public sponsor O&M

Levee Sponsor (Name and Organization): Little Calumet River Basin Development Commission, Little Calumet River Basin Development Commission

Inspection Report Prepared by: Yuki Galisanao

Date(s) of Inspection: 06/23/2021 - 06/24/2021

Other Segments Within This System

Segment Name	NLD Segment ID#	Segment Type	Segment Inspection Rating

Contents of Inspection Report:

☒ Levee Inspection Summary

Inspection Checklist

- ☒ General Items
- ☒ Levee Embankment
- ☒ Concrete Floodwalls
- ☒ Interior Drainage System
- ☒ Pump Stations
- ☐ FDR System Channels

☒ Public Sponsor Pre-Inspection Form

☒ National Flood Insurance Program (NFIP) - 44 CFR 65.10
Provision Evaluation

☒ General Instructions

☒ Maps

Type of Inspection: ☒ Routine Inspection ☐ Periodic Inspection ☐ Special Inspection

Purpose of Special Inspection: _____

Type text here

Ratings:

Segment Rating: ☐ Acceptable ☒ Minimally Acceptable ☐ Unacceptable ☐ No Verdict

System Rating: ☐ Acceptable ☒ Minimally Acceptable ☐ Unacceptable ☐ No Verdict

LSPM Signature:

William A. Rockford

Date Approved: 17 Sep 2021

LSO Signature:

John A Groboski

Date Approved: 20 SEP 2021

Levee Inspection Team Members (Levee Sponsor, USACE, and Others)

Name	Organization	Discipline	Phone Number
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Segment Rating Rationale:

[Describe the basis of the Segment rating considering (1) the general condition of the segment, (2) the rationale for Item ratings, categorized by Feature that contributed to the Segment rating, and (3) the number or severity of notable observations/deficiencies. The summary may also include information related to the condition of the levee, not otherwise captured in the Levee Inspection Checklist, if applicable.]

Minor issues with trees and tall vegetation, poor sod, encroachments, erosion, settlement at the wall transitions, rutting, animal burrows, gabion baskets, minor issues with the railroad closure, spalling and exposed rebar on the concrete cap, holes at the base of the concrete panels and at transitions, deteriorating sealant, vegetation and silt at the outlets, minor issues with the culverts, corrosion, debris in the sluice and flap gates, offset manhole covers, missing safety signs, minor structural issues at the pump stations, broken fencing, leaking pumps, corrosion, exhaust fans, trash rake, broken indicator light, arc flash warning signs, influent sluice gate, and loose grating. Other Metallic Items received an Unsatisfactory rating because of a broken ladder and screen but the sponsor is addressing these issues and they do not impact the performance of the levee system.

System Rating Rationale:

[Synthesize information from the Segment rating rationales for each Segment within the System. For single-segment systems, see segment rating rationale above.]

Same as segment rating.

General Items for All Flood Damage Reduction Segments / Systems: Hammond
For use during all inspections of all Flood Damage Reduction Segments / Systems

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
1. Operations and Maintenance Manuals	A	A	Levee Owner's Manual, O&M Manuals, and/or manufacturer's operating instructions are present.	Justification: Documents maintained by the City Engineering Department and relevant copies distributed to appropriate internal agencies.
		M	Sponsor manuals are lost or missing or out of date; however, sponsor will obtain manuals prior to next scheduled inspection.	
		U	Sponsor has not obtained lost or missing manuals identified during previous inspection.	
2. Emergency Supplies and Equipment (A or M only)	A	A	The sponsor maintains a stockpile of sandbags, shovels, and other flood fight supplies which will adequately supply all needs for the initial days of a flood fight. Sponsor determines required quantity of supplies after consulting with inspector.	2021-0173 : The sandbags are located at the water facility right off of Calumet Avenue. There are about 1200 sand bags and sand to make more bags if needed. (A) Justification: City of Hammond has ready inventory of flood fighting supplies and equipment. Primary resources are available through Public Works Department, but also can be supplemented by other city departments. Street Dept Public Works facility at 601 Conkey maintains pay loaders, 12 new trucks, 30 existing trucks, 4 front loaders, 26 concrete blocks, portable welders, approximately 1500 sandbags, 2 forklifts, pile of sand, 5k empty sandbags, and visqueen. Borrow source is Krooswyk. Hammond manually fills sandbags or uses a salt spreader to fill large quantities of bags.
		M	The sponsor does not maintain an adequate supply of flood fighting materials as part of their preparedness activities.	
3. Flood Preparedness and Training (A or M only)	A	A	Sponsor has a written system-specific flood response plan and a solid understanding of how to operate, maintain, and staff the FDR system during a flood. Sponsor maintains a list of emergency contact information for appropriate personnel and other emergency response agencies.	Justification: Hammond uses the RAVE emergency notification system to send messages to residents via phone, email, and web. They also use reverse 911, WJOB radio station, door to door, loud speaker, and police to relay information. Public Works also uses frequency radios with the police and fire departments. Evacuation areas include City Hall, Civic Center, Jean Shepherd Community Center, Armory, Purdue University Calumet, Area Career Center. Fire Department has rescue boats. Public Works and Sanitary District were ready to mobilize. Dyer and Grimmer were on hand to assist with flood fighting if required. Updated Flood Handbooks were provided in 2019.
		M	The sponsor maintains a good working knowledge of flood response activities, but documentation of system-specific emergency procedures and emergency contact personnel is insufficient or out of date.	

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Levee Embankments: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
1. Unwanted Vegetation Growth	M	A	The levee has little or no unwanted vegetation (trees, bush, or undesirable weeds), except for vegetation that is properly contained and/or situated on overbuilt sections, such that the mandatory 3-foot root-free zone is preserved around the levee profile. The levee has been recently mowed. The vegetation-free zone extends 15 feet from both the landside and riverside toes of the levee to the centerline of the tree. If the levee access easement doesn't extend to the described limits, then the vegetation-free zone must be maintained to the easement limits. Reference EM 1110-2-301 or Corps policy for regional vegetation variance.	2021-0024 : Tall veg on riverside slope. Cut. (M) 2021-0028 : Large bushes about 5 ft from landside toe. Cut. (M) 2021-0108 : Tall veg from lack of mowing around stakes on landside. Remove stakes and mow. (M) 2021-0124 : Small trees, tall veg on riverside toe. Cut. (M) 2021-0148 : Overhang from trees on the riverside. Cut back. (M) 2021-0160 : Trim trees back. (M)
		M	Minimal vegetation growth (brush, weeds, or trees 2 inches in diameter or smaller) is present within the zones described above. This vegetation must be removed but does not currently threaten the operation or integrity of the levee.	2021-0172 : Trees on riverside toe. Cut. (M) 2021-0204 : Medium size trees on riverside slope. Cut. (M) 2021-0249 : Remove tall vegetation 15 ft from the riverside toe. (M)
		U	Significant vegetation growth (brush, weeds, or any trees greater than 2 inches in diameter) is present within the zones described above and must be removed to reestablish or ascertain levee integrity.	2021-0257 : Tall vegetation on landside toe. Remove within 15ft from the toe. (M) 2021-0360 : Vegetation near riverside toe. Cut. (M) 2021-0377 : Trees on riverside toe and slope. Cut. (M) 2021-0380 : Trees within 15 ft of landside toe. Cut back. (M) 2021-0384 : Trees near riverside toe. Cut back. (M) 2021-0389 : Tall vegetation on riverside slope. Monitor. (A) 2021-0404 : Tree and tall vegetation on riverside toe. Cut. (M) 2021-0408 : Small tree on riverside. Cut. (M) 2021-0484 : Tall vegetation on landside toe. Cut. (M) 2021-0488 : Tall vegetation on riverside slope. Cut. (M) 2021-0532 : Trees on landside toe. Cut. (M) 2021-0536 : Tall vegetation and trees on riverside. Cut. (M) 2021-0556 : Tall vegetation on the riverside toe. Cut. (M) 2021-0560 : Tall vegetation on riverside. Cut. (M) 2021-0596 : Tall vegetation on riverside toe and slope. Cut. (M) 2021-0600 : Tall vegetation on riverside toe. Cut. (M) 2021-0604 : Tall vegetation and trees on landside toe. Cut back. (M) 2021-0636 : Tall vegetation on riverside toe. Cut. (M) 2021-0664 : Remove two trees near landside toe. (M) 2021-0676 : Remove tall vegetation and trees within 15 ft from the landside toe. (M) 2021-0680 : Remove tall vegetation and trees within 15 ft from the landside toe. (M) 2021-0704 : Cut tall vegetation on landside toe. (A) 2021-0728 : Remove tall vegetation and trees within 15 ft from the landside toe. (M) 2021-0736 : Cut trees within 15 ft from the riverside toe. (M)

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**Flood Damage Reduction Segments / Systems
Inspection Report
Hammond**

**Levee Embankments
Page 1 of 5**

Levee Embankments: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
2. Sod Cover	M	A	There is good coverage of sod over the levee.	2021-0592 : Poor sod on landside slope. Seed. (M)
		M	Approximately 25% of the sod cover is missing or damaged over a significant portion or over significant portions of the levee embankment. This may be the result of over-grazing or feeding on the levee, unauthorized vehicular traffic, chemical or insect problems, or burning during inappropriate seasons.	
		U	Over 50% of the sod cover is missing or damaged over a significant portion or portions of the levee embankment.	
		N/A	Surface protection is provided by other means.	
3. Encroachments	M	A	No trash, debris, unauthorized farming activity, structures, excavations, or other obstructions present within the easement area. Encroachments have been previously reviewed by the Corps, and it was determined that they do not diminish proper functioning of the levee.	2021-0032 : Concrete block on riverside slope. Remove. (M) 2021-0112 : Stakes along landside toe. Remove. (M) 2021-0208 : Multiple logs on riverside slope. Remove. (M) 2021-0253 : Attached property draining onto landside toe and causing erosion. Local sponsor notified and addressing. (M) 2021-0265 : Remove fallen tree. (M) 2021-0277 : Memorial on levee crest. Remove. (M) 2021-0281 : Remove fire hose on riverside slope. (M) 2021-0289 : Remove dead tree on riverside toe. (M) 2021-0293 : Remove debris pile from riverside slope. (M) 2021-0420 : Signs on the crest. Remove and restore the levee. (M) 2021-0440 : Three wood beams on the riverside. Remove. (M) 2021-0640 : Remove various logs on the landside. (M) 2021-0644 : Remove fallen trees and logs from the landside. (M) 2021-0656 : Remove logs from the riverside. (M) 2021-0708 : Remove concrete pipes on the landside. (M) 2021-0724 : Remove concrete debris along landside toe. (M) 2021-0760 : Remove two concrete blocks from crest. (M)
		M	Trash, debris, unauthorized farming activity, structures, excavations, or other obstructions present, or inappropriate activities noted that should be corrected but will not inhibit operations and maintenance or emergency operations. Encroachments have not been reviewed by the Corps.	
		U	Unauthorized encroachments or inappropriate activities noted are likely to inhibit operations and maintenance, emergency operations, or negatively impact the integrity of the levee.	
4. Closure Structures	NA	A	Closure structure in good repair. Placing equipment, stoplogs, and other materials are readily available at all times. Components are clearly marked and installation instructions/ procedures readily available. Trial erections have been accomplished in accordance with the O&M Manual.	
		U	Any of the following issues is cause for this rating: Closure structure in poor condition. Parts missing or corroded. Placing equipment may not be available within the anticipated warning time. The storage vaults cannot be opened during the time of inspection. Components of closure are not clearly marked and installation instructions/ procedures are not readily available. Trial erections have not been accomplished in accordance with the O&M Manual.	
		N/A	There are no closure structures along this component of the FDR segment / system.	
5. Slope Stability	A	A	No slides, sloughs, tension cracking, slope depressions, or bulges are present.	2021-0392 : Steep riverside slope, 1.5:1. Monitor. (A)
		M	Minor slope stability problems that do not pose an immediate threat to the levee embankment.	
		U	Major slope stability problems (ex. deep seated sliding) identified that must be repaired to reestablish the integrity of the levee embankment.	

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**Flood Damage Reduction Segments / Systems
Inspection Report
Hammond**

**Levee Embankments
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Levee Embankments: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
6. Erosion/ Bank Caving	M	A	No erosion or bank caving is observed on the landward or riverward sides of the levee that might endanger its stability.	2021-0001 : Erosion on riverside toe. About 5 feet of bank remaining from toe. Significant change since 2020. If the cause is determined to be from the Baring Pump Station, extend the pipe with a bend to direct flow away from the bank, otherwise, armor with riprap. (M) 2021-0396 : Erosion on riverside toe. Armor. (M) 2021-0632 : Typical erosion along riverside toe. Armor. (M) 2021-0660 : Erosion next to headwall. Armor. (M)
		M	There are areas where minor erosion is occurring or has occurred on or near the levee embankment, but levee integrity is not threatened.	
		U	Erosion or caving is occurring or has occurred that threatens the stability and integrity of the levee. The erosion or caving has progressed into the levee section or into the extended footprint of the levee foundation and has compromised the levee foundation stability.	
7. Settlement	M	A	No observed depressions in crown. Records exist and indicate no unexplained historical changes.	2021-0080 : Settlement at tie in, 4 inches lower than sheet pile. Restore levee crest. (M) 2021-0100 : 3 inch settlement at wall. Restore levee crest. (M) 2021-0128 : 2 inch settlement at wall tie-in. Restore levee crest. (M) 2021-0164 : Settlement 6 inches at the wall. Restore levee crest. (M) 2021-0177 : Wall tie in is 2 inches lower than levee and depressions forming. Fill to grade. (M)
		M	Minor irregularities that do not threaten integrity of levee. Records are incomplete or inclusive.	
		U	Obvious variations in elevation over significant reaches. No records exist or records indicate that design elevation is compromised.	
8. Depressions/ Rutting	M	A	There are scattered, shallow ruts, pot holes, or other depressions on the levee that are unrelated to levee settlement. The levee crown, embankments, and access road crowns are well established and drain properly without any ponded water.	2021-0016 : Depression on landside slope. Fill to grade. (M) 2021-0020 : Deep rut on landside toe. Fill to grade. (M) 2021-0261 : Deep ruts on riverside toe. Fill. (M) 2021-0648 : Depression on riverside toe. Fill. (M) 2021-0740 : Rutting on the crest. Fill and seed. (M) 2021-0744 : Rutting on the crest. Fill and seed. (M) 2021-0748 : Rutting on the crest. Fill and seed. (M) 2021-0756 : Rutting on the crest. Fill and seed. (M)
		M	There are some infrequent minor depressions less than 6 inches deep in the levee crown, embankment, or access roads that will pond water.	
		U	There are depressions greater than 6 inches deep that will pond water.	
9. Cracking	A	A	Minor longitudinal, transverse, or desiccation cracks with no vertical movement along the crack. No cracks extend continuously through the levee crest.	2021-0652 : Longitudinal cracking on the crest, typical along the levee system. Monitor. (A)
		M	Longitudinal and/or transverse cracks up to 6 inches in depth with no vertical movement along the crack. No cracks extend continuously through the levee crest. Longitudinal cracks are no longer than the height of the levee.	
		U	Cracks exceed 6 inches in depth. Longitudinal cracks are longer than the height of the levee and/or exhibit vertical movement along the crack. Transverse cracks extend through the entire levee width.	
10. Animal Control	M	A	Continuous animal burrow control program in place that includes the elimination of active burrowing and the filling in of existing burrows.	2021-0025 : HA-6: There is an animal burrow on the opposite side of the sluice gate fence . Fill. (M) 2021-0192 : Animal holes, 2 inches deep. Fill. (M) 2021-0245 : Animal burrow going into floodwall. 8 inch diameter. Fill. (M) 2021-0373 : 3 burrows, 6 inches deep each. Fill. (M) 2021-0444 : Two foot deep, five inch diameter hole by wall. Fill. (M) 2021-0616 : Animal burrow at floodwall tie in. Fill. (M) 2021-0684 : Very deep burrow on floodwall tie in. Fill. (M)
		M	The existing animal burrow control program needs to be improved. Several burrows are present which may lead to seepage or slope stability problems, and they require immediate attention.	
		U	Animal burrow control program is not effective or is nonexistent. Significant maintenance is required to fill existing burrows, and the levee will not provide reliable flood protection until this maintenance is complete.	

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**Flood Damage Reduction Segments / Systems
Inspection Report
Hammond**

**Levee Embankments
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Levee Embankments: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
11. Culverts/ Discharge Pipes (This item includes both concrete and corrugated metal pipes.)	M	A	There are no breaks, holes, cracks in the discharge pipes/ culverts that would result in significant water leakage. The pipe shape is still essentially circular. All joints appear to be closed and the soil tight. Corrugated metal pipes, if present, are in good condition with 100% of the original coating still in place (either asphalt or galvanizing) or have been relined with appropriate material, which is still in good condition. Condition of pipes has been verified using television camera video taping or visual inspection methods within the past five years, and the report for every pipe is available for review by the inspector.	Justification: Camera inspection performed in June and July 2016 for the following culverts: 24-inch RCP (HA-1) 24-inch RCP (HA-2) 24-inch RCP (HA-3) 84-inch RCP (HA-4) 24-inch RCP (HA-5) 36-inch RCP (HA-6) 24-inch RCP (HA-7) - Gasket removed at joint (M) 54-inch RCP (HA-8) 24-inch RCP (HA-9) 36-inch RCP (HA-10) - Offset joint and small separation (M) 24-inch RCP (HA-11) 84-inch RCP (HA-12) 36-inch RCP (HA-13) 30-inch RCP (HA-14) 48-inch RCP (HA-15A) - Concrete obstruction (M) 36-inch RCP (HA-15B) 60-inch RCP (HA-15C) 60-inch RCP (HA-16) 36-inch RCP (HA-17) 18-inch RCP (HA-18A,B,C) - Circumferential crack in pipe (M) 24-inch RCP (HA-19) - Heavy debris, roots at joint, roots in crack (M) 48-inch RCP (HA-20) 96-inch RCP (HA-21A,B,C) 24-inch RCP (HA-22) - Circumferential crack at flap gate (M) 24-inch RCP (HA-23) - Mineral deposits at joint, circumferential crack in pipe at chamber connection (M) 24-inch RCP (HA-24) 24-inch RCP (HA-25) 54-inch RCP (HA-26A) 54-inch RCP (HA-26B) 24-inch RCP (HA-27A) 48-inch RCP (HA-27B) 54-inch RCP (HA-28) 24-inch DIP (HA-29) 24-inch RCP (HA-30) - Debris, broken pipe at joint, void visible (M) 36-inch RCP (HA-31) - Gasket exposed at joint (M) 24-inch RCP (HA-33) 24-inch RCP (HA-34) 42-inch RCP (HA-35) 24-inch RCP (HA-36) - Surface damage, gasket showing (M) Repair. Refer to the camera inspection report for more details. Next inspection should be performed in 2021.
		M	There are a small number of corrosion pinholes or cracks that could leak water and need to be repaired, but the entire length of pipe is still structurally sound and is not in danger of collapsing. Pipe shape may be ovalized in some locations but does not appear to be approaching a curvature reversal. A limited number of joints may have opened and soil loss may be beginning. Any open joints should be repaired prior to the next inspection. Corrugated metal pipes, if present, may be showing corrosion and pinholes but there are no areas with total section loss. Condition of pipes has been verified using television camera video taping or visual inspection methods within the past five years, and the report for every pipe is available for review by the inspector.	
		U	Culvert has deterioration and/or has significant leakage; it is in danger of collapsing or as already begun to collapse. Corrugated metal pipes have suffered 100% section loss in the invert. HOWEVER: Even if pipes appear to be in good condition, as judged by an external visual inspection, an Unacceptable Rating will be assigned if the condition of pipes has not been verified using television camera video taping or visual inspection methods within the past five years, and reports for all pipes are not available for review by the inspector.	
		N/A	There are no discharge pipes/ culverts.	
12. Riprap Revetments & Bank Protection	M	A	No riprap displacement or stone degradation that could pose an immediate threat to the integrity of channel bank. Riprap intact with no woody vegetation present.	2021-0348 : Riprap on upper half of riverside slope displaced. Restore. (M) 2021-0376 : Displaced riprap by the outlet structure. Restore. (M)
		M	Minor riprap displacement or stone degradation that could pose an immediate threat to the integrity of the channel bank. Unwanted vegetation must be cleared or sprayed with an appropriate herbicide.	
		U	Significant riprap displacement, exposure of bedding, or stone degradation observed. Scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Rock protection is hidden by dense brush, trees, or grasses.	
		N/A	There is no riprap protecting this feature of the segment / system, or riprap is discussed in another section.	
13. Revetments other than Riprap	M	A	Existing revetment protection is properly maintained, undamaged, and clearly visible.	2021-0352 : Missing stone from gabion. Restore. (M) 2021-0356 : Damaged gabion. Repair basket. (M)
		M	Minor revetment displacement or deterioration that does not pose an immediate threat to the integrity of the levee. Unwanted vegetation must be cleared or sprayed with an appropriate herbicide.	
		U	Significant revetment displacement, deterioration, or exposure of bedding observed. Scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Revetment protection is hidden by dense brush and trees.	
		N/A	There are no such revetments protecting this feature of the segment / system.	

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Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
14. Underseepage Relief Wells/ Toe Drainage Systems	NA	A	Toe drainage systems and pressure relief wells necessary for maintaining FDR segment / system stability during high water functioned properly during the last flood event and no sediment is observed in horizontal system (if applicable). Nothing is observed which would indicate that the drainage systems won't function properly during the next flood, and maintenance records indicate regular cleaning. Wells have been pumped tested within the past 5 years and documentation is provided.	
		M	Toe drainage systems or pressure relief wells are damaged and may become clogged if they are not repaired. Maintenance records are incomplete or indicate irregular cleaning and pump testing.	
		U	Toe drainage systems or pressure relief wells necessary for maintaining FDR segment / system stability during flood events have fallen into disrepair or have become clogged. No maintenance records. No documentation of the required pump testing.	
		N/A	There are no relief wells/ toe drainage systems along this component of the FDR segment / system.	
15. Seepage	A	A	No evidence or history of unrepaired seepage, saturated areas, or boils.	Justification: No issues noted.
		M	Evidence or history of minor unrepaired seepage or small saturated areas at or beyond the landside toe but not on the landward slope of levee. No evidence of soil transport.	
		U	Evidence or history of active seepage, extensive saturated areas, or boils.	

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**Flood Damage Reduction Segments / Systems
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Floodwalls: Hammond

For use during Initial and Continuing Eligibility Inspections of all floodwalls

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
1. Unwanted Vegetation Growth	M	A	A grass-only or paved zone is maintained on both sides of the floodwall, free of all trees, brush, and undesirable weeds. The vegetation-free zone extends 15 feet from both the land and riverside of the floodwall, at ground-level, to the centerline of the tree. Additionally, an 8- foot root-free zone is maintained around the entire structure, including the floodwall toe, heel, and any toe-drains. If the floodwall access easement doesn't extend to the described limits, then the vegetation-free zone must be maintained to the easement limits. Reference EM 1110- 2-301 and/or Corps policy for regional vegetation variance.	2021-0040 : Tall vegetation and small trees on riverside. Cut. (M) 2021-0092 : Large bushes on riverside. Cut. (M) 2021-0209 : Remove small trees along riverside of floodwall. (M) 2021-0213 : Remove tree branches and bushes on riverside of floodwall. (M)
		M	Minimal vegetation growth (brush, weeds, or trees 2 inches in diameter or smaller) is present within the zones described above. This vegetation must be removed but does not currently threaten the operation or integrity of the floodwall.	2021-0220 : Remove small trees on riverside. (M) 2021-0225 : Remove small trees on riverside. (M) 2021-0232 : Remove trees on riverside. (M) 2021-0248 : Remove small tree on landside. (M)
		U	Significant vegetation growth (brush, weeds, or any trees greater than 2 inches in diameter) is present within the zones described above. This vegetation threatens the operation or integrity of the floodwall and must be removed.	2021-0256 : Tall vegetation and trees on riverside. Cut. (M) 2021-0272 : Trees on riverside. Cut. (M) 2021-0284 : Tall vegetation on riverside. Cut. (M) 2021-0296 : Trees on riverside. Cut. (M) 2021-0301 : Small Trees on riverside of floodwall. Cut. (M) 2021-0304 : Small tree on landside. Cut. (M) 2021-0308 : Tall vegetation on riverside. Cut. (M) 2021-0312 : Trim back overhanging trees. (M) 2021-0320 : Trees on riverside. Cut. (M) 2021-0325 : Trim back tree branches out of the 15 ft vegetation free zone. (M) 2021-0328 : Remove small tree on landside. (M) 2021-0337 : Remove two small trees on landside. (M) 2021-0349 : Trim tree branches back. on riverside. (M) 2021-0357 : Remove bushes on landside. (M) 2021-0361 : Cut trees and bushes on riverside. Cut back overhanging trees. (M) 2021-0365 : Two large trees on riverside. Cut. (M) 2021-0452 : Small trees on riverside. Cut. (M) 2021-0456 : Small trees on riverside. Cut. (M) 2021-0460 : Remove trees on landside. (M) 2021-0508 : Tall vegetation on the landside. Cut. (M) 2021-0520 : Vegetation on the riverside. Cut. (M) 2021-0620 : Small trees on landside of floodwall. Remove. (M)

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**Flood Damage Reduction Segments / Systems
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Hammond**

**Floodwalls
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Floodwalls: Hammond

For use during Initial and Continuing Eligibility Inspections of all floodwalls

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
2. Encroachments	M	A	No trash, debris, unauthorized structures, excavations, or other obstructions present within the easement area. Encroachments have been previously reviewed by the Corps, and it was determined that they do not diminish proper functioning of the floodwall.	2021-0193 : Remove inflatable tube on riverside. (M) 2021-0201 : Remove tree branch on riverside. (M) 2021-0217 : Remove tubes on landside. (M)
		M	Trash, debris, unauthorized structures, excavations, or other obstructions present, or inappropriate activities noted that should be corrected but will not inhibit operations and maintenance or emergency operations. Encroachments have not been reviewed by the Corps.	2021-0221 : Remove debris on riverside. (M) 2021-0224 : Remove debris pile on riverside. (M) 2021-0229 : Remove debris pile on riverside. (M)
		U	Unauthorized encroachments or inappropriate activities noted are likely to inhibit operations and maintenance, emergency operations, or negatively impact the integrity of the floodwall.	2021-0260 : Move trash can. (M) 2021-0305 : Remove logs on riverside. (M) 2021-0309 : Remove two 4x4s on landside. (M) 2021-0313 : Remove concrete and beam on riverside. (M) 2021-0317 : Remove concrete block and 4x4 on landside. (M) 2021-0321 : Remove debris pile on landside. (M) 2021-0369 : Remove debris pile on landside. (M) 2021-0572 : Remove 4x4 on riverside. (M)
3. Closure Structures (Stop Log Closures and Gates) (A or U only)	A	A	Closure structure in good repair. Placing equipment, stoplogs, and other materials are readily available at all times. Components are clearly marked and installation instructions/ procedures readily available. Trial erections have been accomplished in accordance with the O&M Manual.	2021-0500 : Corrosion on the wheels. Clean. (A) 2021-0504 : Missing rubber seal. Replace. (A)
		U	Any of the following issues is cause for this rating: Closure structure in poor condition. Parts missing or corroded. Placing equipment may not be available within the anticipated warning time. The storage vaults cannot be opened during the time of inspection. Components of closure are not clearly marked and installation instructions/ procedures are not readily available. Trial erections have not been accomplished in accordance with the O&M Manual.	2021-0576 : Guardrail is blocking the closure. Consider new layout for closure installation. (A) 2021-0580 : Spalling and cracking on sill. Seal. (A)
		N/A	There are no closure structures along this component of the FDR segment / system.	
4. Concrete Surfaces	M	A	Negligible spalling, scaling or cracking. If the concrete surface is weathered or holds moisture, it is still satisfactory but should be seal coated to prevent freeze/ thaw damage.	2021-0228 : Exposed rebar. Patch. (M) 2021-0237 : Seal crack. (M)
		M	Spalling, scaling, and open cracking present, but the immediate integrity or performance of the structure is not threatened. Reinforcing steel may be exposed. Repairs/ sealing is necessary to prevent additional damage during periods of thawing and freezing.	2021-0240 : Cracking and spalling on cap. Patch. (M) 2021-0252 : Spalling and cracking. Repair. (M) 2021-0280 : Crack on landside. Seal. (M)
		U	Surface deterioration or deep cracks present that may result in an unreliable structure. Any surface deterioration that exposes the sheet piling or lies adjacent to monolith joints may indicate underlying reinforcement corrosion and is unacceptable.	2021-0496 : Multiple cracks on both sides of the floodwall. Seal. (M) 2021-0512 : Cracking on landside. Seal. (M) 2021-0528 : Multiples cracks on landside. Seal. (M) 2021-0588 : Crack on both sides. Seal. (M) 2021-0688 : Typical cracking along entire section on riverside. Seal. (M) 2021-0692 : Spalling on riverside. Patch. (M)

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Floodwalls: Hammond

For use during Initial and Continuing Eligibility Inspections of all floodwalls

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
5. Tilting, Sliding or Settlement of Concrete Structures	A	A	There are no significant areas of tilting, sliding, or settlement that would endanger the integrity of the structure.	Justification: No issues noted.
		M	There are areas of tilting, sliding, or settlement (either active or inactive) that need to be repaired. The maximum offset, either laterally or vertically, does not exceed 2 inches unless the movement can be shown to be no longer actively occurring. The integrity of the structure is not in danger.	
		U	There are areas of tilting, sliding, or settlement (either active or inactive) that threaten the structure's integrity and performance. Any movement that has resulted in failure of the waterstop (possibly identified by daylight visible through the joint) is unacceptable. Differential movement of greater than 2 inches between any two adjacent monoliths, either laterally or vertically, is unacceptable unless it can be shown that the movement is no longer active. Also, if the floodwall is of I-wall construction, then any visible or measurable tilting of the wall toward the protected side that has created an open horizontal crack on the riverside base of a monolith is unacceptable.	
6. Foundation of Concrete Structures	M	A	No active erosion, scouring, or bank caving that might endanger the structure's stability.	2021-0036 : Settlement at west end of wall. Fill. (M) 2021-0056 : Gully on ls. Fill. (A) 2021-0060 : Hole on landside. Fill. (M) 2021-0068 : Minor settlement at end of floodwall. Fill. (M) 2021-0084 : Line for holes on ls (M) 2021-0132 : Hole on landside. Fill. (M) 2021-0144 : 2 holes on landside. Fill. (M) 2021-0189 : Exposed geotextile on riverside. Replace. (M) 2021-0197 : Settlement again sheet pile. Fill to drain away from the wall. (M) 2021-0212 : Hole on the landside. Fill. (M) 2021-0241 : Depression behind floodwall. Monitor. (A) 2021-0297 : Depression 5 inch deep on landside. Fill. (M) 2021-0448 : Holes along the wall. Fill. (M)
		M	There are areas where the ground is eroding towards the base of the structure. Efforts need to be taken to slow and repair this erosion, but it is not judged to be close enough to the structure or to be progressing rapidly enough to affect structural stability before the next inspection. For the purposes of inspection, the erosion or scour is not closer to the riverside face of the wall than twice the floodwall's underground base width if the wall is of L-wall or T-wall construction; or if the wall is of sheetpile or I-wall construction, the erosion is not closer than twice the wall's visible height. Additionally, rate of erosion is such that the wall is expected to remain stable until the next inspection.	
		U	Erosion or bank caving observed that is closer to the wall than the limits described above, or is outside these limits but may lead to structural instabilities before the next inspection. Additionally, if the floodwall is of I-wall or sheetpile construction, the foundation is unacceptable if any turf, soil or pavement material got washed away from the landside of the I-wall as the result of a previous overtopping event.	
7. Monolith Joints	M	A	The joint material is in good condition. The exterior joint sealant is intact and cracking/ desiccation is minimal. Joint filler material and/or waterstop is not visible at any point.	2021-0168 : Grass in the interlocks. Clean. (M) 2021-0216 : Deteriorating sealant. Remove old caulk and reseal. (M) 2021-0236 : Deteriorating sealant. Remove old caulk and reseal. (M) 2021-0264 : Deteriorating sealant. Remove old caulk and reseal. (M) 2021-0292 : Missing sealant. Reseal. (M) 2021-0324 : Sealant under cap deteriorating. Reseal. (M) 2021-0333 : Tree growing in joint. Remove. (M) 2021-0492 : Deteriorating sealant. Remove old caulk and reseal. (M) 2021-0516 : Deteriorating sealant. Remove old caulk and reseal. (M) 2021-0696 : Deteriorating sealant. Remove old caulk and reseal. (M) 2021-0700 : Gap in sheet pile cap. Monitor. (A)
		M	The joint material has appreciable deterioration to the point where joint filler material and/or waterstop is visible in some locations. This needs to be repaired or replaced to prevent spalling and cracking during freeze/ thaw cycles, and to ensure water tightness of the joint.	
		U	The joint material is severely deteriorated or the concrete adjacent to the monolith joints has spalled and cracked, damaging the waterstop; in either case damage has occurred to the point where it is apparent that the joint is no longer watertight and will not provide the intended level of protection during a flood.	
		N/A	There are no monolith joints in the floodwall.	

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Floodwalls: Hammond

For use during Initial and Continuing Eligibility Inspections of all floodwalls

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
8. Underseepage Relief Wells/ Toe Drainage Systems	NA	A	Toe drainage systems and pressure relief wells necessary for maintaining FDR segment / system stability during high water functioned properly during the last flood event and no sediment is observed in horizontal system (if applicable). Nothing is observed which would indicate that the drainage systems won't function properly during the next flood, and maintenance records indicate regular cleaning. Wells have been pumped tested within the past 5 years and documentation is provided.	
		M	Toe drainage systems or pressure relief wells are damaged and may become clogged if they are not repaired. Maintenance records are incomplete or indicate irregular cleaning and pump testing.	
		U	Toe drainage systems or pressure relief wells necessary for maintaining FDR segment / system stability during flood events have fallen into disrepair or have become clogged. No maintenance records. No documentation of the required pump testing.	
		N/A	There are no relief wells/ toe drainage systems along this component of the FDR segment / system.	
9. Seepage	A	A	No evidence or history of unrepaired seepage, saturated areas, or boils.	Justification: No issues noted.
		M	Evidence or history of minor unrepaired seepage or small saturated areas at or beyond the landside toe but not on the landward slope of levee. No evidence of soil transport.	
		U	Evidence or history of active seepage, extensive saturated areas, or boils.	

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Interior Drainage System: Hammond

For use during Initial and Continuing Eligibility Inspections of interior drainage systems

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
1. Vegetation and Obstructions	M	A	No obstructions, vegetation, debris, or sediment accumulation noted within interior drainage channels or blocking the culverts, inlets, or discharge areas. Concrete joints and weep holes are free of grass and weeds.	2021-0002 : HA-38: Too much vegetation. Clear. (M) 2021-0005 : HA-4: Outlet is free of debris. (A) 2021-0018 : HA-35: Tree growing near outlet structure. Remove. (M)
		M	Obstructions, vegetation, debris, or sediment are minor and have not impaired channel flow capacity or blocked more than 10% of any culvert openings, but should be removed. A limited volume of grass and weeds may be present in concrete channel joints and weep holes.	2021-0021 : HA-6: The culvert is surrounded by vegetation, this needs too be removed. (M) 2021-0044 : HA-3: Tall vegetation around structure. Clear. (M)
		U	Obstructions, vegetation, debris, or sediment have impaired the channel flow capacity or blocked more than 10% of a culvert opening. Sediment and debris removal required to reestablish flow capacity.	2021-0046 : HA-31: Inlet has heavy vegetation and tree logs that need to be cleared. (M) 2021-0048 : HA-4: Small tree next to structure. Cut. (M) 2021-0054 : HA-28: Trees growing at outlet structure. Clear. Duckbills are adequate. (M) 2021-0057 : HA-10: The sluice gate is blocked by heavy vegetation that should be removed (M) 2021-0058 : HA-28: Debris and some small vegetation. Gate operated without issue. (M) 2021-0072 : HA-5: Inlet has tall vegetation. Clear. (M) 2021-0076 : HA-5: Tall vegetation around outlet. Can't find headwall. Clear. (M) 2021-0089 : HA-12: Vegetation beginning to grow on concrete structure for the flap gate. Clear. (M) 2021-0090 : HA-23: Inlet needs to be cleared. (M) 2021-0093 : HA-13: Outlet is surrounded by vegetation. The vegetation needs to be removed. (M) 2021-0102 : HA-21: Vegetation around the structure. Clear. (M) 2021-0136 : HA-7: Tall vegetation and small trees at outlet. Clear. (M) 2021-0152 : HA-9: Remove vegetation. (M) 2021-0180 : HA-11: Remove vegetation. (M) 2021-0385 : INDOT gate next to the road not accessible due to vegetation. (M) 2021-0412 : HA-19: Tall vegetation at outlet. Clear. (M) 2021-0424 : HA-20: Tall vegetation around the outlet. Clear. (M) 2021-0428 : Tall vegetation in ditch. Clear. (M) 2021-0464 : Tall vegetation in ditch. Clear. (M) 2021-0468 : HA-22: Vegetation around outlet. Clear. (M) 2021-0476 : HA-22: Vegetation around inlet. Clear. (M) 2021-0480 : Trees in ditch. Clear. (M) 2021-0548 : HA-25: Tall vegetation around the outlet. Clear. (M) 2021-0552 : HA-25: Vegetation around inlet. Clear. (M)

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For use during Initial and Continuing Eligibility Inspections of interior drainage systems

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
2. Encroachments	M	A	No trash, debris, unauthorized structures, excavations, or other obstructions present within the easement area. Encroachments have been previously reviewed by the Corps, and it was determined that they do not diminish proper functioning of the interior drainage system.	2021-0117 : HA-14: Trash in riprap area. Clean. (M) 2021-0181 : HA-33: Tree logs on riprap. Clean. (M)
		M	Trash, debris, unauthorized structures, excavations, or other obstructions present, or inappropriate activities noted that should be corrected but will not inhibit operations and maintenance or emergency operations. Encroachments have not been reviewed by the Corps.	
		U	Unauthorized encroachments or inappropriate activities noted are likely to inhibit operations and maintenance, emergency operations, or negatively impact the integrity of this component of the interior drainage system.	
3. Ponding Areas	NA	A	No trash, debris, structures, or other obstructions present within the ponding areas. Sediment deposits do not exceed 10% of capacity.	
		M	Trash, debris, excavations, structures, or other obstructions present, or inappropriate activities that will not inhibit operations and maintenance. Sediment deposits do not exceed 30% of capacity.	
		U	Trash, debris, excavations, structures, or other obstructions, or other encroachments or activities noted that will inhibit operations, maintenance, or emergency work. Sediment deposits exceeds 30% of capacity.	
		N/A	There are no ponding areas associated with the interior drainage system.	
4. Fencing and Gates	M	A	Fencing is in good condition and provides protection against falling or unauthorized access. Gates open and close freely, locks are in place, and there is little corrosion on metal parts.	2021-0009 : HA-4: The fence is in good condition. (A) 2021-0029 : HA-6: The fence is in good condition. Remove the small twigs that are on the fence. (A) 2021-0030 : HA-31: Missing stud and nut for fence. (M) 2021-0049 : HA-7: The sluice gate fencing is in good condition. (A) 2021-0069 : HA-10: The sluice gate fencing is in good condition. (A) 2021-0097 : HA-12: The fencing is in good condition. (A) 2021-0109 : HA-13: The fence is in good condition. (A) 2021-0122 : HA-20: Broken rail. Repair. (M) 2021-0141 : HA-16: The fence is in good condition. (A)
		M	Fencing or gates are damaged or corroded but appear to be maintainable. Locks may be missing or damaged.	
		U	Fencing and gates are damaged or corroded to the point that replacement is required, or potentially dangerous features are not secured.	
		N/A	There are no features noted that require safety fencing.	
5. Concrete Surfaces (Such as gatewells, outfalls, intakes, or culverts)	M	A	Negligible spalling, scaling or cracking. If the concrete surface is weathered or holds moisture, it is still satisfactory but should be seal coated to prevent freeze/ thaw damage.	2021-0106 : HA-23: Broken concrete. Patch. (M)
		M	Spalling, scaling, and open cracking present, but the immediate integrity or performance of the structure is not threatened. Reinforcing steel may be exposed. Repairs/ sealing is necessary to prevent additional damage during periods of thawing and freezing.	
		U	Surface deterioration or deep cracks present that may result in an unreliable structure. Any surface deterioration that exposes the sheet piling or lies adjacent to monolith joints may indicate underlying reinforcement corrosion and is unacceptable.	
		N/A	There are no concrete items in the interior drainage system.	

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Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
6. Tilting, Sliding or Settlement of Concrete and Sheet Pile Structures (Such as gate wells, outfalls, intakes, or culverts)	A	A	There are no significant areas of tilting, sliding, or settlement that would endanger the integrity of the structure.	Justification: No issues noted.
		M	There are areas of tilting, sliding, or settlement (either active or inactive) that need to be repaired. The maximum offset, either laterally or vertically, does not exceed 2 inches unless the movement can be shown to be no longer actively occurring. The integrity of the structure is not in danger.	
		U	There are areas of tilting, sliding, or settlement (either active or inactive) that threaten the structure's integrity and performance. Any movement that has resulted in failure of the waterstop (possibly identified by daylight visible through the joint) is unacceptable. Differential movement of greater than 2 inches between any two adjacent monoliths, either laterally or vertically, is unacceptable unless it can be shown that the movement is no longer active. Also, if the floodwall is of I-wall construction, then any visible or measurable tilting of the wall toward the protected side that has created an open horizontal crack on the riverside base of a monolith is unacceptable.	
		N/A	There are no concrete items in the interior drainage system.	
7. Foundation of Concrete Structures (Such as culverts, inlet and discharge structures, or gatewells.)	M	A	No active erosion, scouring, or bank caving that might endanger the structure's stability.	2021-0140 : HA-7: 2 large burrows around manhole, deeper than 6 ft. Fill. (M)
		M	There are areas where the ground is eroding towards the base of the structure. Efforts need to be taken to slow and repair this erosion, but it is not judged to be close enough to the structure or to be progressing rapidly enough to affect structural stability before the next inspection. The rate of erosion is such that the structure is expected to remain stable until the next inspection.	
		U	Erosion or bank caving observed that may lead to structural instabilities before the next inspection.	
		N/A	There are no concrete items in the interior drainage system.	
8. Monolith Joints	M	A	The joint material is in good condition. The exterior joint sealant is intact and cracking/ desiccation is minimal. Joint filler material and/or waterstop is not visible at any point.	2021-0624 : HA-29: Cracking at joint. Not water tight. Remove old caulking and reseal. (M)
		M	The joint material has appreciable deterioration to the point where joint filler material and/or waterstop is visible in some locations. This needs to be repaired or replaced to prevent spalling and cracking during freeze/ thaw cycles, and to ensure water tightness of the joint.	
		U	The joint material is severely deteriorated or the concrete adjacent to the monolith joints has spalled and cracked, damaging the waterstop; in either case damage has occurred to the point where it is apparent that the joint is no longer watertight and will not provide the intended level of protection during a flood.	
		N/A	There are no monolith joints in the interior drainage system.	

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Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
9. Culverts/ Discharge Pipes	M	A	There are no breaks, holes, cracks in the discharge pipes/ culverts that would result in significant water leakage. The pipe shape is still essentially circular. All joints appear to be closed and the soil tight. Corrugated metal pipes, if present, are in good condition with 100% of the original coating still in place (either asphalt or galvanizing) or have been relined with appropriate material, which is still in good condition. Condition of pipes has been verified using television camera video taping or visual inspection methods within the past five years, and the report for every pipe is available for review by the inspector.	2021-0129 : Ha16 The discharge culvert is in good condition. (A) Justification: Camera inspection performed in June and July 2016 for the following culverts: 24-inch RCP (HA-1) 24-inch RCP (HA-2) 24-inch RCP (HA-3) 84-inch RCP (HA-4) 24-inch RCP (HA-5) 36-inch RCP (HA-6) 24-inch RCP (HA-7) - Gasket removed at joint (M) 54-inch RCP (HA-8) 24-inch RCP (HA-9) 36-inch RCP (HA-10) - Offset joint and small separation (M) 24-inch RCP (HA-11) 84-inch RCP (HA-12) 36-inch RCP (HA-13) 30-inch RCP (HA-14) 48-inch RCP (HA-15A) - Concrete obstruction (M) 36-inch RCP (HA-15B) 60-inch RCP (HA-15C) 60-inch RCP (HA-16) 36-inch RCP (HA-17) 18-inch RCP (HA-18A,B,C) - Circumferential crack in pipe (M) 24-inch RCP (HA-19) - Heavy debris, roots at joint, roots in crack (M) 48-inch RCP (HA-20) 96-inch RCP (HA-21A,B,C) 24-inch RCP (HA-22) - Circumferential crack at flap gate (M) 24-inch RCP (HA-23) - Mineral deposits at joint, circumferential crack in pipe at chamber connection (M) 24-inch RCP (HA-24) 24-inch RCP (HA-25) 54-inch RCP (HA-26A) 54-inch RCP (HA-26B) 24-inch RCP (HA-27A) 48-inch RCP (HA-27B) 54-inch RCP (HA-28) 24-inch DIP (HA-29) 24-inch RCP (HA-30) - Debris, broken pipe at joint, void visible (M) 36-inch RCP (HA-31) - Gasket exposed at joint (M) 24-inch RCP (HA-33) 24-inch RCP (HA-34) 42-inch RCP (HA-35) 24-inch RCP (HA-36) - Surface damage, gasket showing (M) Repair. Refer to the camera inspection report for more details. Next inspection should be performed in 2021.
		M	There are a small number of corrosion pinholes or cracks that could leak water and need to be repaired, but the entire length of pipe is still structurally sound and is not in danger of collapsing. Pipe shape may be ovalized in some locations but does not appear to be approaching a curvature reversal. A limited number of joints may have opened and soil loss may be beginning. Any open joints should be repaired prior to the next inspection. Corrugated metal pipes, if present, may be showing corrosion and pinholes but there are no areas with total section loss. Condition of pipes has been verified using television camera video taping or visual inspection methods within the past five years, and the report for every pipe is available for review by the inspector.	
		U	Culvert has deterioration and/or has significant leakage; it is in danger of collapsing or as already begun to collapse. Corrugated metal pipes have suffered 100% section loss in the invert. HOWEVER: Even if pipes appear to be in good condition, as judged by an external visual inspection, an Unacceptable Rating will be assigned if the condition of pipes has not been verified using television camera video taping or visual inspection methods within the past five years, and reports for all pipes are not available for review by the inspector.	
		N/A	There are no discharge pipes/ culverts.	
10. Sluice / Slide Gates	M	A	Gates open and close freely to a tight seal or minor leakage. Gate operators are in good working condition and are properly maintained. Sill is free of sediment and other obstructions. Gates and lifters have been maintained and are free of corrosion. Documentation provided during the inspection.	2021-0013 : HA-4: The sluice gate was opened we arrived and we left it open when we left. The gate was able to close completely. (A) 2021-0017 : HA-4: The sluice gate was in good condition. The operator used the day to service the gates and greased them the day of the inspection. (A) 2021-0022 : HA-35: Lifting mechanism structure cracking, shakes when the gate is near the top. Investigate and repair. (M) 2021-0026 : HA-35: Closed and opened without issue, lubricated in the process. (A) 2021-0033 : HA-6: The sluice gate is in good condition and closed and opened completely. It was opened when we arrived we left it open when we left. (A) 2021-0037 : HA-6: The sluice gate pinion is in good good condition, the operator oiled it the day of. (A) 2021-0038 : HA-31: Gate gauge malfunctioning, gets stuck in the process. Repair. (M) 2021-0042 : HA-31: Closed and opened without issue. (A) 2021-0045 : HA-8: The sluice gate is in good condition, it opened and closed completely. When we arrived it was opened and we left it open when we left. (A) 2021-0050 : HA-30: Opened and closed without issue. Inlet and outlet are below water level. (A) 2021-0053 : HA-8: The sluice gate pinion in good condition and
		M	Gates and/or operators have been damaged or have minor corrosion, and open and close with resistance or binding. Leakage quantity is controllable, but maintenance is required. Sill is free of sediment and other obstructions.	
		U	Gates do not open or close and/or operators do not function. Gate, stem, lifter and/or guides may be damaged or have major corrosion.	
		N/A	There are no sluice/ slide gates.	

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Rated Item	Rating	Rating Guidelines	Location/Remarks/Recommendations
			<p>well greased. The operator greased it the day of. There is some very mild corrosion on the spigot, recommend painting. (M)</p> <p>2021-0061 : HA-10: The sluice gate opens and closed completely without any issues. The gate was opened when we arrived and we left it open when we left. (A)</p> <p>2021-0065 : HA-10: The sluice gate is well greased and in good condition. The operator greased them the day of. (M)</p> <p>2021-0066 : HA-26a: Operates without issue. (A)</p> <p>2021-0070 : HA-26B: Operates without issue. The left gear is seized and cannot open the gate. Repair. (M)</p> <p>2021-0074 : HA-27a: Operated without issue. A lot of debris on top of the gate, recommend cleaning. The left gear was not able to open the gate, repair. (A)</p> <p>2021-0077 : HA-12: The sluice gates pinion is in good condition. He crew greased the gates while we were on site. (A)</p> <p>2021-0078 : HA-27b: Operates without issue. (A)</p> <p>2021-0081 : HA-12: The sluice gate is in good condition but didn't close all of the way. It was opened when we arrived and we left it open when we left. Remove obstructions. (M)</p> <p>2021-0082 : HA-24: Operates without issue. (A)</p> <p>2021-0098 : HA-23: Gate operates fine, too much silt and some branches inside though. Clean. (M)</p> <p>2021-0105 : HA-13: The sluice gate is in good condition. It opened and closed completely. It was opened when we arrived we left it open when we left. (A)</p> <p>2021-0110 : HA-23a: Operates only using right gear. (A)</p> <p>2021-0114 : HA-21c: Operates on the right gear only. Corrosion at the base. Repaint. (M)</p> <p>2021-0118 : HA-21b: Operates only using the right gear, unable to open the gate after closing. There are 2 other gates on either side that can provide capacity as needed. This happened at the last inspection too. Repair. Corrosion at the base, repaint. (M)</p> <p>2021-0121 : HA-14: The sluice gate pinion operated good. The crew greased the equipment the day were out there. Slight rusting at base, recommend painting (M)</p> <p>2021-0125 : HA-14: The sluice gate is in good condition, it was able to close and open completely. It was open when we arrived we left it open when we left (A)</p> <p>2021-0126 : HA-20: Operates without issue. (A)</p> <p>2021-0133 : HA-16: The pinion goes up and down with little to no resistance. Slight rusting on outer metallic casing. Recommended painting. (M)</p> <p>2021-0137 : HA-15: Gage is hard to see. Replace. (M)</p> <p>2021-0145 : HA-16: The sluice gate opens and close fully but there is a lot of resistance. Recommend greasing. There is a lot of sediment in the gate pit. Recommend cleaning. Mild corrosion on the railing. The gate was closed when we arrived we left it closed when we left. (M)</p> <p>2021-0157 : HA-17: Sluice gate has minor corrosion but closed</p>

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**Flood Damage Reduction Segments / Systems
Inspection Report
Hammond**

**Interior Drainage System
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Interior Drainage System: Hammond

For use during Initial and Continuing Eligibility Inspections of interior drainage systems

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
				and opened completely. There is a lot of trash in the sluice gate pit. Clean and repaint. (M) 2021-0161 : HA-17: Sluice gate pinion case is broken and rusting. Recommend replacing case and painted rusted parts. The operator greased the pinon that day. (M)
11. Flap Gates/ Flap Valves/ Pinch Valves	M	A	Gates/ valves open and close easily with minimal leakage, have no corrosion damage, and have been exercised and lubricated as required.	2021-0006 : HA-38. Duckbill is in good condition. (M) 2021-0014 : HA-35: Flap gate cracked open. Clear debris. (M) 2021-0034 : HA-31: Vegetation and debris too close outlet. Flap gate slightly open. Clear. (M) 2021-0041 : HA-8: The gate closed completely and no obstructions. (A) 2021-0062 : HA-27: Flap gates are closed (A) 2021-0086 : HA-24: Flap gate has too much vegetation around it. Clear. (M) 2021-0094 : HA-23: Flap gate leaking, tree logs in the way, too much vegetation. Clear obstructions and vegetation. (M) 2021-0113 : HA-14: Good condition. (A) 2021-0149 : HA-18a-b: Flap gates are corroded. Recommend painting. (M) 2021-0153 : HA-18c-d: Flap gates are corroded. Recommend painting. (M) 2021-0165 : HA-17: Flap gate is closed but there is sediment and rocks blocking and preventing from opening. Clear obstructions. (M) 2021-0169 : HA-18: Flap gate is closed completely, mild rusting on the top. Repaint. (M) 2021-0184 : HA-11: Pinch valve covered in sediment. Clear. (M) 2021-0185 : HA-33: Flap gate open. Clear. (M) 2021-0233 : HA-34: Logs and debris obstructing the outlet. Clear. (M) 2021-0368 : HA-17: Covered in sediment. Clear. (M) 2021-0372 : HA-18: Closed. (A) 2021-0381 : HA-36: Flap gate not shut all the way, rocks, tree logs and vegetation obstructing the outlet. Clear. (M) 2021-0416 : HA-19. Closed. (A) 2021-0472 : HA-22: Closed. (A)
		M	Gates/ valves will not fully open or close because of obstructions that can be easily removed, or have minor corrosion damage that requires maintenance.	
		U	Gates/ valves are missing, have been damaged, or have deteriorated to the point that they need to be replaced.	
		N/A	There are no flap gates.	
12. Trash Racks (non-mechanical)	M	A	Trash racks are fastened in place and properly maintained.	2021-0156 : HA-9: Trash rack is deformed. Repair. (M)
		M	Trash racks are in place but are unfastened or have bent bars that allow debris to enter into the pipe or pump station, bars are corroded to the point that up to 10% of the sectional area may be lost. Repair or replacement is required.	
		U	Trash racks are missing or damaged to the extent that they are no longer functional and must be replaced. (For example, more than 10% of the sectional area may be lost.)	
		N/A	There are no trash racks, or they are covered in the pump stations section of the report.	

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Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
13. Other Metallic Items	U	A	All metal parts are protected from corrosion damage and show no rust, damage, or deterioration that would cause a safety concern.	2021-0010 : HA-35: Broken ladder at sluice gate. Sponsor looking into replacement. (U) 2021-0012 : HA-1: Secure manhole cover. (M) 2021-0073 : HA-12: One of the metal coverings is missing. It appears as if it may have fell through. Replace. (M) 2021-0085 : HA-12: Screen is broken and needs to be replaced. (U) 2021-0176 : HA-11: Manhole cover offset. Move. (M) 2021-0540 : HA-25: Manhole is offset. Move. (M) 2021-0544 : HA-25: Manhole cover is chipping. Replace. (M) 2021-0628 : HA-29: Manhole lid open and cracking on attached concrete. Repair. (M)
		M	Corrosion seen on metallic parts appears to be maintainable.	
		U	Metallic parts are severely corroded and require replacement to prevent failure, equipment damage, or safety issues.	
		N/A	There are no other significant metallic items.	
14. Riprap Revetments of Inlet/ Discharge Areas	M	A	No riprap displacement or stone degradation that could pose an immediate threat to the integrity of channel bank. Riprap intact with no woody vegetation present.	2021-0064 : Riprap missing and some covered with silt. Add riprap. (M)
		M	Minor riprap displacement or stone degradation that could pose an immediate threat to the integrity of the channel bank. Unwanted vegetation must be cleared or sprayed with an appropriate herbicide.	
		U	Significant riprap displacement, exposure of bedding, or stone degradation observed. Scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Rock protection is hidden by dense brush, trees, or grasses.	
		N/A	There is no riprap protecting this feature of the segment / system, or riprap is discussed in another section.	
15. Revetments other than Riprap	NA	A	No riprap displacement or stone degradation that could pose an immediate threat to the integrity of channel bank. Riprap intact with no woody vegetation present.	
		M	Minor riprap displacement or stone degradation that could pose an immediate threat to the integrity of the channel bank. Unwanted vegetation must be cleared or sprayed with an appropriate herbicide.	
		U	Significant riprap displacement, exposure of bedding, or stone degradation observed. Scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Rock protection is hidden by dense brush, trees, or grasses.	
		N/A	There are no such revetments protecting this feature of the segment / system.	

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Pump Stations: Hammond

For use during Initial and Continuing Eligibility Inspections of pump stations

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
1. Pump Stations Operating, Maintenance, Training, & Inspection Records	A	A	Operation, maintenance and inspection records are present at the pump station and are being used and updated, and personnel have been trained in pump station operations. Names and last training date shown in the record book.	Justification: Records available.
		M	Operation, maintenance and inspection records are present but not adequately used and updated.	
		U	No operation, maintenance and inspection records are present, or refresher training for personnel has not been conducted.	
2. Pump Station Operations and Maintenance Equipment Manuals	A	A	Operation and Maintenance Equipment Manuals and/or posted operating instructions are present and updated as required, and adequately cover all pertinent pump station features. O&M manuals include points of contact for manufacturers and suppliers of major equipment used in the facility.	2021-0019 : PS-JA: Operations manuals on site. (A) 2021-0047 : PS-TA: Operations manuals on site. (A) 2021-0079 : PS-SS: Operations manuals on site. (A) 2021-0111 : PS-WA: Operations manuals on site. (A) 2021-0123 : PS-CA: Operations manuals on site. (A) 2021-0143 : PS-IN: Operations manuals on site. (A) 2021-0163 : PS-KA: Operations manuals on site. (A) 2021-0179 : PS-HV: Operations manuals on site. (A) 2021-0227 : PS-SK: Operations manuals on site. (A)
		M	Operation and Maintenance Equipment Manuals and/or posted operating instructions are present and adequately cover all pertinent pump station features. However, they are incomplete and the necessary updates have not been made.	
		U	Operation and Maintenance Equipment Manuals are not available.	
3. Safety Compliance	M	A	Safety compliance inspection reports by applicable local, state, or federal agencies available for review.	2021-0015 : PS-JA: Fire safety exit light not functioning. Repair. (M) 2021-0027 : PS-JA: Confined space warning needed near E5 exhaust fan. (M) 2021-0055 : PS-SS: Grate clamps missing near trash rakes. Replace or install as this is a trip and fall hazard. (M) 2021-0151 : PS-IN: Confined space label needed. (M) 2021-0183 : S-HV: Confined space label needed. (M) 2021-0187 : PS-HV: Clips to secure grate from slip and fall hazard recommended. (M) 2021-0195 : PS-HV: Confined space label needed. (M) 2021-0215 : PS-SK: Confined space label needed. (M)
		M	No safety compliance inspection reports are available for review.	
4. Communications (A or M only)	A	A	A telephone, cellular phone, two-way radio, or similar device is available to pump station operator and maintenance personnel.	Justification: No issues noted.
		M	A telephone, cellular phone, two-way radio, or similar device is not available to pump station operator and maintenance personnel.	

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Pump Stations: Hammond

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Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
5. Plant Building	M	A	The building is in good structural condition with no major foundation settlement problems. The roof is not leaking, intake & exhaust louvers are clear of debris, fans are operational, etc.	2021-0003 : PS-JA: Spalling on concrete steps. Patch. (M) 2021-0031 : PS-TA: Stairs to pump station replaced, in great condition. (A) 2021-0035 : PS-TA: Minor spalling on underside of foundation at ground level. Patch. (M) 2021-0039 : PS-TA: Rotting on eaves. Repair or replace. (M) 2021-0043 : PS-TA: Lost concrete on corner of building. No damage ongoing. Repair. (M) 2021-0051 : PS-SS: Minor spalling on concrete floor. Patch. (M) 2021-0059 : PS-SS: Crack near door frame to roof. Monitor as needed (A) 2021-0075 : PS-SS: Crack in floor near sanitary district side of building. Crack extends up to door frame. Inspect for structural causes. (M) 2021-0099 : PS-WA: Crack near door and along wall near back door. Monitor. (A) 2021-0103 : PS-WA: Mold growth not likely to be coming from roof. Investigate leak. (M) 2021-0107 : PS-WA: Investigate water leak in main pump room (M) 2021-0131 : PS-IN: Minor cracking near foundation. Monitor and repair as needed. (A) 2021-0147 : PS-IN: Minor corrosion in ceiling. Clean. (M) 2021-0155 : PS-KA: Minor spalling on ceiling. Repair. (M) 2021-0167 : PS-HV: Minor concrete spalling along exterior. Repair. (M) 2021-0171 : PS-HV: Ponding water could crack concrete during winter months. Drain. (M) 2021-0175 : PS-HV: Multiple (at least 4 visible) large animal burrows in power station area. Backfill with compacted clay (M) 2021-0207 : PS-SK: Minor corrosion on ceiling. Clean. (M) 2021-0211 : PS-SK: Small cracks in concrete block exterior. Monitor and repair as needed. (A)
		M	There are minor structural defects, minimal foundation settlement, leaks, or other conditions noted that need repair. Defects do not threaten the structural integrity or stability of the building, and will not impact pumping operations.	
		U	The structural integrity or stability of the building is threatened, or there is damage to the building that threatens safety of the operator or impacts pumping operations.	
6. Fencing and Gates	M	A	Fencing is in good condition and provides protection against falling or unauthorized access. Gates open and close freely, locks are in place, and there is little corrosion on metal parts.	2021-0091 : PS-WA: Fence is collapsing due to rusted pipes. Replace. (M) 2021-0135 : PS-IN: Gate fence found without lock, leaving pump station perimeter accessible. Place lock on gate to secure. (M)
		M	Fencing or gates are damaged or corroded but appear to be maintainable. Locks may be missing or damaged.	
		U	Fencing and gates are damaged or corroded to the point that replacement is required, or potentially dangerous features are not secured.	
		N/A	There are no features noted that require safety fencing.	

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Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
7. Pumps	M	A	All pumps are properly maintained and lubricated. Systems are periodically tested and documented for review. No vibration, cavitation noises or unusual sounds are noted when the pump is operated. Bearing temperature sensor records don't indicate any problems.	2021-0159 : PS-KA: Corrosion on pump base and pump 2. Recommend repainting. (M) 2021-0199 : PS-HV: DWP excessive corrosion on pump. Recommend repainting (M) 2021-0203 : PS-HV: Leakage in shaft impeller system of DWP. Repair. (M)
		M	Minor deficiencies noted that need to be closely monitored or repaired, such as the presence of slight vibrations, leakage of packing gland, bearing temperature sensors are inoperable or no record is present. However, the pumps are operational and are expected to perform through the next period of usage.	
		U	Major deficiencies identified that may significantly reduce pumping operations. For example, bearing sensor records indicate problems, excessive vibration noted, impellers are badly corroded, or there are eroded or missing blades.	
8. Motors, Engines, Fans, Gear Reducers, Back Stop Devices, etc.	M	A	All items are operational. Preventative maintenance and lubrication is being performed and the system is periodically subjected to performance testing. Instrumentation, alarms, bearing sensors and auto shutdowns are operational.	2021-0023 : PS-JA: Exhaust fans EF1 and EF2 not operating correctly. Motor runs but blades do not turn. Repair. (M) 2021-0063 : PS-SS: EF1 exhaust fan operates but damper does not open. Repair. (M) 2021-0067 : PS-SS: EF1 exhaust fan does not operate at all. Repair. (M) 2021-0095 : PS-WA: EF1 exhaust fan damper stuck open. Repair. (M) 2021-0127 : PS-CA: Sump exhaust fan inoperable. Investigate and repair. (M) 2021-0219 : PS-SK: Exhaust fan EF2 is inoperable. (M) 2021-0223 : PS-SK: EF1 working but housing is detached and could fall. Repair. (M)
		M	Systems have minor deficiencies, but are operational and will function adequately through the next flood. Bearing sensors are not operational.	
		U	One or more of the primary motors or systems is not operational, or noted deficiencies have not been corrected.	
9. Sumps / Wet well	A	A	Clear of debris, sediment, or other obstructions. Procedures are in place to remove debris accumulation during operation.	Justification: No issues noted.
		M	Debris, sediment, or other obstructions may be present and must be removed, but the sump/ wet well will function as intended during the next flood. Procedures are in place to remove debris accumulation during operation.	
		U	Large debris or excessive silt present which will hinder or damage pumps during operation, or no procedures established to remove debris accumulation during operation.	
10. Mechanical Operating Trash Rakes	M	A	Drive chain, bearing, gear reducers, and other components are in good operating condition and are being properly maintained.	2021-0007 : PS-JA: Trash rake is not operational. HSD aware and currently coordinating repairs. (M)
		M	The trash rake is in need of maintenance, but is still operational.	
		U	Trash rake not operational or deficiencies will inhibit operations during the next flood event.	
		N/A	There are no mechanical trash rakes.	

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11. Non-Mechanical Trash Racks	A	A	Trash racks are fastened in place and properly maintained.	Justification: No issues noted.
		M	Trash racks are in place but are unfastened or have bent bars that allow debris to enter into the pipe or pump station, bars are corroded to the point that up to 10% of the sectional area may be lost. Repair or replacement is required.	
		U	Trash racks are missing or damaged to the extent that they are no longer functional and must be replaced. (For example, more than 10% of the sectional area may be lost.)	
		N/A	There are no trash racks, or they are covered in the pump stations section of the report.	
12. Fuel System for Pump Engines	A	A	Fuel system is operational, day tank present and operational, fuel fresh and rotated regularly.	Justification: No issues noted.
		M	Fuel system is operational and of adequate capacity, but day tank is missing or fuel is not fresh and rotated regularly.	
		U	Fuel system not functional.	
		N/A	No fuel system.	
13. Power Source	A	A	The normal power source and backup generators, if installed, are operational, properly exercised and well maintained. Surge protection, grounding, lightning protection, transformers, and automatic/manual transfer of main power to backup system is working.	Justification: No issues noted.
		M	Normal power source and backup units, if applicable, are operational with minor discrepancies or maintenance, inspection and exercising record is present but not up to date. Preventative maintenance or repairs are required.	
		U	Normal power source or generators are not operational and must be repaired; or generator, if required, is not on site.	
14. Electrical Systems	M	A	Operational and maintained free of damage, corrosion, and debris. Preventative maintenance and system testing is being performed periodically.	2021-0011 : PS-JA: Arc flash warnings need updating. (M) 2021-0071 : PS-SS: Arc-flash labels required on all 4 electrical panels. (M) 2021-0115 : PS-WA: Update arc flash labels on all applicable equipment. (M) 2021-0119 : PS-WA: Indicator light needs to be replaced. (M) 2021-0139 : PS-IN: Arc flash labels need updating. (M) 2021-0191 : PS-HC: Arc flash labels need updating. (M)
		M	Operational with minor discrepancies. Preventative maintenance or repairs are required, but the components are expected to function adequately during the next flood event.	
		U	Components of the electrical system will not function adequately during the next flood event and must be replaced.	
15. Megger Testing on Pump Motors and Critical Power Cables	A	A	Results of megger tests on pump motors or critical power cables show that the insulation meets manufacturer's or industry standards. Tested within the last year.	Justification: No issues noted.
		M	Megger testing not conducted within the past year. If megger tests on pump motors indicate that insulation resistance is below the manufacturer's or industry standard, but the resistance can be corrected with proper application of heat, this is minimally acceptable. (The application of heat does not relate to critical power cables.)	
		U	Megger tests not conducted within past two years, or tests indicate that insulation resistance is low enough that the equipment will not be able to meet design standards of operation; or evidence of arcing or shorting is detected visually.	

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16. Enclosures, Panels, Conduit and Ducts	A	A	All enclosures, panels, conduits, and ducts are protected from corrosion damage and show no rust, damage, or deterioration that would cause a safety concern.	Justification: No issues noted.
		M	Minor surface corrosion which appears to be maintainable. Cleaning and painting required.	
		U	Severely corroded and must be replaced to prevent failure, equipment damage, or safety issues.	
17. Intake and Discharge Pipelines	A	A	Intake and discharge pipelines have no corrosion and paint is intact, except for minor touch up required. Pipe couplings and anchors have no leakage or corrosion.	Justification: No issues noted.
		M	Intake and discharge pipelines have minor corrosion and repair and painting is required. Pipe coupling with anchors have minor leakage, corrosion and require bolts to be tightened.	
		U	Intake and discharge pipelines have major corrosion and replacement is required. Pipe coupling with anchors have major leakage and is heavily corroded and requires replacement.	
18. Sluice/ Slide Gates	M	A	Gates open and close freely to a tight seal or minor leakage. Gate operators are in good working condition and are properly maintained. Sill is free of sediment and other obstructions. Gates and lifters have been maintained and are free of corrosion. Documentation provided during the inspection.	2021-0083 : PS-SS: Influence sluice gate not operational. Not critical. Repair. (M)
		M	Gates and/or operators have been damaged or have minor corrosion, and open and close with resistance or binding. Leakage quantity is controllable, but maintenance is required. Sill is free of sediment and other obstructions.	
		U	Gates do not open or close and/or operators do not function. Gate, stem, lifter and/or guides may be damaged or have major corrosion.	
		N/A	There are no sluice/ slide gates.	
19. Flap Gates/ Flap Valves/ Pinch Valves	A	A	Gates/ valves open and close easily with minimal leakage, have no corrosion damage, and have been exercised and lubricated as required.	Justification: No issues noted.
		M	Gates/ valves will not fully open or close because of obstructions that can be easily removed, or have minor corrosion damage that requires maintenance.	
		U	Gates/ valves are missing, have been damaged, or have deteriorated to the point that they need to be replaced.	
		N/A	There are no gates on discharge lines from pump station.	
20. Cranes	A	A	Cranes operational and have been inspected and load tested in accordance with applicable standards within the last year. Documentation is on hand.	Justification: No issues noted.
		M	Cranes have not been inspected or operationally tested within the past year, or there are visible signs of corrosion, oil leakage, etc, requiring maintenance.	
		U	Cranes are not operational, and this may prevent the pump station from functioning as required. No documentation available on cranes.	
		N/A	There are no cranes.	

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21. Other Metallic Items (Equipment, Ladders, Platform Anchors, etc)	M	A	All metal parts are protected from corrosion damage and show no rust, damage, or deterioration that would cause a safety concern.	2021-0087 : PS-SS: Grating anchors loose or missing. Recommend replacement. (M)
		M	Corrosion seen on metallic parts appears to be maintainable.	
		U	Metallic parts are severely corroded and require replacement to prevent failure, equipment damage, or safety issues.	
		N/A	There are no other significant metallic items.	

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Inspect ID: 2021-0173 **Title:** 2604000008_CELRC_2021_A_0173_1_20210623T183035.jpg **Rated Item:** 2. Emergency Supplies and Equipment (A or M only) **Caption:** Acceptable - The sandbags are located at the water facility right off of Calumet Avenue. There are about 1200 sand bags and sand to make more bags if needed.



Inspect ID: 2021-0024 **Title:** 2604000008_CELRC_2021_A_0024_1_20210623T131056.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Tall veg on riverside slope. Cut.

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	Inspect ID: 2021-0028 Title: 2604000008_CELRC_2021_A_0028_1_20210623T131238.jpg Rated Item: 1. Unwanted Vegetation Growth Caption: Minimally Acceptable - Large bushes about 5 ft from landside toe. Cut.
	Inspect ID: 2021-0108 Title: 2604000008_CELRC_2021_A_2021-0108_2_20210623T134922.jpg Rated Item: 1. Unwanted Vegetation Growth Caption: Minimally Acceptable - Tall veg from lack of mowing around stakes on landside. Remove stakes and mow.

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Inspect ID: 2021-0124 **Title:** 2604000008_CELRC_2021_A_0124_1_20210623T135227.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Small trees, tall veg on riverside toe. Cut.



Inspect ID: 2021-0148 **Title:** 2604000008_CELRC_2021_A_0148_1_20210623T140508.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Overhang from trees on the riverside. Cut back.

Photos: Hammond

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Inspect ID: 2021-0160 **Title:** 2604000008_CELRC_2021_A_0160_1_20210623T141352.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Trim trees back.



Inspect ID: 2021-0172 **Title:** 2604000008_CELRC_2021_A_0172_1_20210623T142317.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Trees on riverside toe. Cut.


Photos: Hammond

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	<p>Inspect ID: 2021-0204 Title: 2604000008_CELRC_2021_A_2021-0204_1_20210623T145136.jpg Rated Item: 1. Unwanted Vegetation Growth Caption: Minimally Acceptable - Medium size trees on riverside slope. Cut.</p>
	<p>Inspect ID: 2021-0249 Title: 2604000008_CELRC_2021_A_0249_1_20210624T132427.jpg Rated Item: 1. Unwanted Vegetation Growth Caption: Minimally Acceptable - Remove tall vegetation 15 ft from the riverside toe.</p>

Photos: Hammond

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	<p>Inspect ID: 2021-0257 Title: 2604000008_CELRC_2021_A_0257_1_20210624T132755.jpg Rated Item: 1. Unwanted Vegetation Growth Caption: Minimally Acceptable - Tall vegetation on landside toe. Remove within 15ft from the toe.</p>
	<p>Inspect ID: 2021-0360 Title: 2604000008_CELRC_2021_A_0360_1_20210623T155626.jpg Rated Item: 1. Unwanted Vegetation Growth Caption: Minimally Acceptable - Vegetation near riverside toe. Cut.</p>

Photos: Hammond

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Inspect ID: 2021-0377 **Title:** 2604000008_CELRC_2021_A_0377_1_20210624T135800.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Trees on riverside toe and slope. Cut.



Inspect ID: 2021-0380 **Title:** 2604000008_CELRC_2021_A_0380_1_20210623T160852.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Trees within 15 ft of landside toe. Cut back.

Photos: Hammond

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Inspect ID: 2021-0384 **Title:** 2604000008_CELRC_2021_A_0384_1_20210623T160950.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Trees near riverside toe. Cut back.



Inspect ID: 2021-0389 **Title:** 2604000008_CELRC_2021_A_0389_1_20210624T140912.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Acceptable - Tall vegetation on riverside slope. Monitor.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0404 **Title:** 2604000008_CELRC_2021_A_0404_1_20210623T161547.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Tree and tall vegetation on riverside toe. Cut.



Inspect ID: 2021-0408 **Title:** 2604000008_CELRC_2021_A_0408_1_20210623T161640.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Small tree on riverside. Cut.



Photos: Hammond

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	<p>Inspect ID: 2021-0484 Title: 2604000008_CELRC_2021_A_0484_1_20210623T170621.jpg Rated Item: 1. Unwanted Vegetation Growth Caption: Minimally Acceptable - Tall vegetation on landside toe. Cut.</p>
	<p>Inspect ID: 2021-0488 Title: 2604000008_CELRC_2021_A_0488_1_20210623T170833.jpg Rated Item: 1. Unwanted Vegetation Growth Caption: Minimally Acceptable - Tall vegetation on riverside slope. Cut.</p>

Photos: Hammond

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	<p>Inspect ID: 2021-0532 Title: 2604000008_CELRC_2021_A_0532_1_20210623T173803.jpg Rated Item: 1. Unwanted Vegetation Growth Caption: Minimally Acceptable - Trees on landside toe. Cut.</p>
	<p>Inspect ID: 2021-0536 Title: 2604000008_CELRC_2021_A_0536_1_20210623T174107.jpg Rated Item: 1. Unwanted Vegetation Growth Caption: Minimally Acceptable - Tall vegetation and trees on riverside. Cut.</p>



Photos: Hammond

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	<p>Inspect ID: 2021-0556 Title: 2604000008_CELRC_2021_A_0556_1_20210623T175000.jpg Rated Item: 1. Unwanted Vegetation Growth Caption: Minimally Acceptable - Tall vegetation on the riverside toe. Cut.</p>
	<p>Inspect ID: 2021-0560 Title: 2604000008_CELRC_2021_A_0560_1_20210623T175208.jpg Rated Item: 1. Unwanted Vegetation Growth Caption: Minimally Acceptable - Tall vegetation on riverside. Cut.</p>

Photos: Hammond

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	<p>Inspect ID: 2021-0596 Title: 2604000008_CELRC_2021_A_0596_1_20210623T185929.jpg Rated Item: 1. Unwanted Vegetation Growth Caption: Minimally Acceptable - Tall vegetation on riverside toe and slope. Cut.</p>
	<p>Inspect ID: 2021-0600 Title: 2604000008_CELRC_2021_A_0600_1_20210623T190012.jpg Rated Item: 1. Unwanted Vegetation Growth Caption: Minimally Acceptable - Start line</p>

Photos: Hammond

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Inspect ID: 2021-0604 **Title:** 2604000008_CELRC_2021_A_0604_1_20210623T190130.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Tall vegetation and trees on landside toe. Cut back.



Inspect ID: 2021-0636 **Title:** 2604000008_CELRC_2021_A_0636_1_20210623T191723.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Tall vegetation on riverside toe. Cut.

Photos: Hammond

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Inspect ID: 2021-0664 **Title:** 2604000008_CELRC_2021_A_0664_1_20210623T193201.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Remove two trees near landside toe.



Inspect ID: 2021-0676 **Title:** 2604000008_CELRC_2021_A_0676_1_20210623T193422.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Remove tall vegetation and trees within 15 ft from the landside toe.

Photos: Hammond

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	<p>Inspect ID: 2021-0680 Title: 2604000008_CELRC_2021_A_0680_1_20210623T193533.jpg Rated Item: 1. Unwanted Vegetation Growth Caption: Minimally Acceptable - Remove back to 15</p>
	<p>Inspect ID: 2021-0704 Title: 2604000008_CELRC_2021_A_2021-0704_2_20210623T194255.jpg Rated Item: 1. Unwanted Vegetation Growth Caption: Acceptable - Cut tall vegetation on landside toe.</p>

Photos: Hammond

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Inspect ID: 2021-0728 **Title:**

2604000008_CELRC_2021_A_0728_1_20210623T194759.jpg **Rated**
Item: 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable -
Remove tall vegetation and trees within 15 ft from the landside toe.



Inspect ID: 2021-0736 **Title:**

2604000008_CELRC_2021_A_0736_1_20210623T194912.jpg **Rated**
Item: 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable -
Cut trees within 15 ft from the riverside toe.

Photos: Hammond

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	<p>Inspect ID: 2021-0592 Title: 2604000008_CELRC_2021_A_0592_1_20210623T185846.jpg Rated Item: 2. Sod Cover Caption: Minimally Acceptable - Poor sod on landside slope. Seed.</p>
	<p>Inspect ID: 2021-0032 Title: 2604000008_CELRC_2021_A_0032_1_20210623T131514.jpg Rated Item: 3. Encroachments Caption: Minimally Acceptable - Concrete block on riverside slope. Remove.</p>



Photos: Hammond

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	<p>Inspect ID: 2021-0112 Title: 2604000008_CELRC_2021_A_2021-0112_2_20210623T135030.jpg Rated Item: 3. Encroachments Caption: Minimally Acceptable - Stakes along landside toe. Remove.</p>
	<p>Inspect ID: 2021-0208 Title: 2604000008_CELRC_2021_A_0208_1_20210623T145316.jpg Rated Item: 3. Encroachments Caption: Minimally Acceptable - Multiple logs on riverside slope. Remove.</p>

Photos: Hammond

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	Inspect ID: 2021-0253 Title: 2604000008_CELRC_2021_A_0253_2_20210624T132642.jpg Rated Item: 3. Encroachments Caption: Minimally Acceptable - Attached property draining onto landside toe and causing erosion. Local sponsor notified and addressing.
	Inspect ID: 2021-0265 Title: 2604000008_CELRC_2021_A_0265_1_20210624T133013.jpg Rated Item: 3. Encroachments Caption: Minimally Acceptable - Remove fallen tree.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0277 **Title:** 2604000008_CELRC_2021_A_0277_1_20210624T133142.jpg **Rated Item:** 3. Encroachments **Caption:** Minimally Acceptable - Memorial on levee crest. Remove.



Inspect ID: 2021-0281 **Title:** 2604000008_CELRC_2021_A_0281_1_20210624T133348.jpg **Rated Item:** 3. Encroachments **Caption:** Minimally Acceptable - Remove fire hose on riverside slope.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0289 **Title:** 2604000008_CELRC_2021_A_0289_1_20210624T133450.jpg **Rated Item:** 3. Encroachments **Caption:** Minimally Acceptable - Remove dead tree on riverside toe.



Inspect ID: 2021-0293 **Title:** 2604000008_CELRC_2021_A_0293_1_20210624T133545.jpg **Rated Item:** 3. Encroachments **Caption:** Minimally Acceptable - Remove debris pile from riverside slope.

Photos: Hammond

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Inspect ID: 2021-0420 **Title:** 2604000008_CELRC_2021_A_0420_1_20210623T162506.jpg **Rated Item:** 3. Encroachments **Caption:** Minimally Acceptable - Signs on the crest. Remove and restore the levee.



Inspect ID: 2021-0440 **Title:** 2604000008_CELRC_2021_A_0440_1_20210623T163623.jpg **Rated Item:** 3. Encroachments **Caption:** Minimally Acceptable - Three wood beams on the riverside. Remove.

Photos: Hammond

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Inspect ID: 2021-0640 **Title:** 2604000008_CELRC_2021_A_0640_1_20210623T192014.jpg **Rated Item:** 3. Encroachments **Caption:** Minimally Acceptable - Remove various logs on the landside.



Inspect ID: 2021-0644 **Title:** 2604000008_CELRC_2021_A_0644_1_20210623T192055.jpg **Rated Item:** 3. Encroachments **Caption:** Minimally Acceptable - Remove fallen trees and logs from the landside.

Photos: Hammond

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	Inspect ID: 2021-0656 Title: 2604000008_CELRC_2021_A_0656_1_20210623T192808.jpg Rated Item: 3. Encroachments Caption: Minimally Acceptable - Remove logs from the riverside.
	Inspect ID: 2021-0708 Title: 2604000008_CELRC_2021_A_0708_1_20210623T194330.jpg Rated Item: 3. Encroachments Caption: Minimally Acceptable - Remove concrete pipes on the landside.

Photos: Hammond

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Inspect ID: 2021-0724 **Title:** 2604000008_CELRC_2021_A_0724_1_20210623T194648.jpg **Rated Item:** 3. Encroachments **Caption:** Minimally Acceptable - Remove concrete debris along landside toe.



Inspect ID: 2021-0760 **Title:** 2604000008_CELRC_2021_A_0760_1_20210623T195500.jpg **Rated Item:** 3. Encroachments **Caption:** Minimally Acceptable - Remove two concrete blocks from crest.

Photos: Hammond

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	<p>Inspect ID: 2021-0392 Title: 2604000008_CELRC_2021_A_0392_1_20210623T161050.jpg Rated Item: 5. Slope Stability Caption: Acceptable - Steep riverside slope, 1.5:1. Monitor.</p>
	<p>Inspect ID: 2021-0001 Title: 2604000008_CELRC_2021_A_0001_1_20210621T135855.jpg Rated Item: 6. Erosion/ Bank Caving Caption: Minimally Acceptable - Erosion on riverside toe. About 5 feet of bank remaining from toe. Significant change since 2020. If the cause is determined to be from the Baring Pump Station, extend the pipe with a bend to direct flow away from the bank, otherwise, armor with riprap.</p>

Photos: Hammond

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Inspect ID: 2021-0396 **Title:** 2604000008_CELRC_2021_A_0396_1_20210623T161355.jpg **Rated Item:** 6. Erosion/ Bank Caving **Caption:** Minimally Acceptable - Erosion on riverside toe. Armor.



Inspect ID: 2021-0632 **Title:** 2604000008_CELRC_2021_A_0632_1_20210623T191625.jpg **Rated Item:** 6. Erosion/ Bank Caving **Caption:** Minimally Acceptable - Typical erosion along riverside toe. Armor.

Photos: Hammond

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Inspect ID: 2021-0632 **Title:** 2604000008_CELRC_2021_A_2021-0632_2_20210623T191847.jpg **Rated Item:** 6. Erosion/ Bank Caving
Caption: Minimally Acceptable - Typical erosion along riverside toe. Armor.



Inspect ID: 2021-0660 **Title:** 2604000008_CELRC_2021_A_0660_1_20210623T193054.jpg **Rated Item:** 6. Erosion/ Bank Caving
Caption: Minimally Acceptable - Erosion next to headwall. Armor.

Photos: Hammond

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Inspect ID: 2021-0080 **Title:** 2604000008_CELRC_2021_A_0080_1_20210623T133610.jpg **Rated Item:** 7. Settlement **Caption:** Minimally Acceptable - Settlement at tie in, 4 inches lower than sheet pile. Restore levee crest.



Inspect ID: 2021-0100 **Title:** 2604000008_CELRC_2021_A_0100_1_20210623T134503.jpg **Rated Item:** 7. Settlement **Caption:** Minimally Acceptable - 3 inch settlement at wall. Restore levee crest.

Photos: Hammond

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Inspect ID: 2021-0128 **Title:** 2604000008_CELRC_2021_A_0128_1_20210623T135309.jpg **Rated Item:** 7. Settlement **Caption:** Minimally Acceptable - 2 inch settlement at wall tie-in. Restore levee crest.



Inspect ID: 2021-0164 **Title:** 2604000008_CELRC_2021_A_0164_1_20210623T141802.jpg **Rated Item:** 7. Settlement **Caption:** Minimally Acceptable - Settlement 6 inches at the wall. Restore levee crest.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0177 **Title:** 2604000008_CELRC_2021_A_0177_1_20210624T130411.jpg **Rated**
Item: 7. Settlement **Caption:** Minimally Acceptable - Wall tie in is 2 inches lower than levee and depressions forming. Fill to grade.



Inspect ID: 2021-0016 **Title:** 2604000008_CELRC_2021_A_0016_1_20210623T130859.jpg **Rated**
Item: 8. Depressions/ Rutting **Caption:** Minimally Acceptable - Depression on landside slope. Fill to grade.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems





Inspect ID: 2021-0020 **Title:** 2604000008_CELRC_2021_A_0020_1_20210623T130944.jpg **Rated Item:** 8. Depressions/ Rutting **Caption:** Minimally Acceptable - Deep rut on landside toe. Fill to grade.



Inspect ID: 2021-0261 **Title:** 2604000008_CELRC_2021_A_0261_1_20210624T132911.jpg **Rated Item:** 8. Depressions/ Rutting **Caption:** Minimally Acceptable - Deep ruts on riverside toe. Fill.

Photos: Hammond

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	<p>Inspect ID: 2021-0648 Title: 2604000008_CELRC_2021_A_0648_1_20210623T192328.jpg Rated Item: 8. Depressions/ Rutting Caption: Minimally Acceptable - Depression on riverside toe. Fill.</p>
	<p>Inspect ID: 2021-0740 Title: 2604000008_CELRC_2021_A_0740_1_20210623T195137.jpg Rated Item: 8. Depressions/ Rutting Caption: Minimally Acceptable - Rutting on the crest. Fill and seed.</p>

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0744 **Title:** 2604000008_CELRC_2021_A_0744_1_20210623T195158.jpg **Rated Item:** 8. Depressions/ Rutting **Caption:** Minimally Acceptable - Rutting on the crest. Fill and seed.



Inspect ID: 2021-0748 **Title:** 2604000008_CELRC_2021_A_0748_1_20210623T195226.jpg **Rated Item:** 8. Depressions/ Rutting **Caption:** Minimally Acceptable - Rutting on the crest. Fill and seed.

Photos: Hammond

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	Inspect ID: 2021-0756 Title: 2604000008_CELRC_2021_A_0756_1_20210623T195424.jpg Rated Item: 8. Depressions/ Rutting Caption: Minimally Acceptable - Rutting on the crest. Fill and seed.
	Inspect ID: 2021-0652 Title: 2604000008_CELRC_2021_A_0652_1_20210623T192603.jpg Rated Item: 9. Cracking Caption: Acceptable - Longitudinal cracking on the crest, typical along the levee system. Monitor.

Photos: Hammond

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Inspect ID: 2021-0025 **Title:** 2604000008_CELRC_2021_A_0025_1_20210623T135404.jpg **Rated Item:** 10. Animal Control **Caption:** Minimally Acceptable - HA-6: There is an animal burrow on the opposite side of the sluice gate fence . Fill.



Inspect ID: 2021-0192 **Title:** 2604000008_CELRC_2021_A_0192_1_20210623T143118.jpg **Rated Item:** 10. Animal Control **Caption:** Minimally Acceptable - Animal holes, 2 inches deep. Fill.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0245 **Title:** 2604000008_CELRC_2021_A_0245_1_20210624T132353.jpg **Rated Item:** 10. Animal Control **Caption:** Minimally Acceptable - Animal burrow going into floodwall. 8 inch diameter. Fill.



Inspect ID: 2021-0373 **Title:** 2604000008_CELRC_2021_A_0373_1_20210624T135657.jpg **Rated Item:** 10. Animal Control **Caption:** Minimally Acceptable - 3 burrows, 6 inches deep each. Fill.

Photos: Hammond

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Inspect ID: 2021-0444 **Title:** 2604000008_CELRC_2021_A_0444_1_20210623T163935.jpg **Rated Item:** 10. Animal Control **Caption:** Minimally Acceptable - Two foot deep, five inch diameter hole by wall. Fill.



Inspect ID: 2021-0616 **Title:** 2604000008_CELRC_2021_A_0616_1_20210623T190609.jpg **Rated Item:** 10. Animal Control **Caption:** Minimally Acceptable - Animal burrow at floodwall tie in. Fill.

Photos: Hammond

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Inspect ID: 2021-0684 **Title:** 2604000008_CELRC_2021_A_0684_1_20210623T193746.jpg **Rated Item:** 10. Animal Control **Caption:** Minimally Acceptable - Very deep burrow on floodwall tie in. Fill.



Inspect ID: 2021-0348 **Title:** 2604000008_CELRC_2021_A_0348_1_20210623T155009.jpg **Rated Item:** 12. Riprap Revetments & Bank Protection **Caption:** Minimally Acceptable - Riprap on upper half of riverside slope displaced. Restore.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0376 **Title:** 2604000008_CELRC_2021_A_0376_1_20210623T160057.jpg **Rated Item:** 12. Riprap Revetments & Bank Protection **Caption:** Minimally Acceptable - Displaced riprap by the outlet structure. Restore.



Inspect ID: 2021-0352 **Title:** 2604000008_CELRC_2021_A_0352_1_20210623T155042.jpg **Rated Item:** 13. Revetments other than Riprap **Caption:** Minimally Acceptable - Missing stone from gabion. Restore.

Photos: Hammond

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Inspect ID: 2021-0356 **Title:** 2604000008_CELRC_2021_A_0356_1_20210623T155203.jpg **Rated Item:** 13. Revetments other than Riprap **Caption:** Minimally Acceptable - Damaged gabion. Repair basket.



Inspect ID: 2021-0040 **Title:** 2604000008_CELRC_2021_A_0040_1_20210623T131923.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Tall vegetation and small trees on riverside. Cut.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0092 **Title:** 2604000008_CELRC_2021_A_0092_1_20210623T134230.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Large bushes on riverside. Cut.



Inspect ID: 2021-0209 **Title:** 2604000008_CELRC_2021_A_0209_1_20210624T131449.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Remove small trees along riverside of floodwall.

Photos: Hammond

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Inspect ID: 2021-0213 **Title:**

2604000008_CELRC_2021_A_0213_1_20210624T131543.jpg **Rated**
Item: 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable -
Remove tree branches and bushes on riverside of floodwall.



Inspect ID: 2021-0220 **Title:**

2604000008_CELRC_2021_A_0220_2_20210623T150114.jpg **Rated**
Item: 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable -
Remove small trees on riverside.

Photos: Hammond

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	<p>Inspect ID: 2021-0225 Title: 2604000008_CELRC_2021_A_0225_1_20210624T131758.jpg Rated Item: 1. Unwanted Vegetation Growth Caption: Minimally Acceptable - Remove small trees on riverside.</p>
	<p>Inspect ID: 2021-0232 Title: 2604000008_CELRC_2021_A_0232_1_20210623T150514.jpg Rated Item: 1. Unwanted Vegetation Growth Caption: Minimally Acceptable - Remove trees on riverside.</p>

Photos: Hammond

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Inspect ID: 2021-0248 **Title:** 2604000008_CELRC_2021_A_0248_1_20210623T151129.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Remove small tree on landside.



Inspect ID: 2021-0256 **Title:** 2604000008_CELRC_2021_A_0256_1_20210623T151339.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Tall vegetation and trees on riverside. Cut.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0272 **Title:** 2604000008_CELRC_2021_A_0272_1_20210623T151843.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Trees on riverside. Cut.



Inspect ID: 2021-0284 **Title:** 2604000008_CELRC_2021_A_0284_1_20210623T152239.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Tall vegetation on riverside. Cut.

Photos: Hammond

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Inspect ID: 2021-0296 **Title:** 2604000008_CELRC_2021_A_0296_1_20210623T152520.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Trees on riverside. Cut.



Inspect ID: 2021-0301 **Title:** 2604000008_CELRC_2021_A_0301_1_20210624T133820.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Small Trees on riverside of floodwall. Cut.

Photos: Hammond

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Inspect ID: 2021-0304 **Title:** 2604000008_CELRC_2021_A_0304_1_20210623T153327.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Small tree on landside. Cut.



Inspect ID: 2021-0308 **Title:** 2604000008_CELRC_2021_A_0308_1_20210623T153456.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Tall vegetation on riverside. Cut.

Photos: Hammond

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Inspect ID: 2021-0312 **Title:** 2604000008_CELRC_2021_A_0312_1_20210623T153619.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Trim back overhanging trees.



Inspect ID: 2021-0320 **Title:** 2604000008_CELRC_2021_A_0320_1_20210623T153928.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Trees on riverside. Cut.

Photos: Hammond

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	<p>Inspect ID: 2021-0325 Title: 2604000008_CELRC_2021_A_0325_1_20210624T134318.jpg Rated Item: 1. Unwanted Vegetation Growth Caption: Minimally Acceptable - Trim back tree branches out of the 15 ft vegetation free zone.</p>
	<p>Inspect ID: 2021-0328 Title: 2604000008_CELRC_2021_A_0328_1_20210623T154059.jpg Rated Item: 1. Unwanted Vegetation Growth Caption: Minimally Acceptable - Remove small tree on landside.</p>

Photos: Hammond

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	<p>Inspect ID: 2021-0337 Title: 2604000008_CELRC_2021_A_0337_1_20210624T134532.jpg Rated Item: 1. Unwanted Vegetation Growth Caption: Minimally Acceptable - Remove two small trees on landside.</p>
	<p>Inspect ID: 2021-0349 Title: 2604000008_CELRC_2021_A_0349_1_20210624T135025.jpg Rated Item: 1. Unwanted Vegetation Growth Caption: Minimally Acceptable - Trim tree branches back. on riverside.</p>

Photos: Hammond

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Inspect ID: 2021-0357 **Title:** 2604000008_CELRC_2021_A_0357_1_20210624T135301.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Remove bushes on landside.



Inspect ID: 2021-0361 **Title:** 2604000008_CELRC_2021_A_0361_1_20210624T135402.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Cut trees and bushes on riverside. Cut back overhanging trees.

Photos: Hammond

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Inspect ID: 2021-0365 **Title:** 2604000008_CELRC_2021_A_0365_1_20210624T135508.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Two large trees on riverside. Cut.



Inspect ID: 2021-0452 **Title:** 2604000008_CELRC_2021_A_0452_1_20210623T164356.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Small trees on riverside. Cut.

Photos: Hammond

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Inspect ID: 2021-0456 **Title:** 2604000008_CELRC_2021_A_0456_1_20210623T164940.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Small trees on riverside. Cut.



Inspect ID: 2021-0460 **Title:** 2604000008_CELRC_2021_A_0460_1_20210623T165131.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Remove trees on landside.

Photos: Hammond

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Inspect ID: 2021-0508 **Title:** 2604000008_CELRC_2021_A_0508_1_20210623T171847.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Tall vegetation on the landside. Cut.



Inspect ID: 2021-0520 **Title:** 2604000008_CELRC_2021_A_0520_1_20210623T172520.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Vegetation on the riverside floodwall

Photos: Hammond

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Inspect ID: 2021-0620 **Title:** 2604000008_CELRC_2021_A_0620_1_20210623T190706.jpg **Rated Item:** 1. Unwanted Vegetation Growth **Caption:** Minimally Acceptable - Small trees on landside of floodwall. Remove.



Inspect ID: 2021-0193 **Title:** 2604000008_CELRC_2021_A_0193_1_20210624T130935.jpg **Rated Item:** 2. Encroachments **Caption:** Minimally Acceptable - Remove inflatable tube on riverside.

Photos: Hammond

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Inspect ID: 2021-0201 **Title:** 2604000008_CELRC_2021_A_0201_1_20210624T131142.jpg **Rated Item:** 2. Encroachments **Caption:** Minimally Acceptable - Remove tree branch on riverside.



Inspect ID: 2021-0217 **Title:** 2604000008_CELRC_2021_A_0217_1_20210624T131645.jpg **Rated Item:** 2. Encroachments **Caption:** Minimally Acceptable - Remove tubes on landside.

Photos: Hammond

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Inspect ID: 2021-0221 **Title:** 2604000008_CELRC_2021_A_0221_1_20210624T131717.jpg **Rated Item:** 2. Encroachments **Caption:** Minimally Acceptable - Remove debris on riverside.



Inspect ID: 2021-0224 **Title:** 2604000008_CELRC_2021_A_0224_1_20210623T150212.jpg **Rated Item:** 2. Encroachments **Caption:** Minimally Acceptable - Remove debris pile on riverside.

Photos: Hammond

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Inspect ID: 2021-0229 **Title:** 2604000008_CELRC_2021_A_0229_1_20210624T131901.jpg **Rated Item:** 2. Encroachments **Caption:** Minimally Acceptable - Remove debris pile on riverside.



Inspect ID: 2021-0260 **Title:** 2604000008_CELRC_2021_A_0260_1_20210623T151522.jpg **Rated Item:** 2. Encroachments **Caption:** Minimally Acceptable - Move trash can.

Photos: Hammond

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Inspect ID: 2021-0305 **Title:** 2604000008_CELRC_2021_A_0305_1_20210624T133904.jpg **Rated Item:** 2. Encroachments **Caption:** Minimally Acceptable - Remove logs on riverside.



Inspect ID: 2021-0309 **Title:** 2604000008_CELRC_2021_A_0309_1_20210624T134000.jpg **Rated Item:** 2. Encroachments **Caption:** Minimally Acceptable - Remove two 4x4s on landside.

Photos: Hammond

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Inspect ID: 2021-0313 **Title:** 2604000008_CELRC_2021_A_0313_3_20210624T134105.jpg **Rated Item:** 2. Encroachments **Caption:** Minimally Acceptable - Remove concrete and beam on riverside.



Inspect ID: 2021-0317 **Title:** 2604000008_CELRC_2021_A_0317_1_20210624T134139.jpg **Rated Item:** 2. Encroachments **Caption:** Minimally Acceptable - Remove concrete block and 4x4 on landside.

Photos: Hammond

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Inspect ID: 2021-0321 **Title:** 2604000008_CELRC_2021_A_0321_1_20210624T134236.jpg **Rated Item:** 2. Encroachments **Caption:** Minimally Acceptable - Remove debris pile on landside.



Inspect ID: 2021-0369 **Title:** 2604000008_CELRC_2021_A_0369_1_20210624T135548.jpg **Rated Item:** 2. Encroachments **Caption:** Minimally Acceptable - Remove debris pile on landside.

Photos: Hammond

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Inspect ID: 2021-0572 **Title:** 2604000008_CELRC_2021_A_0572_1_20210623T175957.jpg **Rated Item:** 2. Encroachments **Caption:** Minimally Acceptable - Remove 4x4 on riverside.



Inspect ID: 2021-0500 **Title:** 2604000008_CELRC_2021_A_0500_1_20210623T171514.jpg **Rated Item:** 3. Closure Structures (Stop Log Closures and Gates) (A or U only) **Caption:** Acceptable - Corrosion on the wheels. Clean.

Photos: Hammond

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Inspect ID: 2021-0504 **Title:** 2604000008_CELRC_2021_A_0504_1_20210623T171703.jpg **Rated Item:** 3. Closure Structures (Stop Log Closures and Gates) (A or U only) **Caption:** Acceptable - Missing rubber seal. Replace.



Inspect ID: 2021-0576 **Title:** 2604000008_CELRC_2021_A_0576_1_20210623T180238.jpg **Rated Item:** 3. Closure Structures (Stop Log Closures and Gates) (A or U only) **Caption:** Acceptable - Guardrail is blocking the closure. Consider new layout for closure installation.

Photos: Hammond

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Inspect ID: 2021-0580 **Title:** 2604000008_CELRC_2021_A_0580_1_20210623T185620.jpg **Rated Item:** 3. Closure Structures (Stop Log Closures and Gates) (A or U only) **Caption:** Minimally Acceptable - Spalling and cracking on sill. Seal.



Inspect ID: 2021-0228 **Title:** 2604000008_CELRC_2021_A_0228_1_20210623T150344.jpg **Rated Item:** 4. Concrete Surfaces **Caption:** Minimally Acceptable - Exposed rebar. Patch.

Photos: Hammond

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	<p>Inspect ID: 2021-0237 Title: 2604000008_CELRC_2021_A_0237_1_20210624T132059.jpg Rated Item: 4. Concrete Surfaces Caption: Minimally Acceptable - Seal crack.</p>
	<p>Inspect ID: 2021-0240 Title: 2604000008_CELRC_2021_A_0240_1_20210623T150737.jpg Rated Item: 4. Concrete Surfaces Caption: Minimally Acceptable - Cracking and spalling on cap. Patch.</p>

Photos: Hammond

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Inspect ID: 2021-0252 **Title:** 2604000008_CELRC_2021_A_0252_1_20210623T151226.jpg **Rated Item:** 4. Concrete Surfaces **Caption:** Minimally Acceptable - Spalling and cracking. Repair.



Inspect ID: 2021-0280 **Title:** 2604000008_CELRC_2021_A_0280_1_20210623T152150.jpg **Rated Item:** 4. Concrete Surfaces **Caption:** Minimally Acceptable - Crack on landside. Seal.

Photos: Hammond

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Inspect ID: 2021-0496 **Title:** 2604000008_CELRC_2021_A_0496_1_20210623T171312.jpg **Rated Item:** 4. Concrete Surfaces **Caption:** Minimally Acceptable - Multiple cracks on both sides of the floodwall. Seal.



Inspect ID: 2021-0512 **Title:** 2604000008_CELRC_2021_A_0512_1_20210623T172037.jpg **Rated Item:** 4. Concrete Surfaces **Caption:** Minimally Acceptable - Cracking on landside. Seal.

Photos: Hammond

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Inspect ID: 2021-0528 **Title:** 2604000008_CELRC_2021_A_0528_1_20210623T173608.jpg **Rated Item:** 4. Concrete Surfaces **Caption:** Minimally Acceptable - Multiples cracks on landside. Seal.



Inspect ID: 2021-0588 **Title:** 2604000008_CELRC_2021_A_0588_1_20210623T185758.jpg **Rated Item:** 4. Concrete Surfaces **Caption:** Minimally Acceptable - Crack on both sides. Seal.

Photos: Hammond

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Inspect ID: 2021-0688 **Title:** 2604000008_CELRC_2021_A_0688_1_20210623T193845.jpg **Rated Item:** 4. Concrete Surfaces **Caption:** Minimally Acceptable - Typical cracking along entire section on riverside. Seal.



Inspect ID: 2021-0692 **Title:** 2604000008_CELRC_2021_A_0692_1_20210623T193921.jpg **Rated Item:** 4. Concrete Surfaces **Caption:** Minimally Acceptable - Spalling on riverside. Patch.

Photos: Hammond

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Inspect ID: 2021-0036 **Title:**
2604000008_CELRC_2021_A_0036_1_20210623T131732.jpg **Rated**
Item: 6. Foundation of Concrete Structures **Caption:** Minimally
Acceptable - Settlement at west end of wall. Fill.



Inspect ID: 2021-0056 **Title:**
2604000008_CELRC_2021_A_0056_1_20210623T132407.jpg **Rated**
Item: 6. Foundation of Concrete Structures **Caption:** Acceptable - Gully on
ls. Fill.

Photos: Hammond

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Inspect ID: 2021-0060 **Title:** 2604000008_CELRC_2021_A_0060_1_20210623T132502.jpg **Rated Item:** 6. Foundation of Concrete Structures **Caption:** Minimally Acceptable - Hole on landside. Fill.



Inspect ID: 2021-0068 **Title:** 2604000008_CELRC_2021_A_0068_1_20210623T132952.jpg **Rated Item:** 6. Foundation of Concrete Structures **Caption:** Minimally Acceptable - Minor settlement at end of floodwall. Fill.

Photos: Hammond

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Inspect ID: 2021-0084 **Title:** 2604000008_CELRC_2021_A_0084_1_20210623T133716.jpg **Rated**
Item: 6. Foundation of Concrete Structures **Caption:** Minimally Acceptable - Line for holes on ls



Inspect ID: 2021-0132 **Title:** 2604000008_CELRC_2021_A_0132_1_20210623T135510.jpg **Rated**
Item: 6. Foundation of Concrete Structures **Caption:** Minimally Acceptable - Hole on landside. Fill.

Photos: Hammond

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Inspect ID: 2021-0144 **Title:** 2604000008_CELRC_2021_A_0144_1_20210623T135956.jpg **Rated Item:** 6. Foundation of Concrete Structures **Caption:** Minimally Acceptable - 2 holes on landside. Fill.



Inspect ID: 2021-0189 **Title:** 2604000008_CELRC_2021_A_0189_1_20210624T130830.jpg **Rated Item:** 6. Foundation of Concrete Structures **Caption:** Minimally Acceptable - Exposed geotextile on riverside. Replace.

Photos: Hammond

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Inspect ID: 2021-0197 **Title:** 2604000008_CELRC_2021_A_2021-0197_2_20210624T131220.jpg **Rated Item:** 6. Foundation of Concrete Structures **Caption:** Minimally Acceptable - Settlement again sheet pile. Fill to drain away from the wall.



Inspect ID: 2021-0212 **Title:** 2604000008_CELRC_2021_A_0212_1_20210623T145722.jpg **Rated Item:** 6. Foundation of Concrete Structures **Caption:** Minimally Acceptable - Hole on the landside. Fill.

Photos: Hammond

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	<p>Inspect ID: 2021-0241 Title: 2604000008_CELRC_2021_A_0241_1_20210624T132218.jpg Rated Item: 6. Foundation of Concrete Structures Caption: Acceptable - Depression behind floodwall. Monitor.</p>
	<p>Inspect ID: 2021-0297 Title: 2604000008_CELRC_2021_A_0297_1_20210624T133706.jpg Rated Item: 6. Foundation of Concrete Structures Caption: Minimally Acceptable - Depression 5 inch deep on landside. Fill.</p>

Photos: Hammond

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Inspect ID: 2021-0448 **Title:** 2604000008_CELRC_2021_A_0448_1_20210623T164200.jpg **Rated Item:** 6. Foundation of Concrete Structures **Caption:** Minimally Acceptable - Holes along the wall. Fill.



Inspect ID: 2021-0168 **Title:** 2604000008_CELRC_2021_A_0168_1_20210623T142041.jpg **Rated Item:** 7. Monolith Joints **Caption:** Minimally Acceptable - Grass in the interlocks. Clean.

Photos: Hammond

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Inspect ID: 2021-0216 **Title:** 2604000008_CELRC_2021_A_0216_1_20210623T145842.jpg **Rated Item:** 7. Monolith Joints **Caption:** Minimally Acceptable - Deteriorating sealant. Remove old caulk and reseal.



Inspect ID: 2021-0236 **Title:** 2604000008_CELRC_2021_A_0236_1_20210623T150618.jpg **Rated Item:** 7. Monolith Joints **Caption:** Minimally Acceptable - Deteriorating sealant. Remove old caulk and reseal.

Photos: Hammond

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Inspect ID: 2021-0264 **Title:** 2604000008_CELRC_2021_A_0264_1_20210623T151725.jpg **Rated Item:** 7. Monolith Joints **Caption:** Minimally Acceptable - Deteriorating sealant. Remove old caulk and reseal.



Inspect ID: 2021-0292 **Title:** 2604000008_CELRC_2021_A_0292_1_20210623T152436.jpg **Rated Item:** 7. Monolith Joints **Caption:** Minimally Acceptable - Missing sealant. Reseal.

Photos: Hammond

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Inspect ID: 2021-0324 **Title:** 2604000008_CELRC_2021_A_0324_1_20210623T154021.jpg **Rated Item:** 7. Monolith Joints **Caption:** Minimally Acceptable - Sealant under cap deteriorating. Reseal.



Inspect ID: 2021-0333 **Title:** 2604000008_CELRC_2021_A_0333_1_20210624T134457.jpg **Rated Item:** 7. Monolith Joints **Caption:** Minimally Acceptable - Tree growing in joint. Remove.

Photos: Hammond

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Inspect ID: 2021-0492 **Title:** 2604000008_CELRC_2021_A_0492_1_20210623T171057.jpg **Rated Item:** 7. Monolith Joints **Caption:** Minimally Acceptable - Deteriorating sealant. Remove old caulk and reseal.



Inspect ID: 2021-0516 **Title:** 2604000008_CELRC_2021_A_0516_1_20210623T172303.jpg **Rated Item:** 7. Monolith Joints **Caption:** Minimally Acceptable - Deteriorating sealant. Remove old caulk and reseal.

Photos: Hammond

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	<p>Inspect ID: 2021-0696 Title: 2604000008_CELRC_2021_A_0696_1_20210623T193947.jpg Rated Item: 7. Monolith Joints Caption: Minimally Acceptable - Deteriorating sealant. Remove old caulk and reseal.</p>
	<p>Inspect ID: 2021-0700 Title: 2604000008_CELRC_2021_A_0700_1_20210623T194043.jpg Rated Item: 7. Monolith Joints Caption: Acceptable - Gap in sheet pile cap. Monitor.</p>

Photos: Hammond

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Inspect ID: 2021-0002 **Title:** 2604000008_CELRC_2021_A_0002_1_20210623T131926.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - HA-38: Too much vegetation. Clear.



Inspect ID: 2021-0005 **Title:** 2604000008_CELRC_2021_A_0005_1_20210623T131830.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Acceptable - HA-4: Outlet is free of debris.

Photos: Hammond

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Inspect ID: 2021-0018 **Title:** 2604000008_CELRC_2021_A_0018_1_20210623T133715.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - HA-35: Tree growing near outlet structure. Remove.



Inspect ID: 2021-0021 **Title:** 2604000008_CELRC_2021_A_0021_1_20210623T135148.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - HA-6: The culvert is surrounded by vegetation, this needs too be removed.

Photos: Hammond

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	<p>Inspect ID: 2021-0044 Title: 2604000008_CELRC_2021_A_0044_1_20210623T132011.jpg Rated Item: 1. Vegetation and Obstructions Caption: Minimally Acceptable - HA-3: Tall vegetation around structure. Clear.</p>
	<p>Inspect ID: 2021-0046 Title: 2604000008_CELRC_2021_A_0046_1_20210623T141629.jpg Rated Item: 1. Vegetation and Obstructions Caption: Minimally Acceptable - HA-31: Inlet has heavy vegetation and tree logs that need to be cleared.</p>

Photos: Hammond

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Inspect ID: 2021-0048 **Title:** 2604000008_CELRC_2021_A_0048_1_20210623T132201.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - HA-4: Small tree next to structure. Cut.



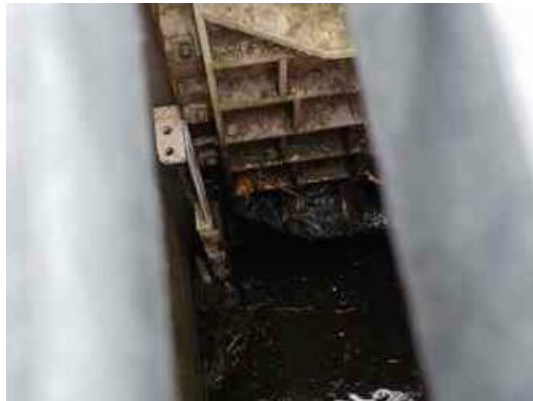
Inspect ID: 2021-0054 **Title:** 2604000008_CELRC_2021_A_0054_2_20210623T142738.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - HA-28: Trees growing at outlet structure. Clear. Duckbills are adequate.

Photos: Hammond

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Inspect ID: 2021-0057 **Title:** 2604000008_CELRC_2021_A_0057_1_20210623T142542.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - HA-10: The sluice gate is blocked by heavy vegetation that should be removed



Inspect ID: 2021-0058 **Title:** 2604000008_CELRC_2021_A_0058_2_20210623T143408.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - HA-28: Debris and some small vegetation. Gate operated without issue.

Photos: Hammond

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Inspect ID: 2021-0072 **Title:** 2604000008_CELRC_2021_A_0072_1_20210623T133328.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - HA-5: Inlet has tall vegetation. Clear.



Inspect ID: 2021-0076 **Title:** 2604000008_CELRC_2021_A_0076_1_20210623T133417.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - HA-5: Tall vegetation around outlet. Can't find headwall. Clear.

Photos: Hammond

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Inspect ID: 2021-0089 **Title:** 2604000008_CELRC_2021_A_0089_1_20210623T145405.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - HA-12: Vegetation beginning to grow on concrete structure for the flap gate. Clear.



Inspect ID: 2021-0090 **Title:** 2604000008_CELRC_2021_A_0090_1_20210623T155543.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - HA-23: Inlet needs to be cleared.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0093 **Title:** 2604000008_CELRC_2021_A_0093_1_20210623T145554.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - HA-13: Outlet is surrounded by vegetation. The vegetation needs to be removed.



Inspect ID: 2021-0102 **Title:** 2604000008_CELRC_2021_A_0102_3_20210623T160839.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - HA-21: Vegetation around the structure. Clear.

Photos: Hammond

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Inspect ID: 2021-0136 **Title:** 2604000008_CELRC_2021_A_0136_1_20210914T153402.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - HA-7: Tall vegetation and small trees at outlet. Clear.



Inspect ID: 2021-0152 **Title:** 2604000008_CELRC_2021_A_0152_1_20210623T140846.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - HA-9: Remove vegetation.

Photos: Hammond

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	<p>Inspect ID: 2021-0180 Title: 2604000008_CELRC_2021_A_0180_1_20210623T142654.jpg Rated Item: 1. Vegetation and Obstructions Caption: Minimally Acceptable - HA-11: Remove vegetation.</p>
	<p>Inspect ID: 2021-0385 Title: 2604000008_CELRC_2021_A_0385_1_20210624T140301.jpg Rated Item: 1. Vegetation and Obstructions Caption: Minimally Acceptable - INDOT gate next to the road not accessible due to vegetation.</p>

Photos: Hammond

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	<p>Inspect ID: 2021-0412 Title: 2604000008_CELRC_2021_A_0412_1_20210623T161815.jpg Rated Item: 1. Vegetation and Obstructions Caption: Minimally Acceptable - HA-19: Tall vegetation at outlet. Clear.</p>
	<p>Inspect ID: 2021-0424 Title: 2604000008_CELRC_2021_A_0424_1_20210623T162724.jpg Rated Item: 1. Vegetation and Obstructions Caption: Minimally Acceptable - HA-20: Tall vegetation around the outlet. Clear.</p>

Photos: Hammond

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Inspect ID: 2021-0428 **Title:** 2604000008_CELRC_2021_A_0428_1_20210623T163014.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - Tall vegetation in ditch. Clear.



Inspect ID: 2021-0464 **Title:** 2604000008_CELRC_2021_A_0464_1_20210623T165508.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - Tall vegetation in ditch. Clear.

Photos: Hammond

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	Inspect ID: 2021-0468 Title: 2604000008_CELRC_2021_A_0468_1_20210623T165656.jpg Rated Item: 1. Vegetation and Obstructions Caption: Minimally Acceptable - HA-22: Vegetation around outlet. Clear.
	Inspect ID: 2021-0476 Title: 2604000008_CELRC_2021_A_0476_1_20210623T165914.jpg Rated Item: 1. Vegetation and Obstructions Caption: Minimally Acceptable - HA-22: Vegetation around inlet. Clear.

Photos: Hammond

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Inspect ID: 2021-0480 **Title:** 2604000008_CELRC_2021_A_0480_1_20210623T170216.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - Trees in ditch.



Inspect ID: 2021-0548 **Title:** 2604000008_CELRC_2021_A_0548_1_20210623T174647.jpg **Rated Item:** 1. Vegetation and Obstructions **Caption:** Minimally Acceptable - HA-25: Tall vegetation around the outlet. Clear.

Photos: Hammond

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	<p>Inspect ID: 2021-0552 Title: 2604000008_CELRC_2021_A_0552_1_20210623T174821.jpg Rated Item: 1. Vegetation and Obstructions Caption: Minimally Acceptable - HA-25: Vegetation around inlet. Clear.</p>
	<p>Inspect ID: 2021-0117 Title: 2604000008_CELRC_2021_A_0117_1_20210623T150918.jpg Rated Item: 2. Encroachments Caption: Minimally Acceptable - HA-14: Trash in riprap area. Clean.</p>

Photos: Hammond

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Inspect ID: 2021-0181 **Title:** 2604000008_CELRC_2021_A_0181_1_20210624T130623.jpg **Rated Item:** 2. Encroachments **Caption:** Minimally Acceptable - HA-33: Tree logs on riprap. Clean.



Inspect ID: 2021-0009 **Title:** 2604000008_CELRC_2021_A_0009_1_20210623T132408.jpg **Rated Item:** 4. Fencing and Gates **Caption:** Acceptable - HA-4: The fence is in good condition.

Photos: Hammond

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Inspect ID: 2021-0029 **Title:** 2604000008_CELRC_2021_A_0029_1_20210623T135706.jpg **Rated Item:** 4. Fencing and Gates **Caption:** Acceptable - HA-6: The fence is in good condition. Remove the small twigs that are on the fence.



Inspect ID: 2021-0030 **Title:** 2604000008_CELRC_2021_A_0030_1_20210623T140512.jpg **Rated Item:** 4. Fencing and Gates **Caption:** Minimally Acceptable - HA-31: Missing stud and nut for fence.

Photos: Hammond

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Inspect ID: 2021-0049 **Title:** 2604000008_CELRC_2021_A_0049_1_20210623T141548.jpg **Rated Item:** 4. Fencing and Gates **Caption:** Acceptable - HA-7: The sluice gate fencing is in good condition.



Inspect ID: 2021-0069 **Title:** 2604000008_CELRC_2021_A_0069_1_20210623T142929.jpg **Rated Item:** 4. Fencing and Gates **Caption:** Acceptable - HA-10: The sluice gate fencing is in good condition.

Photos: Hammond

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Inspect ID: 2021-0097 **Title:** 2604000008_CELRC_2021_A_0097_1_20210623T145801.jpg **Rated Item:** 4. Fencing and Gates **Caption:** Acceptable - Ha12 the fencing is in good condition



Inspect ID: 2021-0109 **Title:** 2604000008_CELRC_2021_A_0109_1_20210623T150538.jpg **Rated Item:** 4. Fencing and Gates **Caption:** Acceptable - HA-13: The fence is in good condition.

Photos: Hammond

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Inspect ID: 2021-0122 **Title:** 2604000008_CELRC_2021_A_0122_1_20210623T180510.jpg **Rated Item:** 4. Fencing and Gates **Caption:** Minimally Acceptable - HA-20: Broken rail. Repair.



Inspect ID: 2021-0141 **Title:** 2604000008_CELRC_2021_A_0141_1_20210623T161215.jpg **Rated Item:** 4. Fencing and Gates **Caption:** Acceptable - Ha16 The fence is in good condition.

Photos: Hammond

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Inspect ID: 2021-0106 **Title:** 2604000008_CELRC_2021_A_0106_1_20210623T161100.jpg **Rated Item:** 5. Concrete Surfaces (Such as gate wells, outfalls, intakes, or culverts) **Caption:** Minimally Acceptable - HA-23: Broken concrete. Patch.



Inspect ID: 2021-0140 **Title:** 2604000008_CELRC_2021_A_0140_1_20210623T135842.jpg **Rated Item:** 7. Foundation of Concrete Structures (Such as culverts, inlet and discharge structures, or gatewells.) **Caption:** Minimally Acceptable - HA-7: 2 large burrows around manhole, deeper than 6 ft. Fill.

Photos: Hammond

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Inspect ID: 2021-0624 **Title:** 2604000008_CELRC_2021_A_0624_1_20210623T190925.jpg **Rated Item:** 8. Monolith Joints **Caption:** Minimally Acceptable - HA-29: Cracking at joint. Not water tight. Remove old caulking and reseal.



Inspect ID: 2021-0129 **Title:** 2604000008_CELRC_2021_A_0129_1_20210623T155430.jpg **Rated Item:** 9. Culverts/ Discharge Pipes **Caption:** Acceptable - Ha16 The discharge culvert is in good condition.

Photos: Hammond

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Inspect ID: 2021-0013 **Title:** 2604000008_CELRC_2021_A_0013_1_20210623T132718.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Acceptable - HA-4: The sluice gate was opened we arrived and we left it open when we left. The gate was able to close completely.



Inspect ID: 2021-0017 **Title:** 2604000008_CELRC_2021_A_0017_1_20210623T132931.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Acceptable - HA-4: The sluice gate was in good condition. The operator used the day to service the gates and greased them the day of the inspection.

Photos: Hammond

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Inspect ID: 2021-0022 **Title:** 2604000008_CELRC_2021_A_0022_1_20210623T134832.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Minimally Acceptable - HA-35: Lifting mechanism structure cracking, shakes when the gate is near the top. Investigate and repair.



Inspect ID: 2021-0026 **Title:** 2604000008_CELRC_2021_A_0026_1_20210623T134925.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Acceptable - HA-35: Closed and opened without issue, lubricated in the process.

Photos: Hammond

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Inspect ID: 2021-0033 **Title:** 2604000008_CELRC_2021_A_0033_1_20210623T140042.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Acceptable - HA-6: The sluice gate is in good condition and closed and opened completely. It was opened when we arrived we left it open when we left.



Inspect ID: 2021-0037 **Title:** 2604000008_CELRC_2021_A_0037_1_20210623T140327.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Acceptable - HA-6: The sluice gate pinion is in good good condition, the operator oiled it the day of.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0038 **Title:** 2604000008_CELRC_2021_A_0038_1_20210623T140925.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Minimally Acceptable - HA-31: Gate gauge malfunctioning, gets stuck in the process. Repair.



Inspect ID: 2021-0042 **Title:** 2604000008_CELRC_2021_A_0042_1_20210623T141000.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Acceptable - HA-31: Closed and opened without issue.

Photos: Hammond

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Inspect ID: 2021-0045 **Title:** 2604000008_CELRC_2021_A_0045_1_20210623T141350.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Acceptable - HA-8: The sluice gate is in good condition, it opened and closed completely. When we arrived it was opened and we left it open when we left.



Inspect ID: 2021-0050 **Title:** 2604000008_CELRC_2021_A_0050_1_20210623T142048.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Acceptable - HA-30: Opened and closed without issue. Inlet and outlet are below water level.

Photos: Hammond

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Inspect ID: 2021-0053 **Title:**

2604000008_CELRC_2021_A_0053_1_20210623T141633.jpg **Rated**

Item: 10. Sluice/ Slide Gates **Caption:** Minimally Acceptable - HA-8: The sluice gate pinion in good condition and well greased. The operator greased it the day of. There is some very mild corrosion on the spigot, recommend painting.



Inspect ID: 2021-0061 **Title:**

2604000008_CELRC_2021_A_0061_1_20210623T142651.jpg **Rated**

Item: 10. Sluice/ Slide Gates **Caption:** Acceptable - HA-10: The sluice gate opens and closed completely without any issues. The gate was opened when we arrived and we left it open when we left.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0065 **Title:** 2604000008_CELRC_2021_A_0065_1_20210623T142827.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Minimally Acceptable - HA-10: The sluice gate is well greased and in good condition. The operator greased them the day of.



Inspect ID: 2021-0066 **Title:** 2604000008_CELRC_2021_A_0066_1_20210623T145134.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Acceptable - HA-26a: Operates without issue.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0070 **Title:**

2604000008_CELRC_2021_A_0070_1_20210623T150018.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Minimally Acceptable - HA-26B: Operates without issue. The left gear is seized and cannot open the gate. Repair.



Inspect ID: 2021-0074 **Title:**

2604000008_CELRC_2021_A_0074_3_20210623T151533.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Acceptable - HA-27a: Operated without issue. A lot of debris on top of the gate, recommend cleaning. The left gear was not able to open the gate, repair.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0077 **Title:** 2604000008_CELRC_2021_A_0077_1_20210623T144258.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Acceptable - HA-12: The sluice gates pinion is in good condition. He crew greased the gates while we were on site.



Inspect ID: 2021-0078 **Title:** 2604000008_CELRC_2021_A_0078_1_20210623T152116.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Acceptable - HA-27b: Operates without issue.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0081 **Title:**

2604000008_CELRC_2021_A_0081_1_20210623T144644.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Minimally Acceptable - HA-12: The sluice gate is in good condition but didn't close all of the way. It was opened when we arrived and we left it open when we left. Remove obstructions.





Inspect ID: 2021-0082 **Title:**

2604000008_CELRC_2021_A_0082_2_20210623T153713.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Acceptable - HA-24: Operates without issue.

Photos: Hammond

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	<p>Inspect ID: 2021-0098 Title: 2604000008_CELRC_2021_A_0098_2_20210623T160330.jpg Rated Item: 10. Sluice/ Slide Gates Caption: Minimally Acceptable - HA-23: Gate operates fine, too much silt and some branches inside though. Clean.</p>
	<p>Inspect ID: 2021-0105 Title: _1_20210623T150005.jpg Rated Item: 10. Sluice/ Slide Gates Caption: Acceptable - HA-13: The sluice gate is in good condition. It opened and closed completely. It was opened when we arrived we left it open when we left.</p>

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0110 **Title:** 2604000008_CELRC_2021_A_0110_3_20210623T161549.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Acceptable - HA-23a: Operates only using right gear.



Inspect ID: 2021-0114 **Title:** 2604000008_CELRC_2021_A_0114_2_20210623T170312.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Minimally Acceptable - HA-21c: Operates on the right gear only. Corrosion at the base. Repaint.

Photos: Hammond

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	<p>Inspect ID: 2021-0118 Title: 2604000008_CELRC_2021_A_0118_1_20210623T172046.jpg Rated Item: 10. Sluice/ Slide Gates Caption: Minimally Acceptable - HA-21b: Operates only using the right gear, unable to open the gate after closing. There are 2 other gates on either side that can provide capacity as needed. This happened at the last inspection too. Repair. Corrosion at the base, repaint.</p>
	<p>Inspect ID: 2021-0118 Title: 2604000008_CELRC_2021_A_0118_3_20210623T173510.jpg Rated Item: 10. Sluice/ Slide Gates Caption: Minimally Acceptable - HA-21b: Operates only using the right gear, unable to open the gate after closing. There are 2 other gates on either side that can provide capacity as needed. This happened at the last inspection too. Repair. Corrosion at the base, repaint.</p>

Photos: Hammond

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Inspect ID: 2021-0121 **Title:**

2604000008_CELRC_2021_A_0121_1_20210623T151421.jpg **Rated**

Item: 10. Sluice/ Slide Gates **Caption:** Minimally Acceptable - HA-14:

The sluice gate pinion operated good. The crew greased the equipment the day were out there. Slight rusting at base, recommend painting



Inspect ID: 2021-0125 **Title:**

2604000008_CELRC_2021_A_0125_1_20210623T153949.jpg **Rated**

Item: 10. Sluice/ Slide Gates **Caption:** Acceptable - HA-14: The sluice

gate is in good condition, it was able to close and open completely. It was open when we arrived we left it open when we left

Photos: Hammond

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Inspect ID: 2021-0126 **Title:** 2604000008_CELRC_2021_A_0126_2_20210623T180926.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Acceptable - HA-20: Operates without issue.



Inspect ID: 2021-0133 **Title:** 2604000008_CELRC_2021_A_0133_1_20210623T155955.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Minimally Acceptable - HA-16: The pinion goes up and down with little to no resistance. Slight rusting on outer metallic casing. Recommended painting.

Photos: Hammond

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Inspect ID: 2021-0137 **Title:** 2604000008_CELRC_2021_A_0137_1_20210623T160107.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Minimally Acceptable - HA-15: Gate is hard to see. Replace.



Inspect ID: 2021-0145 **Title:** 2604000008_CELRC_2021_A_2021-0145_1_20210623T162942.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Minimally Acceptable - HA-16: The sluice gate opens and close fully but there is a lot of resistance. Recommend greasing. There is a lot of sediment in the gate pit. Recommend cleaning. Mild corrosion on the railing. The gate was closed when we arrived we left it closed when we left.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0157 **Title:** 2604000008_CELRC_2021_A_0157_1_20210623T164227.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Minimally Acceptable - HA-17: Sluice gate has minor corrosion but closed and opened completely. There is a lot of trash in the sluice gate pit. Clean and repaint.



Inspect ID: 2021-0161 **Title:** 2604000008_CELRC_2021_A_0161_1_20210623T164500.jpg **Rated Item:** 10. Sluice/ Slide Gates **Caption:** Minimally Acceptable - HA-17: Sluice gate pinion case is broken and rusting. Recommend replacing case and painted rusted parts. The operator greased the pinon that day.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0006 **Title:** 2604000008_CELRC_2021_A_0006_1_20210623T132036.jpg **Rated Item:** 11. Flap Gates/ Flap Valves/ Pinch Valves **Caption:** Minimally Acceptable - HA-38. Duckbill is in good condition.



Inspect ID: 2021-0006 **Title:** 2604000008_CELRC_2021_A_0006_2_20210623T132121.jpg **Rated Item:** 11. Flap Gates/ Flap Valves/ Pinch Valves **Caption:** Minimally Acceptable - HA 38. Tree logs and debris at outlet, duckbill is in good condition. Too much vegetation around the concrete structure

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0014 **Title:** 2604000008_CELRC_2021_A_0014_1_20210623T133621.jpg **Rated Item:** 11. Flap Gates/ Flap Valves/ Pinch Valves **Caption:** Minimally Acceptable - HA-35: Flap gate cracked open. Clear debris.



Inspect ID: 2021-0034 **Title:** 2604000008_CELRC_2021_A_0034_2_20210623T140618.jpg **Rated Item:** 11. Flap Gates/ Flap Valves/ Pinch Valves **Caption:** Minimally Acceptable - HA-31: Vegetation and debris too close outlet. Flap gate slightly open. Clear.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0041 **Title:** 2604000008_CELRC_2021_A_0041_1_20210623T141141.jpg **Rated Item:** 11. Flap Gates/ Flap Valves/ Pinch Valves **Caption:** Acceptable - HA-8: The gate closed completely and no obstructions.



Inspect ID: 2021-0062 **Title:** 2604000008_CELRC_2021_A_0062_1_20210623T144351.jpg **Rated Item:** 11. Flap Gates/ Flap Valves/ Pinch Valves **Caption:** Acceptable - HA-27: Flap gates are closed

Photos: Hammond

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Inspect ID: 2021-0086 **Title:** 2604000008_CELRC_2021_A_0086_1_20210623T153934.jpg **Rated Item:** 11. Flap Gates/ Flap Valves/ Pinch Valves **Caption:** Minimally Acceptable - HA-24: Flap gate has too much vegetation around it. Clear.



Inspect ID: 2021-0094 **Title:** 2604000008_CELRC_2021_A_0094_1_20210623T155711.jpg **Rated Item:** 11. Flap Gates/ Flap Valves/ Pinch Valves **Caption:** Minimally Acceptable - HA-23: Flap gate leaking, tree logs in the way, too much vegetation. Clear obstructions and vegetation.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0113 **Title:** 2604000008_CELRC_2021_A_0113_1_20210623T150831.jpg **Rated Item:** 11. Flap Gates/ Flap Valves/ Pinch Valves **Caption:** Acceptable - HA-14: Good condition.



Inspect ID: 2021-0149 **Title:** 2604000008_CELRC_2021_A_0149_1_20210623T163952.jpg **Rated Item:** 11. Flap Gates/ Flap Valves/ Pinch Valves **Caption:** Minimally Acceptable - HA-18a-b: Flap gates are corroded. Recommend painting.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0153 **Title:** 2604000008_CELRC_2021_A_0153_1_20210623T164124.jpg **Rated Item:** 11. Flap Gates/ Flap Valves/ Pinch Valves **Caption:** Minimally Acceptable - HA-18c-d: Flap gates are corroded. Recommend painting.



Inspect ID: 2021-0165 **Title:** 2604000008_CELRC_2021_A_0165_1_20210623T164650.jpg **Rated Item:** 11. Flap Gates/ Flap Valves/ Pinch Valves **Caption:** Minimally Acceptable - HA-17: Flap gate is closed but there is sediment and rocks blocking and preventing from opening. Clear obstructions.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0169 **Title:** 2604000008_CELRC_2021_A_0169_1_20210623T164837.jpg **Rated Item:** 11. Flap Gates/ Flap Valves/ Pinch Valves **Caption:** Minimally Acceptable - HA-18: Flap gate is closed completely, mild rusting on the top. Repaint.



Inspect ID: 2021-0184 **Title:** 2604000008_CELRC_2021_A_0184_1_20210623T142801.jpg **Rated Item:** 11. Flap Gates/ Flap Valves/ Pinch Valves **Caption:** Minimally Acceptable - HA-11: Pinch valve covered in sediment. Clear.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0185 **Title:** 2604000008_CELRC_2021_A_0185_1_20210624T130702.jpg **Rated Item:** 11. Flap Gates/ Flap Valves/ Pinch Valves **Caption:** Minimally Acceptable - HA-33: Flap gate open. Clear.



Inspect ID: 2021-0233 **Title:** 2604000008_CELRC_2021_A_0233_1_20210624T132001.jpg **Rated Item:** 11. Flap Gates/ Flap Valves/ Pinch Valves **Caption:** Minimally Acceptable - HA-34: Logs and debris obstructing the outlet. Clear.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0368 **Title:**
2604000008_CELRC_2021_A_0368_1_20210623T155849.jpg **Rated**
Item: 11. Flap Gates/ Flap Valves/ Pinch Valves **Caption:** Minimally
Acceptable - HA-17: Covered in sediment. Clear.



Inspect ID: 2021-0372 **Title:**
2604000008_CELRC_2021_A_0372_1_20210623T155942.jpg **Rated**
Item: 11. Flap Gates/ Flap Valves/ Pinch Valves **Caption:** Acceptable -
HA-18: Closed.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0381 **Title:** 2604000008_CELRC_2021_A_0381_1_20210624T135959.jpg **Rated Item:** 11. Flap Gates/ Flap Valves/ Pinch Valves **Caption:** Minimally Acceptable - HA-36: Flap gate not shut all the way, rocks, tree logs and vegetation obstructing the outlet. Clear.



Inspect ID: 2021-0416 **Title:** 2604000008_CELRC_2021_A_0416_1_20210623T162040.jpg **Rated Item:** 11. Flap Gates/ Flap Valves/ Pinch Valves **Caption:** Acceptable - HA-19. Closed.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0472 **Title:** 2604000008_CELRC_2021_A_0472_1_20210623T165749.jpg **Rated Item:** 11. Flap Gates/ Flap Valves/ Pinch Valves **Caption:** Acceptable - HA-22: Closed.



Inspect ID: 2021-0156 **Title:** 2604000008_CELRC_2021_A_0156_1_20210623T141133.jpg **Rated Item:** 12. Trash Racks (non-mechanical) **Caption:** Minimally Acceptable - HA-9: Trash rack is deformed. Repair.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0010 **Title:** 2604000008_CELRC_2021_A_0010_1_20210623T133452.jpg **Rated Item:** 13. Other Metallic Items **Caption:** Unacceptable - Broken ladder at sluice gate HA-35. Sponsor looking into replacement.



Inspect ID: 2021-0012 **Title:** 2604000008_CELRC_2021_A_0012_1_20210623T130749.jpg **Rated Item:** 13. Other Metallic Items **Caption:** Minimally Acceptable - HA-1: Secure manhole cover.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0073 **Title:**

2604000008_CELRC_2021_A_0073_1_20210623T144008.jpg **Rated**

Item: 13. Other Metallic Items **Caption:** Minimally Acceptable - HA-12: One of the metal coverings is missing. It appears as if it may have fell through. Replace.



Inspect ID: 2021-0085 **Title:**

2604000008_CELRC_2021_A_0085_1_20210623T145246.jpg **Rated**

Item: 13. Other Metallic Items **Caption:** Unacceptable - HA-12: Screen is broken and needs to be replaced.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0176 **Title:** 2604000008_CELRC_2021_A_0176_1_20210623T142600.jpg **Rated Item:** 13. Other Metallic Items **Caption:** Minimally Acceptable - HA-11: Manhole cover offset. Move.



Inspect ID: 2021-0540 **Title:** 2604000008_CELRC_2021_A_0540_1_20210623T174310.jpg **Rated Item:** 13. Other Metallic Items **Caption:** Minimally Acceptable - HA-25: Manhole is offset. Move.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0544 **Title:** 2604000008_CELRC_2021_A_0544_1_20210623T174526.jpg **Rated Item:** 13. Other Metallic Items **Caption:** Minimally Acceptable - HA-25: Manhole cover is chipping. Replace.



Inspect ID: 2021-0628 **Title:** 2604000008_CELRC_2021_A_0628_1_20210623T191011.jpg **Rated Item:** 13. Other Metallic Items **Caption:** Minimally Acceptable - HA-29: Manhole lid open and cracking on attached concrete. Repair.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0064 **Title:** 2604000008_CELRC_2021_A_0064_1_20210623T132727.jpg **Rated Item:** 14. Riprap Revetments of Inlet/ Discharge Areas **Caption:** Minimally Acceptable - Riprap missing and some covered with silt. Add riprap.



Inspect ID: 2021-0019 **Title:** 2604000008_CELRC_2021_A_0019_1_20210621T154039.jpg **Rated Item:** 2. Pump Station Operations and Maintenance Equipment Manuals **Caption:** Acceptable - PS-JA: Operations manuals on site.

Photos: Hammond

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Inspect ID: 2021-0047 **Title:** 2604000008_CELRC_2021_A_0047_1_20210621T160438.jpg **Rated Item:** 2. Pump Station Operations and Maintenance Equipment Manuals **Caption:** Acceptable - PS-TA: Operations manuals on site.



Inspect ID: 2021-0079 **Title:** 2604000008_CELRC_2021_A_0079_2_20210621T163213.jpg **Rated Item:** 2. Pump Station Operations and Maintenance Equipment Manuals **Caption:** Acceptable - PS-SS: Operations manuals on site.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0111 **Title:** 2604000008_CELRC_2021_A_0111_1_20210621T165652.jpg **Rated Item:** 2. Pump Station Operations and Maintenance Equipment Manuals **Caption:** Acceptable - PS-WA: Operations manuals on site.



Inspect ID: 2021-0123 **Title:** 2604000008_CELRC_2021_A_2021-0123_1_20210623T135242.jpg **Rated Item:** 2. Pump Station Operations and Maintenance Equipment Manuals **Caption:** Acceptable - PS-CA: Operations manuals on site.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0143 **Title:** 2604000008_CELRC_2021_A_0143_1_20210623T142646.jpg **Rated Item:** 2. Pump Station Operations and Maintenance Equipment Manuals **Caption:** Acceptable - PS-IN: Operations manual on site.



Inspect ID: 2021-0163 **Title:** 2604000008_CELRC_2021_A_0163_1_20210623T144921.jpg **Rated Item:** 2. Pump Station Operations and Maintenance Equipment Manuals **Caption:** Acceptable - PS-KA: Operations manuals on site.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0179 **Title:** 2604000008_CELRC_2021_A_0179_1_20210623T150523.jpg **Rated Item:** 2. Pump Station Operations and Maintenance Equipment Manuals
Caption: Acceptable - PS-HV: Operations manual on site.



Inspect ID: 2021-0227 **Title:** 2604000008_CELRC_2021_A_0227_1_20210623T154316.jpg **Rated Item:** 2. Pump Station Operations and Maintenance Equipment Manuals
Caption: Acceptable - PS-SK: Operations manual on site.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0015 **Title:** 2604000008_CELRC_2021_A_0015_1_20210621T153906.jpg **Rated Item:** 3. Safety Compliance **Caption:** Minimally Acceptable - PS-JA: Fire safety exit light not functioning. Repair.



Inspect ID: 2021-0027 **Title:** 2604000008_CELRC_2021_A_0027_1_20210621T154620.jpg **Rated Item:** 3. Safety Compliance **Caption:** Minimally Acceptable - PS-JA: Confined space warning needed near E5 exhaust fan.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0055 **Title:** 2604000008_CELRC_2021_A_0055_1_20210621T161913.jpg **Rated Item:** 3. Safety Compliance **Caption:** Minimally Acceptable - PS-SS: Grate clamps missing near trash rakes. Replace or install as this is a trip and fall hazard.



Inspect ID: 2021-0151 **Title:** 2604000008_CELRC_2021_A_0151_1_20210623T143053.jpg **Rated Item:** 3. Safety Compliance **Caption:** Minimally Acceptable - PS-IN: Confined space label needed.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0183 **Title:** 2604000008_CELRC_2021_A_0183_1_20210623T150618.jpg **Rated Item:** 3. Safety Compliance **Caption:** Minimally Acceptable - S-HV: Confined space label needed.



Inspect ID: 2021-0187 **Title:** 2604000008_CELRC_2021_A_0187_1_20210623T150724.jpg **Rated Item:** 3. Safety Compliance **Caption:** Minimally Acceptable - PS-HV: Clips to secure grate from slip and fall hazard recommended.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0195 **Title:** 2604000008_CELRC_2021_A_0195_1_20210623T151030.jpg **Rated Item:** 3. Safety Compliance **Caption:** Minimally Acceptable - PS-HV: Confined space label needed.



Inspect ID: 2021-0215 **Title:** 2604000008_CELRC_2021_A_0215_1_20210623T153725.jpg **Rated Item:** 3. Safety Compliance **Caption:** Minimally Acceptable - PS-SK: Confined space label needed.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0003 **Title:** 2604000008_CELRC_2021_A_0003_1_20210621T153050.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-JA: Spalling on concrete steps. Patch.



Inspect ID: 2021-0031 **Title:** 2604000008_CELRC_2021_A_0031_1_20210621T155652.jpg **Rated Item:** 5. Plant Building **Caption:** Acceptable - PS-TA: Stairs to pump station replaced, in great condition.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0035 **Title:** 2604000008_CELRC_2021_A_0035_1_20210621T155825.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-TA: Minor spalling on underside of foundation at ground level. Patch.



Inspect ID: 2021-0039 **Title:** 2604000008_CELRC_2021_A_0039_1_20210621T160001.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-TA: Rotting on eaves. Repair or replace.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0043 **Title:** 2604000008_CELRC_2021_A_0043_1_20210621T160259.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-TA: Lost concrete on corner of building. No damage ongoing. Repair.



Inspect ID: 2021-0051 **Title:** 2604000008_CELRC_2021_A_0051_1_20210621T161615.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-SS: Minor spalling on concrete floor. Patch.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0059 **Title:** 2604000008_CELRC_2021_A_0059_1_20210621T162144.jpg **Rated Item:** 5. Plant Building **Caption:** Acceptable - PS-SS: Crack near door frame to roof. Monitor as needed



Inspect ID: 2021-0075 **Title:** 2604000008_CELRC_2021_A_0075_1_20210621T162949.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-SS: Crack in floor near sanitary district side of building. Crack extends up to door frame. Inspect for structural causes.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

	Inspect ID: 2021-0099 Title: 2604000008_CELRC_2021_A_0099_1_20210621T165313.jpg Rated Item: 5. Plant Building Caption: Acceptable - PS-WA: Crack near door and along wall near back door. Monitor.
	Inspect ID: 2021-0099 Title: 2604000008_CELRC_2021_A_0099_2_20210621T165325.jpg Rated Item: 5. Plant Building Caption: Acceptable - PS-WA: Crack near door and along wall near back door. Monitor.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0103 **Title:** 2604000008_CELRC_2021_A_0103_1_20210621T165439.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-WA: Mold growth not likely to be coming from roof. Investigate leak.



Inspect ID: 2021-0107 **Title:** 2604000008_CELRC_2021_A_0107_1_20210621T165606.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-WA: Investigate water leak in main pump room

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0131 **Title:** 2604000008_CELRC_2021_A_0131_1_20210623T141207.jpg **Rated Item:** 5. Plant Building **Caption:** Acceptable - PS-IN: Minor cracking near foundation. Monitor and repair as needed.



Inspect ID: 2021-0147 **Title:** 2604000008_CELRC_2021_A_0147_1_20210623T142857.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-IN: Minor corrosion in ceiling. Clean.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0155 **Title:** 2604000008_CELRC_2021_A_0155_1_20210623T144648.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-KA: Minor spalling on ceiling. Repair.



Inspect ID: 2021-0167 **Title:** 2604000008_CELRC_2021_A_0167_1_20210623T145621.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-HV: Minor concrete spalling along exterior. Repair.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0171 **Title:** 2604000008_CELRC_2021_A_0171_1_20210623T150001.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-HV: Ponding water could crack concrete during winter months. Drain.



Inspect ID: 2021-0175 **Title:** 2604000008_CELRC_2021_A_0175_1_20210623T150222.jpg **Rated Item:** 5. Plant Building **Caption:** Minimally Acceptable - PS-HV: Multiple (at least 4 visible) large animal burrows in power station area. Backfill with compacted clay

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems

	Inspect ID: 2021-0207 Title: 2604000008_CELRC_2021_A_0207_1_20210623T153231.jpg Rated Item: 5. Plant Building Caption: Minimally Acceptable - PS-SK: Minor corrosion on ceiling. Clean.
	Inspect ID: 2021-0211 Title: 2604000008_CELRC_2021_A_0211_1_20210623T153601.jpg Rated Item: 5. Plant Building Caption: Acceptable - PS-SK: Small cracks in concrete block exterior. Monitor and repair as needed.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0091 **Title:** 2604000008_CELRC_2021_A_0091_1_20210621T164909.jpg **Rated Item:** 6. Fencing and Gates **Caption:** Minimally Acceptable - PS-WA: Fence is collapsing due to rusted pipes. Replace.



Inspect ID: 2021-0135 **Title:** 2604000008_CELRC_2021_A_0135_1_20210623T141443.jpg **Rated Item:** 6. Fencing and Gates **Caption:** Minimally Acceptable - PS-IN: Gate fence found without lock, leaving pump station perimeter accessible. Place lock on gate to secure.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0159 **Title:** 2604000008_CELRC_2021_A_0159_1_20210623T144751.jpg **Rated Item:** 7. Pumps **Caption:** Minimally Acceptable - PS-KA: Corrosion on pump base and pump 2. Recommend repainting.



Inspect ID: 2021-0199 **Title:** 2604000008_CELRC_2021_A_0199_1_20210623T151147.jpg **Rated Item:** 7. Pumps **Caption:** Minimally Acceptable - PS-HV: DWP excessive corrosion on pump. Recommend repainting

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0203 **Title:** 2604000008_CELRC_2021_A_0203_1_20210623T151429.jpg **Rated Item:** 7. Pumps **Caption:** Minimally Acceptable - PS-HV: Leakage in shaft impeller system of DWP. Repair.



Inspect ID: 2021-0023 **Title:** 2604000008_CELRC_2021_A_0023_1_20210621T154305.jpg **Rated Item:** 8. Motors, Engines, Fans, Gear Reducers, Back Stop Devices, etc. **Caption:** Minimally Acceptable - PS-JA: Exhaust fans EF1 and EF2 not operating correctly. Motor runs but blades do not turn. Repair.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0063 **Title:** 2604000008_CELRC_2021_A_0063_1_20210621T162309.jpg **Rated Item:** 8. Motors, Engines, Fans, Gear Reducers, Back Stop Devices, etc. **Caption:** Minimally Acceptable - PS-SS: EF1 exhaust fan operates but damper does not open. Repair.



Inspect ID: 2021-0067 **Title:** 2604000008_CELRC_2021_A_0067_1_20210621T162418.jpg **Rated Item:** 8. Motors, Engines, Fans, Gear Reducers, Back Stop Devices, etc. **Caption:** Minimally Acceptable - PS-SS: EF1 exhaust fan does not operate at all. Repair.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0095 **Title:** 2604000008_CELRC_2021_A_0095_1_20210621T165030.jpg **Rated Item:** 8. Motors, Engines, Fans, Gear Reducers, Back Stop Devices, etc. **Caption:** Minimally Acceptable - PS-WA: EF1 exhaust fan damper stuck open. Repair.



Inspect ID: 2021-0127 **Title:** 2604000008_CELRC_2021_A_0127_1_20210623T135614.jpg **Rated Item:** 8. Motors, Engines, Fans, Gear Reducers, Back Stop Devices, etc. **Caption:** Minimally Acceptable - PS-CA: Sump exhaust fan inoperable. Investigate and repair.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0219 **Title:** 2604000008_CELRC_2021_A_0219_1_20210623T153904.jpg **Rated Item:** 8. Motors, Engines, Fans, Gear Reducers, Back Stop Devices, etc. **Caption:** Minimally Acceptable - PS-SK: Exhaust fan EF2 is inoperable.



Inspect ID: 2021-0223 **Title:** 2604000008_CELRC_2021_A_0223_2_20210623T154054.jpg **Rated Item:** 8. Motors, Engines, Fans, Gear Reducers, Back Stop Devices, etc. **Caption:** Minimally Acceptable - PS-SK: EF1 working but housing is detached and could fall. Repair.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0007 **Title:** 2604000008_CELRC_2021_A_0007_1_20210621T153500.jpg **Rated Item:** 10. Mechanical Operating Trash Rakes **Caption:** Minimally Acceptable - PS-JA: Trash rake is not operational. HSD aware and currently coordinating repairs.



Inspect ID: 2021-0011 **Title:** 2604000008_CELRC_2021_A_0011_1_20210621T153741.jpg **Rated Item:** 14. Electrical Systems **Caption:** Minimally Acceptable - PS-JA: Arc flash warnings need updating.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0071 **Title:** 2604000008_CELRC_2021_A_0071_1_20210621T162715.jpg **Rated Item:** 14. Electrical Systems **Caption:** Minimally Acceptable - PS-SS: Arc-flash labels required on all 4 electrical panels.



Inspect ID: 2021-0115 **Title:** 2604000008_CELRC_2021_A_0115_1_20210621T165748.jpg **Rated Item:** 14. Electrical Systems **Caption:** Minimally Acceptable - PS-WA: Update arc flash labels on all applicable equipment.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0119 **Title:** 2604000008_CELRC_2021_A_0119_1_20210621T165852.jpg **Rated Item:** 14. Electrical Systems **Caption:** Minimally Acceptable - PS-WA: Indicator light needs to be replaced.



Inspect ID: 2021-0139 **Title:** 2604000008_CELRC_2021_A_0139_1_20210623T142512.jpg **Rated Item:** 14. Electrical Systems **Caption:** Minimally Acceptable - PS-IN: Arc flash labels need updating.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0191 **Title:** 2604000008_CELRC_2021_A_0191_1_20210623T150851.jpg **Rated Item:** 14. Electrical Systems **Caption:** Minimally Acceptable - PS-HC: Arc flash labels need updating.



Inspect ID: 2021-0083 **Title:** 2604000008_CELRC_2021_A_0083_1_20210621T163557.jpg **Rated Item:** 18. Sluice/ Slide Gates **Caption:** Minimally Acceptable - PS-SS: Influence sluice gate not operational. Not critical. Repair.

Photos: Hammond

For use during Initial and Continuing Eligibility Inspections of levee segments / systems



Inspect ID: 2021-0087 **Title:** 2604000008_CELRC_2021_A_0087_1_20210621T163732.jpg **Rated Item:** 21. Other Metallic Items (Equipment, Ladders, Platform Anchors, etc) **Caption:** Minimally Acceptable - PS-SS: Grating anchors loose or missing. Recommend replacement.



**US Army Corps
of Engineers ®**

Flood Damage Reduction System 2605000009 / Segment 2604000008 Public Sponsor Pre-Inspection Form

The following information is to be provided by the levee district sponsor prior to an inspection. This information will be used to help evaluate the organizational capability of the levee district to manage the levee segment / system maintenance program.

1. Levee segment / system and sponsor: (name of the segment / system and levee sponsor) System 2605000009 / Segment 2604000008 CELRC		
2. Reporting period: (month/day/year to month/day/year) 05/29/2020 to 06/23/2021		
3. Summary of maintenance required by last inspection report: Pump station deficiencies, animal activity, settlement, vegetation repair		
4. Summary of maintenance performed this reporting period: Exercised and greased gates, oiled locks, monitored pumps, monitored levee		
5. Summary of maintenance planned next reporting period: Exercise and grease gates, oil locks, monitor pumps, monitor levee.		
6. Summary of changes to segment / system since last inspection: N/A		
7. Problems/ issues requiring the assistance of the US Army Corps of Engineers: N/A		

National Flood Insurance Program (NFIP) - 44 CFR 65.10 Provision Evaluation

<u>FINDING</u>		44 CFR 65.10 Criterion	CFR Section
<input checked="" type="checkbox"/> POSITIVE	<input type="checkbox"/> NEGATIVE	All closure devices, whether manual or automatic, are operated in accordance with an officially adopted operation manual.	65.10(c)
<input checked="" type="checkbox"/> POSITIVE	<input type="checkbox"/> NEGATIVE	Manuals document a flood warning system that will be used to trigger emergency operation activities and demonstration that sufficient flood warning time exists for the completed operation of all closure structures.	65.10(c)(1)i
<input checked="" type="checkbox"/> POSITIVE	<input type="checkbox"/> NEGATIVE	Manuals identify specific actions and assignments of responsibility by individual name or title.	65.10(c)(1)ii
<input checked="" type="checkbox"/> POSITIVE	<input type="checkbox"/> NEGATIVE	Manuals identify provisions for periodic operation of closure structures for testing and training purposes, in accordance with the adopted operation manual.	65.10(c)(1)iii
<input checked="" type="checkbox"/> POSITIVE	<input type="checkbox"/> NEGATIVE	Officially adopted maintenance plans documents the formal procedure that ensures that the stability, height, & overall integrity of the levee and its associated structures and systems are maintained.	65.10(d)
<input checked="" type="checkbox"/> POSITIVE	<input type="checkbox"/> NEGATIVE	Maintenance plans specify the maintenance activities to be performed, the frequency of their performance, and the person by name or title responsible for their performance.	65.10(d)

General Instructions for the Inspection of Flood Damage Reduction Segments / Systems

A. Purpose of USACE Inspections

The primary purpose of these inspections is to prevent loss of life and catastrophic damages; preserve the value of Federal investments, and to encourage non-Federal sponsors to bear responsibility for their own protection. Inspections should assure that Flood Damage Reduction structures and facilities are continually maintained and operated as necessary to obtain the maximum benefits. Inspections are also conducted to determine eligibility for Rehabilitation Assistance under authority of PL 84-99 for Federal and non-Federal systems. (ER 1130-2-530, ER 500-1-1)

B. Types of Inspections:

The Corps conducts several types of inspections of Flood Damage Reduction systems, as outlined below:

Initial Eligibility Inspections	Continuing Eligibility Inspections	
	Routine Inspections	Periodic Inspections
IEIs are conducted to determine whether a non-Federally constructed Flood Damage Reduction system meets the minimum criteria and standards set forth by the Corps for initial inclusion into the Rehabilitation and Inspection Program.	RIIs are intended to verify proper maintenance, owner preparedness, and component operation.	PIIs are intended to verify proper maintenance and component operation and to evaluate operational adequacy, structural stability, and safety of the system. Periodic Inspections evaluate the system's original design criteria vs. current design criteria to determine potential performance impacts, evaluate the current conditions, and compare the design loads and design analysis used against current design standards. This is to be done to identify components and features for the sponsor that need to be monitored more closely over time or corrected as needed. (Periodic Inspections are used as the basis of risk assessments.)

C. Inspection Boundaries:

Inspections should be conducted so as to rate each Flood Damage Reduction "Segment" of the system. The overall system rating will be the lowest segment rating in the system.

Project	System	Segment
A flood damage reduction project is made up of one or more flood damage reduction systems which were under the same authorization.	A flood damage reduction system is made up of one or more flood damage reduction segments which collectively provide flood damage reduction to a defined area. Failure of one segment within a system constitutes failure of the entire system. Failure of one system does not affect another system.	A flood damage reduction segment is defined as a discrete portion of a flood damage reduction system that is operated and maintained by a single entity. A flood damage reduction segment can be made up of one or more features (levee, floodwall, pump stations, etc).

D. Land Use Definitions:

The following three definitions are intended for use in determining minimum required inspection intervals and initial requirements for inclusion into the Rehabilitation and Inspection Program. Inspections should be considered for all systems that would result in significant environmental or economic impact upon failure regardless of specific land use.

Agricultural	Rural	Urban
Protected population in the range of zero to 5 households per square mile protected.	Protected population in the range of 6 to 20 households per square mile protected.	Greater than 20 households per square mile; major industrial areas with significant infrastructure investment. Some protected urban areas have no permanent population but may be industrial areas with high value infrastructure with no overnight population.

E. **Use of the Inspection Report Template:**

The report template is intended for use in all Army Corps of Engineers inspections of levee and floodwall systems and flood damage reduction channels. The section of the template labeled \"Initial Eligibility\" only needs to be completed during Initial Eligibility Inspections of Non-Federally constructed Flood Damage Reduction Systems. The section labeled \"General Items\" needs to be completed with every inspection, along with all other sections that correspond to features in the system. The section labeled \"Public Sponsor Pre-Inspection Report\" is intended for completion before the inspection, if possible.

F. **Individual Item / Component Ratings:**

Assessment of individual components rated during the inspection should be based on the criteria provided in the inspection report template, though inspectors may incorporate additional items into the report based on the characteristics of the system. The assessment of individual components should be based on the following definitions.

Acceptable Item	Minimally Acceptable Item	Unacceptable Item
The inspected item is in satisfactory condition, with no deficiencies, and will function as intended during the next flood event.	The inspected item has one or more minor deficiencies that need to be corrected. The minor deficiency or deficiencies will not seriously impair the functioning of the item as intended during the next flood event.	The inspected item has one or more serious deficiencies that need to be corrected. The serious deficiency or deficiencies will seriously impair the functioning of the item as intended during the next flood event.

G. **Overall Segment / System Ratings:**

Determination of the overall system rating is based on the definitions below. Note that an Unacceptable System Rating may be either based on an engineering determination that concluded that noted deficiencies would prevent the system from functioning as intended during the next flood event, or based on the sponsor's demonstrated lack of commitment or inability to correct serious deficiencies in a timely manner.

Acceptable System	Minimally Acceptable System	Unacceptable System
All items or components are rated as Acceptable.	One or more items are rated as Minimally Acceptable or one or more items are rated as Unacceptable and an engineering determination concludes that the Unacceptable items would not prevent the segment / system from performing as intended during the next flood event.	One or more items are rated as Unacceptable and would prevent the segment / system from performing as intended, or a serious deficiency noted in past inspections (which had previously resulted in a minimally acceptable system rating) has not been corrected within the established timeframe, not to exceed two years.

H. **Eligibility for PL84-99 Rehabilitation Assistance:**

Inspected systems that are not operated and maintained by the Federal government may be Active in the Corps' Rehabilitation and Inspection Program (RIP) and eligible for rehabilitation assistance from the Corps as defined below:

If the Overall System Rating is Acceptable	If the Overall System Rating is Minimally Acceptable	If the Overall System Rating is Unacceptable
The system is active in the RIP and eligible for PL84-99 rehabilitation assistance.	The system is Active in the RIP during the time that it takes to make needed corrections. Active systems are eligible for rehabilitation assistance. However, if the sponsor does not present USACE with proof that serious deficiencies (which had previously resulted in a minimally acceptable system rating) were corrected within the established timeframe, then the system will become Inactive in the RIP.	The system is Inactive in the RIP, and the status will remain Inactive until the sponsor presents USACE with proof that all items rated Unacceptable have been corrected. Inactive systems are ineligible for rehabilitation assistance.

I. Reporting:

After the inspection, the Corps is responsible for assembling an inspection report (or a summary report if it was a Periodic Inspection) including the following information:

- a. All sections of the report template used during the inspection, including the cover and pre-inspection materials. (Supplemental data collected, and any sections of the template that weren't used during the inspection do not need to be included with the report.)
- b. Photos of the general system condition and noted deficiencies.
- c. A plan view drawing of the system, with stationing, to reference locations of items rated less than acceptable.
- d. The relative importance of the identified maintenance issues should be specified in the transmittal letter.
- e. If the Overall System Rating is Minimally Acceptable, the report needs to establish a timeframe for correction of serious deficiencies noted (not to exceed two years) and indicate that if these items are not corrected within the required timeframe, the system will be rated as Unacceptable and made Inactive in the Rehabilitation Inspection Program.

J. Notification:

Reports are to be disseminated as follows within 30 days of the inspection date.

If the Overall System Rating is Acceptable	If the Overall System Rating is Minimally Acceptable	If the Overall System Rating is Unacceptable
Reports need to be provided to the local sponsor and the county emergency management agency.	Reports need to be provided to the local sponsor, state emergency management agency, county emergency management agency, and to the FEMA region.	Reports need to be provided to the local sponsor, state emergency management agency, county emergency management agency, FEMA region, and to the Congressional delegation within 30 days of the inspection.

National Levee Database

NLD

For Official Use Only

LEVEE INSPECTION MAPBOOK

Levee Segment Hammond

NLD Levee Segment ID
2604000008

Location
Hammond

Inspection Type
Routine

Start Date
23-Jun-2021

End Date
24-Jun-2021

Inspected By
Jeremy Harris, Yuki Galisanao

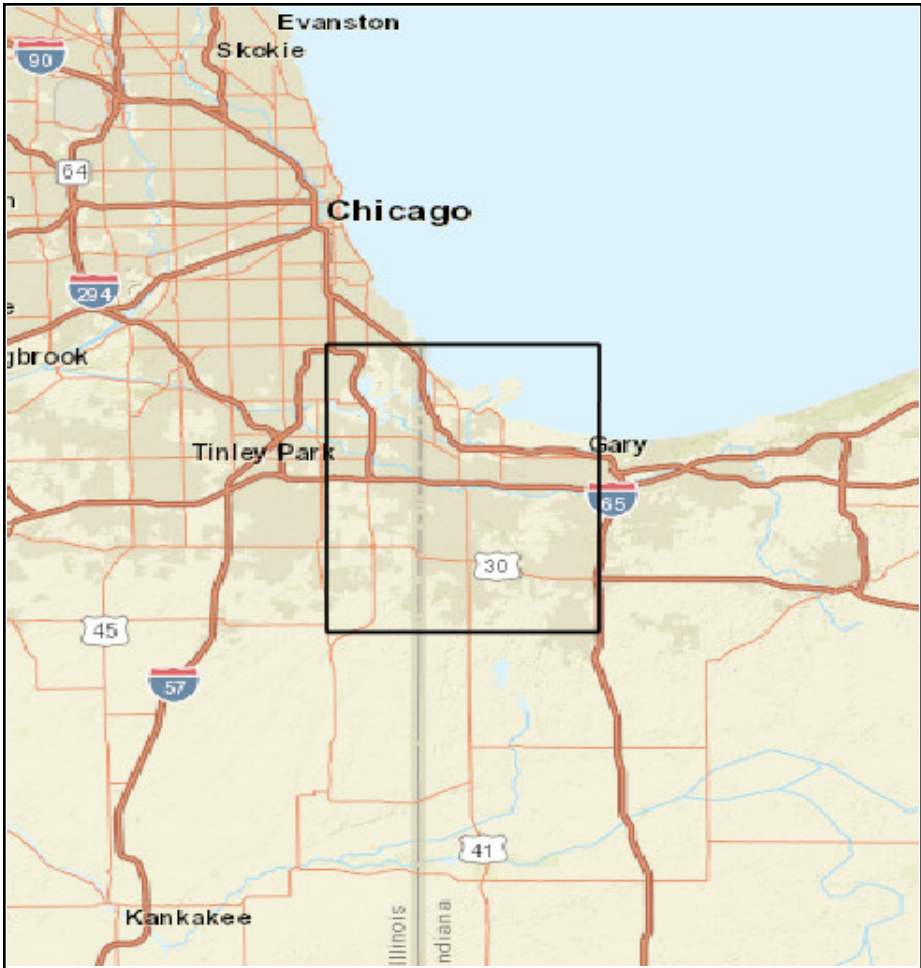


US Army Corps
of Engineers

SHEET INDEX

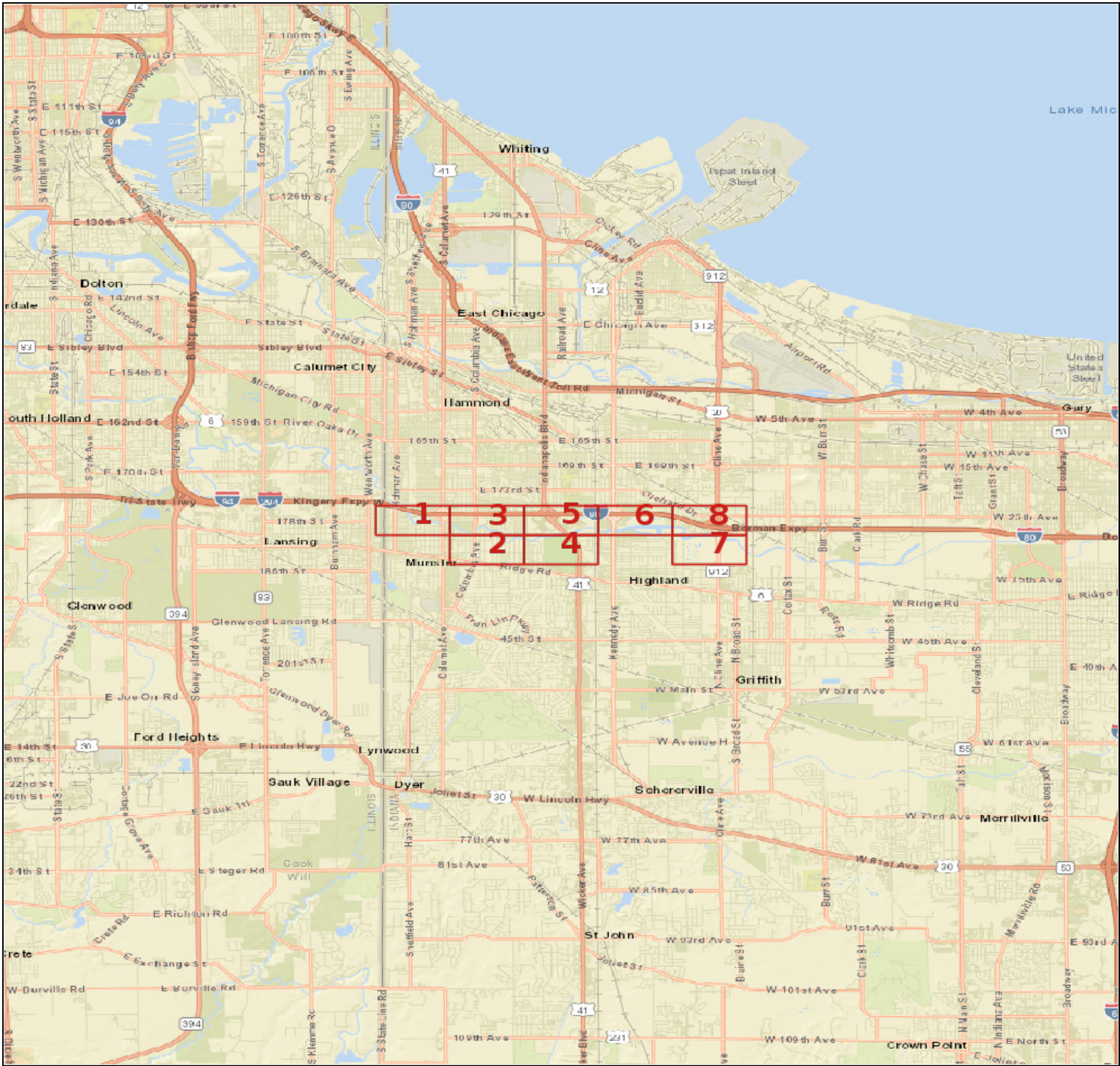
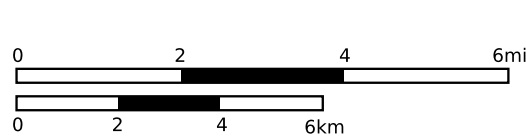
Levee: Hammond

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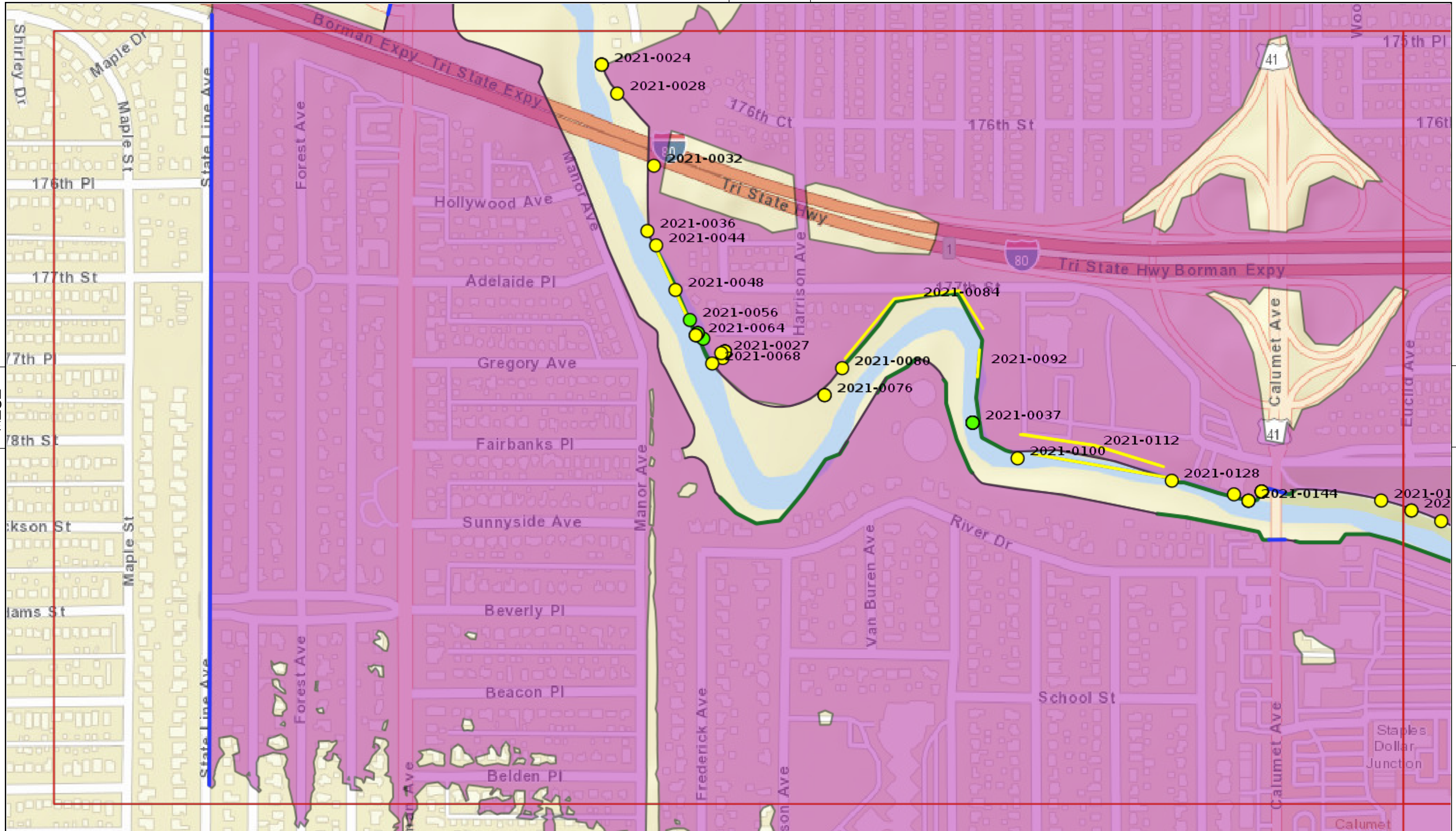


MAP ELEMENTS

8 Standard Sheets



NONE



NOZ

3

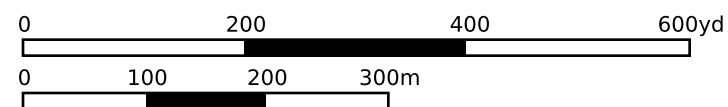
NONE



OBSERVATIONS

- Acceptable
- Minimally Acceptable
- Unacceptable
- Not Applicable

Scale = 1:6000



NLD

Sheet: 1

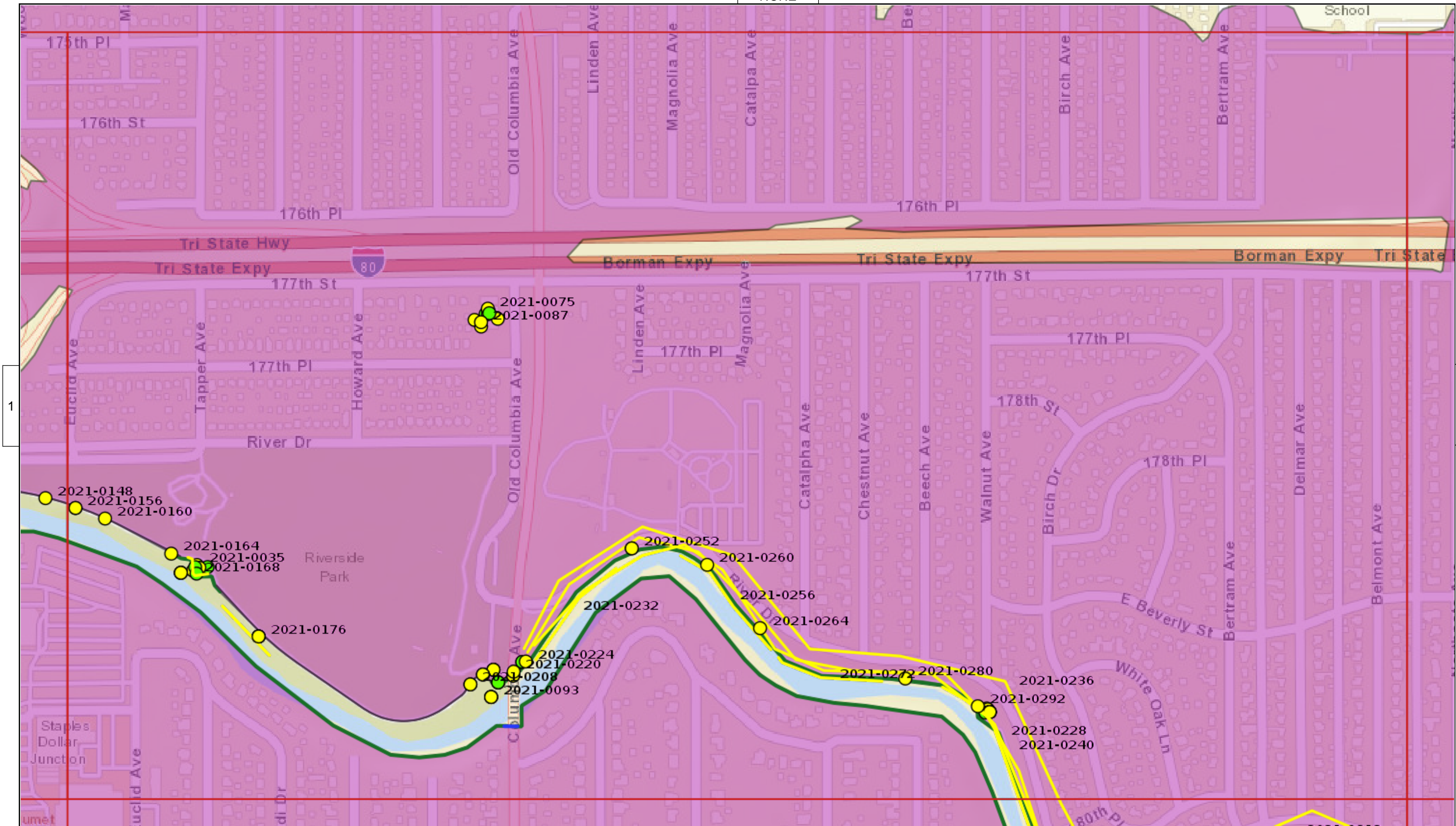
23-Jun-2021

Hammond

Type: Routine

24-Jun-2021

NONE



1

5

2



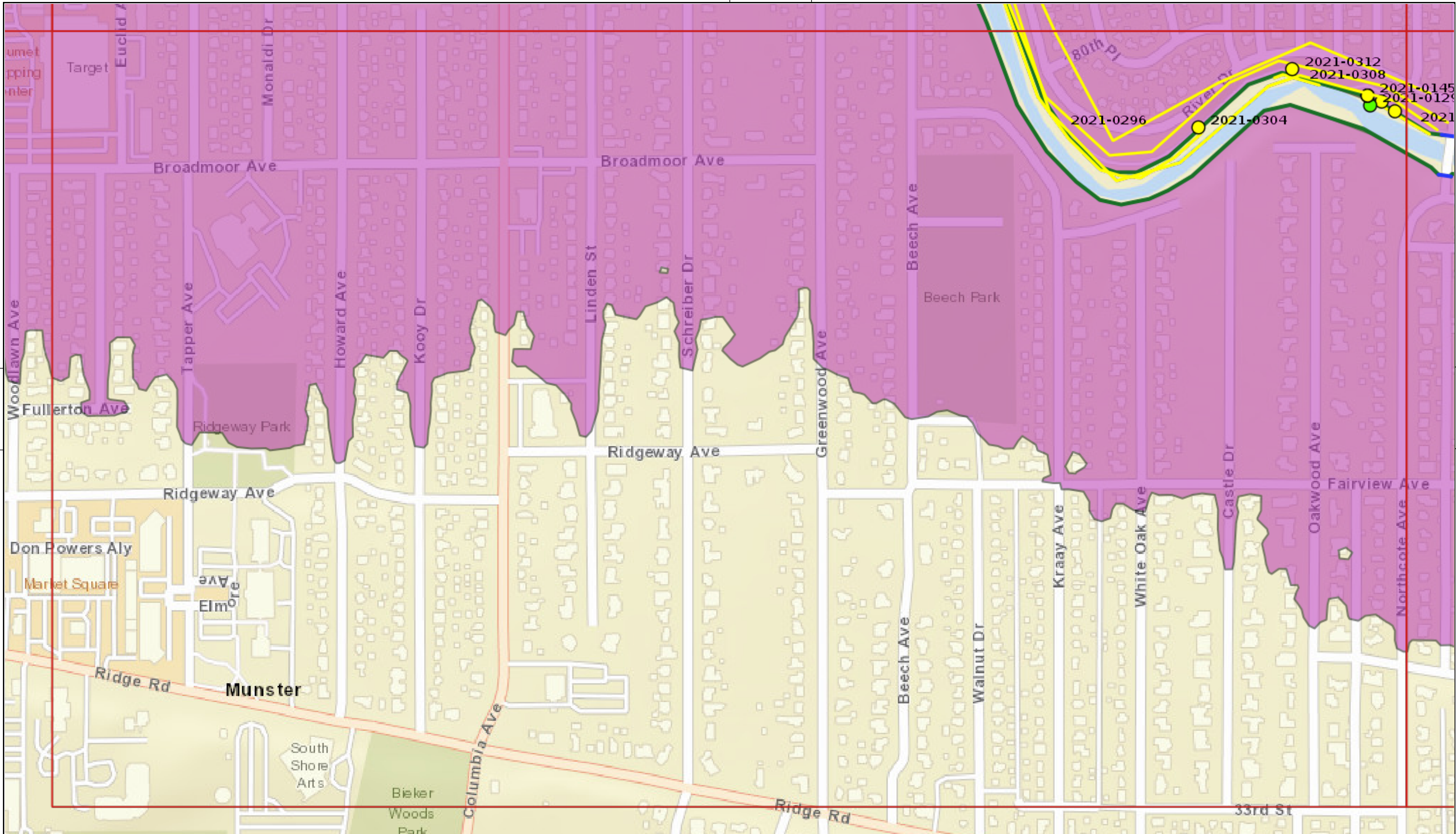
OBSERVATIONS

-  Acceptable
-  Minimally Acceptable
-  Unacceptable
-  Not Applicable

Scale = 1:6000



NLD	Sheet: 3	23-Jun-2021
	Hammond	
	Type: Routine	24-Jun-2021



WZ02

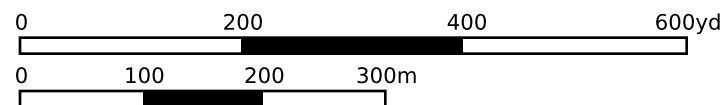
4

NONE

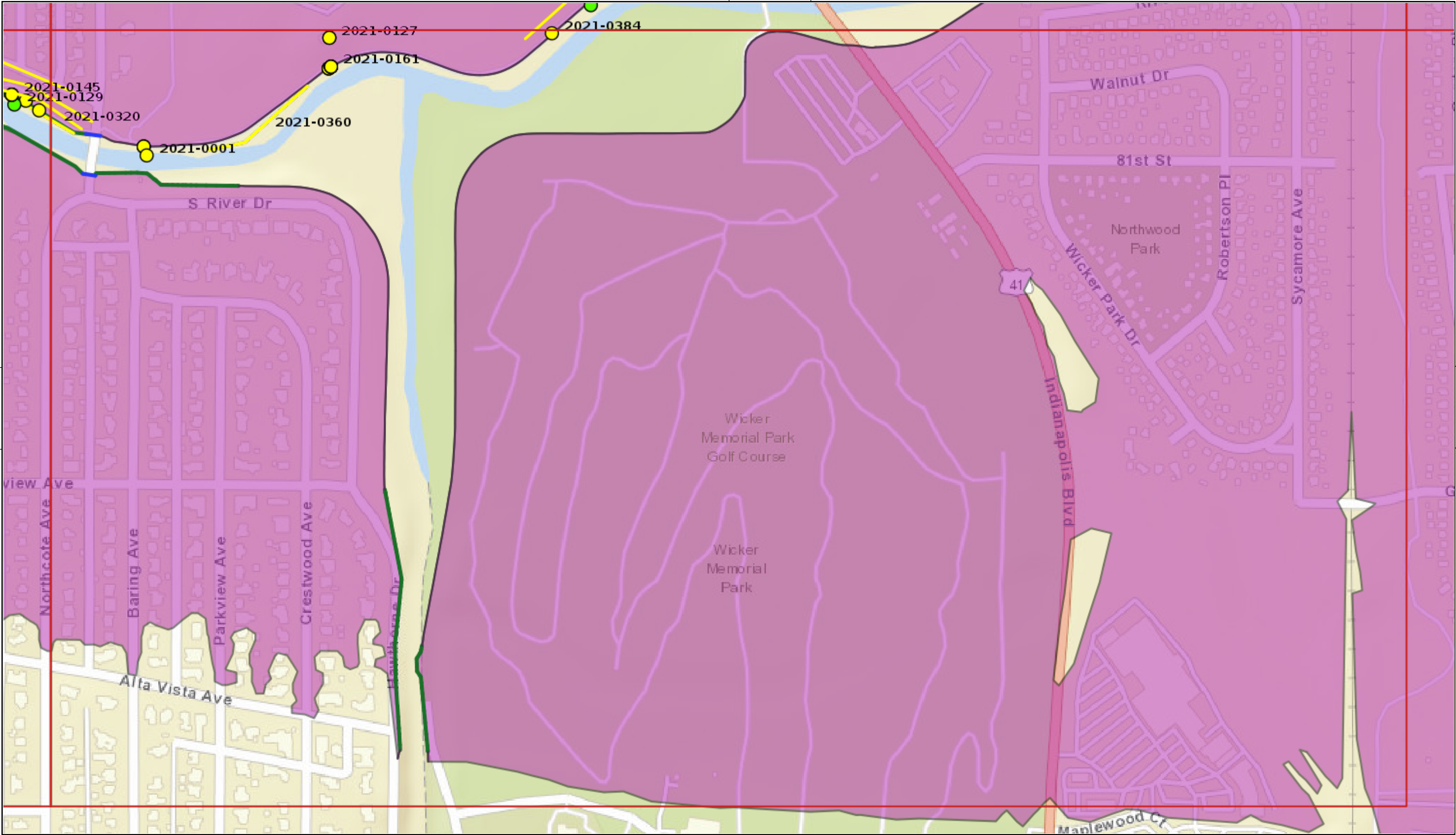


- OBSERVATIONS**
-  Acceptable
 -  Minimally Acceptable
 -  Unacceptable
 -  Not Applicable

Scale = 1:6000



NLD	Sheet: 2	23-Jun-2021
	Hammond	
	Type: Routine	24-Jun-2021



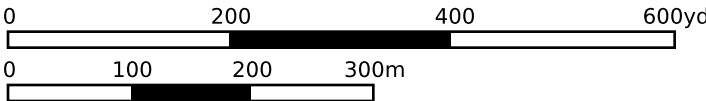
NONE



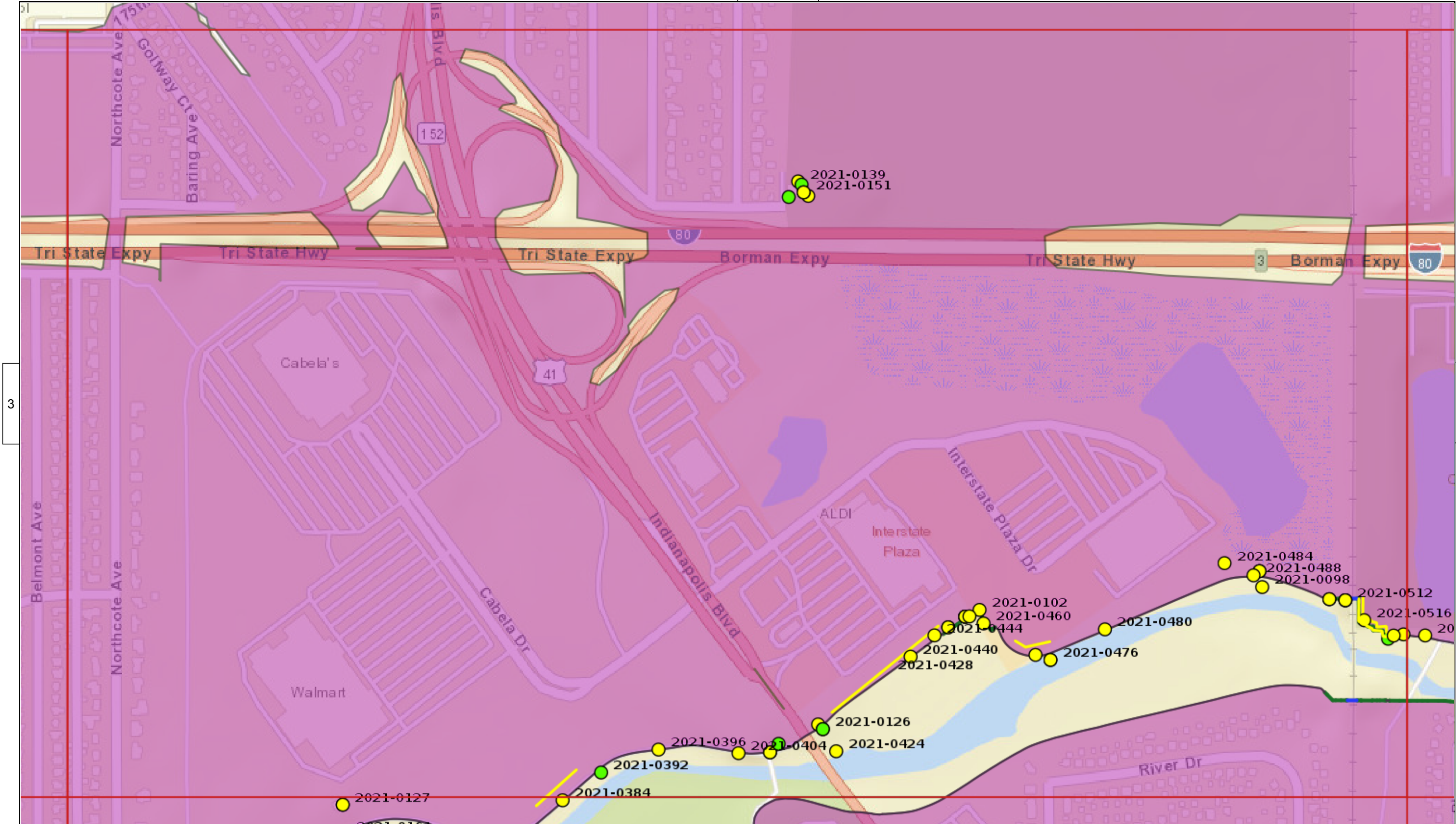
OBSERVATIONS

- Acceptable
- Minimally Acceptable
- Unacceptable
- Not Applicable

Scale = 1:6000



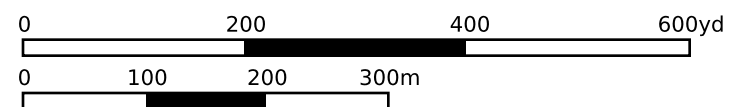
NLD	Sheet: 4	23-Jun-2021
	Hammond	
	Type: Routine	24-Jun-2021



OBSERVATIONS

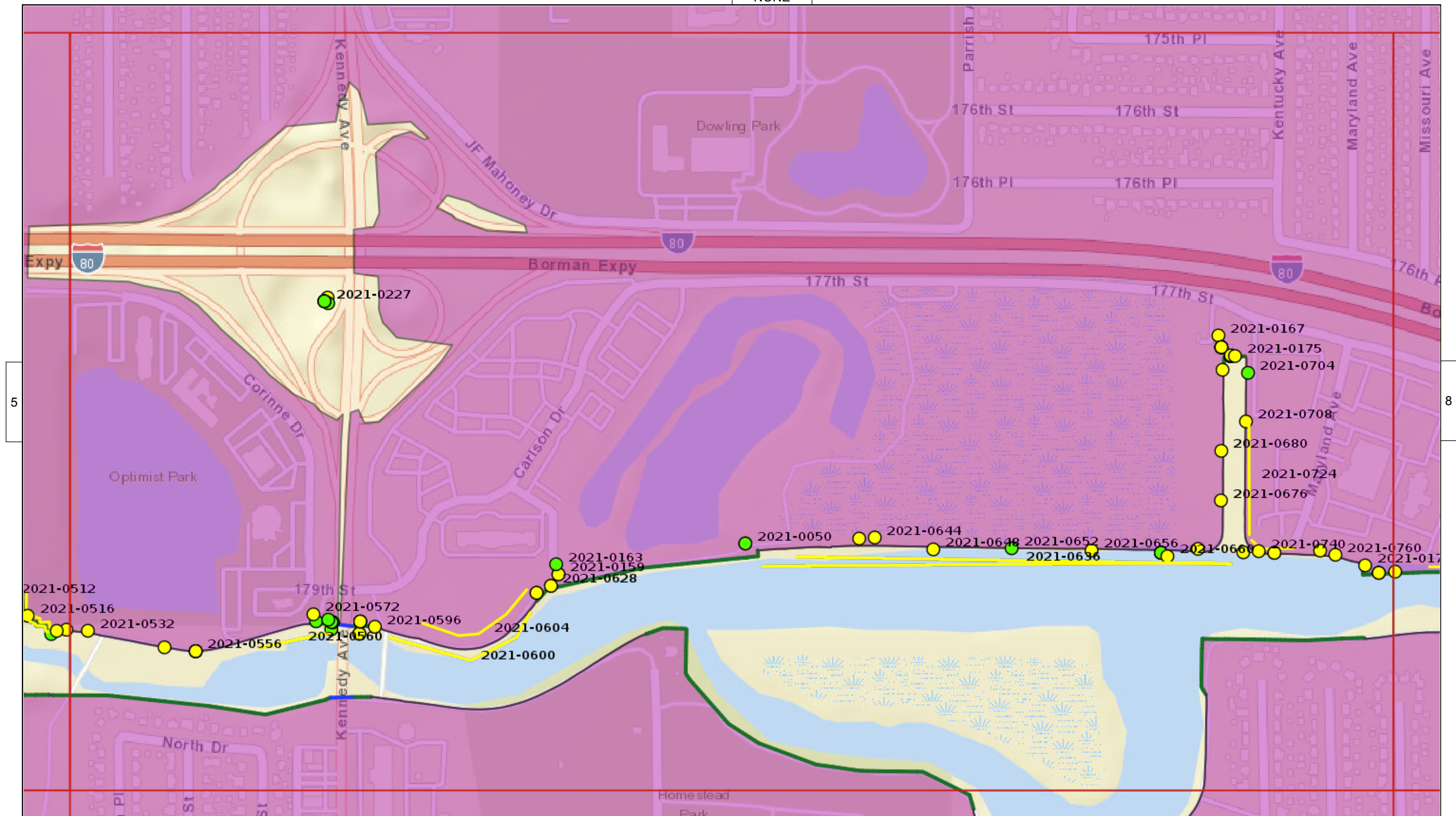
-  Acceptable
-  Minimally Acceptable
-  Unacceptable
-  Not Applicable

Scale = 1:6000



NLD	Sheet: 5	23-Jun-2021
	Hammond	
	Type: Routine	24-Jun-2021

NONE



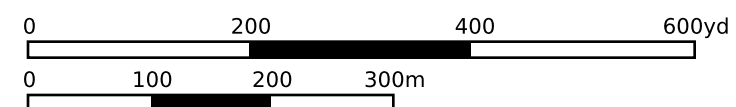
NONE



OBSERVATIONS

-  Acceptable
-  Minimally Acceptable
-  Unacceptable
-  Not Applicable

Scale = 1:6000



Sheet: 6

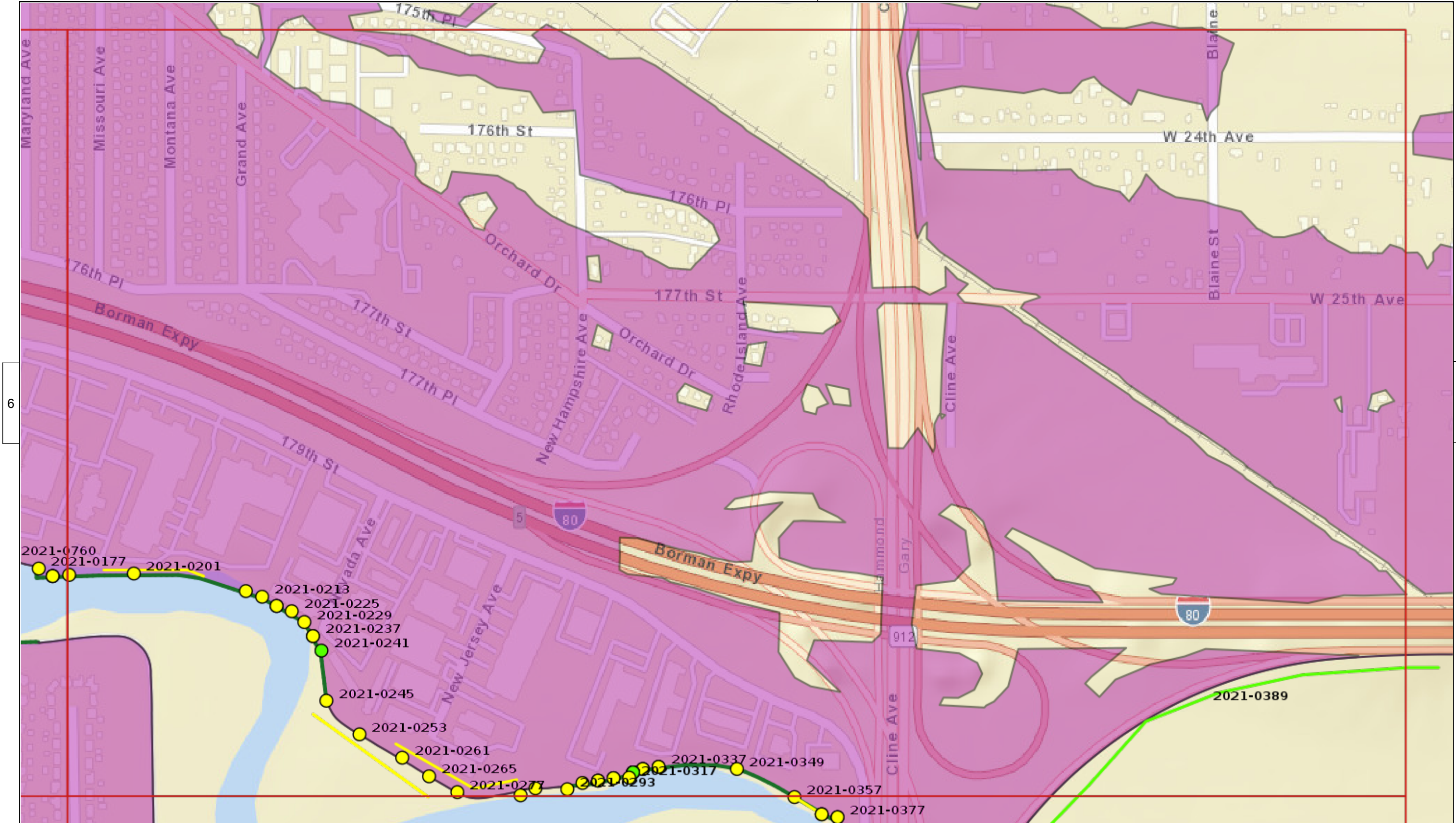
23-Jun-2021

Hammond

Type: Routine

24-Jun-2021]

NONE



6

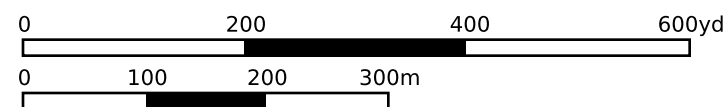
7



OBSERVATIONS

- Acceptable
- Minimally Acceptable
- Unacceptable
- Not Applicable

Scale = 1:6000



NLD

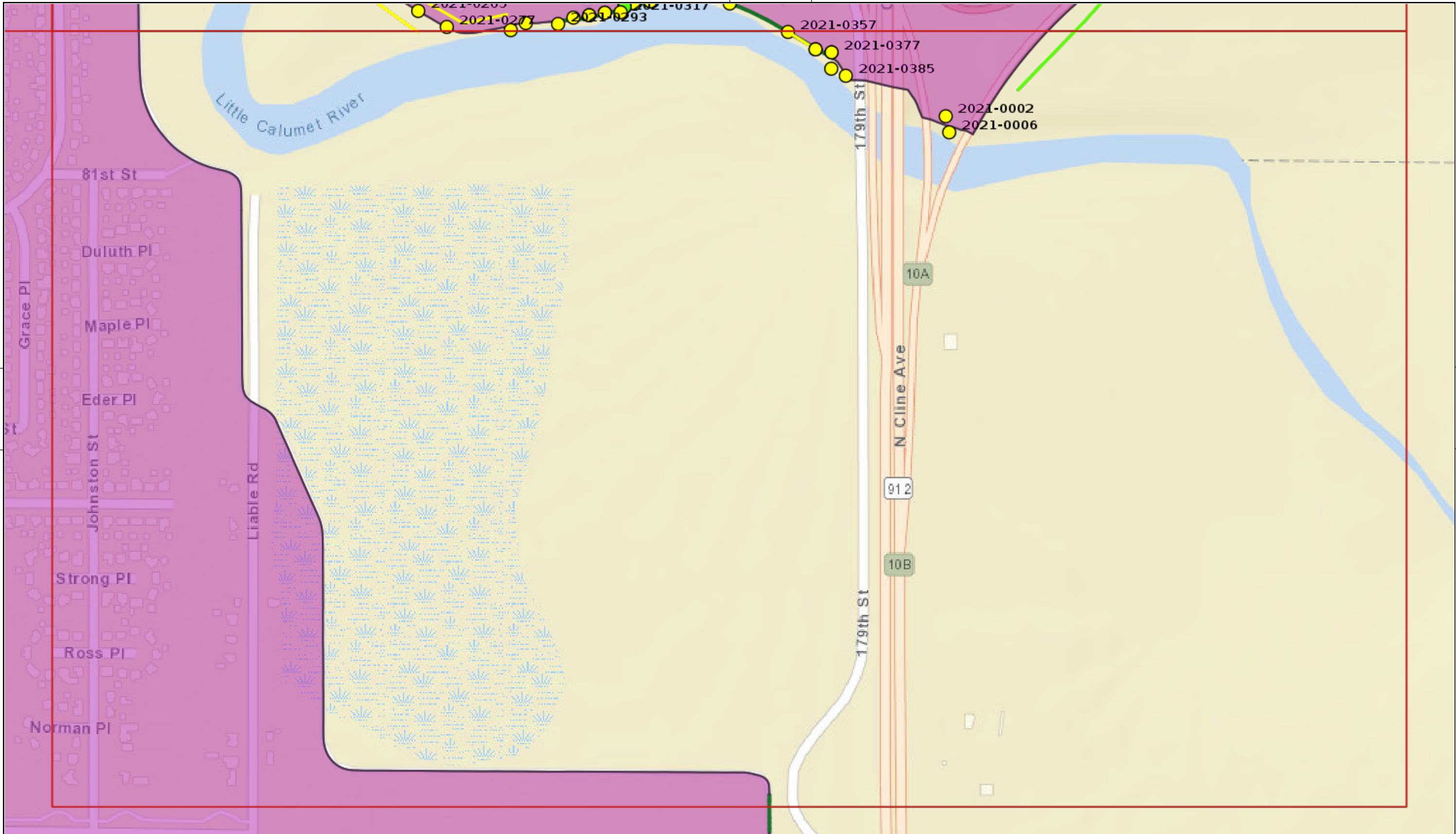
Sheet: 8

23-Jun-2021

Hammond

Type: Routine

24-Jun-2021



8

7

8

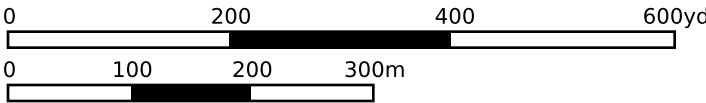
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OBSERVATIONS

- Acceptable
- Minimally Acceptable
- Unacceptable
- Not Applicable

Scale = 1:6000



NLD

Sheet: 7
Type: Routine

Hammond

23-Jun-2021
24-Jun-2021