

DTE Energy Monroe Power Plant

Inactive Bottom Ash Impoundment CCR Rule Compliance Project

Annual Inspection Report - 2020

Project Number: 60638560

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Prepared by:

AECOM

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Table of Contents

Table of Contents	i
1. Introduction	1
1.1 Introduction.....	1
1.2 Background Information.....	1
1.3 Personnel.....	1
2. Annual Inspection Results.....	2
2.1 2020 Inspections	2
3. Maintenance Activities in 2020	3
3.1 Maintenance Activities.....	3
4. Conclusion and Certification.....	4
4.1 Conclusion.....	4
4.2 Certification.....	4

Appendices

- A. 2020 Annual Inspection Report

1. Introduction

1.1 Introduction

The 2020 Annual Inspection Report (AIR) was prepared by AECOM for the DTE Electric Company (DTE) to summarize the results of the annual inspection of the Monroe Power Plant Inactive Bottom Ash Impoundment. This annual inspection complies with the United States Environmental Protection Agency Coal Combustion Residuals Rule (40 CFR 257.73). Under the CCR Rule, the Inactive Bottom Ash Impoundment is an "existing surface impoundment" and must be inspected by a qualified professional engineer on a periodic basis, not to exceed one year.

1.2 Background Information

The Inactive Bottom Ash Impoundment area was constructed in the late 1960's by building a perimeter dike to surround a low area of the adjacent Lake Erie; the area south of the plant was removed from the Waters of the United States by an Act of Congress prior to plant construction. CCR materials have been placed and allowed to drain into the pond from the north end of the pond; these materials currently form a delta that extends about 1/3 of the way into the pond.

1.3 Personnel

The annual inspection was performed by Mr. Scott G. Hutsell, P.E., with assistance from DTE personnel. Weekly inspections have been and continue to be performed by DTE's plant personnel.

2. Annual Inspection Results

2.1 2019/2020 Inspections

DTE performed the following visual inspections in 2020:

- The annual inspection on July 22, 2020 (provided in Appendix A)
- Weekly inspections during 2019 and 2020

The annual and weekly inspections included the embankment crest, exterior slopes of the embankment, discharge structures, and discrete observations of the interior of the basins based on accessibility. In addition to the annual and weekly inspections, the general condition of the site and embankment was visually inspected by DTE on a daily basis.

No sign of vegetative distress or structural issues were observed during the annual inspection on the embankment crest, exterior slopes of the embankment and discharge structure. These structures appeared to be in good condition. No changes to the geometry of the impoundment have occurred since the last inspection. Instrumentation related to geotechnical monitoring of the impoundment slopes is not present at the impoundment.

The water elevation of the pond is approximately ~575 MSL as noted in the inspection report in Appendix A. Water depth ranges from zero along the northern shore to 3 feet along the eastern and southern perimeter and up to 25 feet in depth near the weir. The storage capacity of the impoundment has been estimated to be 15.8M cubic feet ("CCR Impoundment Inflow Design Flood Control System Plan: Inactive Bottom Ash Impoundment, Monroe Power Plant", AECOM revised August 30, 2020). CCR materials have not been placed in the impoundment since 2015.

Noteworthy observations are listed below; these conditions do not represent an immediate concern for the safe operation or stability of the Inactive Bottom Ash Impoundment and will be addressed through the closure of the Bottom Ash Impoundment.

- The downslope sides of the Impoundment are heavily vegetated and/or below the water surface. A thorough inspection of the entire surface perimeter of the impoundment is not practical.

3. Maintenance Activities in 2020

3.1 Maintenance Activities

DTE installed additional rip-rap along the western slope of the impoundment to repair areas where rip-rap has sloughed down the slope. DTE also has made extensive repairs to the site access roads surrounding the pond on the east and west side; on the east side the road has been significantly widened and new aggregate has been placed. On the western berm south of the weir additional aggregate has also been placed.

4. Conclusion and Certification

4.1 Conclusion

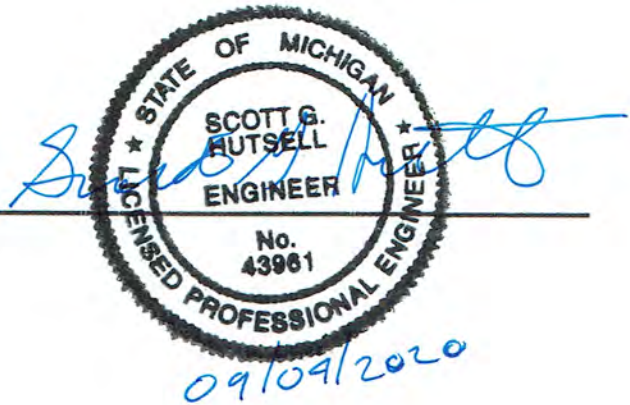
The annual inspection did not identify any evidence of structural weakness or instability in the Inactive Bottom Ash Impoundment at DTE's Monroe Power Plant.

Based on the annual inspection results and review of available data (including design documents and weekly inspection documentation) the Bottom Ash Impoundment was designed and constructed with generally accepted good engineering standards. Additionally, the Inactive Bottom Ash Impoundment is operated and maintained using generally accepted good engineering practice.

4.2 Certification

Certified by:

Scott G. Hutsell, P.E. Michigan License #43961
Senior Project Manager



CCR Impoundment Inspection Report

Station/Owner Monroe Inactive Bottom Ash Impoundment / DTE Energy		County Monroe	State Michigan
Inspected By Scott G. Hutsell, P.E.		Date 07/22/2020	Phone No. 517-505-1301
Type of Impoundment: <input type="checkbox"/> Concrete Gravity <input checked="" type="checkbox"/> Embankment <input type="checkbox"/> Concrete Arch <input type="checkbox"/> Stone Masonry <input type="checkbox"/> Concrete Buttress <input type="checkbox"/> Other		Type of Inspection <input type="checkbox"/> Initial <input checked="" type="checkbox"/> Periodic <input type="checkbox"/> Follow up <input type="checkbox"/> Other	Weather <input type="checkbox"/> Wet <input checked="" type="checkbox"/> Dry <input type="checkbox"/> Snow Cover <input type="checkbox"/> Other
Hazard Description The Inactive Bottom Ash Impoundment is an inactive surface impoundment; the northern half is deposited sluiced ash while the southern half contains from 3 to 25 ft of water surrounded by an embankment.		Condition Assessment <input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Unsatisfactory <input type="checkbox"/> Poor <input type="checkbox"/> Not rated <input type="checkbox"/> Fair	
Remarks		Actions <input type="checkbox"/> None <input checked="" type="checkbox"/> Maintenance <input checked="" type="checkbox"/> Monitoring <input checked="" type="checkbox"/> Minor Repair <input type="checkbox"/> Engineering	Recommendations <input checked="" type="checkbox"/> Inspection letter <input type="checkbox"/> <input type="checkbox"/> Deficiency letter <input type="checkbox"/> <input type="checkbox"/> EOR notice <input type="checkbox"/> <input type="checkbox"/> Engineering study <input type="checkbox"/> Periodic reinspection <input type="checkbox"/> Inspection by EOR
Pool Level (ft) ~575 ft MSL		Total Precipitation since last inspection n/a	

	Problems	COVER:
UPSTREAM SLOPE/FACE	<input type="checkbox"/> 1. None <input checked="" type="checkbox"/> 2. Vegetation >2" dia. <input checked="" type="checkbox"/> 3. Veg. height >6" <input type="checkbox"/> 4. High bushes <input type="checkbox"/> 5. Animal Burrows <input type="checkbox"/> 6. Livestock damage <input type="checkbox"/> 7. Wave Erosion <input type="checkbox"/> 8. Slides <input type="checkbox"/> 9. Depressions <input type="checkbox"/> 10. Bulges <input type="checkbox"/> 11. Cracks <input type="checkbox"/> 12. Spalling <input type="checkbox"/> 13. Scarps <input type="checkbox"/> 14. Sloughing <input type="checkbox"/> 15. Holes <input type="checkbox"/> 16. Undermining <input type="checkbox"/> 17. Displaced joints <input type="checkbox"/> 18. Deteriorated joints <input type="checkbox"/> 19. Exposed reinforcement <input type="checkbox"/> 20. Veg. or sediment in rip rap <input type="checkbox"/> 21. Displaced rip rap <input type="checkbox"/> 22. Sparse rip rap <input type="checkbox"/> 23. Other Erosion <input type="checkbox"/> 24. Other	<input checked="" type="checkbox"/> Vegetation <input checked="" type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Other
	Comments /Action Items The embankments surrounding the Inactive Bottom Ash Impoundment is typically 20' wide at the crest – while the access road is made up of crushed rock and rip-rap. the interior sideslopes, especially on the western side of the pond are heavily vegetated. The southern embankment is a rip-rap separation berm built in 2015 – this berm has been upgraded since the last inspection to fill in the spillway.	
	Actions <input checked="" type="checkbox"/> None <input type="checkbox"/> Maintenance <input type="checkbox"/> Monitoring <input type="checkbox"/> Minor Repair <input type="checkbox"/> Engineering	
TOP OF DAM/CREST	<input type="checkbox"/> 1. None <input type="checkbox"/> 2. Vegetation >2" dia. <input checked="" type="checkbox"/> 3. Veg. height >6" <input type="checkbox"/> 4. High bushes <input type="checkbox"/> 5. Animal Burrows <input type="checkbox"/> 6. Livestock damage <input type="checkbox"/> 7. Ruts <input type="checkbox"/> 8. Depressions <input type="checkbox"/> 9. Unlevel <input type="checkbox"/> 10. Misalignment <input type="checkbox"/> 11. Signs of overtopping <input type="checkbox"/> 12. Cracks <input type="checkbox"/> 13. Deteriorated joints <input type="checkbox"/> 14. Displaced joints <input type="checkbox"/> 15. Exposed reinforcement <input type="checkbox"/> 16. Settlement <input type="checkbox"/> 17. Scarps <input type="checkbox"/> 18. Spalling <input type="checkbox"/> 19. Sinkholes <input type="checkbox"/> 20. Puddles <input type="checkbox"/> 21. Other	<input checked="" type="checkbox"/> Vegetation <input checked="" type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Other
	Comments /Action Items The embankments surrounding the Inactive Bottom Ash Impoundment are typically 20' wide at the crest; the access road is made up of crushed rock and rip-rap. The access road surrounding the impoundment have been upgraded with additional aggregate and on the eastern edge widened significantly as part of a recent site construction project. The southern embankment is a rip-rap separation berm built in 2015; the berm has been significantly overgrown with small vegetation since construction.	
	Actions <input checked="" type="checkbox"/> None <input type="checkbox"/> Maintenance <input type="checkbox"/> Monitoring <input type="checkbox"/> Minor Repair <input type="checkbox"/> Engineering	

CCR Impoundment Inspection Report

DOWNSTREAM SLOPE/FACE	PROBLEMS				COVER:	
	<input type="checkbox"/> 1. None <input checked="" type="checkbox"/> 2. Vegetation >2" dia. <input checked="" type="checkbox"/> 3. Veg. height >6" <input checked="" type="checkbox"/> 4. High bushes <input type="checkbox"/> 5. Poor grass cover <input type="checkbox"/> 6. Animal Burrows <input type="checkbox"/> 7. Livestock damage	<input type="checkbox"/> 8. Wetness <input type="checkbox"/> 9. Seepage <input type="checkbox"/> 10. Boils <input type="checkbox"/> 11. Puddles <input type="checkbox"/> 12. Erosion <input type="checkbox"/> 13. Slope instability <input type="checkbox"/> 14. Scarps	<input type="checkbox"/> 15. Sloughs/bulges <input type="checkbox"/> 16. Depressions <input type="checkbox"/> 17. Undercutting <input type="checkbox"/> 18. Rutting/rills <input type="checkbox"/> 19. Cracks <input type="checkbox"/> 20. Scour <input type="checkbox"/> 21. Spalling	<input type="checkbox"/> 22. Displaced joints <input type="checkbox"/> 23. Deteriorated joints <input type="checkbox"/> 24. Exposed reinforcement <input checked="" type="checkbox"/> 25. Riprap needs attention <input checked="" type="checkbox"/> 26. Veg. or sediment in rip rap <input type="checkbox"/> 27. Other	<input checked="" type="checkbox"/> Vegetation <input type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Other	
	28. Does standing water or seepage contain sediment?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	
	29. Is there natural hillside seepage in in embankment area?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	
	Describe seepage with regard to quantity and clarity (turbidity). Note changes: None					
Comments /Action Items Along the outside embankment large trees (1-2' in diameter) are visible. The southern embankment is a rip-rap separation berm built in 2015. Some minor sloughing apparent along western perimeter along the discharge canal, reinforcement with additional riprap is planned).						
Actions <input checked="" type="checkbox"/> None <input type="checkbox"/> Maintenance <input type="checkbox"/> Monitoring <input type="checkbox"/> Minor Repair <input type="checkbox"/> Engineering						
TOE CONTACT	PROBLEMS				COVER:	
	<input type="checkbox"/> 1. None <input checked="" type="checkbox"/> 2. Vegetation >2" dia. <input type="checkbox"/> 3. Veg. height >6" <input checked="" type="checkbox"/> 4. High bushes <input type="checkbox"/> 5. Poor grass cover <input type="checkbox"/> 6. Animal Burrows <input type="checkbox"/> 7. Livestock damage	<input type="checkbox"/> 8. Wetness <input type="checkbox"/> 9. Seepage <input type="checkbox"/> 10. Boils <input type="checkbox"/> 11. Puddles <input type="checkbox"/> 12. Erosion <input type="checkbox"/> 13. Slope instability <input type="checkbox"/> 14. Scarps	<input type="checkbox"/> 15. Sloughs/bulges <input type="checkbox"/> 16. Depressions <input type="checkbox"/> 17. Undercutting <input type="checkbox"/> 18. Rutting/rills <input type="checkbox"/> 19. Cracks <input type="checkbox"/> 20. Scour <input type="checkbox"/> 21. Spalling	<input type="checkbox"/> 22. Displaced joints <input type="checkbox"/> 23. Deteriorated joints <input type="checkbox"/> 24. Exposed reinforcement <input type="checkbox"/> 25. Riprap needs attention <input type="checkbox"/> 26. Veg. or sediment in rip rap <input type="checkbox"/> 27. Other	<input checked="" type="checkbox"/> Vegetation <input type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Other	
	28. Does standing water or seepage contain sediment?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	
	Describe seepage with regard to quantity and clarity (turbidity). Note changes: None					
	Comments /Action Items Toe is inaccessible to direct inspection due to heavy vegetation along the northern water surface. Toe is inaccessible along the western and eastern perimeter due to the water surface. Portions of the toe of slope that are visible from the south bank and other slopes look to be in good condition.					
Actions <input checked="" type="checkbox"/> None <input type="checkbox"/> Maintenance <input type="checkbox"/> Monitoring <input type="checkbox"/> Minor Repair <input type="checkbox"/> Engineering						
ABUTMENT CONTACTS	PROBLEMS				COVER:	
	<input type="checkbox"/> 1. None <input type="checkbox"/> 2. Vegetation >2" dia. <input type="checkbox"/> 3. Veg. height >6" <input type="checkbox"/> 4. High bushes <input type="checkbox"/> 5. Poor grass cover <input type="checkbox"/> 6. Animal Burrows <input type="checkbox"/> 7. Livestock damage	<input type="checkbox"/> 8. Wetness <input type="checkbox"/> 9. Seepage <input type="checkbox"/> 10. Boils <input type="checkbox"/> 11. Puddles <input type="checkbox"/> 12. Erosion <input type="checkbox"/> 13. Slope instability <input type="checkbox"/> 14. Scarps	<input type="checkbox"/> 15. Sloughs/bulges <input type="checkbox"/> 16. Depressions <input type="checkbox"/> 17. Undercutting <input type="checkbox"/> 18. Rutting/rills <input type="checkbox"/> 19. Cracks <input type="checkbox"/> 20. Scour <input type="checkbox"/> 21. Spalling	<input type="checkbox"/> 22. Displaced joints <input type="checkbox"/> 23. Deteriorated joints <input type="checkbox"/> 24. Exposed reinforcement <input type="checkbox"/> 25. Riprap needs attention <input type="checkbox"/> 26. Veg. or sediment in rip rap <input type="checkbox"/> 27. Other	<input type="checkbox"/> Vegetation <input type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Other	
Comments /Action Items Not applicable						

CCR Impoundment Inspection Report

	Actions	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Maintenance	<input type="checkbox"/> Monitoring	<input type="checkbox"/> Minor Repair	<input type="checkbox"/> Engineering
PRINCIPAL SPILLWAY	OBSERVATIONS					
	<input type="checkbox"/> No Spillway					
	Is spillway control system operating properly?					<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	PROBLEMS					CHANNEL LINING
	<input type="checkbox"/> 1. None <input type="checkbox"/> 2. Trashguard <input checked="" type="checkbox"/> 3. Debris <input checked="" type="checkbox"/> 4. Obstructed <input type="checkbox"/> 5. Plugged/Clogged <input type="checkbox"/> 6. Gates Damaged <input type="checkbox"/> 7. Gates leaking <input type="checkbox"/> 8. Gates Rusted	<input type="checkbox"/> 9. Misalignment <input type="checkbox"/> 10. Joints leaking <input type="checkbox"/> 11. Joint deterioration <input type="checkbox"/> 12. Joint displacement <input type="checkbox"/> 13. Conduit collapsed <input type="checkbox"/> 14. Exposed reinforcement <input type="checkbox"/> 15. Erosion	<input type="checkbox"/> 16. Undermining <input type="checkbox"/> 17. Voids <input type="checkbox"/> 18. Cracks <input type="checkbox"/> 19. Holes <input type="checkbox"/> 20. Spalling <input type="checkbox"/> 21. Slides <input type="checkbox"/> 22. Outlet undercutting	<input type="checkbox"/> 23. Sloughing <input type="checkbox"/> 24. Scarps <input type="checkbox"/> 25. Deteriorated lining <input type="checkbox"/> 26. Boils <input type="checkbox"/> 27. Outlet erosion <input type="checkbox"/> 28. Displaced rip rap <input type="checkbox"/> 29. Sparse rip rap <input type="checkbox"/> 30. Other	<input checked="" type="checkbox"/> Vegetation <input type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Other	
Comments /Action Items Spillway appears to be in good repair. There are no control systems so the spillway acts as both principal and emergency.						
	Actions	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Maintenance	<input type="checkbox"/> Monitoring	<input type="checkbox"/> Minor Repair	<input type="checkbox"/> Engineering
EMERGENCY SPILLWAY	OBSERVATIONS					
	<input type="checkbox"/> No emergency spillway			<input checked="" type="checkbox"/> Same as primary spillway		
	PROBLEMS					CHANNEL LINING
	<input type="checkbox"/> 1. None <input type="checkbox"/> 2. Debris in channel <input type="checkbox"/> 3. Gates <input type="checkbox"/> 4. Misalignment	<input type="checkbox"/> 5. Joint deterioration <input type="checkbox"/> 6. Joint displacement <input type="checkbox"/> 7. Exposed reinforcement <input type="checkbox"/> 8. Erosion	<input type="checkbox"/> 9. Undermining <input type="checkbox"/> 10. Voids <input type="checkbox"/> 11. Cracks <input type="checkbox"/> 12. Holes <input type="checkbox"/> 13. Outlet erosion	<input type="checkbox"/> 14. Displaced rip rap <input type="checkbox"/> 15. Sparse rip rap <input type="checkbox"/> 16. Outlet undercutting <input type="checkbox"/> 17. Inadequate capacity <input type="checkbox"/> 18. Other	<input type="checkbox"/> Vegetation <input type="checkbox"/> Rip rap <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Other	
	Comments /Action Items See Principal Spillway Above					
	Actions	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Maintenance	<input type="checkbox"/> Monitoring	<input type="checkbox"/> Minor Repair	<input type="checkbox"/> Engineering
DRAINS/OUTLET STRUCTURE	Observations					
	1. Is discharge system operating properly?					<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
	2. Valves and operators in good condition?					<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
	3. Walkway in good condition?					<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
	4. Is there any turbidity observed at the outlet?					<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
	5. Seepage at pipe outlet					<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
	6. No Bottom Drain					<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
	7. Bottom Drain Operable					<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
	8. Subsurface Drain Dry					<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
	9. Subsurface drain muddy flow					<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
	10. Subsurface drain obstructed					<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
	11. Animal guard					<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
	12. other					<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Comments /Action Items None						

CCR Impoundment Inspection Report

Actions <input checked="" type="checkbox"/> None <input type="checkbox"/> Maintenance <input type="checkbox"/> Monitoring <input type="checkbox"/> Minor Repair <input type="checkbox"/> Engineering	
RESERVIOR/POOL	OBSERVATION
	Has there been a sudden drop in the content level of the Impoundment <input type="checkbox"/>Yes <input checked="" type="checkbox"/>No
	PROBLEMS
	<input checked="" type="checkbox"/> 1. None <input type="checkbox"/> 2. Inadequate freeboard <input type="checkbox"/> 3. Skimmer <input type="checkbox"/> 4. Depressions <input type="checkbox"/> 5. Whirlpools <input type="checkbox"/> 6. Sinkholes <input checked="" type="checkbox"/> 7. Unwanted growth in pond water
Comments /Action Items Pool level has been relatively steady since observations were first begun by this inspector in late 2015. The culvert (w pipes) and lowered section to allow for equalization of water levels between the Inactive Bottom Ash Impoundment and the Coal Pile Runoff Basin were removed since the last inspection. The surrounding waters (Lake Erie, Discharge Canal) were observed to be lower than documented in the 2019 inspection (2019 was the highest water levels since inspections have begun.)	
Actions <input checked="" type="checkbox"/> None <input type="checkbox"/> Maintenance <input type="checkbox"/> Monitoring <input type="checkbox"/> Minor Repair <input type="checkbox"/> Engineering	
OTHER	OBSERVATIONS
	1. leachate/stormwater (RCP; CMP) drain pipes that pass through or under an ash basin intact? <input type="checkbox"/>Yes <input type="checkbox"/>No <input checked="" type="checkbox"/>N/A
	2. Drainage/ diversion ditches/riprap-lined channels in good condition? <input type="checkbox"/>Yes <input type="checkbox"/>No <input checked="" type="checkbox"/>N/A
	3. Other steel structures/steel reinforcement in concrete structures in good condition? <input type="checkbox"/>Yes <input type="checkbox"/>No <input checked="" type="checkbox"/>N/A
	4. Other concrete structures in good condition? <input type="checkbox"/>Yes <input type="checkbox"/>No <input checked="" type="checkbox"/>N/A
	5. Overflow pipes and flap gates on filter dam/ drain pipe filter zone in good condition? <input type="checkbox"/>Yes <input type="checkbox"/>No <input checked="" type="checkbox"/>N/A
	6. Howell Bunger Valves in good condition? <input type="checkbox"/>Yes <input type="checkbox"/>No <input checked="" type="checkbox"/>N/A
	7. Weirs in good condition? <input type="checkbox"/>Yes <input type="checkbox"/>No <input checked="" type="checkbox"/>N/A
	8. Perimeter Fences and Gates in good condition? <input checked="" type="checkbox"/>Yes <input type="checkbox"/>No <input type="checkbox"/>N/A
	9. Security devices in good condition <input type="checkbox"/>Yes <input type="checkbox"/>No <input checked="" type="checkbox"/>N/A
	10. Signs in good condition <input type="checkbox"/>Yes <input type="checkbox"/>No <input checked="" type="checkbox"/>N/A
	11. Instrumentation in good condition <input type="checkbox"/>Yes <input type="checkbox"/>No <input checked="" type="checkbox"/>N/A
	12. Reference monuments/Survey Monuments in good condition <input type="checkbox"/>Yes <input type="checkbox"/>No <input checked="" type="checkbox"/>N/A
	13. other <input type="checkbox"/>Yes <input type="checkbox"/>No <input checked="" type="checkbox"/>N/A
	Comments /Action Items
Actions <input checked="" type="checkbox"/> None <input type="checkbox"/> Maintenance <input type="checkbox"/> Monitoring <input type="checkbox"/> Minor Repair <input type="checkbox"/> Engineering	

Are there any other abnormal conditions at the Impoundment that could pose a risk to public health, safety or welfare; the environment or natural resources Yes No

Scott G. Intsell

Inspector Signature _____

Date: 07/22/20



Photo 1: Looking northwest from east edge of separation berm



Photo 2: Looking west from east access road at south separation berm.



Photo 3: Looking west south separation berm to western edge of impoundment.



Photo 4: Area along the west berm repaired with additional rip-rap since 2019 inspection. Additional aggregate placed on road since 2019 is also shown. Area near cone on north edge of photo needs to be monitored during the coming year.



Photo 5: Looking northwest from the walkway of the weir – water levels is lower than in 2019.



Photo 6: Looking north from access road on northwest side of impoundment



Photo 7: Looking east at south separation berm where the lowered area was filled in since the last inspection.



Photo 8: Looking east at riprap shore protection along Lake Erie.