DAM SYSTEM INFORMATION

Applicability and Instructions

Applicability

This form must be completed to provide information and parameters describing the characteristics of the dam system. This information shall be submitted in the permit application to construct a new dam or alter an existing dam, in accordance with Rule 62-330.301(2), Florida Administrative Code, and Section 8.4.5, *Dam Systems*, and Appendix L, *Dam Systems*, in the Applicant's Handbook Volume I. The applicant or applicant's authorized agent, as provided in Form 62-330,060(1), *Application for Individual and Conceptual Approval Environmental Resource Permit, State 404 Program Permit, and Authorization to Use State-Owned Submerged Lands*, must sign this form.

Instructions

Each parameter is hyperlinked to its definition, listed alphabetically at the bottom of this form. See the definitions for a range of acceptable answers and units of measurement. Do not leave any parameters blank. If a response is unknown, enter "UNK," or if a parameter is not applicable, enter "N/A".

Submit the completed form to the permitting agency in the application submittal and preferably email it to DamSafety@FloridaDEP.gov or mail it to the State Dam Safety Officer, Florida Department of Environmental Protection, 2600 Blair Stone Road, Mail Station 3595, Tallahassee, Florida 32399.

Dam Parameters

Part 1: General Information

1. Dam Name: 2. Other Dam Names:

3. Former Dam Name(s):

4. State Agency / Permit Number: 5. NID ID:

6. Number Separate Structures: 7. Other Structure ID:

8. Longitude: 9. Latitude:

10. Section: Township: Range:

11. County: 12. River or Stream:

13. Nearest Downstream City/Town:

14. Distance to Nearest Downstream City/Town (miles):

15. Dam Owner Name (add additional sections or sheets to record all dam owners):

Last Name: First Name:

Address:

City: State: Zip:

Landline Number: Cell Phone Number:

Email Address:

16. Dam Owner Type:

17. Landowner Name (add additional sections or sheets to record all landowner names):

Last Name: First Name:

Address:

City: State: Zip:

Phone Landline Number: Cell Phone Number:

Email:

Part 2: Specific Parameters

18. Dam Designer:

19. Non-Federal dam on Federal Property: ☐ yes ☐ no

20. Dam Type:

21. Core:

22. Foundation:

23. Dam Purpose(s):

24. Year Completed: 25. Year Modified:

26. Dam Length (feet): 27. Dam Height (feet):

28. Structural Height (feet): 29. Hydraulic Height (feet):

30. NID Height (feet):

31. Maximum Discharge (cubic feet per second):

32. Maximum Storage (acre-feet): 33. Normal Storage (acre-feet):

34. NID Storage (acre-feet): 35. Surface Area (acres):

36. Drainage Area (acres):

37. Downstream Hazard Potential:

38. Emergency Action Plan: ☐ yes ☐ no ☐ not required

39. EAP Last Revision Date:

40. Inspection Date: 41. Inspection Frequency:

42. Spillway Type: 43. Spillway Width (feet):

44. Outlet Gates:

45. Volume of Dam (cy):

46. Number of Locks (#): 47. Length of Locks (feet):

48. Width of Locks (feet):

Part 3: Supplemental Information

50. State Regulatory Agency: _____

51. Federal ID: _____

51. Federal Funding: _____

52. Federal Design: _____

53. Federal Construction: _____

54. Federal Regulatory: _____

55. Federal Inspection: _____

56. Federal Operation: _____

57. Federal Owner: _____

58. Federal Other: _____

Part 4: Condition Assessment

59. Condition Assessment: _____

60. Condition Assessment Date: _____

61. Operational Status: _____

62. Operational Status Date: _____

Part 5: Applicant or Applicant's Authorized Agent

I certify that all above information has been completed to the best of my knowledge.

_____

Typed/Printed Name

_____

Signature Date

Dam Parameter Definitions

Condition Assessment

Assessment that best describes the condition of the dam based on available information.

Satisfactory
Fair
Poor
Unsatisfactory
Not Rated

A dam safety deficiency is defined as a load capacity limit or other issue that can result in a failure of the dam or appurtenant structure. It is a characteristic or condition that does not meet the applicable minimum regulatory criteria.

Normal operations are defined as loading on the dam resulting from day-to-day pool operations to achieve authorized purposes in accordance with minimum state or federal criteria.

Condition Assessment definitions are as follows:

SATISFACTORY
No existing or potential dam safety deficiencies are recognized. Acceptable performance is expected under all loading conditions (static, hydrologic, seismic) in accordance with the minimum applicable state or federal regulatory criteria or tolerable risk guidelines.
Typical Circumstances:

- No existing deficiencies or potentially unsafe conditions are recognized, with the exception of minor operational and maintenance items that require attention.
- Safe performance is expected under all loading conditions including the design earthquake and design flood.
- Permanent risk reduction measures (reservoir restrictions, spillway modifications, operating procedures, etc.) have been implemented to eliminate identified deficiencies.

FAIR
No existing dam safety deficiencies are recognized for normal operating conditions. Rare or extreme hydrologic and/or seismic events may result in a dam safety deficiency. Risk may be in the range to take further action. Note: Rare or extreme event is defined by the regulatory agency based on their minimum applicable state criteria.
Other Circumstances:

- Lack of maintenance requires attention to prevent developing safety concerns.
- Maintenance conditions may exist that require remedial action greater than routine work and/or secondary studies or investigations.
- Interim or permanent risk reduction measures may be under consideration.

POOR
A dam safety deficiency is recognized for normal operating conditions which may realistically occur. Remedial action is necessary. This rating may also be used when uncertainties exist for critical analysis parameters used to identify a potential dam safety deficiency. Investigations and studies are necessary.
Other Circumstances:

- Dam has multiple deficiencies or a significant deficiency that requires remedial work.
- Lack of maintenance (erosion, sinkholes, settlement, cracking, unwanted vegetation, animal burrows, inoperable outlet gates) has affected the integrity or the operation of the dam under normal operational conditions and requires remedial action to resolve.
- Critical design information is needed to evaluate the potential performance of the dam. For example, a field observation or a review of the dam's performance history has

identified a question that can only be answered by review of the design and construction history for the dam. Uncertainty arises when there is no design and/or construction documentation available for review and additional analysis is needed to better understand the risk associated with operation under normal operational conditions.
- Interim or permanent risk reduction measures may be under consideration.

UNSATISFACTORY
A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
Typical Circumstances:
- A critical component of the dam has deteriorated to unacceptable condition or failed.
- A safety inspection indicates major structural distress (excessive uncontrolled seepage, cracks, slides, sinkholes, severe deterioration, etc.), advanced deterioration, or operational deficiencies which could lead to failure of the dam or its appurtenant structures under normal operating conditions.
- Reservoir restrictions or other interim risk reduction measures are required.
- A partial or complete reservoir drawdown may be mandated by the state or federal regulatory agency.

NOT RATED
The dam has not been inspected, is not under state or federal jurisdiction, or has been inspected but, for whatever reason, has not been rated.

Condition Assessment Date
Date of the most recent condition assessment of the dam.

Core
Indicates the position, type of watertight member and certainty.

Position:	Upstream Facing
	Homogeneous
	Core
	Unlisted/Unknown
Type:	Bituminous Concrete
	Concrete
	Earth
	Metal
	Plastic
	Unlisted/Unknown
Certainty:	Known
	Estimated

County
The name of the county in which the dam is located.

Dam Designer
Name of the principal firm(s) or agency accomplishing design of dam and major appurtenant operating features, and major modifications. Original designer is listed first, then modification designers (if applicable). If an Architect-Engineer Firm designed the dam under a state or federal government contract, the state or federal agency name is listed first, then the company name.

Dam Name
The official name of the dam. No abbreviations unless the abbreviation is a part of the official name. For dams that do not have an official name, the popular name is used.

Dam Height (Feet)
Height of the dam, in feet to the nearest foot, which is defined as the difference between the lowest elevation on the crest of the dam and the lowest elevation in the original streambed; or if not present, the lowest elevation of the downstream toe of the embankment.

Dam Length (Feet)
Length of the dam, in feet, which is defined as the length along the top of the dam. This also includes the spillway, powerplant, navigation lock, fish pass, etc., where these form part of the length of the dam. If detached from the dam, these structures should not be included.

Dam Owner Name (Alphanumeric)
Name(s) of the dam owner(s). If multiple owners, duplicate and complete this section for all other owners.

Dam Owner Type
Category describing the dam owner(s). List all dam owner types.

- Federal
- State
- Local Government
- Public Utility
- Private
- Tribe
- Not Listed

Local Government should have taxing authority or is supported by taxes. A Lake District is supported by taxes and considered Local Government. A lake association that is supported by association dues, would be Private.

Dam Purpose
Category describing the current purpose(s) for which the reservoir is used. List the most important purpose first.

- Debris Control
- Fire Protection, Stock, or Small Farm Pond
- Fish and Wildlife Pond
- Flood Risk Reduction
- Grade Stabilization
- Hydroelectric
- Irrigation
- Navigation
- Recreation
- Tailings
- Water Supply
- Other

Dam Type
Category describing the main type of dam. If more than one type, the most dominant used is listed first.

- Arch

Buttress
Concrete
Earth
Gravity
Masonry
Multi-Arch
Rockfill
Roller-Compacted Concrete
Stone
Timber Crib
Other

Date of Last Revision of Emergency Action Plan

Date of the most recent revision of the Emergency Action Plan.

Distance to Nearest City/Town (Miles)

Distance from the dam to the nearest affected downstream city/town/village (listed in the Nearest Downstream City/Town), to the nearest mile (and tenth, if appropriate).

Downstream Hazard Potential

Category indicating the potential hazard to the surrounding and downstream areas of a dam and its appurtenant structures should they fail or be mis-operated. The categories reflect probable loss of human life and impacts on economic, environmental, lifeline interests, and other concerns, such as water quality degradation. The hazard potential does not indicate the current condition of the dam or the risk of it failing.

The four categories are listed below and their definitions follow.

Low Hazard Potential
Significant Hazard Potential
High Hazard Potential
Undetermined

LOW HAZARD POTENTIAL
Failure or mis-operation is not expected to result in loss of human life and may result in low economic and/or environmental losses, that are largely limited to the owner's property.

SIGNIFICANT HAZARD POTENTIAL
Failure or mis-operation would not be expected to probably result in loss of human life, but can cause economic loss, environmental damage, disruption of lifeline interests, or impact other concerns, such as water quality degradation.

HIGH HAZARD POTENTIAL
Failure or mis-operation of the dam will probably cause the loss of human life. Economic, environmental, and lifeline losses may also occur, but they are not necessary for this classification.

Downstream Hazard Potential	Loss of Human Life	Economic, Environmental, & Lifeline Losses
High	Probable	Yes, but not necessary
Significant	None expected	Yes
Low	None expected	Low and generally limited to owner's property

UNDETERMINED HAZARD POTENTIAL
Dams for which a Downstream Hazard Potential, as defined above, has not been designated or is not provided.

Drainage Area (Square Miles)
Drainage area of the dam, in square miles, which is defined as the area that drains to the dam reservoir(s).

Emergency Action Plan
Indicates whether this dam has an Emergency Action Plan (EAP). An EAP is defined as a plan of action to be taken to reduce the potential for loss of human life and impacts to economic, environmental, and lifeline interests, and other concerns, such as water quality degradation, from failure or mis-operation of a dam or its appurtenant structures.

Yes
Not Required (because the dam is a Low Hazard Potential dam)

Federal Agency Involvement in Construction
Name(s) of federal agency involved in the construction of the dam.

Federal Agency Involvement in Design
Name(s) of federal agency that was involved in the design of the dam.

Federal Agency Involvement in Funding
Name(s) of federal agency that was involved in funding the dam.

Federal Agency Involvement in Inspection
Name(s) of federal agency that is involved in the inspection of the dam.

Federal Agency Involvement in Operation
Name(s) of federal agency that is involved in the operation of the dam.

Federal Agency Involvement – Other
Name(s) of federal agency that is involved in other aspects of the dam.

Federal Agency Involvement in Regulatory
Name(s) of federal agency that is involved in the regulation of the dam.

Federal Agency Owner
Name(s) of federal agency that partly or wholly owns the dam.

Federal ID
The unique identifier for each dam record. For saddle dams, dikes or other separate structures associated with the dam project, it is a concatenation of the primary dam's NID ID and the Other Structure ID. For all other dams, it is the NID ID.

Former Dam Name
Previous reservoir or dam name(s), if changed or combined into one dam system.

Foundation
The material upon which the dam is founded, and certainty.

Foundation: Rock
Rock and soil
Soil
Unlisted/Unknown

Certainty: Known
Estimated

Hydraulic Height (Feet)
Hydraulic height of the dam, in feet to the nearest foot, which is defined as the vertical difference between the maximum design water level and the lowest point in the original streambed or if not present, the lowest elevation of the downstream toe of the embankment.

Inspection Date
Date of the most recent inspection of the dam.

Inspection Frequency
The scheduled frequency interval for periodic inspections, in years.

Landowner Name(s)
Name(s) of the owner(s) of the land where the dam is located, if different than the dam owner. If multiple owners, duplicate and complete this section for all other owners.

Latitude
Latitude at dam centerline as a single value in decimal degrees, as measured by the North American Datum of 1983 (NAD83).

Length of Locks (Feet)
Length of the primary navigation lock to the nearest foot.

Lock Width (Feet)
Width of the primary navigation lock to the nearest foot.

Longitude
Longitude at dam centerline as a single value in decimal degrees, as measured by the North American Datum of 1983 (NAD83).

Maximum Discharge (Cubic Feet/Second)
Spillway discharge rate, in cubic feet per second, when the reservoir is at its maximum designed water surface elevation.

Maximum Storage (Acre-Feet)
Maximum storage is defined as the total storage space in a reservoir below the maximum attainable water level, including any surcharge storage (storage between the emergency spillway crest and top of dam). Maximum storage shall be calculated by using one of the two methods shown below that is most representative of the actual storage volume. The dam height may be used as a surrogate for maximum depth if the depth is unknown.

- Using the Average End Area Method (volume (acre-feet) = length (feet) x (A1 + A2 (end areas (acre)) /2))
- Multiplying the maximum depth of the waterbody times the surface area of the waterbody times four tenths (impoundment storage (acre-feet) = depth (feet) x surface area (acre) x 0.4) (as provided in Title 210 – National Engineering Handbook, Part 650 Engineering Field Handbook, Chapter 11, *Ponds and Reservoirs*, United States Department of Agriculture Natural Resources Conservation Service).

Nearest Downstream City/Town

Name of the nearest downstream city, town, or village that is most likely to be affected by floods resulting from the failure of the dam.

NID Height (Feet)

Maximum value of either Dam Height, Structural Height, or Hydraulic Height. Accepted as the general height of the dam.

NID ID

The official National Inventory of Dams (NID) identification (ID) number for the dam. If the dam meets the NID criteria and it does not already have a NID ID, it will be assigned one by the State Dam Safety Officer. This field is used as the unique identifier for each NID dam.

NID Storage (Acre-Feet)

Maximum value of either Normal Storage or Maximum Storage. Accepted as the general storage of the dam.

Non-Federal Dam On Federal Property

Indicate yes or no whether this dam is a non-federal dam located on federal property.

Normal Storage (Acre-Feet)

Normal storage, in acre-feet, is defined as the total storage space in a reservoir below the normal retention level, including dead and inactive storage and excluding any flood control or surcharge storage. For normally dry flood control dams, the normal storage will be zero. If unknown, enter *UNK* and not zero.

Number of Separate Structures

Number of separate structures associated with this dam project. Include saddle dams (or dikes), which are subsidiary dams of any type constructed across a saddle or low point on the perimeter of a reservoir, as defined in FEMA 148: *Federal Guidelines for Dam Safety*, Glossary of Terms. Do not include the number of appurtenant works which are defined as, but not limited to, such structures as spillways, either in the dam or separate there from; the reservoir or its rim; low level outlet works; and water conduits, such as tunnels, pipelines or penstocks, either through the dam or its abutments.

Number of Locks

Number of existing navigation locks for the project.

Operational Status

The category that best describes the operational or remediation activities of the dam based on available information.

_____ Normal Operations
_____ Under Investigation, Planning, Permitting, or Design for Remediation
_____ Under Remediation
_____ Enforcement Pending/Ongoing
_____ Not Applicable.

A dam safety deficiency is defined as a load capacity limit or other issue that can result in a failure of the dam or appurtenant structure. It is a characteristic or condition that does not meet the applicable minimum regulatory criteria.

Operational Status definitions are as follows:

NORMAL OPERATIONS
No existing or potential dam safety deficiencies are recognized. Dam is operating without restrictions. Applies to dams with a Satisfactory or Fair Condition Assessment.

The Operational Status categories below apply to dams with a Fair, Poor, or Unsatisfactory Condition Assessment.

UNDER INVESTIGATION, PLANNING, PERMITTING, OR DESIGN FOR REMEDIATION
A dam safety deficiency is recognized but uncertainties may exist. Dam remediation plan is currently under investigation, planning, permitting or design review. Temporary risk reduction measures, such as reservoir restrictions or early warning systems, may be in place to decrease the risk caused by the known deficiencies.

UNDER REMEDIATION
A dam safety deficiency is recognized. Temporary risk reduction measures, such as reservoir restrictions, may be in place to decrease the risk caused by the known deficiencies. Active remedial measures or construction are occurring to correct the known deficiencies.

ENFORCEMENT PENDING / ONGOING
A dam safety deficiency is recognized. Dam owner is unresponsive and not taking risk reduction or remediation measures to make the dam meet applicable regulatory criteria. Regulatory agency may be already taking enforcement action against the dam owner.

NOT APPLICABLE
The dam has not been inspected, is not under state or federal jurisdiction, or has been inspected but has not been assigned a condition assessment. Applies to dams with no Condition Assessment.

Operational Status Date
Date of the most recent assessment of the operational status.

Other Dam Names
Names other than the official name (for example, reservoir name), of the dam in common use.

Other Structure ID
The identification number (S001, S002, etc.) of a separate structure, such as a saddle dam or dike, associated with the dam project. This field only applies to saddle dams, dikes or other separate structures associated with a primary dam.

Outlet Gates
Category describing the type of (1) spillway and (2) controlled outlet gates, if any. List outlet gates in decreasing size order, followed by number of gates.

None
Uncontrolled
Tainter (radial)
Vertical Lift
Roller
Bascule
Drum
Needle
Flap
Slide (sluice gate)
Valve
Other controlled

River or Stream

The official name of the river or stream on which the dam is built. If the stream is unnamed, identify it as a tributary (-TR) to a named river or stream, e.g., *Snake-TR.* If the dam is located offstream, enter the name of the river or stream plus "-OS", e.g., *Snake-OS.*

Section, Township, Range Location

This information provides the dam location identified in the Public Land Survey System, such as, *S05 T01S R01E.* If the prime meridian location is needed to locate the dam within the state, include it in the field, e.g., *S05 T01S R01E (Sixth Prime Meridian)*.

Spillway Type

Category describing the type of spillway.

Controlled
Uncontrolled
None

Spillway Width

The width of the spillway, to the nearest foot, available for discharge when the reservoir is at its maximum designed water surface elevation. Typically for an open channel spillway, this is the bottom width. For pipe spillways or drop inlets that have diameters, use the diameter of the pipe.

State Agency / Permit Number

Name of State permitting agency and permit number, if permitted.

State Regulatory Agency

Name of the primary state agency with regulatory or approval authority over the dam. In most cases, this is the Water Management District where the dam is located or a specific Florida Department of Environmental Protection program.

Structural Height (Feet)

Structural height of the dam, in feet to the nearest foot, which is defined as the vertical distance from the lowest point of the excavated foundation to the top of the dam. Top of dam refers to the parapet wall and not the crest.

Surface Area (Acres)

Surface area, in acres, of the impoundment at its normal water level.

Volume of Dam (Cubic yards)

Total number of cubic yards occupied by the materials used in the dam structure. Portions of powerhouse, locks, and spillways are included only if they are an integral part of the dam and required for structural stability.

Year Completed

Year (four digits) when the original main dam structure was completed. If unknown, and a reasonable estimate is unavailable, enter *UNK*.

Year Modified

Year (four digits) when major modifications or rehabilitation of dam or major control structures were completed. Major modifications are defined as a structural, foundation, or mechanical construction activity which significantly restores the project to original condition; changes the project's operation; capacity or structural characteristics (for example, spillway rehabilitation); or increases the longevity, stability, or safety of the dam and appurtenant structures.

Follow the year with the category describing the type of modification.

Foundation
Hydraulic
Mechanical
Seismic
Structural
Other

Certification Of Financial Capability For Perpetual Operations And Maintenance Entities

Permit No.: _____ Application No.: _____ Date Issued (if modification): _____

Identification or Name of Stormwater Management System: _____

Phase of Stormwater Management System (if applicable): _____

Name of Operation and Maintenance Entity: _____

Address of Operation and Maintenance Entity: _____

_____

☐ Cost estimate attached

Total annual operating expenses, including maintenance costs, for the estimated remaining useful life of the system accounting for annualized capital or replacement costs or deferred maintenance expenses for the system, including those components where maintenance or replacement frequencies are less frequent that once per year, for each BMP in the stormwater management system and any associated infrastructure, in current year dollars.

_____

Operation and Maintenance Entity (Select All That Apply):

☐ Local, state, or federal government agencies; municipal service other special taxing units, water control or drainage districts; community development, special assessment, or water management districts

☐ Communication, water, sewer, stormwater, electrical, or other public utility

☐ Construction permittee (see Section 12, Volume I)

☐ Non-profit corporations, including homeowners' associations, property owners' associations, condominium owners' or master associations

☐ Other (Describe the Other Operation and Maintenance Entity below)

_____

Information and money allocated to the financial assurance mechanism to be attached to this form. If multiple regulatory entities require a financial assurance mechanism, the Permittee must obtain separate mechanisms for each entity.

Certification by Operation and Maintenance Entity:

Certification Provisions for the Operation and Maintenance Entity (Select All That Apply):

☐ Municipal Separate Storm Sewer System (MS4) permittee subject to Chapter 62-624, F.A.C. (Identify the applicable Florida Department of Environmental MS4 permit below:)

_____

Certification Of Financial Capability For Perpetual Operations And Maintenance Entities

☐ Non-profit corporation subject to the Homeowners' Association Act under Chapter 720, Florida Statutes

☐ Application for a construction permittee that will not be the Operation and Maintenance Entity. (Identify the intended Operation and Maintenance Entity below:)

_____

The below Permittee or Operation and Maintenance Entity certifies that this form is true, accurate, and complete; and that it has the financial capability to operate and maintain the system in perpetuity including costs of inspections, operation, repair, and replacement of the system once the system meets its expected life. The signee below will be responsible for all maintenance, operation, and repair costs for the stormwater system of the above permit in perpetuity, until such time the system is properly abandoned, or the permit is transferred to a new operation and maintenance entity.

Name of Permittee or Operation and Maintenance Entity: _____

Name: _____ Title: _____

Signature: _____ Date _____

Request for Transfer of Environmental Resource Permit to the Perpetual Operation and Maintenance Entity

Instructions: Complete this form to transfer the permit to the operation and maintenance entity. This form can be completed concurrently with, or within 30 days of approval of, the As-Built Certification and Request for Conversion to Operation Phase (Form 62-330.310(1)). Please include all documentation required under Section 12.2.1(b) of Applicant's Handbook Volume I (see checklist below). **Failure to submit the appropriate final documents will result in the permittee remaining liable for operation and maintenance of the permitted activities.**

Permit No.: Application No(s):

Project Name: Phase (if applicable):

A. Request to Transfer: The permittee requests that the permit be transferred to the legal entity responsible for operation and maintenance (O&M).

By: _____ _____
Signature of Permittee — Name and Title

_____ _____
Company Name — Company Address

_____ _____
Phone/email address — City, State, Zip

B. Agreement for System Operation and Maintenance Responsibility: The below-named legal entity agrees to operate and maintain the works or activities in compliance with all permit conditions and provisions of Chapter 62-330, Florida Administrative Code (F.A.C.) and Applicant's Handbook Volumes I and II.

The operation and maintenance entity does not need to sign this form if it is the same entity that was approved for operation and maintenance in the issued permit.

Authorization for any proposed modification to the permitted activities shall be applied for and obtained prior to conducting such modification.

By: _____ _____
Signature of Representative of O&M Entity — Name of Entity for O&M

_____ _____
Name and Title — Address

_____ _____
Email Address — City, State, Zip

_____ _____
Phone — Date

Enclosed are the following documents, as applicable:

☐ Copy of recorded transfer of title to the operating entity for the common areas on which the stormwater management system is located (unless dedicated by plat)
☐ Copy of all recorded plats
☐ Copy of recorded declaration of covenants and restrictions, amendments, and associated exhibits
☐ Copy of filed articles of incorporation (if filed before 1995)
☐ Copy of operation and maintenance plan
☐ Copy of the cost estimate required under Section 12.3 of Applicant's Handbook Volume I

☐ Copy of signed Form 62-330.301(26), “Certification of Financial Capability for Perpetual Operations and Maintenance Entities”

☐ Completed documentation that the operating entity meets the requirements of Section 12.3 of ~~Environmental Resource Permit~~ Applicant’s Handbook Volume I. (Note: this is optional, but aids in processing of this request)

OPERATION AND MAINTENANCE INSPECTION CERTIFICATION

Instructions: Submit this form to the Agency within 30 days of completion of the inspection, or after any failure of a stormwater management system or deviation from the permit. This form ~~may also~~ will be used to document inspections required under Section ~~12.4~~ 12.5 of Applicant's Handbook Volume I~~, however submittal to the Agency is not required unless requested by the Agency~~.

Permit No.: _____ Application No.: _____ Date Issued: _____

Identification or Name of Stormwater Management System: _____

Phase of Stormwater Management System (if applicable): _____

Inspection Date: _____

Included Documentation: (check all that are attached)

☐ Form 62-330.311(X) "Inspection Checklist" (Required for permitted inspection frequency)

☐ Updated O&M cost estimate

☐ Updated O&M Plan

☐ Monitoring Reports

Inspection results: (check all that apply)

☐ The undersigned hereby certifies that the works or activities are functioning in substantial conformance with the permit. This certification is based upon on-site observation of the system conducted by me or my designee under my direct supervision and my review of as-built plans.

☐ The following maintenance was conducted since the last inspection (attach additional pages if needed):

_____

☐ The undersigned hereby certifies that I or my designee under my direct supervision has inspected this surface water management system and the system does not appear to be functioning in substantial conformance with the permit. I am aware that maintenance or alteration is required to bring the system into substantial compliance with the terms and conditions of the permit. As appropriate, I have informed the owner of the following:

a) The system does not appear to be functioning properly;
b) That maintenance or repair is required to bring the system into compliance; and
c) If maintenance or repair measures are not adequate to bring the system into compliance, the system may have to be replaced or an alternative design constructed subsequent to approval by the agency below.

The following components of the system do not appear to be functioning properly (attach additional pages if needed):

_____

Any components of the constructed system that are not in substantial conformance with the permitted system shall require a written request to modify the permit in accordance with the provisions of Rule 62-330.315, F.A.C. If such modification request is not approved by the agency

OPERATION AND MAINTENANCE INSPECTION CERTIFICATION

below, the components of the system that are not in conformance with the permit are subject to enforcement action under Sections 373.119, 373.129, 373.136, and 373.430, F.S.

Name of Inspector:_____ Florida Registration Number Or Qualified Inspector Number: _____

Entity providing Inspector Training: _____

Date of completion of Inspector Training: _____

Inspector's Company Name:_____

Mailing Address: _____

City: State: Zip Code:

Phone: Fax: Email:

Signature of Inspector _____ Date_____

Report Reviewed by Permittee:

Name of Permittee: _____

Signature of Permittee_____ Date_____

Title (if any) _____

Stormwater Facility
Inspection Checklist

Instructions

Prior to the inspection, the Inspector should review the permit for the facility and the design or as-built drawing for the facility.

This inspection checklist is required for the documentation of the annual inspection of all permitted stormwater systems. Complete all parts of the general data section for the project site. Attach any additional required documentation, if necessary. In the "All Technologies" category, mark all items as "satisfactory" or "unsatisfactory." For all other categories, either select "N/A" and minimize the category or mark all inspection items as "satisfactory" or "unsatisfactory." If the system described does not contain a component that is listed for inspection mark that item as "N/A"

For any item marked unsatisfactory, provide a comment below the BMP technology describing maintenance action needed to bring the system back into compliance. Within 30 days of any failure of a stormwater management system or if any components of the constructed system are found to be not in substantial conformance with the permitted system, a report shall be submitted by the permittee or their authorized representative to the Agency using Form 62-330.311(1), "Operation and Maintenance Inspection Certification," ({effective date}), as per 62-330.331(2) F.A.C., describing the remedial actions taken to resolve the failure or deviation.

Inspection reports will be submitted by the permittee or their authorized representative to the applicable permitting agency. Each inspection report must be signed by a certified inspector or a registered professional to certify its authenticity.

Inspection Checklist

General Data

Inspection Date _____ Project Name _____
Location _____ Permit Number _____

Time since last storm event ☐<24 hours ☐24-48 hours ☐48-72 hours ☐>72 hours
Permit Holder _____ Permit Effective Date _____
Inspector Name _____
Inspector Contact Information _____

Multiple BMP types in the system No ☐Yes ☐ List All: _____
_____
_____

Permit drawings have been reviewed No ☐Yes☐
Additional Photos Attached ☐ N/A ☐
Compliance Activity Record Attached ☐ N/A ☐

All (or other unlisted) Technologies

Items for inspection	Satisfactory	Unsatisfactory
General		
BMPs and treatment facilities are in good repair and operational	☐	☐
BMPs and treatment facilities are free from debris buildup that may impair function	☐	☐
Berms, embankments, curbing, or other methods used to impound, divert, and direct discharges are adequate and in good condition	☐	☐
The discharge (if any) is free of floating materials, visible oil sheen, discoloration, turbidity, odor, foam, or any other signs of contamination	☐	☐
Vegetation		
Mowing done when needed	☐	☐
Grass clippings removed	☐	☐
No evidence of erosion	☐	☐
Inlets		
Good condition, no need for repair	☐	☐
No evidence of erosion*	☐	☐
Outlets/overflow spillway		
Good condition, no need for repair	☐	☐
No evidence of erosion*	☐	☐

Comments: _____

Traditional BMPS

Swales N/A ☐

Items for inspection	Satisfactory	Unsatisfactory
Debris Cleanout		
Swales and contributing areas clear of debris*	☐	☐
Vegetation		
No evidence of erosion*	☐	☐
No weeds or invasive plants present	☐	☐
No evidence of nutrient deficiency	☐	☐
No evidence of disease	☐	☐
Grasses/sod are not in need of replanting/resodding	☐	☐
No signs of drought stress	☐	☐
No signs of plant overgrowth	☐	☐
Recovery		
Swale recovers between storms within permitted timeframe	☐	☐
Swale clean of sediments		
Good condition, no need for repair	☐	☐
No areas of sediment buildup*	☐	☐
No evidence of erosion*	☐	☐
Inlet Structure / Pretreatment:		
Good condition, no need for repair	☐	☐
No trash/debris/sediment in or around inlet structures*	☐	☐
No evidence that runoff is short-circuiting the inlet	☐	☐

Emergency Overflow / Outlet Structure		
Good condition, no need for repair	☐	☐
No evidence of accumulation of trash, debris, or sediment in or around outlet structure(s)*	☐	☐
No evidence of erosion, or flooding around structures*	☐	☐
Swale Blocks N/A ☐		
If swale blocks or other structures are present, there is no evidence of erosion at downstream toe of structure*	☐	☐

Comments: _____

Wet Pond N/A ☐

Type of wet pond _____

Items for inspection	Satisfactory	Unsatisfactory
Vegetation		
No signs of damage from animal activity	☐	☐
No signs of stress or disease	☐	☐
No emergent invasive plant life	☐	☐
No areas need replanting	☐	☐
Dead plant material is removed, if necessary	☐	☐
Upland banks are maintained		
Structural		
Embankment condition	☐	☐
Side slopes are stable	☐	☐
Fences/access repairs		
Fence(s) condition	☐	☐
Lock(s) and gate(s) function are adequate	☐	☐
Inlets		
Inlet(s) condition	☐	☐
Runoff is not short-circuiting the inlet	☐	☐
No evidence of trash/debris/sediment in or around inlet *	☐	☐
No evidence of erosion, gullies, rills, or flooding around inlet *	☐	☐
Outlets/overflow spillway/ drain gate		
Outlet(s) condition	☐	☐
No evidence of trash/debris/sediment in or around outlet *	☐	☐
No evidence of erosion, gullies, rills, or flooding around outlet *	☐	☐
Weir System: drawdown and overflow weir		
Weir system condition	☐	☐
No evidence of clogging *	☐	☐
Clear of debris*	☐	☐

Comments: _____

Dry Pond N/A ☐

Type of dry pond _____

Items for inspection	Satisfactory	Unsatisfactory
Debris Cleanout		
Basin bottom clear of debris*	☐	☐
Emergency spillway clear of debris*	☐	☐
Recovery		
Pond recovers between storms	☐	☐
Vegetation		
No signs of damage from animal activity	☐	☐
No signs of stress or disease	☐	☐
No emergent invasive plant life	☐	☐
Does not need replanting	☐	☐
Not overgrown	☐	☐
Sediment cleanout of pond		
No evidence of sedimentation in pond	☐	☐
No evidence of erosion at downstream toe	☐	☐
Structural		
Embankment condition	☐	☐
Side slopes are stable	☐	☐
Fences/access repairs		
Fence(s) condition	☐	☐
Lock(s) and gate(s) function adequate	☐	☐
Underdrain/side bank Filters		
Cleanout caps present and in good condition	☐	☐
No evidence of clogging	☐	☐
No evidence of erosion over or adjacent to filter*	☐	☐
Inlets		
Inlet(s) condition	☐	☐
No evidence of erosion, gullies, rills, or flooding around inlet*	☐	☐
Outlets/overflow spillway		
Outlet(s) condition	☐	☐
No evidence of erosion, gullies, rills, or flooding around outlet*	☐	☐

Comments: _____

Exfiltration Trench N/A ☐

Items for inspection	Satisfactory	Unsatisfactory
Debris Cleanout		
Trench surface clear of debris*	☐	☐
Inlet areas clear of debris*	☐	☐
Inflow pipes clear of debris*	☐	☐
Overflow spillway clear of debris*	☐	☐
Sediment traps or forebays		
Sufficiently trapping sediment	☐	☐
Has additional storage capacity available until next maintenance action	☐	☐
Sediment buildup has been removed	☐	☐
Vegetation		

Water does not stand on vegetative surface	☐	☐
Good vegetative cover exists	☐	☐
Recovery		
Trench recovers between storms	☐	☐
Sediment cleanout of trench		
No evidence of sedimentation in trench*	☐	☐
Inlets		
Inlet intake(s) functioning adequately	☐	☐
Inlet(s) condition	☐	☐
No evidence of flooding around inlet	☐	☐
Outlets/overflow spillway		
Outlet(s) condition	☐	☐
No evidence of flooding around outlet	☐	☐
Structural		
Embankment condition	☐	☐
Side slopes are stable	☐	☐
Aggregate repairs		
Surface of aggregate clean	☐	☐
Top layer of stone does not need replacement	☐	☐
Trench does not need rehabilitation	☐	☐

Comments: _____

Pervious Pavers/Pavement N/A ☐

Items for inspection	Satisfactory	Unsatisfactory
Debris Cleanout		
Paving area clean of debris*	☐	☐
Site Area		
Drainage area contains stable soil that will not clog pavers	☐	☐
Vegetation on site healthy and glass clippings removed	☐	☐
Runoff is not short-circuiting the pavers	☐	☐
No evidence of erosion, gullies, or rills around site	☐	☐
Infiltration		
Infiltrometer Test meets requirements	☐	☐
Recovery		
Pervious paving recovers between storms	☐	☐
No evidence of clogging or standing water	☐	☐
Sediments		
Pavement area clean of sediments	☐	☐
Area vacuum swept on a periodic basis	☐	☐
Structural Integrity		
No evidence of surface deterioration	☐	☐
No evidence of rutting or spalling	☐	☐
No evidence of pavement settling	☐	☐
No evidence of missing aggregate between pavers	☐	☐

Outlets		
Outlet(s) condition	☐	☐
No evidence of clogging	☐	☐
Clean out caps present if included	☐	☐
Vegetation cells N/A ☐		
Vegetation healthy	☐	☐
Vegetation not overgrown	☐	☐
No grass clippings present *	☐	☐

Comments: _____

Stormwater Vaults or Tanks N/A ☐

Items for inspection	Satisfactory	Unsatisfactory
Debris Cleanout		
Paving area clean of debris*	☐	☐
Recovery		
Recovers between storms	☐	☐
No evidence of standing water	☐	☐
No nuisance flooding evident	☐	☐
Sediments		
Clear of sediments*	☐	☐
Structural Integrity		
No evidence of surface deterioration	☐	☐
No evidence of cracking	☐	☐
No evidence of rutting or spalling	☐	☐
Safety		
Ladders functioning and in good repair	☐	☐
Adequate venting for access	☐	☐
Contains primary and secondary access	☐	☐
Inlets		
Inlet(s) condition	☐	☐
No evidence of scouring	☐	☐
Outlets		
Outlet(s) condition	☐	☐
No evidence of erosion *	☐	☐
No evidence of clogging	☐	☐

Comments: _____

Constructed Marsh System N/A ☐

Items for inspection	Satisfactory	Unsatisfactory
Debris Cleanout		
Marsh System clear of debris*	☐	☐
Vegetation		
Appears healthy	☐	☐

No emergent invasive plant life	☐	☐
No signs of damage from animal activity	☐	☐
No signs of stress or disease	☐	☐
No areas need replanting	☐	☐
Dead plant material removed, as necessary	☐	☐
Upland banks are maintained	☐	☐
Flow		
No signs of channeling or erosion *	☐	☐
Maintains minimum permitted water elevation	☐	☐
No signs of drought or short-circuiting	☐	☐
Inlets		
Inlet(s) condition	☐	☐
Runoff is not short-circuiting the inlet	☐	☐
No evidence of trash/debris/sediment in or around inlet *	☐	☐
No evidence of erosion, gullies, rills, or flooding around inlet *	☐	☐
Vegetation around inlet in good condition	☐	☐
Outlets/emergency outflow N/A ☐		
Outlet(s) condition	☐	☐
No evidence of trash/debris/sediment in or around outlet *	☐	☐
No evidence of erosion, gullies, rills, or flooding around outlet *	☐	☐
Weir System or Level Spreader N/A ☐		
Weir system condition	☐	☐
No evidence of clogging	☐	☐
Clear of debris*	☐	☐

Comments: _____

Vegetative Natural Buffers N/A ☐

Items for inspection	Satisfactory	Unsatisfactory
Debris Cleanout		
Buffer clear of debris*	☐	☐
Vegetation		
Vegetation healthy	☐	☐
No emergent invasive plant life	☐	☐
No signs of damage from animal activity	☐	☐
No signs of stress or disease	☐	☐
No areas need replanting	☐	☐
Dead plant material removed, as necessary	☐	☐
Upland banks are maintained	☐	☐
Flow		
No signs of channeling or erosion *	☐	☐
Maintain minimum permitted water elevation	☐	☐
No signs of drought or prolonged ponding	☐	☐
Inlets		
Inlet(s) condition	☐	☐
Runoff is not short Circuiting the inlet	☐	☐

No evidence of trash/debris/sediment in or around inlet *	☐	☐
No evidence of erosion, gullies, rills, or flooding around inlet *	☐	☐
Vegetation around inlet in good condition	☐	☐
Outlets/emergency outflow N/A ☐		
Outlet(s) condition	☐	☐
No evidence of trash/debris/sediment in or around outlet *	☐	☐
No evidence of erosion, gullies, rills, or flooding around outlet *	☐	☐

Comments: _____

Green Roof N/A ☐

Items for inspection	Satisfactory	Unsatisfactory
Debris Cleanout		
Vegetated area clear of debris*	☐	☐
Dewatering		
Recovers between storms	☐	☐
No evidence of ponding or inundation	☐	☐
Structural		
Constructed elements condition	☐	☐
No evidence of roof leaks	☐	☐
No evidence of exposed or actively eroding areas	☐	☐
Dispersal system/sprinkler N/A ☐		
Dispersal system/sprinkler functioning as intended	☐	☐
Piping in good repair	☐	☐
Pumps functioning as intended	☐	☐
Cistern tank functioning as intended	☐	☐
Overflow functioning as intended	☐	☐
Vegetation		
Vegetation healthy	☐	☐
No emergent invasive plant life	☐	☐
No signs of nutrient deficiency/disease	☐	☐
No areas need replanting	☐	☐
Inlets/Catchments		
Inlet(s) condition	☐	☐
No evidence of erosion*	☐	☐
No evidence of clogging	☐	☐
Outlets		
Outlet(s) condition	☐	☐
No evidence of trash/debris/sediment in or around outlet*	☐	☐
No evidence of erosion or flooding *	☐	☐
No evidence of bypassing	☐	☐

Comments: _____

Cistern N/A ☐

Items for inspection	Satisfactory	Unsatisfactory
Site area		

No evidence of clogging flow paths or pipes *	☐	☐
Structural		
Constructed elements condition	☐	☐
Condition of foundation if above ground	☐	☐
No evidence of leaks	☐	☐
No evidence of algal growth in cistern	☐	☐
No evidence of prolonged storage	☐	☐
Vegetation		
Trees appear healthy	☐	☐
Trees do not need replacing or pruning	☐	☐
No emergent invasive plant life	☐	☐
Inlets		
Inlet(s) condition	☐	☐
Runoff is not bypassing the inlet(s)	☐	☐
No evidence of trash/debris/sediment in or around inlet *	☐	☐
No evidence of erosion, gullies, rills, or flooding around inlet *	☐	☐
Screen and/or trap is secured and functioning properly	☐	☐
Screen and/or trap is clear of debris build up *	☐	☐
First flush collector (if present) clear of debris and properly functioning	☐	☐
Outlets/emergency overflow		
Outlet(s) condition	☐	☐
No evidence of trash/debris/sediment in or around outlet*	☐	☐
No evidence of erosion or flooding *	☐	☐
Pump N/A ☐		
Float switch functional	☐	☐
Pump functional	☐	☐
Healthy vegetation, if used for irrigation	☐	☐

Comments: _____

Tree Box or Tree Well N/A ☐

Items for inspection	Satisfactory	Unsatisfactory
Site area		
Area clear of excess debris*	☐	☐
No evidence of erosion*	☐	☐
Structural		
Constructed elements condition	☐	☐
Device dewaters between storms	☐	☐
No evidence of inundation	☐	☐
No evidence of sediment build up *	☐	☐
Vegetation		
Tree(s) appears healthy	☐	☐
Tree(s) do not need replacing or pruning	☐	☐
No emergent invasive plant life	☐	☐

Inlets		
Inlet(s) condition	☐	☐
Runoff is not bypassing the inlet	☐	☐
No evidence of trash/debris/sediment in or around inlet *	☐	☐
No evidence of erosion, gullies, rills, or flooding around inlet *	☐	☐
Outlets/emergency overflow		
Outlet(s) condition	☐	☐
No evidence of trash/debris/sediment in or around outlet*	☐	☐
No evidence of erosion or flooding *	☐	☐
Underdrain, if installed		
All cleanouts clear from clogging or blockages *	☐	☐
Cleanouts in good condition	☐	☐

Comments: _____

Bioswale or Raingarden N/A ☐

Type of LID(s) _____

Items for inspection	Satisfactory	Unsatisfactory
Site area		
Area clear of excess debris*	☐	☐
No evidence of erosion or sedimentation *	☐	☐
Dewatering		
Ponding dewaters between storms	☐	☐
No evidence of inundation	☐	☐
Sediment cleanout		
No evidence of sedimentation	☐	☐
Structural		
Constructed elements condition	☐	☐
Mulch depth at least 2 inches	☐	☐
No evidence of damage from wildlife	☐	☐
No evidence of erosion*	☐	☐
No sediment build-up*	☐	☐
Vegetation		
Vegetation healthy	☐	☐
No emergent invasive plant life	☐	☐
No areas need replanting	☐	☐
Not overgrown	☐	☐
Inlets		
Inlet(s) condition	☐	☐
Runoff is not short-circuiting the inlet area	☐	☐
No evidence of trash/debris/sediment in or around inlet area*	☐	☐
No evidence of erosion, gullies, rills, or flooding around inlet area*	☐	☐
Plant life around inlets condition	☐	☐
Outlets/overflow spillway		
Outlet(s) condition	☐	☐
No evidence of trash/debris/sediment in or around outlet*	☐	☐

No evidence of erosion or flooding *	☐	☐
Underdrain N/A ☐		
All cleanouts clear form clogging or blockages	☐	☐
Cleanouts in good condition	☐	☐

Comments: _____

Non-Traditional BMPS

Other Manufactured BMPs N/A ☐

Type of System _____

Items for inspection	Satisfactory	Unsatisfactory
Functioning based on permit and manufacturer specifications	☐	☐
No evidence of damage or clogging	☐	☐

Comments: _____

Monitoring Devices and Adaptive Controls N/A ☐

Type of Monitoring Device(s) _____

Items for inspection	Satisfactory	Unsatisfactory
Computer components		
Functioning as intended	☐	☐
Recording data at permitted intervals	☐	☐
No signs of rusting, corrosion, or other weather damage	☐	☐

Comments: _____

* That May Impair Function

Signature

Inspector Name: _____
Signature of Inspector: _____
Florida Registration Number: _____

Purpose and Content

Purpose

This Condition Assessment Report (CAR) shall be completed in compliance with Section 5, *Condition Assessment*, of Appendix L, *Additional Criteria for Dam Systems*, in the *Environmental Resource Permit Applicant's Handbook Volume I (General and Environmental)*, Chapter 62-330, Florida Administrative Code. Inspection information is to be submitted in support of an application for an individual Environmental Resource Permit to alter an existing dam system with a High Hazard Potential or Significant Hazard Potential classification (as defined in Section 3, *Downstream Hazard Potential*, in Appendix L). The information in this form may be completed through a combination of new and historical inspections that were performed within the past five years, as long as the data are still representative of the dam condition. Copies of the original inspection reports are to be included in the Condition Assessment Report (CAR).

Content

This form is grouped into five sections: Purpose and Content, General Information, Dam Inspection, Overall Condition Assessment, and Certification. Information for the dam, dam owner(s), and dam owner's engineer are shown in the General Information section. The dam and appurtenant structure components of the crest, upstream and downstream slopes, plunge pool, principle and emergency spillways, instrumentation, outlet pipe(s), stilling basin, waterbody structures, downstream hazards, drawings, pictures, and underwater video are listed in the Dam Inspection section. The overall condition assessment ratings of Satisfactory, Fair, Poor, and Unsatisfactory are defined in the Overall Condition Assessment section. Lastly, the certification statement to include in the submittal is provided in the Certification section.

General Information

Date of Inspection(s): _____

Date CAR Prepared: _____

Dam Information

1. Name of Dam: _____
2. National Inventory of Dams Identification Number: _____
3. Location-City/County: _____
4. Hazard Classification: _____
5. Name of Waterbody: _____

6. Purpose of Dam/Waterbody: _____

7. Total Surface Area: _____

8. Crest Elevation: _____

9. Crest Width: _____

10. Crest Length: _____

11. Upstream Water Depth: _____

12. Downstream Ground Elevation: _____

13. Upstream Water Elevation: _____

14. Crest Material: _____

15. Upstream Slope: _____

16. Downstream Slope: _____

Dam Owner's Information (add sections for each additional dam owner)

1. Name(s): _____

2. Address: _____

3. Phone Numbers: a. _____ (landline) b. _____ (cell)

5. Email Address: _____

Dam Owner's Representative Information

1. Name: _____

3. Phone Numbers: a. _____ (landline) b. _____ (cell)

4. Email Address: _____

Dam Owner's Engineer

1. Name of Engineering Firm or Engineer: _____

2. Florida Professional Engineer License Number: _____

3. Mailing Address: _____

4. Phone Numbers: a. _____ (landline) b. _____ (cell)

5. Email Address: _____

Dam Inspection

1. Crest

a. How would you describe the vegetation on the crest? (Check all that apply)

Recently Mowed ☐ Overgrown ☐ Good Cover ☐ Sparse ☐

Other (describe): _____

b. Are there any trees or other inappropriate vegetation on the crest?
Yes ☐ No ☐

If yes, describe (type of vegetation, size, location, etc.): _____

c. Is there a paved road or driveway on the crest?
Yes ☐ No ☐

If yes, describe the condition (for example, good condition, numerous cracks, newly paved, etc.): _____

d. Are there any depressions, ruts or holes on the crest?
Yes ☐ No ☐

If yes, describe (length and width, location, direction of cracking, etc.): _____

e. Are there any cracks on the crest?
Yes ☐ No ☐

If yes, describe (length and width, location, direction of cracking, etc.): _____

f. Other observations on the crest: _____

2. Upstream Slope

a. What is the reservoir level in feet (ft) today?

At Normal Pool _____ ft Above Normal Pool _____ Ft Below Normal Pool _____ ft

b. How would you describe the vegetation on the upstream slope? (Check all that apply)

Recently Mowed ☐ Overgrown ☐ Good Cover ☐ Sparse ☐

Other (describe): _____

c. Are there any trees or other inappropriate vegetation on the slope?

Yes ☐ No ☐

If yes, describe (type of vegetation, size, location, etc.): _____

d. Are there any depressions, bulges, ruts, or holes (such as animal burrows) on the slope?
Yes ☐ No ☐

If yes, describe (size, location, etc.): _____

e. Are there any eroded areas on the slope (such as wave erosion along the shoreline)?
Yes ☐ No ☐

If yes, describe (size of area, location, severity, etc.): _____

f. Are there any cracks, sloughs, or slides (vertical cliffs) on the slope?
Yes ☐ No ☐

If yes, describe (length, width, height, location, etc.): _____

g. Is there any type of slope protection along the shoreline (such as riprap)?
Yes ☐ No ☐

If yes, describe what type and its condition (for example, riprap - adequate, inadequate, sparse, etc.): _____

h. Other observations on the upstream slope: _____

3. Downstream Slope

a. How would you describe the vegetation on the downstream slope? (Check all that apply)

Recently Mowed ☐ Overgrown ☐ Good Cover ☐ Sparse ☐

Other (describe): _____

b. Are there any trees or other inappropriate vegetation on the slope?
Yes ☐ No ☐

If yes, describe (type of vegetation, size, location, etc.): _____

c. Are there any depressions, bulges, ruts, or holes (such as animal burrows) on the slope?
Yes ☐ No ☐

If yes, describe (size, location, etc.): _____

d. Are there any eroded areas on the slope (such as along abutment contacts)?

Yes ☐ No ☐

If yes, describe (size of area, location, severity, etc.):

e. Are there any cracks, sloughs or slides (vertical cliffs) on the slope?
Yes ☐ No ☐

If yes, describe (length, width, height, location, etc.):

f. Are there any wet areas or areas of hydrophilic (lush, water-loving) vegetation?
Yes ☐ No ☐

If yes, describe (length, width, height, location, etc.):

g. Do any wet areas indicate seepage through the dam (such as rust-colored, stained water)?
Yes ☐ No ☐ N/A ☐

If yes, describe (for example, new area of seepage, no change from past observations, size of area, location, etc.):

h. Are there any leaks (flowing water) from the slope or beyond the toe of the dam?
Yes ☐ No ☐

If yes, describe (location, rate of flow, turbidity of flow, etc.):

i. Other observations on the downstream slope:

4. Plunge Pool

a. Is there any type of erosion protection around the plunge pool (such as riprap)?
Yes ☐ No ☐

If yes, describe what type and its condition (for example, riprap - adequate, inadequate, obstructed by vegetation):

b. Is there any erosion around the plunge pool?
Yes ☐ No ☐
If yes, describe (size of area, location, severity, etc.):

c. Other observations around the plunge pool:

5. Principal and Emergency Spillways

a. What types of spillways are on the dam and what is their composition (such as corrugated metal, concrete or siphon pipe; concrete or earth channel)?

Principal Spillway ☐ Emergency Spillway ☐ Other ☐

Describe:

b. Has the emergency spillway activated (had flow) since the last inspection?
Yes ☐ No ☐

If yes describe (date(s) of flow, reason for activation, depth of flow, erosion damage, etc.):

c. For pipe spillways, is the intake obstructed in any way (such as with excessive debris)?
Yes ☐ No ☐

If yes, describe (type of debris, reason for obstruction, etc.):

d. For pipe spillways, what is the condition of any trash racks (for example, adequate, inadequate, damaged)?

e. For pipe spillways, are there any visible cracks, separations or holes in the pipe(s) (intake or outlet)?
Yes ☐ No ☐
If yes, describe (location, width of crack or separation, etc.):

f. For pipe spillways, are there any apparent leaks in the pipe(s)?
Yes ☐ No ☐
If yes, describe (location, rate of flow from leak, etc.):

g. For pipe spillways, how would you describe the overall condition of the pipe(s)? (Check all that apply)
Functioning Normally ☐ Not Functional ☐ Deteriorated ☐
Damaged ☐ Adequate ☐ Inadequate ☐

h. For concrete or earth channel spillways, is the entrance or channel obstructed in any way?
Yes ☐ No ☐
If yes, describe (type of obstruction, location, etc.):

i. For earth channel spillways, how would you describe the vegetation in the spillway? (Check all that apply)
Recently Mowed ☐ Overgrown ☐ Good Cover ☐ Sparse ☐
Other (describe):

j. For earth channel spillways, are there any trees or other inappropriate vegetation in the spillway?
Yes ☐ No ☐

If yes, describe (type of vegetation, size, location, etc.):

k. For earth channel spillways, are there any eroded areas in the spillway?
Yes ☐ No ☐

If yes, describe (size of area, location, severity, etc.): _____

l. For concrete channel spillways, are there any cracks or holes in the spillway?
Yes ☐ No ☐

If yes, describe (width of crack or hole, location, etc.): _____

m. For concrete channel spillways, are there any leaks or evidence of undermining (flow under the concrete)?
Yes ☐ No ☐

If yes, describe (location, rate of flow from leak, indicators of undermining, etc.): _____

n. For earth or concrete channel spillways, how would you describe the overall condition of the spillway? (Check all that apply)

Functioning Normally ☐ Not Functional ☐ Deteriorated ☐ Damaged ☐ Adequate ☐ Inadequate ☐

o. Other observations on the spillways: _____

6. Instrumentation

a. Are there any toe drains at the downstream toe or any other seepage drains on the dam?
Yes ☐ No ☐

If yes, describe the condition (for example, clogged, free flowing, deteriorated, good condition, etc.): _____

b. For drains, is an animal guard installed at the outlet of each drain?
Yes ☐ No ☐

If no, which drains lack animal guards? _____

c. For drains, measure the rate of flow from each drain and record below (use additional pages if necessary):

Designation/Location of Drain	Flow Rate	Flow Rate in GPM*	Turbidity Flow (Describe clear, muddy, etc.)
_____	_____	_____	_____

d. Are there any piezometers on the dam?
Yes ☐ No ☐

If yes, describe the condition (for example, good condition, damaged, etc.):

e. For piezometers, does each piezometer have a cap with a lock?
Yes ☐ No ☐

If no, which piezometers need caps (to prevent rainwater intrusion) and/or locks (to prevent tampering)?

f. For piezometers, are you able to take a measurement (depth to water) in each piezometer?
Yes ☐ No ☐

If yes, record depth to water (in feet) in each piezometer, record on a separate page and attach to this form.

g. Are there any other monitoring devices on the dam?
Yes ☐ No ☐

If yes, describe what type and the condition (for example, monitoring wells - good condition, damaged, etc.):

h. Other observations on instrumentation:

7. Outlet Pipe

a. Any water flowing outside of discharge pipe through the impounding structure. (Check all that apply)

Functioning Normally ☐ Not Functional ☐ Deteriorated ☐
Damaged ☐ Adequate ☐Inadequate ☐

b. Describe any deficiencies:

8. Stilling Basin

a. Deterioration of concrete structures (Check all that apply)

Functioning Normally ☐ Not Functional ☐ Deteriorated ☐ Damaged ☐ Adequate ☐ Inadequate ☐

b. Exposure of rebar?
Yes ☐ No ☐

c. Deterioration of basin sloes and repairs done: _____

d. Any obstruction to flow: _____

9. Waterbody Structures

a. Deterioration of concrete structures (Check all that apply)

Functioning Normally ☐ Not Functional ☐ Deteriorated ☐ Damaged ☐ Adequate ☐ Inadequate ☐

Describe: _____

b. Exposure of rebar?
Yes ☐ No ☐

c. Deterioration of basin slopes and any repairs done: _____

d. Any obstruction to flow: _____

10. Downstream Hazard Issues

a. Deterioration of concrete structures (Check all that apply)

Functioning Normally ☐ Not Functional ☐ Deteriorated ☐ Damaged ☐ Adequate ☐ Inadequate ☐

b. Exposure of rebar?
Yes ☐ No ☐

c. Deterioration of basin sloes and any repairs done: _____

d. Any obstruction to flow: _____

e. Are there homes downstream from the dam?

Yes ☐ No ☐

Approximate distance: _____

11. Drawings and Photographs

At a minimum, photographs should be taken of the crest, upstream slope, downstream slope, principle and emergency spillways, and any other notable features. (Example: structures, seepages, ruts, slope failure, etc.)

List of drawings: _____
List of photographs: _____

12. Underwater Videos

At a minimum, videos of the internal length of each conduit, including principal spillway, auxiliary spillways, and other conduits embedded or intercepting the dam upstream and downstream slopes and crest should be provided.

List of videos: _____

Overall Condition Assessment

(Check one)

SATISFACTORY ☐ FAIR ☐ POOR ☐ UNSATISFACTORY ☐

Condition Assessment
Assessment that best describes the condition of the dam based on available information.

Satisfactory
Fair
Poor
Unsatisfactory

A dam safety deficiency is defined as a load capacity limit or other issue that can result in a failure of the dam or appurtenant structure. It is a characteristic or condition that does not meet the applicable minimum regulatory criteria.

Normal operations are defined as loading on the dam resulting from day-to-day pool operations to achieve authorized purposes in accordance with minimum state or federal criteria.

Condition Assessment definitions are as follows:

Satisfactory
No existing or potential dam safety deficiencies are recognized. Acceptable performance is expected under all loading conditions (static, hydrologic, seismic) in accordance with the minimum applicable state or federal regulatory criteria or tolerable risk guidelines.
Typical Circumstances:

- No existing deficiencies or potentially unsafe conditions are recognized, with the exception of minor operational and maintenance items that require attention.
- Safe performance is expected under all loading conditions including the design earthquake and design flood.
- Permanent risk reduction measures (reservoir restrictions, spillway modifications, operating procedures, etc.) have been implemented to eliminate identified deficiencies.

Fair
No existing dam safety deficiencies are recognized for normal operating conditions. Rare or extreme hydrologic and/or seismic events may result in a dam safety deficiency. Risk may be in the range to take further action. Note: Rare or extreme event is defined by the regulatory agency based on their minimum applicable state criteria.
Other Circumstances:

- Lack of maintenance requires attention to prevent developing safety concerns.

- Maintenance conditions may exist that require remedial action greater than routine work and/or secondary studies or investigations.
- Interim or permanent risk reduction measures may be under consideration.

Poor

A dam safety deficiency is recognized for normal operating conditions which may realistically occur. Remedial action is necessary. This rating may also be used when uncertainties exist for critical analysis parameters used to identify a potential dam safety deficiency. Investigations and studies are necessary.

Other Circumstances:

- Dam has multiple deficiencies or a significant deficiency that requires remedial work.
- Lack of maintenance (erosion, sinkholes, settlement, cracking, unwanted vegetation, animal burrows, inoperable outlet gates) has affected the integrity or the operation of the dam under normal operational conditions and requires remedial action to resolve.
- Critical design information is needed to evaluate the potential performance of the dam. For example, a field observation or a review of the dam's performance history has identified a question that can only be answered by review of the design and construction history for the dam. Uncertainty arises when there is no design and/or construction documentation available for review and additional analysis is needed to better understand the risk associated with operation under normal operational conditions.
- Interim or permanent risk reduction measures may be under consideration.

Unsatisfactory

A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.

Typical Circumstances:

- A critical component of the dam has deteriorated to unacceptable condition or failed.
- A safety inspection indicates major structural distress (excessive uncontrolled seepage, cracks, slides, sinkholes, severe deterioration, etc.), advanced deterioration, or operational deficiencies which could lead to failure of the dam or its appurtenant structures under normal operating conditions.
- Reservoir restrictions or other interim risk reduction measures are required.
- A partial or complete reservoir drawdown may be mandated by the state or federal regulatory agency.

Supplemental Comments (Add narrative on your overall assessment category and recommendations for improvements): _____

Certification by Registered Professional

I, a registered professional qualified in the evaluation of dam systems, hereby certify, by signing, dating, and sealing, that the information provided in this report has been examined by me and found to be true and correct in my professional judgment.

_____

Printed Name _____

_____ _____

Signature Date