Invitation for Bid
Volume 3

Old Forge Dam and Sixth Lake Dam Rehabilitation

Contract No. D012025

State of New York
Hudson River – Black River Regulating District
Albany, New York

June 2025

Invitation for Bid

Table of Contents

VOLUME 1

SECTION 1

SECTION 2

Information for Bidders **Section**

Invitation for Bid

Table of Contents

Invitation for Bid

Table of Contents

VOLUME 2

Invitation for Bid

Table of Contents

VOLUME 3

SECTION 8

Permits and Plans

SECTION 9

Payment Items

Invitation for Bid

Table of Contents

Supplemental Information – Not Part of Contract

Permits and Plans

Old Forge Dam and Sixth Lake Dam Rehabilitation

Contract No. D012025

State of New York
Hudson River – Black River Regulating District
Albany, New York

June 2025

Department of Environmental Conservation Permit

US Army Corps of Engineers Nationwide Permit No. 3

Robert Foltan

From: Labatore, Adam C CIV USARMY CENAN (USA) <Adam.C.Labatore@usace.army.mil>
Sent: Monday, May 5, 2025 1:21 PM
To: artie.tompkins@arcadis.com
Cc: Fitzgerald, Meghan; Robert Foltan; eric.lanzarotta@arcadis.com
Subject: USACE Permit Application # NAN-2025-00361-ULA

Good afternoon Artie:

Hope you are doing well. USACE reviewed the request for permit you submitted for Sixth Lake Dam Rehabilitation proejct. Based upon the information provided, it appears that your proposed work can be authorized under Department of the Army nationwide general permit number: 3 in such a way that it does not require any further review from this office. You may proceed with the project as proposed without further authorization from this office.

The nationwide permits are prescribed as a Reissuance of Nationwide Permits in the Federal Register dated December 27, 2021 (86 FR 73522).

Discharge of fill material authorized by the Nationwide Permit program may be performed without project specific authorization from this office provided the activity complies with the terms and conditions of the Nationwide Permits (NWP) and the permit conditions listed in Section B, No. 13, Section C, any applicable New York District regional conditions, and any applicable regional conditions added by the State of New York. Please note that NWP General Condition No. 12 requires the installation and maintenance of proper soil erosion and sediment controls during construction.

Should you require a full Nationwide Permit Verification Letter, please let us know.

Please let me know if you have any questions regarding this matter.

Adam

Adam Labatore
Regulatory Subject Matter Expert
Regulatory Branch
Upstate New York Section
New York District, U.S. Army Corps of Engineers
(518) 266-6353 (Office)
(518) 308-9153 (Mobile)

From: Tompkins, Artie <Artie.Tompkins@arcadis.com>
Sent: Friday, April 4, 2025 3:05 PM
To: CENAN-R-Permit-App <CENAN-R-Permit-App@usace.army.mil>
Cc: Fitzgerald, Meghan <Meghan.Fitzgerald@arcadis.com>
Subject: [Non-DoD Source] Preconstruction Notification - Hudson River Black River Regulating District - Sixth Lake Dam Rehabilitation

Hello

Nationwide Permit 3 - Maintenance

Effective Date: February 25, 2022; Expiration Date: March 14, 2026
(NWP Final Notice, 86 FR 73522)

Nationwide Permit 3 - Maintenance. (a) The repair, rehabilitation, or replacement of any previously authorized, currently serviceable structure or fill, or of any currently serviceable structure or fill authorized by 33 CFR 330.3, provided that the structure or fill is not to be put to uses differing from those uses specified or contemplated for it in the original permit or the most recently authorized modification. Minor deviations in the structure's configuration or filled area, including those due to changes in materials, construction techniques, requirements of other regulatory agencies, or current construction codes or safety standards that are necessary to make the repair, rehabilitation, or replacement are authorized. This NWP also authorizes the removal of previously authorized structures or fills. Any stream channel modification is limited to the minimum necessary for the repair, rehabilitation, or replacement of the structure or fill; such modifications, including the removal of material from the stream channel, must be immediately adjacent to the project. This NWP also authorizes the removal of accumulated sediment and debris within, and in the immediate vicinity of, the structure or fill. This NWP also authorizes the repair, rehabilitation, or replacement of those structures or fills destroyed or damaged by storms, floods, fire or other discrete events, provided the repair, rehabilitation, or replacement is commenced, or is under contract to commence, within two years of the date of their destruction or damage. In cases of catastrophic events, such as hurricanes or tornadoes, this two-year limit may be waived by the district engineer, provided the permittee can demonstrate funding, contract, or other similar delays.

(b) This NWP also authorizes the removal of accumulated sediments and debris outside the immediate vicinity of existing structures (e.g., bridges, culverted road crossings, water intake structures, etc.). The removal of sediment is limited to the minimum necessary to restore the waterway in the vicinity of the structure to the approximate dimensions that existed when the structure was built, but cannot extend farther than 200 feet in any direction from the structure. This 200 foot limit does not apply to maintenance dredging to remove accumulated sediments blocking or restricting outfall and intake structures or to maintenance dredging to remove accumulated sediments from canals associated with outfall and intake structures. All dredged or excavated materials must be deposited and retained in an area that has no waters of the United States unless otherwise specifically approved by the district engineer under separate authorization.

(c) This NWP also authorizes temporary structures, fills, and work, including the use of temporary mats, necessary to conduct the maintenance activity. Appropriate measures must be taken to maintain normal downstream flows and minimize flooding to the maximum extent practicable, when temporary structures, work, and discharges of dredged or fill material, including cofferdams, are necessary for construction activities, access fills, or dewatering of construction sites. Temporary fills must consist of materials, and be placed in a manner, that will not be eroded by expected high flows.

After conducting the maintenance activity, temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The areas affected by temporary fills must be revegetated, as appropriate.

(d) This NWP does not authorize maintenance dredging for the primary purpose of navigation. This NWP does not authorize beach restoration. This NWP does not authorize new stream channelization or stream relocation projects.

Notification: For activities authorized by paragraph (b) of this NWP, the permittee must submit a pre-construction notification to the district engineer prior to commencing the activity (see general condition 32). The pre-construction notification must include information regarding the original design capacities and configurations of the outfalls, intakes, small impoundments, and canals. (Authorities: Section 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water Act (Sections 10 and 404))

Note: This NWP authorizes the repair, rehabilitation, or replacement of any previously authorized structure or fill that does not qualify for the Clean Water Act Section 404(f) exemption for maintenance.

2021 Nationwide Permit General Conditions

Note: To qualify for NWP authorization, the prospective permittee must comply with the following general conditions, as applicable, in addition to any regional or case-specific conditions imposed by the division engineer or district engineer. Prospective permittees should contact the appropriate Corps district office to determine if regional conditions have been imposed on an NWP. Prospective permittees should also contact the appropriate Corps district office to determine the status of Clean Water Act Section 401 water quality certification and/or Coastal Zone Management Act consistency for an NWP. Every person who may wish to obtain permit authorization under one or more NWPs, or who is currently relying on an existing or prior permit authorization under one or more NWPs, has been and is on notice that all of the provisions of 33 CFR 330.1 through 330.6 apply to every NWP authorization. Note especially 33 CFR 330.5 relating to the modification, suspension, or revocation of any NWP authorization.

1. **Navigation.** (a) No activity may cause more than a minimal adverse effect on navigation.

(b) Any safety lights and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, must be installed and maintained at the permittee's expense on authorized facilities in navigable waters of the United States.

(c) The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his or her authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from

the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

2. **Aquatic Life Movements.** No activity may substantially disrupt the necessary life cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area, unless the activity's primary purpose is to impound water. All permanent and temporary crossings of waterbodies shall be suitably culverted, bridged, or otherwise designed and constructed to maintain low flows to sustain the movement of those aquatic species. If a bottomless culvert cannot be used, then the crossing should be designed and constructed to minimize adverse effects to aquatic life movements.

3. **Spawning Areas.** Activities in spawning areas during spawning seasons must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., through excavation, fill, or downstream smothering by substantial turbidity) of an important spawning area are not authorized.

4. **Migratory Bird Breeding Areas.** Activities in waters of the United States that serve as breeding areas for migratory birds must be avoided to the maximum extent practicable.

5. **Shellfish Beds.** No activity may occur in areas of concentrated shellfish populations, unless the activity is directly related to a shellfish harvesting activity authorized by NWPs 4 and 48, or is a shellfish seeding or habitat restoration activity authorized by NWP 27.

6. **Suitable Material.** No activity may use unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.). Material used for construction or discharged must be free from toxic pollutants in toxic amounts (see section 307 of the Clean Water Act).

7. **Water Supply Intakes.** No activity may occur in the proximity of a public water supply intake, except where the activity is for the repair or improvement of public water supply intake structures or adjacent bank stabilization.

8. **Adverse Effects From Impoundments.** If the activity creates an impoundment of water, adverse effects to the aquatic system due to accelerating the passage of water, and/or restricting its flow must be minimized to the maximum extent practicable.

9. **Management of Water Flows.** To the maximum extent practicable, the pre-construction course, condition, capacity, and location of open waters must be maintained for each activity, including stream channelization, storm water management activities, and temporary and permanent road crossings, except as provided below. The activity must be constructed to withstand expected high flows. The activity must not restrict or impede the passage of normal or high flows, unless the primary purpose of the activity is to impound water or manage high flows. The activity may alter the pre-

construction course, condition, capacity, and location of open waters if it benefits the aquatic environment (e.g., stream restoration or relocation activities).

10. **Fills Within 100-Year Floodplains.** The activity must comply with applicable FEMA-approved state or local floodplain management requirements.

11. **Equipment.** Heavy equipment working in wetlands or mudflats must be placed on mats, or other measures must be taken to minimize soil disturbance.

12. **Soil Erosion and Sediment Controls.** Appropriate soil erosion and sediment controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark or high tide line, must be permanently stabilized at the earliest practicable date. Permittees are encouraged to perform work within waters of the United States during periods of low-flow or no-flow, or during low tides.

13. **Removal of Temporary Structures and Fills.** Temporary structures must be removed, to the maximum extent practicable, after their use has been discontinued. Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The affected areas must be revegetated, as appropriate.

14. **Proper Maintenance.** Any authorized structure or fill shall be properly maintained, including maintenance to ensure public safety and compliance with applicable NWP general conditions, as well as any activity-specific conditions added by the district engineer to an NWP authorization.

15. **Single and Complete Project.** The activity must be a single and complete project. The same NWP cannot be used more than once for the same single and complete project.

16. **Wild and Scenic Rivers.** (a) No NWP activity may occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a “study river” for possible inclusion in the system while the river is in an official study status, unless the appropriate Federal agency with direct management responsibility for such river, has determined in writing that the proposed activity will not adversely affect the Wild and Scenic River designation or study status.

(b) If a proposed NWP activity will occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a “study river” for possible inclusion in the system while the river is in an official study status, the permittee must submit a pre-construction notification (see general condition 32). The district engineer will coordinate the PCN with the Federal agency with direct management responsibility for that river. Permittees shall not begin the NWP activity until notified by the district engineer that the Federal agency with direct management responsibility for that river has determined in writing that the proposed NWP activity will not adversely affect the Wild and Scenic River designation or study status.

(c) Information on Wild and Scenic Rivers may be obtained from the appropriate Federal land management agency responsible for the designated Wild and Scenic River or study river (e.g., National Park Service, U.S. Forest Service, Bureau of Land Management, U.S. Fish and Wildlife Service). Information on these rivers is also available at: http://www.rivers.gov/.

17. **Tribal Rights.** No activity or its operation may impair reserved tribal rights, including, but not limited to, reserved water rights and treaty fishing and hunting rights.

18. **Endangered Species.** (a) No activity is authorized under any NWP which is likely to directly or indirectly jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which will directly or indirectly destroy or adversely modify designated critical habitat or critical habitat proposed for such designation. No activity is authorized under any NWP which "may affect" a listed species or critical habitat, unless ESA section 7 consultation addressing the consequences of the proposed activity on listed species or critical habitat has been completed. See 50 CFR 402.02 for the definition of "effects of the action" for the purposes of ESA section 7 consultation, as well as 50 CFR 402.17, which provides further explanation under ESA section 7 regarding "activities that are reasonably certain to occur" and "consequences caused by the proposed action."

(b) Federal agencies should follow their own procedures for complying with the requirements of the ESA (see 33 CFR 330.4(f)(1)). If pre-construction notification is required for the proposed activity, the Federal permittee must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will verify that the appropriate documentation has been submitted. If the appropriate documentation has not been submitted, additional ESA section 7 consultation may be necessary for the activity and the respective federal agency would be responsible for fulfilling its obligation under section 7 of the ESA.

(c) Non-federal permittees must submit a pre-construction notification to the district engineer if any listed species (or species proposed for listing) or designated critical habitat (or critical habitat proposed such designation) might be affected or is in the vicinity of the activity, or if the activity is located in designated critical habitat or critical habitat proposed for such designation, and shall not begin work on the activity until notified by the district engineer that the requirements of the ESA have been satisfied and that the activity is authorized. For activities that might affect Federally-listed endangered or threatened species (or species proposed for listing) or designated critical habitat (or critical habitat proposed for such designation), the pre-construction notification must include the name(s) of the endangered or threatened species (or species proposed for listing) that might be affected by the proposed activity or that utilize the designated critical habitat (or critical habitat proposed for such designation) that might be affected by the proposed activity. The district engineer will determine whether the proposed activity "may affect" or will have "no effect" to listed species and

designated critical habitat and will notify the non-Federal applicant of the Corps' determination within 45 days of receipt of a complete pre-construction notification. For activities where the non-Federal applicant has identified listed species (or species proposed for listing) or designated critical habitat (or critical habitat proposed for such designation) that might be affected or is in the vicinity of the activity, and has so notified the Corps, the applicant shall not begin work until the Corps has provided notification that the proposed activity will have "no effect" on listed species (or species proposed for listing or designated critical habitat (or critical habitat proposed for such designation), or until ESA section 7 consultation or conference has been completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.

(d) As a result of formal or informal consultation or conference with the FWS or NMFS the district engineer may add species-specific permit conditions to the NWPs.

(e) Authorization of an activity by an NWP does not authorize the "take" of a threatened or endangered species as defined under the ESA. In the absence of separate authorization (e.g., an ESA Section 10 Permit, a Biological Opinion with "incidental take" provisions, etc.) from the FWS or the NMFS, the Endangered Species Act prohibits any person subject to the jurisdiction of the United States to take a listed species, where "take" means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. The word "harm" in the definition of "take" means an act which actually kills or injures wildlife. Such an act may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding or sheltering.

(f) If the non-federal permittee has a valid ESA section 10(a)(1)(B) incidental take permit with an approved Habitat Conservation Plan for a project or a group of projects that includes the proposed NWP activity, the non-federal applicant should provide a copy of that ESA section 10(a)(1)(B) permit with the PCN required by paragraph (c) of this general condition. The district engineer will coordinate with the agency that issued the ESA section 10(a)(1)(B) permit to determine whether the proposed NWP activity and the associated incidental take were considered in the internal ESA section 7 consultation conducted for the ESA section 10(a)(1)(B) permit. If that coordination results in concurrence from the agency that the proposed NWP activity and the associated incidental take were considered in the internal ESA section 7 consultation for the ESA section 10(a)(1)(B) permit, the district engineer does not need to conduct a separate ESA section 7 consultation for the proposed NWP activity. The district engineer will notify the non-federal applicant within 45 days of receipt of a complete pre-construction notification whether the ESA section 10(a)(1)(B) permit covers the proposed NWP activity or whether additional ESA section 7 consultation is required.

(g) Information on the location of threatened and endangered species and their critical habitat can be obtained directly from the offices of the FWS and NMFS or their world

wide web pages at http://www.fws.gov/ or http://www.fws.gov/ipac and http://www.nmfs.noaa.gov/pr/species/esa/ respectively.

19. **Migratory Birds and Bald and Golden Eagles.** The permittee is responsible for ensuring that an action authorized by an NWP complies with the Migratory Bird Treaty Act and the Bald and Golden Eagle Protection Act. The permittee is responsible for contacting the appropriate local office of the U.S. Fish and Wildlife Service to determine what measures, if any, are necessary or appropriate to reduce adverse effects to migratory birds or eagles, including whether "incidental take" permits are necessary and available under the Migratory Bird Treaty Act or Bald and Golden Eagle Protection Act for a particular activity.

20. **Historic Properties.** (a) No activity is authorized under any NWP which may have the potential to cause effects to properties listed, or eligible for listing, in the National Register of Historic Places until the requirements of Section 106 of the National Historic Preservation Act (NHPA) have been satisfied.

(b) Federal permittees should follow their own procedures for complying with the requirements of section 106 of the National Historic Preservation Act (see 33 CFR 330.4(g)(1)). If pre-construction notification is required for the proposed NWP activity, the Federal permittee must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will verify that the appropriate documentation has been submitted. If the appropriate documentation is not submitted, then additional consultation under section 106 may be necessary. The respective federal agency is responsible for fulfilling its obligation to comply with section 106.

(c) Non-federal permittees must submit a pre-construction notification to the district engineer if the NWP activity might have the potential to cause effects to any historic properties listed on, determined to be eligible for listing on, or potentially eligible for listing on the National Register of Historic Places, including previously unidentified properties. For such activities, the pre-construction notification must state which historic properties might have the potential to be affected by the proposed NWP activity or include a vicinity map indicating the location of the historic properties or the potential for the presence of historic properties. Assistance regarding information on the location of, or potential for, the presence of historic properties can be sought from the State Historic Preservation Officer, Tribal Historic Preservation Officer, or designated tribal representative, as appropriate, and the National Register of Historic Places (see 33 CFR 330.4(g)). When reviewing pre-construction notifications, district engineers will comply with the current procedures for addressing the requirements of section 106 of the National Historic Preservation Act. The district engineer shall make a reasonable and good faith effort to carry out appropriate identification efforts commensurate with potential impacts, which may include background research, consultation, oral history interviews, sample field investigation, and/or field survey. Based on the information submitted in the PCN and these identification efforts, the district engineer shall determine whether the proposed NWP activity has the potential to cause effects on the

historic properties. Section 106 consultation is not required when the district engineer determines that the activity does not have the potential to cause effects on historic properties (see 36 CFR 800.3(a)). Section 106 consultation is required when the district engineer determines that the activity has the potential to cause effects on historic properties. The district engineer will conduct consultation with consulting parties identified under 36 CFR 800.2(c) when he or she makes any of the following effect determinations for the purposes of section 106 of the NHPA: no historic properties affected, no adverse effect, or adverse effect.

(d) Where the non-Federal applicant has identified historic properties on which the proposed NWP activity might have the potential to cause effects and has so notified the Corps, the non-Federal applicant shall not begin the activity until notified by the district engineer either that the activity has no potential to cause effects to historic properties or that NHPA section 106 consultation has been completed. For non-federal permittees, the district engineer will notify the prospective permittee within 45 days of receipt of a complete pre-construction notification whether NHPA section 106 consultation is required. If NHPA section 106 consultation is required, the district engineer will notify the non-Federal applicant that he or she cannot begin the activity until section 106 consultation is completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.

(e) Prospective permittees should be aware that section 110k of the NHPA (54 U.S.C. 306113) prevents the Corps from granting a permit or other assistance to an applicant who, with intent to avoid the requirements of section 106 of the NHPA, has intentionally significantly adversely affected a historic property to which the permit would relate, or having legal power to prevent it, allowed such significant adverse effect to occur, unless the Corps, after consultation with the Advisory Council on Historic Preservation (ACHP), determines that circumstances justify granting such assistance despite the adverse effect created or permitted by the applicant. If circumstances justify granting the assistance, the Corps is required to notify the ACHP and provide documentation specifying the circumstances, the degree of damage to the integrity of any historic properties affected, and proposed mitigation. This documentation must include any views obtained from the applicant, SHPO/THPO, appropriate Indian tribes if the undertaking occurs on or affects historic properties on tribal lands or affects properties of interest to those tribes, and other parties known to have a legitimate interest in the impacts to the permitted activity on historic properties.

21. **Discovery of Previously Unknown Remains and Artifacts.** Permittees that discover any previously unknown historic, cultural or archeological remains and artifacts while accomplishing the activity authorized by an NWP, they must immediately notify the district engineer of what they have found, and to the maximum extent practicable, avoid construction activities that may affect the remains and artifacts until the required coordination has been completed. The district engineer will initiate the Federal, Tribal, and state coordination required to determine if the items or remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

22. **Designated Critical Resource Waters.** Critical resource waters include, NOAA-managed marine sanctuaries and marine monuments, and National Estuarine Research Reserves. The district engineer may designate, after notice and opportunity for public comment, additional waters officially designated by a state as having particular environmental or ecological significance, such as outstanding national resource waters or state natural heritage sites. The district engineer may also designate additional critical resource waters after notice and opportunity for public comment.

(a) Discharges of dredged or fill material into waters of the United States are not authorized by NWPs 7, 12, 14, 16, 17, 21, 29, 31, 35, 39, 40, 42, 43, 44, 49, 50, 51, 52, 57 and 58 for any activity within, or directly affecting, critical resource waters, including wetlands adjacent to such waters.

(b) For NWPs 3, 8, 10, 13, 15, 18, 19, 22, 23, 25, 27, 28, 30, 33, 34, 36, 37, 38, and 54, notification is required in accordance with general condition 32, for any activity proposed by permittees in the designated critical resource waters including wetlands adjacent to those waters. The district engineer may authorize activities under these NWPs only after she or he determines that the impacts to the critical resource waters will be no more than minimal.

23. **Mitigation.** The district engineer will consider the following factors when determining appropriate and practicable mitigation necessary to ensure that the individual and cumulative adverse environmental effects are no more than minimal:

(a) The activity must be designed and constructed to avoid and minimize adverse effects, both temporary and permanent, to waters of the United States to the maximum extent practicable at the project site (i.e., on site).

(b) Mitigation in all its forms (avoiding, minimizing, rectifying, reducing, or compensating for resource losses) will be required to the extent necessary to ensure that the individual and cumulative adverse environmental effects are no more than minimal.

(c) Compensatory mitigation at a minimum one-for-one ratio will be required for all wetland losses that exceed 1/10-acre and require pre-construction notification, unless the district engineer determines in writing that either some other form of mitigation would be more environmentally appropriate or the adverse environmental effects of the proposed activity are no more than minimal, and provides an activity-specific waiver of this requirement. For wetland losses of 1/10-acre or less that require pre-construction notification, the district engineer may determine on a case-by-case basis that compensatory mitigation is required to ensure that the activity results in only minimal adverse environmental effects.

(d) Compensatory mitigation at a minimum one-for-one ratio will be required for all losses of stream bed that exceed 3/100-acre and require pre-construction notification, unless the district engineer determines in writing that either some other form of mitigation would be more environmentally appropriate or the adverse environmental

effects of the proposed activity are no more than minimal, and provides an activity-specific waiver of this requirement. This compensatory mitigation requirement may be satisfied through the restoration or enhancement of riparian areas next to streams in accordance with paragraph (e) of this general condition. For losses of stream bed of 3/100-acre or less that require pre-construction notification, the district engineer may determine on a case-by-case basis that compensatory mitigation is required to ensure that the activity results in only minimal adverse environmental effects. Compensatory mitigation for losses of streams should be provided, if practicable, through stream rehabilitation, enhancement, or preservation, since streams are difficult-to-replace resources (see 33 CFR 332.3(e)(3)).

(e) Compensatory mitigation plans for NWP activities in or near streams or other open waters will normally include a requirement for the restoration or enhancement, maintenance, and legal protection (e.g., conservation easements) of riparian areas next to open waters. In some cases, the restoration or maintenance/protection of riparian areas may be the only compensatory mitigation required. If restoring riparian areas involves planting vegetation, only native species should be planted. The width of the required riparian area will address documented water quality or aquatic habitat loss concerns. Normally, the riparian area will be 25 to 50 feet wide on each side of the stream, but the district engineer may require slightly wider riparian areas to address documented water quality or habitat loss concerns. If it is not possible to restore or maintain/protect a riparian area on both sides of a stream, or if the waterbody is a lake or coastal waters, then restoring or maintaining/protecting a riparian area along a single bank or shoreline may be sufficient. Where both wetlands and open waters exist on the project site, the district engineer will determine the appropriate compensatory mitigation (e.g., riparian areas and/or wetlands compensation) based on what is best for the aquatic environment on a watershed basis. In cases where riparian areas are determined to be the most appropriate form of minimization or compensatory mitigation, the district engineer may waive or reduce the requirement to provide wetland compensatory mitigation for wetland losses.

(f) Compensatory mitigation projects provided to offset losses of aquatic resources must comply with the applicable provisions of 33 CFR part 332.

(1) The prospective permittee is responsible for proposing an appropriate compensatory mitigation option if compensatory mitigation is necessary to ensure that the activity results in no more than minimal adverse environmental effects. For the NWPs, the preferred mechanism for providing compensatory mitigation is mitigation bank credits or in-lieu fee program credits (see 33 CFR 332.3(b)(2) and (3)). However, if an appropriate number and type of mitigation bank or in-lieu credits are not available at the time the PCN is submitted to the district engineer, the district engineer may approve the use of permittee-responsible mitigation.

(2) The amount of compensatory mitigation required by the district engineer must be sufficient to ensure that the authorized activity results in no more than minimal individual

and cumulative adverse environmental effects (see 33 CFR 330.1(e)(3)). (See also 33 CFR 332.3(f).)

(3) Since the likelihood of success is greater and the impacts to potentially valuable uplands are reduced, aquatic resource restoration should be the first compensatory mitigation option considered for permittee-responsible mitigation.

(4) If permittee-responsible mitigation is the proposed option, the prospective permittee is responsible for submitting a mitigation plan. A conceptual or detailed mitigation plan may be used by the district engineer to make the decision on the NWP verification request, but a final mitigation plan that addresses the applicable requirements of 33 CFR 332.4(c)(2) through (14) must be approved by the district engineer before the permittee begins work in waters of the United States, unless the district engineer determines that prior approval of the final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation (see 33 CFR 332.3(k)(3)). If permittee-responsible mitigation is the proposed option, and the proposed compensatory mitigation site is located on land in which another federal agency holds an easement, the district engineer will coordinate with that federal agency to determine if proposed compensatory mitigation project is compatible with the terms of the easement.

(5) If mitigation bank or in-lieu fee program credits are the proposed option, the mitigation plan needs to address only the baseline conditions at the impact site and the number of credits to be provided (see 33 CFR 332.4(c)(1)(ii)).

(6) Compensatory mitigation requirements (e.g., resource type and amount to be provided as compensatory mitigation, site protection, ecological performance standards, monitoring requirements) may be addressed through conditions added to the NWP authorization, instead of components of a compensatory mitigation plan (see 33 CFR 332.4(c)(1)(ii)).

(g) Compensatory mitigation will not be used to increase the acreage losses allowed by the acreage limits of the NWPs. For example, if an NWP has an acreage limit of 1/2-acre, it cannot be used to authorize any NWP activity resulting in the loss of greater than 1/2-acre of waters of the United States, even if compensatory mitigation is provided that replaces or restores some of the lost waters. However, compensatory mitigation can and should be used, as necessary, to ensure that an NWP activity already meeting the established acreage limits also satisfies the no more than minimal impact requirement for the NWPs.

(h) Permittees may propose the use of mitigation banks, in-lieu fee programs, or permittee-responsible mitigation. When developing a compensatory mitigation proposal, the permittee must consider appropriate and practicable options consistent with the framework at 33 CFR 332.3(b). For activities resulting in the loss of marine or estuarine resources, permittee-responsible mitigation may be environmentally preferable if there are no mitigation banks or in-lieu fee programs in the area that have marine or estuarine

credits available for sale or transfer to the permittee. For permittee-responsible mitigation, the special conditions of the NWP verification must clearly indicate the party or parties responsible for the implementation and performance of the compensatory mitigation project, and, if required, its long-term management.

(i) Where certain functions and services of waters of the United States are permanently adversely affected by a regulated activity, such as discharges of dredged or fill material into waters of the United States that will convert a forested or scrub-shrub wetland to a herbaceous wetland in a permanently maintained utility line right-of-way, mitigation may be required to reduce the adverse environmental effects of the activity to the no more than minimal level.

24. **Safety of Impoundment Structures.** To ensure that all impoundment structures are safely designed, the district engineer may require non-Federal applicants to demonstrate that the structures comply with established state or federal, dam safety criteria or have been designed by qualified persons. The district engineer may also require documentation that the design has been independently reviewed by similarly qualified persons, and appropriate modifications made to ensure safety.

25. **Water Quality.** (a) Where the certifying authority (state, authorized tribe, or EPA, as appropriate) has not previously certified compliance of an NWP with CWA section 401, a CWA section 401 water quality certification for the proposed discharge must be obtained or waived (see 33 CFR 330.4(c)). If the permittee cannot comply with all of the conditions of a water quality certification previously issued by certifying authority for the issuance of the NWP, then the permittee must obtain a water quality certification or waiver for the proposed discharge in order for the activity to be authorized by an NWP.

(b) If the NWP activity requires pre-construction notification and the certifying authority has not previously certified compliance of an NWP with CWA section 401, the proposed discharge is not authorized by an NWP until water quality certification is obtained or waived. If the certifying authority issues a water quality certification for the proposed discharge, the permittee must submit a copy of the certification to the district engineer. The discharge is not authorized by an NWP until the district engineer has notified the permittee that the water quality certification requirement has been satisfied by the issuance of a water quality certification or a waiver.

(c) The district engineer or certifying authority may require additional water quality management measures to ensure that the authorized activity does not result in more than minimal degradation of water quality.

26. **Coastal Zone Management.** In coastal states where an NWP has not previously received a state coastal zone management consistency concurrence, an individual state coastal zone management consistency concurrence must be obtained, or a presumption of concurrence must occur (see 33 CFR 330.4(d)). If the permittee cannot comply with all of the conditions of a coastal zone management consistency concurrence previously issued by the state, then the permittee must obtain an individual

coastal zone management consistency concurrence or presumption of concurrence in order for the activity to be authorized by an NWP. The district engineer or a state may require additional measures to ensure that the authorized activity is consistent with state coastal zone management requirements.

27. **Regional and Case-By-Case Conditions.** The activity must comply with any regional conditions that may have been added by the Division Engineer (see 33 CFR 330.4(e)) and with any case specific conditions added by the Corps or by the state, Indian Tribe, or U.S. EPA in its CWA section 401 Water Quality Certification, or by the state in its Coastal Zone Management Act consistency determination.

28. **Use of Multiple Nationwide Permits.** The use of more than one NWP for a single and complete project is authorized, subject to the following restrictions:

(a) If only one of the NWPs used to authorize the single and complete project has a specified acreage limit, the acreage loss of waters of the United States cannot exceed the acreage limit of the NWP with the highest specified acreage limit. For example, if a road crossing over tidal waters is constructed under NWP 14, with associated bank stabilization authorized by NWP 13, the maximum acreage loss of waters of the United States for the total project cannot exceed 1⁄3-acre.

(b) If one or more of the NWPs used to authorize the single and complete project has specified acreage limits, the acreage loss of waters of the United States authorized by those NWPs cannot exceed their respective specified acreage limits. For example, if a commercial development is constructed under NWP 39, and the single and complete project includes the filling of an upland ditch authorized by NWP 46, the maximum acreage loss of waters of the United States for the commercial development under NWP 39 cannot exceed 1/2-acre, and the total acreage loss of waters of United States due to the NWP 39 and 46 activities cannot exceed 1 acre.

29. **Transfer of Nationwide Permit Verifications.** If the permittee sells the property associated with a nationwide permit verification, the permittee may transfer the nationwide permit verification to the new owner by submitting a letter to the appropriate Corps district office to validate the transfer. A copy of the nationwide permit verification must be attached to the letter, and the letter must contain the following statement and signature:

“When the structures or work authorized by this nationwide permit are still in existence at the time the property is transferred, the terms and conditions of this nationwide permit, including any special conditions, will continue to be binding on the new owner(s) of the property. To validate the transfer of this nationwide permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.”

_____
(Transferee)

_____
(Date)

30. **Compliance Certification.** Each permittee who receives an NWP verification letter from the Corps must provide a signed certification documenting completion of the authorized activity and implementation of any required compensatory mitigation. The success of any required permittee-responsible mitigation, including the achievement of ecological performance standards, will be addressed separately by the district engineer. The Corps will provide the permittee the certification document with the NWP verification letter. The certification document will include:

(a) A statement that the authorized activity was done in accordance with the NWP authorization, including any general, regional, or activity-specific conditions;

(b) A statement that the implementation of any required compensatory mitigation was completed in accordance with the permit conditions. If credits from a mitigation bank or in-lieu fee program are used to satisfy the compensatory mitigation requirements, the certification must include the documentation required by 33 CFR 332.3(l)(3) to confirm that the permittee secured the appropriate number and resource type of credits; and

(c) The signature of the permittee certifying the completion of the activity and mitigation.

The completed certification document must be submitted to the district engineer within 30 days of completion of the authorized activity or the implementation of any required compensatory mitigation, whichever occurs later.

31. **Activities Affecting Structures or Works Built by the United States.** If an NWP activity also requires review by, or permission from, the Corps pursuant to 33 U.S.C. 408 because it will alter or temporarily or permanently occupy or use a U.S. Army Corps of Engineers (USACE) federally authorized Civil Works project (a "USACE project"), the prospective permittee must submit a pre-construction notification. See paragraph (b)(10) of general condition 32. An activity that requires section 408 permission and/or review is not authorized by an NWP until the appropriate Corps office issues the section 408 permission or completes its review to alter, occupy, or use the USACE project, and the district engineer issues a written NWP verification.

32. **Pre-Construction Notification.** (a) *Timing*. Where required by the terms of the NWP, the prospective permittee must notify the district engineer by submitting a pre-construction notification (PCN) as early as possible. The district engineer must determine if the PCN is complete within 30 calendar days of the date of receipt and, if the PCN is determined to be incomplete, notify the prospective permittee within that 30 day period to request the additional information necessary to make the PCN complete.

The request must specify the information needed to make the PCN complete. As a general rule, district engineers will request additional information necessary to make the PCN complete only once. However, if the prospective permittee does not provide all of the requested information, then the district engineer will notify the prospective permittee that the PCN is still incomplete and the PCN review process will not commence until all of the requested information has been received by the district engineer. The prospective permittee shall not begin the activity until either:

(1) He or she is notified in writing by the district engineer that the activity may proceed under the NWP with any special conditions imposed by the district or division engineer; or

(2) 45 calendar days have passed from the district engineer's receipt of the complete PCN and the prospective permittee has not received written notice from the district or division engineer. However, if the permittee was required to notify the Corps pursuant to general condition 18 that listed species or critical habitat might be affected or are in the vicinity of the activity, or to notify the Corps pursuant to general condition 20 that the activity might have the potential to cause effects to historic properties, the permittee cannot begin the activity until receiving written notification from the Corps that there is "no effect" on listed species or "no potential to cause effects" on historic properties, or that any consultation required under Section 7 of the Endangered Species Act (see 33 CFR 330.4(f)) and/or section 106 of the National Historic Preservation Act (see 33 CFR 330.4(g)) has been completed. If the proposed activity requires a written waiver to exceed specified limits of an NWP, the permittee may not begin the activity until the district engineer issues the waiver. If the district or division engineer notifies the permittee in writing that an individual permit is required within 45 calendar days of receipt of a complete PCN, the permittee cannot begin the activity until an individual permit has been obtained. Subsequently, the permittee's right to proceed under the NWP may be modified, suspended, or revoked only in accordance with the procedure set forth in 33 CFR 330.5(d)(2).

(b) *Contents of Pre-Construction Notification*: The PCN must be in writing and include the following information:

(1) Name, address and telephone numbers of the prospective permittee;

(2) Location of the proposed activity;

(3) Identify the specific NWP or NWP(s) the prospective permittee wants to use to authorize the proposed activity;

(4) (i) A description of the proposed activity; the activity's purpose; direct and indirect adverse environmental effects the activity would cause, including the anticipated amount of loss of wetlands, other special aquatic sites, and other waters expected to result from the NWP activity, in acres, linear feet, or other appropriate unit of measure; a description of any proposed mitigation measures intended to reduce the adverse

environmental effects caused by the proposed activity; and any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity, including other separate and distant crossings for linear projects that require Department of the Army authorization but do not require pre-construction notification. The description of the proposed activity and any proposed mitigation measures should be sufficiently detailed to allow the district engineer to determine that the adverse environmental effects of the activity will be no more than minimal and to determine the need for compensatory mitigation or other mitigation measures.

(ii) For linear projects where one or more single and complete crossings require pre-construction notification, the PCN must include the quantity of anticipated losses of wetlands, other special aquatic sites, and other waters for each single and complete crossing of those wetlands, other special aquatic sites, and other waters (including those single and complete crossings authorized by an NWP but do not require PCNs). This information will be used by the district engineer to evaluate the cumulative adverse environmental effects of the proposed linear project, and does not change those non-PCN NWP activities into NWP PCNs.

(iii) Sketches should be provided when necessary to show that the activity complies with the terms of the NWP. (Sketches usually clarify the activity and when provided results in a quicker decision. Sketches should contain sufficient detail to provide an illustrative description of the proposed activity (e.g., a conceptual plan), but do not need to be detailed engineering plans);

(5) The PCN must include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial and intermittent streams, on the project site. Wetland delineations must be prepared in accordance with the current method required by the Corps. The permittee may ask the Corps to delineate the special aquatic sites and other waters on the project site, but there may be a delay if the Corps does the delineation, especially if the project site is large or contains many wetlands, other special aquatic sites, and other waters. Furthermore, the 45-day period will not start until the delineation has been submitted to or completed by the Corps, as appropriate;

(6) If the proposed activity will result in the loss of greater than 1/10-acre of wetlands or 3/100-acre of stream bed and a PCN is required, the prospective permittee must submit a statement describing how the mitigation requirement will be satisfied, or explaining why the adverse environmental effects are no more than minimal and why compensatory mitigation should not be required. As an alternative, the prospective permittee may submit a conceptual or detailed mitigation plan.

(7) For non-federal permittees, if any listed species (or species proposed for listing) or designated critical habitat (or critical habitat proposed for such designation) might be affected or is in the vicinity of the activity, or if the activity is located in designated critical habitat (or critical habitat proposed for such designation), the PCN must include the

name(s) of those endangered or threatened species (or species proposed for listing) that might be affected by the proposed activity or utilize the designated critical habitat (or critical habitat proposed for such designation) that might be affected by the proposed activity. For NWP activities that require pre-construction notification, Federal permittees must provide documentation demonstrating compliance with the Endangered Species Act;

(8) For non-federal permittees, if the NWP activity might have the potential to cause effects to a historic property listed on, determined to be eligible for listing on, or potentially eligible for listing on, the National Register of Historic Places, the PCN must state which historic property might have the potential to be affected by the proposed activity or include a vicinity map indicating the location of the historic property. For NWP activities that require pre-construction notification, Federal permittees must provide documentation demonstrating compliance with section 106 of the National Historic Preservation Act;

(9) For an activity that will occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, the PCN must identify the Wild and Scenic River or the "study river" (see general condition 16); and

(10) For an NWP activity that requires permission from, or review by, the Corps pursuant to 33 U.S.C. 408 because it will alter or temporarily or permanently occupy or use a U.S. Army Corps of Engineers federally authorized civil works project, the pre-construction notification must include a statement confirming that the project proponent has submitted a written request for section 408 permission from, or review by, the Corps office having jurisdiction over that USACE project.

(c) *Form of Pre-Construction Notification*: The nationwide permit pre-construction notification form (Form ENG 6082) should be used for NWP PCNs. A letter containing the required information may also be used. Applicants may provide electronic files of PCNs and supporting materials if the district engineer has established tools and procedures for electronic submittals.

(d) *Agency Coordination*: (1) The district engineer will consider any comments from Federal and state agencies concerning the proposed activity's compliance with the terms and conditions of the NWPs and the need for mitigation to reduce the activity's adverse environmental effects so that they are no more than minimal.

(2) Agency coordination is required for: (i) all NWP activities that require pre-construction notification and result in the loss of greater than 1/2-acre of waters of the United States; (ii) NWP 13 activities in excess of 500 linear feet, fills greater than one cubic yard per running foot, or involve discharges of dredged or fill material into special aquatic sites; and (iii) NWP 54 activities in excess of 500 linear feet, or that extend into the waterbody more than 30 feet from the mean low water line in tidal waters or the ordinary high water mark in the Great Lakes.

(3) When agency coordination is required, the district engineer will immediately provide (e.g., via e-mail, facsimile transmission, overnight mail, or other expeditious manner) a copy of the complete PCN to the appropriate Federal or state offices (FWS, state natural resource or water quality agency, EPA, and, if appropriate, the NMFS). With the exception of NWP 37, these agencies will have 10 calendar days from the date the material is transmitted to notify the district engineer via telephone, facsimile transmission, or e-mail that they intend to provide substantive, site-specific comments. The comments must explain why the agency believes the adverse environmental effects will be more than minimal. If so contacted by an agency, the district engineer will wait an additional 15 calendar days before making a decision on the pre-construction notification. The district engineer will fully consider agency comments received within the specified time frame concerning the proposed activity's compliance with the terms and conditions of the NWPs, including the need for mitigation to ensure that the net adverse environmental effects of the proposed activity are no more than minimal. The district engineer will provide no response to the resource agency, except as provided below. The district engineer will indicate in the administrative record associated with each pre-construction notification that the resource agencies' concerns were considered. For NWP 37, the emergency watershed protection and rehabilitation activity may proceed immediately in cases where there is an unacceptable hazard to life or a significant loss of property or economic hardship will occur. The district engineer will consider any comments received to decide whether the NWP 37 authorization should be modified, suspended, or revoked in accordance with the procedures at 33 CFR 330.5.

(4) In cases of where the prospective permittee is not a Federal agency, the district engineer will provide a response to NMFS within 30 calendar days of receipt of any Essential Fish Habitat conservation recommendations, as required by section 305(b)(4)(B) of the Magnuson-Stevens Fishery Conservation and Management Act.

(5) Applicants are encouraged to provide the Corps with either electronic files or multiple copies of pre-construction notifications to expedite agency coordination.

2021 District Engineer's Decision

1. In reviewing the PCN for the proposed activity, the district engineer will determine whether the activity authorized by the NWP will result in more than minimal individual or cumulative adverse environmental effects or may be contrary to the public interest. If a project proponent requests authorization by a specific NWP, the district engineer should issue the NWP verification for that activity if it meets the terms and conditions of that NWP, unless he or she determines, after considering mitigation, that the proposed activity will result in more than minimal individual and cumulative adverse effects on the aquatic environment and other aspects of the public interest and exercises discretionary authority to require an individual permit for the proposed activity. For a linear project, this determination will include an evaluation of the single and complete crossings of waters of the United States that require PCNs to determine whether they individually

satisfy the terms and conditions of the NWP(s), as well as the cumulative effects caused by all of the crossings of waters of the United States authorized by an NWP. If an applicant requests a waiver of an applicable limit, as provided for in NWPs 13, 36, or 54, the district engineer will only grant the waiver upon a written determination that the NWP activity will result in only minimal individual and cumulative adverse environmental effects.

2. When making minimal adverse environmental effects determinations the district engineer will consider the direct and indirect effects caused by the NWP activity. He or she will also consider the cumulative adverse environmental effects caused by activities authorized by an NWP and whether those cumulative adverse environmental effects are no more than minimal. The district engineer will also consider site specific factors, such as the environmental setting in the vicinity of the NWP activity, the type of resource that will be affected by the NWP activity, the functions provided by the aquatic resources that will be affected by the NWP activity, the degree or magnitude to which the aquatic resources perform those functions, the extent that aquatic resource functions will be lost as a result of the NWP activity (e.g., partial or complete loss), the duration of the adverse effects (temporary or permanent), the importance of the aquatic resource functions to the region (e.g., watershed or ecoregion), and mitigation required by the district engineer. If an appropriate functional or condition assessment method is available and practicable to use, that assessment method may be used by the district engineer to assist in the minimal adverse environmental effects determination. The district engineer may add case-specific special conditions to the NWP authorization to address site-specific environmental concerns.

3. If the proposed activity requires a PCN and will result in a loss of greater than 1/10-acre of wetlands or 3/100-acre of stream bed, the prospective permittee should submit a mitigation proposal with the PCN. Applicants may also propose compensatory mitigation for NWP activities with smaller impacts, or for impacts to other types of waters. The district engineer will consider any proposed compensatory mitigation or other mitigation measures the applicant has included in the proposal in determining whether the net adverse environmental effects of the proposed activity are no more than minimal. The compensatory mitigation proposal may be either conceptual or detailed. If the district engineer determines that the activity complies with the terms and conditions of the NWP and that the adverse environmental effects are no more than minimal, after considering mitigation, the district engineer will notify the permittee and include any activity-specific conditions in the NWP verification the district engineer deems necessary. Conditions for compensatory mitigation requirements must comply with the appropriate provisions at 33 CFR 332.3(k). The district engineer must approve the final mitigation plan before the permittee commences work in waters of the United States, unless the district engineer determines that prior approval of the final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation. If the prospective permittee elects to submit a compensatory mitigation plan with the PCN, the district engineer will expeditiously review the proposed compensatory mitigation plan. The district engineer must review the proposed compensatory mitigation plan within 45 calendar days of receiving a complete PCN and determine whether the proposed

mitigation would ensure that the NWP activity results in no more than minimal adverse environmental effects. If the net adverse environmental effects of the NWP activity (after consideration of the mitigation proposal) are determined by the district engineer to be no more than minimal, the district engineer will provide a timely written response to the applicant. The response will state that the NWP activity can proceed under the terms and conditions of the NWP, including any activity-specific conditions added to the NWP authorization by the district engineer.

4. If the district engineer determines that the adverse environmental effects of the proposed activity are more than minimal, then the district engineer will notify the applicant either: (a) that the activity does not qualify for authorization under the NWP and instruct the applicant on the procedures to seek authorization under an individual permit; (b) that the activity is authorized under the NWP subject to the applicant's submission of a mitigation plan that would reduce the adverse environmental effects so that they are no more than minimal; or (c) that the activity is authorized under the NWP with specific modifications or conditions. Where the district engineer determines that mitigation is required to ensure no more than minimal adverse environmental effects, the activity will be authorized within the 45-day PCN period (unless additional time is required to comply with general conditions 18, 20, and/or 31), with activity-specific conditions that state the mitigation requirements. The authorization will include the necessary conceptual or detailed mitigation plan or a requirement that the applicant submit a mitigation plan that would reduce the adverse environmental effects so that they are no more than minimal. When compensatory mitigation is required, no work in waters of the United States may occur until the district engineer has approved a specific mitigation plan or has determined that prior approval of a final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation.

2021 Further Information

1. District engineers have authority to determine if an activity complies with the terms and conditions of an NWP.

2. NWPs do not obviate the need to obtain other federal, state, or local permits, approvals, or authorizations required by law.

3. NWPs do not grant any property rights or exclusive privileges.

4. NWPs do not authorize any injury to the property or rights of others.

5. NWPs do not authorize interference with any existing or proposed Federal project (see general condition 31).

2021 Nationwide Permit Definitions

Best management practices (BMPs): Policies, practices, procedures, or structures implemented to mitigate the adverse environmental effects on surface water quality resulting from development. BMPs are categorized as structural or non-structural.

Compensatory mitigation: The restoration (re-establishment or rehabilitation), establishment (creation), enhancement, and/or in certain circumstances preservation of aquatic resources for the purposes of offsetting unavoidable adverse impacts which remain after all appropriate and practicable avoidance and minimization has been achieved.

Currently serviceable: Useable as is or with some maintenance, but not so degraded as to essentially require reconstruction.

Direct effects: Effects that are caused by the activity and occur at the same time and place.

Discharge: The term "discharge" means any discharge of dredged or fill material into waters of the United States.

Ecological reference: A model used to plan and design an aquatic habitat and riparian area restoration, enhancement, or establishment activity under NWP 27. An ecological reference may be based on the structure, functions, and dynamics of an aquatic habitat type or a riparian area type that currently exists in the region where the proposed NWP 27 activity is located. Alternatively, an ecological reference may be based on a conceptual model for the aquatic habitat type or riparian area type to be restored, enhanced, or established as a result of the proposed NWP 27 activity. An ecological reference takes into account the range of variation of the aquatic habitat type or riparian area type in the region.

Enhancement: The manipulation of the physical, chemical, or biological characteristics of an aquatic resource to heighten, intensify, or improve a specific aquatic resource function(s). Enhancement results in the gain of selected aquatic resource function(s), but may also lead to a decline in other aquatic resource function(s). Enhancement does not result in a gain in aquatic resource area.

Establishment (creation): The manipulation of the physical, chemical, or biological characteristics present to develop an aquatic resource that did not previously exist at an upland site. Establishment results in a gain in aquatic resource area.

High Tide Line: The line of intersection of the land with the water's surface at the maximum height reached by a rising tide. The high tide line may be determined, in the absence of actual data, by a line of oil or scum along shore objects, a more or less continuous deposit of fine shell or debris on the foreshore or berm, other physical markings or characteristics, vegetation lines, tidal gages, or other suitable means that delineate the general height reached by a rising tide. The line encompasses spring high tides and other high tides that occur with periodic frequency but does not include storm

surges in which there is a departure from the normal or predicted reach of the tide due to the piling up of water against a coast by strong winds such as those accompanying a hurricane or other intense storm.

Historic Property: Any prehistoric or historic district, site (including archaeological site), building, structure, or other object included in, or eligible for inclusion in, the National Register of Historic Places maintained by the Secretary of the Interior. This term includes artifacts, records, and remains that are related to and located within such properties. The term includes properties of traditional religious and cultural importance to an Indian tribe or Native Hawaiian organization and that meet the National Register criteria (36 CFR part 60).

Independent utility: A test to determine what constitutes a single and complete non-linear project in the Corps Regulatory Program. A project is considered to have independent utility if it would be constructed absent the construction of other projects in the project area. Portions of a multi-phase project that depend upon other phases of the project do not have independent utility. Phases of a project that would be constructed even if the other phases were not built can be considered as separate single and complete projects with independent utility.

Indirect effects: Effects that are caused by the activity and are later in time or farther removed in distance, but are still reasonably foreseeable.

Loss of waters of the United States: Waters of the United States that are permanently adversely affected by filling, flooding, excavation, or drainage because of the regulated activity. The loss of stream bed includes the acres of stream bed that are permanently adversely affected by filling or excavation because of the regulated activity. Permanent adverse effects include permanent discharges of dredged or fill material that change an aquatic area to dry land, increase the bottom elevation of a waterbody, or change the use of a waterbody. The acreage of loss of waters of the United States is a threshold measurement of the impact to jurisdictional waters or wetlands for determining whether a project may qualify for an NWP; it is not a net threshold that is calculated after considering compensatory mitigation that may be used to offset losses of aquatic functions and services. Waters of the United States temporarily filled, flooded, excavated, or drained, but restored to pre-construction contours and elevations after construction, are not included in the measurement of loss of waters of the United States. Impacts resulting from activities that do not require Department of the Army authorization, such as activities eligible for exemptions under section 404(f) of the Clean Water Act, are not considered when calculating the loss of waters of the United States.

Navigable waters: Waters subject to section 10 of the Rivers and Harbors Act of 1899. These waters are defined at 33 CFR part 329.

Non-tidal wetland: A non-tidal wetland is a wetland that is not subject to the ebb and flow of tidal waters. Non-tidal wetlands contiguous to tidal waters are located landward of the high tide line (i.e., spring high tide line).

Open water: For purposes of the NWPs, an open water is any area that in a year with normal patterns of precipitation has water flowing or standing above ground to the extent that an ordinary high water mark can be determined. Aquatic vegetation within the area of flowing or standing water is either non-emergent, sparse, or absent. Vegetated shallows are considered to be open waters. Examples of “open waters” include rivers, streams, lakes, and ponds.

Ordinary High Water Mark: The term ordinary high water mark means that line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas.

Perennial stream: A perennial stream has surface water flowing continuously year-round during a typical year.

Practicable: Available and capable of being done after taking into consideration cost, existing technology, and logistics in light of overall project purposes.

Pre-construction notification: A request submitted by the project proponent to the Corps for confirmation that a particular activity is authorized by nationwide permit. The request may be a permit application, letter, or similar document that includes information about the proposed work and its anticipated environmental effects. Pre-construction notification may be required by the terms and conditions of a nationwide permit, or by regional conditions. A pre-construction notification may be voluntarily submitted in cases where pre-construction notification is not required and the project proponent wants confirmation that the activity is authorized by nationwide permit.

Preservation: The removal of a threat to, or preventing the decline of, aquatic resources by an action in or near those aquatic resources. This term includes activities commonly associated with the protection and maintenance of aquatic resources through the implementation of appropriate legal and physical mechanisms. Preservation does not result in a gain of aquatic resource area or functions.

Re-establishment: The manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural/historic functions to a former aquatic resource. Re-establishment results in rebuilding a former aquatic resource and results in a gain in aquatic resource area and functions.

Rehabilitation: The manipulation of the physical, chemical, or biological characteristics of a site with the goal of repairing natural/historic functions to a degraded aquatic resource. Rehabilitation results in a gain in aquatic resource function, but does not result in a gain in aquatic resource area.

Restoration: The manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural/historic functions to a former or degraded aquatic resource. For the purpose of tracking net gains in aquatic resource area, restoration is divided into two categories: re-establishment and rehabilitation.

Riffle and pool complex: Riffle and pool complexes are special aquatic sites under the 404(b)(1) Guidelines. Riffle and pool complexes sometimes characterize steep gradient sections of streams. Such stream sections are recognizable by their hydraulic characteristics. The rapid movement of water over a course substrate in riffles results in a rough flow, a turbulent surface, and high dissolved oxygen levels in the water. Pools are deeper areas associated with riffles. A slower stream velocity, a streaming flow, a smooth surface, and a finer substrate characterize pools.

Riparian areas: Riparian areas are lands next to streams, lakes, and estuarine-marine shorelines. Riparian areas are transitional between terrestrial and aquatic ecosystems, through which surface and subsurface hydrology connects riverine, lacustrine, estuarine, and marine waters with their adjacent wetlands, non-wetland waters, or uplands. Riparian areas provide a variety of ecological functions and services and help improve or maintain local water quality. (See general condition 23.)

Shellfish seeding: The placement of shellfish seed and/or suitable substrate to increase shellfish production. Shellfish seed consists of immature individual shellfish or individual shellfish attached to shells or shell fragments (i.e., spat on shell). Suitable substrate may consist of shellfish shells, shell fragments, or other appropriate materials placed into waters for shellfish habitat.

Single and complete linear project: A linear project is a project constructed for the purpose of getting people, goods, or services from a point of origin to a terminal point, which often involves multiple crossings of one or more waterbodies at separate and distant locations. The term “single and complete project” is defined as that portion of the total linear project proposed or accomplished by one owner/developer or partnership or other association of owners/developers that includes all crossings of a single water of the United States (i.e., a single waterbody) at a specific location. For linear projects crossing a single or multiple waterbodies several times at separate and distant locations, each crossing is considered a single and complete project for purposes of NWP authorization. However, individual channels in a braided stream or river, or individual arms of a large, irregularly shaped wetland or lake, etc., are not separate waterbodies, and crossings of such features cannot be considered separately.

Single and complete non-linear project: For non-linear projects, the term “single and complete project” is defined at 33 CFR 330.2(i) as the total project proposed or accomplished by one owner/developer or partnership or other association of owners/developers. A single and complete non-linear project must have independent utility (see definition of “independent utility”). Single and complete non-linear projects may not be “piecemealed” to avoid the limits in an NWP authorization.

Stormwater management: Stormwater management is the mechanism for controlling stormwater runoff for the purposes of reducing downstream erosion, water quality degradation, and flooding and mitigating the adverse effects of changes in land use on the aquatic environment.

Stormwater management facilities: Stormwater management facilities are those facilities, including but not limited to, stormwater retention and detention ponds and best management practices, which retain water for a period of time to control runoff and/or improve the quality (i.e., by reducing the concentration of nutrients, sediments, hazardous substances and other pollutants) of stormwater runoff.

Stream bed: The substrate of the stream channel between the ordinary high water marks. The substrate may be bedrock or inorganic particles that range in size from clay to boulders. Wetlands contiguous to the stream bed, but outside of the ordinary high water marks, are not considered part of the stream bed.

Stream channelization: The manipulation of a stream's course, condition, capacity, or location that causes more than minimal interruption of normal stream processes. A channelized jurisdictional stream remains a water of the United States.

Structure: An object that is arranged in a definite pattern of organization. Examples of structures include, without limitation, any pier, boat dock, boat ramp, wharf, dolphin, weir, boom, breakwater, bulkhead, revetment, riprap, jetty, artificial island, artificial reef, permanent mooring structure, power transmission line, permanently moored floating vessel, piling, aid to navigation, or any other manmade obstacle or obstruction.

Tidal wetland: A tidal wetland is a jurisdictional wetland that is inundated by tidal waters. Tidal waters rise and fall in a predictable and measurable rhythm or cycle due to the gravitational pulls of the moon and sun. Tidal waters end where the rise and fall of the water surface can no longer be practically measured in a predictable rhythm due to masking by other waters, wind, or other effects. Tidal wetlands are located channelward of the high tide line.

Tribal lands: Any lands title to which is either: 1) held in trust by the United States for the benefit of any Indian tribe or individual; or 2) held by any Indian tribe or individual subject to restrictions by the United States against alienation.

Tribal rights: Those rights legally accruing to a tribe or tribes by virtue of inherent sovereign authority, unextinguished aboriginal title, treaty, statute, judicial decisions, executive order or agreement, and that give rise to legally enforceable remedies.

Vegetated shallows: Vegetated shallows are special aquatic sites under the 404(b)(1) Guidelines. They are areas that are permanently inundated and under normal circumstances have rooted aquatic vegetation, such as seagrasses in marine and estuarine systems and a variety of vascular rooted plants in freshwater systems.

Waterbody: For purposes of the NWPs, a waterbody is a “water of the United States.” If a wetland is adjacent to a waterbody determined to be a water of the United States, that waterbody and any adjacent wetlands are considered together as a single aquatic unit (see 33 CFR 328.4(c)(2)).

ADDITIONAL INFORMATION

Information about the U.S. Army Corps of Engineers Regulatory Program, including nationwide permits, may also be accessed at http://www.swt.usace.army.mil/Missions/Regulatory.aspx or http://www.usace.army.mil/Missions/CivilWorks/RegulatoryProgramandPermits.aspx

Stormwater Pollution and Prevention Plan (SWPPP)

Hudson River-Black River Regulating District

STORM WATER POLLUTION PREVENTION PLAN

Old Forge Dam and Sixth Lake Dam - Rehabilitation

April 2025

Old Forge Dam and Sixth Lake Dam - Rehabilitation

Hamilton and Herkimer Counties

Towns of Webb and Inlet, New York

STORMWATER POLLUTION PREVENTION PLAN

Old Forge Dam and Sixth Lake Dam - Rehabilitation

April 2025

Prepared By:
Arcadis of New York, Inc.
646 Plank Road, Suite 100
Clifton Park
New York 12065
Phone: 518 250 7300
Fax: 518 371 7310

Prepared For:
Hudson River-Black River Regulating District
54 State St., Suite 501
Albany, New York 12207

Our Ref:
30001381

_____
[Signature 1 Name]
[Title]

_____
[Signature 2 Name]
[Title]

_____
[Signature 3 Name]
[Title]

Version Control (optional)

Issue	Revision No.	Date Issued	Page No.	Description	Reviewed By

Contents

Tables

Figures

Appendices

Acronyms and Abbreviations

BMPs	Best Management Practices
CFR	Code of Federal Regulations
C&D	Construction and Demolition
FEMA	Federal Emergency Management Agency
FIRM	Flood Insurance Rate Map
DISTRICT	Hudson River-Black River Regulating District
MS4	Municipal Separate Storm Sewer System
NOI	Notice of Intent
NOT	Notice of Termination
NYCRR	New York State Codes, Rules and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOT	New York State Department of Transportation
NWI	National Wetlands Inventory
OSHA	Occupational Safety and Health Administration
PE	Professional Engineer
PMF	Probable Maximum Flood
POTW	Publicly Owned Treatment Works
ROW	Right-of-way
SDF	Spillway Design Flood
SPDES	New York State Pollution Discharge Elimination System
SWPPP	Stormwater Pollution Prevention Plan
USDA	United States Department of Agriculture
USFWS	United States Fish and Wildlife Service

Executive Summary

This Stormwater Pollution Prevention Plan (SWPPP) has been prepared for the Old Forge and Sixth Lake Dam Rehabilitation Project. Old Forge Dam and Sixth Lake Dam are owned and operated by the Hudson River-Black River Regulating District (District) and are situated in the Town of Webb (Herkimer County) and the Town of Inlet (Hamilton County), respectively, in New York State. The purpose of the Old Forge and Sixth Lake Dam Rehabilitation project is to increase the dams' hydraulic capacity and address regulatory and safety concerns.

The goal of this SWPPP is to document the means and methods by which the proposed project will comply with the New York State Pollution Discharge Elimination System (SPDES) General Permit for Storm Water Discharges from Construction Activity GP-0-25-001. The erosion and sediment control devices included in this SWPPP were selected to minimize the discharge of pollutants and to assist in avoiding a violation of the water quality standards, as discussed in the Construction General Permit under Part II.B *Effluent Limitations Applicable to Discharges from Construction Activities* and are in accordance with the New York State Standards and Specifications for Erosion and Sediment Control, November 2016 version. This project is not subject to the requirements of a regulated, traditional land use control Municipal Separate Storm Sewer System (MS4).

1 Introduction

1.1 Background and Project Description

Old Forge Dam

The DISTRICT owns and operates the Old Forge Dam, located in Old Forge, Herkimer County, NY, on the Moose River. The dam impounds First Lake, Second Lake, Third Lake, Fourth Lake, and Fifth Lake and is part of a system of water control structures used to manage flows within the Black River watershed for the purposes of flood protection and low flow augmentation. Old Forge Dam is classified as a Hazard Class B dam, which is an intermediate hazard dam whose failure would likely cause flooding and damage to residential properties and interrupt utility operations but would likely not result in loss of life.

The existing configuration of the Dam is unable to meet the NYSDEC requirements for drawdown, spillway capacity, and stability. Additionally, concrete and steel structures and the sluice gates require increasing maintenance to address deterioration due to age and environmental factors. To address the deficiencies, regulations, and maintenance needs, the District selected a rehabilitation alternative which includes:

- Increasing the hydraulic capacity of the spillway to 150% of the 100-year storm required by current regulations by constructing a labyrinth spillway within the footprint of the existing dam structure.
- Relocating the discharge structure and increasing drawdown capacity to achieve the regulatory 14-day drawdown requirements and address concrete and steel deterioration and sluice gate operation.
- Addressing the deficient stability load cases.
- Performing structural repairs to remaining concrete structures.
- Constructing a new concrete downstream apron with energy dissipation and properly sized training walls to safely pass spillway flows.
- Addressing seepage through the rock joints.
- Ancillary features to improve operational reliability.

Sixth Lake Dam

DISTRICT owns and operates Sixth Lake Dam, located in the Town of Inlet, Hamilton County, NY, at the western edge of Sixth Lake, and to the east of NYS Route 28. The dam impounds Sixth Lake and Seventh Lake, which are part of the Fulton Chain of Lakes, and located at the headwaters of the Middle Branch of the Moose River, which is a tributary to the Black River. The Dam is part of a system of flow control structures used to manage the Black River watershed for the purposes of flood protection and baseline flow augmentation.

Sixth Lake Dam is classified as a Class C, high hazard dam, meaning the failure of the Dam would likely cause widespread damage to residential, public, industrial, or commercial properties; or interrupt important utility operations; or cause serious environmental damage. Loss of life or widespread economic loss resulting from failure of the dam is likely. Previous analyses of the existing dam hydraulics have determined the spillway is undersized and is incapable of passing the Spillway Design Flood (SDF) without over-topping the embankment of the dam. The proposed rehabilitation project would address regulatory concerns and includes:

- Increasing the hydraulic capacity of the spillway to pass the 0.5 Probable Maximum Flood required by current regulations by constructing a labyrinth spillway within the footprint of the existing dam structure.

- Replace the existing outlet structure increasing the discharge capacity to achieve the 14-day drawdown requirements and address concrete and steel deterioration and sluice gate operation.
- Addressing the deficient stability load cases.
- Constructing a new concrete downstream apron with energy dissipation and properly sized training walls to safely pass spillway flows.
- Installing a graded seepage filter blanket on the downstream embankment slope.
- Ancillary features to improve operational reliability.

1.2 Site Characteristics

Old Forge Dam

Old Forge Dam is located on Route 28 in the Town of Webb, upstream of the middle branch of the Moose River and downstream of First Lake as shown in **Figure 1**. The land uses in the vicinity of the Dam are commercial business, residential village, and seasonal residential. The hamlet of Old Forge is a destination for outdoor recreation and is located within the Adirondack Park.

The middle branch of the Moose River, just downstream of Old Forge Dam, is identified by the United States Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) as a Riverine, lower perennial, unconsolidated bottom, permanently flooded (R2UBH) system. The stream is classified as a Class C(T) stream indicating its suitability for recreation and to support trout populations. First Lake is classified by the USFWS NWI as a Lacustrine, Limnetic, Unconsolidated Bottom, Permanently Flooded, Diked/Impounded (L1UBHh) system lake. First Lake is designated by NYSDEC as a Class A waterbody that is impaired for its best use as a source of water supply.

There are no NYSDEC regulated freshwater wetlands in the vicinity of the project. Arcadis identified one potential wetland area southeast of the existing training wall, along the shore of First Lake during a field visit in 2018. Mapped NWI water resources are shown in **Figure 2**.

The Old Forge Dam project is in the vicinity of the Common Loon which is listed as a Species of Special Concern by NYSDEC (see **Figure 3**). There are no Critical Environmental Areas or Sensitive Resources in the Old Forge Dam project area.

The USFWS identifies the federally threatened Monarch Butterfly (Danaus plexippus) as potentially impacted by activities at the Old Forge Dam project site. However, no critical habitats are reported within this project area. The Official Species Lists is included in **Appendix A**. The project is not anticipated to have adverse effects on threatened or endangered species.

The primary soil type in the Old Forge Dam project area is Wolf Pond- Adams complex, 3 to 15 percent slopes which falls under Hydrologic Soil Group D. See **Appendix B** for soil information.

Old Forge Dam is located within Federal Emergency Management Agency (FEMA) Flood Zone A, which is has a 1% chance of flooding annually. The FEMA Flood Insurance Rate Map is included in **Appendix C**.

Sixth Lake Dam

The Sixth Lake Dam located in the Town of Inlet, NY, at the western edge of Sixth Lake, and to the east of NYS Route 28 and impounds Sixth Lake and Seventh Lake, as shown in **Figure 4**. The land uses in the vicinity of the Dam are primarily commercial and residential, and the Town of Inlet is located within the Adirondack Park.

The Dam impounds Sixth Lake, a tributary to the Fulton Chain of Reservoirs, which is classified as Class A(T) waterbody for best use classification of drinking water which can support trout population. Sixth Lake is listed as impaired for its best use as a water supply**.** Sixth Lake is identified by the United States Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) as a Lacustrine, Limnetic, Unconsolidated Bottom, Permanently Flooded, Diked/Impounded (L1UBHh) lake.

Just downstream of the Dam is a segment of the Middle Branch of the Moose River, which is classified as a Class C(T) stream for best use for recreation and to support trout populations. The USFWS NWI identified the entire corridor between the Dam and Route 28 as a palustrine, forested, mixed needle-leaved evergreen and broad-leaved deciduous, seasonally flooded/saturated (PFO4/1E) wetland system. The stream channel is classified by NWI as a riverine, unknown perennial, unconsolidated bottom, permanently flooded (R5UBH) system. Arcadis also identified a potential wetland area on the southern bank of the Moose River immediately downstream of the existing Dam and embankment during a field visit in 2018. Mapped NWI water resources are shown in **Figure 5**.

The project is in the vicinity of the Common Loon (*Gavia immer*) which is listed as a Species of Special Concern by NYSDEC (see **Figure 6**). There are no Critical Environmental Areas or Sensitive Resources in the project area.

The USFWS identifies the federally threatened Monarch Butterfly (Danaus plexippus) as potentially occurring in the vicinity of the project site. However, no critical habitats are reported within the project area. The Official Species Lists is included in **Appendix A**. The project is not anticipated to have adverse effects on threatened or endangered species.

The primary soil type in the Sixth Lake Dam project area is Skerry-Becket Complex, 3 to 15 percent slopes, very bouldery, which falls under hydrologic soil group B/D. See **Appendix B** for soil information.

A FEMA Flood Insurance Rate Map has not been developed for the Sixth Lake project area.

1.3 SWPPP Goals and Objectives

The goal of this Storm Water Pollution Prevention Plan (SWPPP) is to document the means and methods by which the proposed project will comply with the New York State Pollution Discharge Elimination System (SPDES) General Permit for Storm Water Discharges from Construction Activity GP-0-25-001. Specific stormwater management objectives include:

- Minimize the potential erosion of existing soil/sediment within work areas.
- Minimize the potential for the conveyance of sediment laden storm water beyond the project work limits; and
- Minimize accumulation of water within active work areas.

The SWPPP has been prepared in accordance with the following guidance documents:

- New York Standards and Specification for Erosion and Sediment Control, by New York State Department of Environmental Conservation, November 2016.

- SPDES General Permit for Storm Water Discharges from Construction Activities, GP-0-25-001, by New York State Department of Environmental Conservation, January 2025.

The SWPPP is intended to be a “living” document. The document should be revised and updated by a qualified professional whenever site conditions dictate.

1.4 Pre-Development Conditions

Old Forge Dam

The Dam was reportedly built as a timber crib dam circa 1881 and replaced with a concrete dam circa 1905. The Dam has received several upgrades and repairs during its lifetime, with the most recent in 1953 when the concrete ogee spillway was repaired. The 1953 engineering design drawings indicate that the Dam is founded on rock. The Dam is presently equipped with an ogee shaped spillway and two outlets which are controlled by sluice gates.

Old Forge Dam is a concrete structure approximately 129 feet long based on a 2018 survey. The maximum height of the dam is approximately 18 feet with a crest elevation of approximately 1,709 feet. The crest of the dam is 2.5 feet wide in the southernmost 30 feet of the dam and expands to 5 feet wide where it reaches the gatehouse. To the north of the spillway the concrete dam is 2.5 feet wide and spans approximately 23 feet. On the downstream face of the dam, the spillway transitions to an irregular concrete apron, approximately 8 feet long. Beyond the concrete apron is the natural channel of the Middle Branch Moose River, which continues for approximately 2,200 feet, before entering the Moose River.

The spillway of the Old Forge Dam is a concrete ogee shaped spillway. The crest of the spillway is 36 feet long and was designed with a crest elevation of 1,706 feet. The spillway can receive 1-foot-high timber flashboards along its crest during the summer recreational period and First Lake is operationally maintained approximately 0.3 feet below the top of the flashboards during that period. DISTRICT staff remove the timber flashboards when a large rain event is anticipated to provide additional discharge capacity.

Sixth Lake Dam

The Dam was originally built as a timber crib and concrete structure in 1904 with several upgrades and repairs since its original construction. The Dam is presently equipped with an ogee shaped spillway and two outlets that are controlled by sluice gates.

Sixth Lake Dam is a concrete and embankment structure approximately 202 feet long with a maximum height of approximately 17 feet. The crest elevation is approximately 1,791 feet. The Dam consists of a concrete spillway, an outlet structure in-line with the original channel and embankments on either side of the concrete structures. The spillway of Sixth Lake Dam is a concrete ogee shaped spillway with a crest elevation of 1,786 feet, a length of approximately 24.5 feet, a width of 24.8 feet, and a 5.1-foot-wide concrete apron downstream of the spillway. At the right side of the spillway is the concrete outlet structure, which is used to control the water level in Sixth Lake by opening or closing one or both 3-ft by 3-ft vertical lift gates.

The embankment consists of two sections, one north of the concrete section and one to the south. The embanking crest has an elevation of 1,791 feet. The right (north) embankment is approximately 49 feet long and the left (south) embankment is approximately 113 feet long. The crest of the north embankment is paved, and the crest of the south embankment is vegetated. The crest of the embankments are approximately 10 feet wide. The

embankments are composed of loose to dense silty sands. Portions of the original rock-filled timber crib Dam are still present at the embankment location and can be seen below the water surface.

The watershed area for Sixth Lake is reported in the New York State Inventory of Dams as 17 square miles. The watershed encompasses the upper parts of the Fulton Chain of Lakes, including Sixth Lake, Seventh Lake, and Eighth Lake. The watershed is heavily forested and mountainous and is made up of large swaths of unpopulated and undeveloped land. Most of the watershed is part of the Moose River Plains Wild Forest and the Pigeon Lake Wilderness, where development is strictly limited.

1.5 Post Development Conditions

Old Forge Dam

The hydrologic and hydraulic conditions of the Old Forge project area will change as a result of the proposed improvements. The most significant change will be the increase in the hydraulic capacity of the spillway to 150% of the 100-year storm required by current regulations. This increase capacity would mitigate the potential for the dam to overtop during the spillway design flood.

Old Forge Dam rehabilitation will result in additional 1,140 square feet of impervious area near the existing wing wall and gate house (see **Figure 7**), however the amount of stormwater runoff is not expected to increase. The existing area is a rock covered grassy slope on the southern bank of the Moose River. The soil has a hydrologic soil group rating D and has slopes of 0.6 ft/ft. Rainfall in this area likely runs off into the river downstream of Old Forge Dam rather than infiltrating into the soil because of the high slope, rocky cover, and soil rating.

The Old Forge Dam rehabilitation project will result in at total disturbance area of 0.95 acres that includes 5,300 square feet of temporary waterway disturbance, 800 square feet of temporary wetland disturbance, and 5,200 square feet of permanent waterway disturbance. Refer to **Figure 7**. Temporarily disturbed areas will be restored to their original conditions and plants that are disturbed will be revegetated with native plants.

Temporary, limited, and localized, redirection of stormwater flow will occur during construction. Best Management Practices will be implemented during construction including proper sizing and use of grassed swales, turbidity curtains, check dams, filter berms, sediment basins, sediment traps, and other stormwater management features.

Sixth Lake Dam

The hydrologic and hydraulic conditions if the Sixth Lake project area will change as a result of the proposed rehabilitation. The rehabilitated spillway will have increased hydraulic capacity to pass the 0.5 Probably Maximum Flood. This increase capacity would mitigate the potential for the dam to overtop during the spillway design.

The existing dam's vegetated embankment, to the south of the existing spillway, will be replaced with the rehabilitated concrete spillway, discharge apron, and training wall. This will add 5,700 square feet of impervious area, as shown in **Figure 8**. Part of the existing downstream embankment has been identified as a potential wetland, and 1,300 square feet of permanent wetland disturbance is anticipated. The existing vegetated embankment acts to impound Sixth Lake, has slopes of 0.37 ft/ft and has as hydrologic soil group rating of B/D. Rainfall in this area likely runs off into Sixth Lake or the river downstream of the dam rather than infiltrating into the soil because of the high slope and soil rating.

The Sixth Lake Dam rehabilitation will disturb a total of 1.3 acres. The project will result in 4,100 square feet of temporary waterway disturbance, 2,500 square feet of temporary stream disturbance and 200 square feet of

temporary wetland disturbance. Additionally, 4,400 square feet of permanent waterway disturbance will occur. Approximately 0.24 acres of trees will be removed. Temporarily disturbed areas will be restored to their original conditions and revegetated with native vegetation.

Temporary, limited, and localized, redirection of stormwater flow will occur during construction. Best Management Practices will be implemented during construction including proper sizing and use of grassed swales, turbidity curtains, check dams, filter berms, sediment basins, sediment traps, and other stormwater management features.

2 Construction Schedule and Sequencing

The following list describes the general sequence that will be implemented for the project. More detailed construction sequencing can be found in **Appendix D** - Contract Drawings. Detailed means and methods to be used during the construction will be described in the contractor's work plan, as required in the Contract Documents.

The construction schedule is anticipated to start in the fall of 2025 and to be completed by the fall of 2027.

Phase 1 Construction

1. Install sediment and erosion controls.
2. Install turbidity curtain and temporary cofferdam.
3. Install post tension anchors (Old Forge only).
4. Demolition of non-overflow section of existing dam.
5. Excavation of existing Embankment (Sixth Lake only).
6. Construction of portion of spillway, discharge conduits, discharge slab, and training walls.
7. Construction of outlet works (Old Forge only).
8. Electrical and standby generator installation.

Phase II construction:

9. Relocate turbidity curtain and coffer dam.
10. Demolition of existing spillway and outlet structure.
11. Construction of outlet works (Sixth lake only).
12. Construction of remaining spillway, discharge slab, and training wall.
13. Electrical and standby generator installation (Sixth lake only).
14. Installation of docks and walking path (Old Forge only).
15. Site restoration and clean up.

** Some activities will overlap.

3 Pollution Prevention

Pollution prevention measures shall be used to prevent construction materials (e.g., litter, construction debris) from coming into contact with runoff. Measures shall include the use of good housekeeping techniques and the proper disposal of construction and demolition debris (C&D debris), equipment fuel, lubricants, paints and solvents, asphalt, concrete, topsoil, and other materials. Additionally, controls shall be implemented to prevent sediment from being tracked off-site by construction vehicles and to property control non-storm water flows on the Site.

3.1 Materials Management to Prevent or Reduce Waste

Pesticides, fertilizers, fuels, lubricants, petroleum products, anti-freeze, paints and paint thinners, cleaning solvents and acids, detergents chemical additives, and concrete curing compounds shall be stored in containers in a dry covered area. Manufacturers' recommended application rates, uses, and methods shall be strictly followed to the extent necessary to prevent or minimize the presence of waste from such materials in the stormwater discharge authorized by this permit. The preceding sentence does not apply to manufacturers' recommendations about fertilizer or other material that conflict with the erosion and sediment control component of the facility's SWPPP.

3.2 Waste Handling

The following requirements apply only to construction site waste that has the potential to be transported by the stormwater discharge authorized by this permit. The handling of waste building material, rubble, construction site waste, litter, hazardous wastes, and sanitary wastes shall conform with New York State Codes, Rules, and Regulations (NYCRR) and OSHA requirements for sanitation in 29 CFR 1926 (except where conformance is not relevant to the stormwater discharge authorized by this permit). Construction sites shall have one or more designated waste collection areas or containers that shall be emptied before filling. Staged waste containers shall be maintained to prevent waste materials from overflowing, leaking, or blowing out the container, and shall be covered as necessary. Spills, leaks, or overflows which do occur shall be cleaned up immediately.

Table 3-1 presents many of the most common construction materials and wastes with the greatest potential for adversely affecting stormwater quality. Those that are applicable to this project have been selected and the appropriate Best Management Practices (BMPs) and responsible parties have been identified.

Table 3-1 - Potential Construction and Waste Materials Located On-site

Material	Applicable to Site?	Appropriate BMPs	Responsible Party
Construction Wastes:			
Trees and shrubs removed during cleaning and grubbing or other phases of construction	Y	(1)	Contractor
Packaging materials (wood, paper, plastics, etc.)	Y	(1)	Contractor

Scrap or surplus building material, e.g., scrap metals, rubber, plastic and glass pieces, masonry products and other solid waste material	Y	(1)	Contractor
Paints and thinners	N	(1), (2), (3)	N/A
Materials resulting from demolition of structures (rubble, piping, well appurtenances, etc.)	Y	(1)	Contractor
Hazardous Products:			
Paints	N	(2), (3)	N/A
Acids for cleaning masonry surfaces	N	(2), (3)	N/A
Cleaning solvents	N	(2), (3)	N/A
Chemical additives used for soil stabilization (e.g., palliative such as calcium chloride)	N	(2), (3)	N/A
Concrete curing compounds and additives	N	(2), (3)	N/A
Contaminated soils	N	(4)	N/A
Contaminated sediment	N	(5)	N/A
Concrete	N	(6)	N/A
Sandblasting grit	N	(7)	N/A
Sanitary/Septic waste	Y	(8)	Contractor
Potential Risk Materials:			
Pesticides	N	(9)	N/A
Petroleum products	Y	(10)	Contractor
Fertilizers and detergents (nutrients)	Y	(11)	Contractor
Natural geologic drainage	Y	(12)	Contractor
Other			**Update as Needed**

BMPs for specific materials or activities have been identified below. Onsite training should be conducted on topics identified in this document to ensure personnel are adequately equipped to successfully implement the SWPPP during the project. BMPs are also outlined in the Final Design Specifications.

(1) BMPs for Construction Wastes:

a. Select a designated waste collection area on-site.
b. Provide an adequate number of containers with lids or covers that can be placed over the containers prior to rainfall.
c. Arrange for waste collection before containers overflow.
d. Provide cleanup for spill/overflow immediately.

e. Plan for additional containers and more frequent pickups during the demolition phase of construction.
f. Ensure that construction waste is collected, removed, and disposed of only at authorized disposal areas.
g. Check with the local solid waste management agency for specific guidance.

(2) BMPs for Hazardous Waste Disposal:

a. Check with local waste management authorities to determine what the requirements are for disposing of hazardous materials.
b. Use product before disposing of the container.
c. Do not remove the original product label form the container, it contains important information.
d. Do not mix products together unless specifically recommended by the manufacturer.
e. Follow the manufacturer's recommended method for disposal, which is often found on the label. The correct method of disposal varies by product.

(3) BMPs for Hazardous Products Management:

a. Place equipment to contain and clean up spills of hazardous material in the areas where these materials are stored or used.
b. Contain and clean up spills immediately after they occur.
c. Keep materials in a dry covered area.
d. Provide secondary containment for hazardous materials storage to prevent potential spills for reaching the environment.

(4) BMPs for Contaminated Soils Disposal:

a. Contact State or local solid waste regulatory agency concerning information and procedures necessary to treat or dispose of contaminated soils. Some landfills may accept contaminated soil; however, laboratory tests may be required prior to final decision. Private firms can also be consulted concerning disposal options.

(5) BMPs for Contaminated Sediment Disposal:

a. Contact State or local solid waste regulatory agency concerning information and procedures necessary to treat or dispose of contaminated sediments. Some landfills may accept contaminated sediments; however, laboratory tests may be required prior to final decision. Private firms can also be consulted concerning disposal options.

(6) BMPs for Residual Concrete Disposal:

a. Excess concrete and wash water must be disposed of in a manner that prevents leaching into the soil or discharge as stormwater from the Site. A concrete washout area has been designated at each project location. The concrete washout area includes a line impermeable berm. Emptying or wash out of excess concrete may be allowed on-site within the concrete washout area. Concrete was water shall be left to evaporate and harden, at which time they may be properly disposed of.

(7) BMPs for Sandblasting Grit Disposal:

a. Sandblasting grits are hazardous waste if they were used to clean structures where lead, cadmium, or chrome-based paints were used. They should not be washed into the storm or sanitary sewer.
b. Sandblasting grits should be isolated and collected.
c. A licensed waste management or transport and disposal firm should be contacted to dispose of this type of used grit.

(8) BMPs for Sanitary/Septic Wastes:

a. Sanitary or septic wastes that are generated on-site should be treated or disposed of in accordance with State or local requirements.
b. If self-contained, temporary facilities are used, then domestic waste haulers should be contracted to regularly remove the sanitary and septic wastes and to maintain the facilities in good working order.
c. Wastes should be treated to an appropriate level before discharging.
d. Facilities should be properly connected to the sanitary sewer system to prevent illicit discharges.
e. Untreated, raw sewage or septage should never be discharged or buried on-site.
f. Contact local government and State regulatory agencies to ensure compliance with State or local requirements.
g. If sewage is being discharged to the sanitary sewer, the local Publicly Owned Treatment Works (POTW) should be contacted.

(9) BMPs for Pesticides:

a. Store pesticides in a dry covered area.
b. Provide curbs or dikes to contain the pesticide if it should spill.
c. Have measures on-site to contain and clean up spills of pesticides.
d. Follow recommended application rates and methods (i.e., only apply the amounts necessary for the job).

(10) BMPs for Petroleum Products:

a. Provide equipment to contain and clean up petroleum spills in fuel storage areas or on-board maintenance and fueling vehicles.
b. Store petroleum products and fuel vehicles in covered areas where possible and construct dikes around containers to contain and spills.
c. Contain and clean up petroleum spills immediately.
d. Use preventative maintenance for on-site equipment (e.g., check for and fix gas or oil leaks in construction vehicles on a regular basis).
e. Follow manufacturers' instructions for proper application of asphaltic substances to reduce the risk of a spill.
f. Oversee filling operations, and use the following precautions:
    i. Conduct refueling on level ground within a designated area away from steep slopes.
    ii. Do not leave equipment unattended during refueling.
    iii. Do not re-fill internal combustion engine fuel tanks with a flammable liquid while the engine is running.
    iv. Replace fuel caps before starting the engine.

v. Secure (i.e., lock) fuel pump dispensers when not in use to avoid accidental fuel release.

g. Locate and operate diesel-powered pumps within a fully lined containment area.

(11) BMPs for Fertilizers/Detergents:

a. Limit the application of fertilizers to the area of disturbance and use the minimum recommended amounts.
b. Reduce exposure of nutrients to stormwater runoff by working the fertilizer deep into the soil (depth of four to six inches).
c. Apply fertilizer frequently at low application rates to reduce the amount washed away by stormwater.
d. Limit hydro seeding that contains lime and fertilizers, which are applied to the ground surface in one application because of the increased potential for stormwater to wash away fertilizers. Where possible, hydro seed using mulch and seed after working fertilizers into the soil.
e. Limit the use of detergents on-site: wash water containing detergents should not be discharged to the stormwater system.
f. Implement good erosion and sediment control to help reduce the amount of fertilizers and sediment that can leave the Site.
g. Apply fertilizers and use detergents only in the recommended manner and only in recommended amounts.

(12) BMPs for Natural Geologic Drainage:

a. Seal fractures in the bedrock with grout and bentonite this method will often reduce the amount of acid or alkaline seepage.

3.2.1 Soil Management

Classification decisions for disposal or reuse of excavated material will be made according to applicable Federal and New York State regulations. Soil or other materials may be reused on-site if they meet project geotechnical requirements as appropriate. Soils not reused on-site may be reused off-site at an approved beneficial reuse facility or will be taken to an appropriate licensed facility for disposal. The Construction Contractor will prepare a Waste Management Plan before the start of construction that will describe methods to be used to observe excavated materials from below the water table; methods for storing and moving hazardous and non-hazardous material; and will identify stockpiling, storage, treatment, and loading areas. Stored waste materials will be inspected weekly, and inspections will be documented. The Waste Management Plan will be reviewed by the Engineering Construction Manager. The Engineering Construction Manager will oversee waste management activities to ensure that work is performed in accordance with the plan.

Materials will be moved in accordance with a Traffic Control Plan to be prepared by the Contractor that will comply with New York State Department of Transportation (NYSDOT) or other agency requirements. The Engineering Construction Manager will verify that Traffic Control Plans have been approved by the appropriate parties before performing work in public right-of-way (ROW). The Engineering Construction Manager will also oversee implementation of traffic control procedures and equipment to ensure that they comply with the Traffic Control Plan.

3.3 Non-Storm Water Discharges

Stormwater permits for construction activities typically include a prohibition against non-stormwater discharges. However, permits may list some non-stormwater discharges that, when combined with stormwater discharges, may be authorized by the permit. These exemptions may be allowed, provided they are addressed in the SWPPP for the Site. **Table 3-2** summarizes the non-stormwater discharges which are typically permitted and identifies those that are applicable to this project.

Table 3-2 - Potential Non-Stormwater Discharges

Non-Stormwater Discharge	Applicable to Project?
Discharges form firefighting activities only when firefighting activities are emergencies/unplanned	No
Fire hydrant flushing	No
Potable water sources (including waterline flushing)	No
Uncontaminated groundwater (including dewatering groundwater infiltration)	Yes
Foundation or footing drains where flows are not contaminated with process materials such as solvents	No
Springs, riparian habitats, and wetlands	Yes
Irrigation water	No
Exterior building washdown	No
Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred and where detergents are not used	No
Air conditioning condensate	No

If a non-stormwater discharge is necessary, and is not included as one of the exempt activities, the Contractor shall do the following:

- Eliminate the source of the discharge.
- Apply for a separate permit of the discharge.
- Direct the discharge to a sanitary system. This should not occur until the operator of the sanitary sewer and treatment plan is contacted and approves of the discharge.

3.4 Spills Management

The Permittee will be responsible for implementing appropriate spill response procedures when responding to unplanned releases of oil, products, or other materials to soil, surface water, or sediment during the project. Spill kits shall be available on-site or adjacent to the Site for materials that could be used or applied on-site. Spills of such material shall be contained and cleaned up immediately. Cleaned up materials shall be properly disposed of. Spill response procedures will include the following:

- Stop the source of the spill: This will consist of shutting off the equipment and/or closing valves and stopping the leak; if possible.
- Contain the spill: If the spilled material is floating on the water surface, spill-absorbent pads/booms will be placed across the path of the floating spill. If the spilled material sinks below the water surface, a dam, weir, or other containment method will be used to stop the flow of the spilled material. If the spill occurs on land, a containment unit will be constructed to stop the flow of the spilled material. Absorbent material will be applied as necessary.
- Clean up the spill: Spills in water will be recovered using pumps, sorbent material, etc. as necessary until the spilled material is recovered (and no sheen or other evidence related to the spill is observed on the water surface). Spills on land will be recovered using pumps, sorbent material, and heavy equipment, as necessary until the spilled material is recovered. Other activities to be conducted during spill cleanup include removing impacted soil/sorbent pads; using rags and cleaning solution to remove excess spilled material from equipment.
- Containerize Spill Materials: Spill materials, impacted soil, sorbent pads, etc. will be containerized in New York State Department of Transportation (NYSDOT) approved containers. The containers will be labeled with the waste type and date of accumulation in accordance with applicable regulations. Samples will be collected to characterize the spilled materials for disposal.
- Dispose of spill materials: Impacted materials and spill cleanup debris will be disposed of at a facility permitted to accept the materials. Construction area supervisors will be responsible for coordinating and documenting the disposal activities.
- Performing Post-Spill Maintenance: Following cleanup of the spill, construction area supervisors will verity and document that used spill cleanup material and equipment have been disposed of or decontaminated, as appropriate. If the equipment that caused the spill cannot be properly repaired, replacement equipment will be obtained.

The following measures would be appropriate for a spill prevention and response plan:

- Store and handle materials to prevent spills.
  - Tightly seal containers.
  - Make sure containers are clearly labeled.
  - Stack containers neatly and securely.
  - Store containers on pallets in a covered area, where possible.
- Reduce stormwater contact if there is a spill.
  - Have cleanup procedures clearly posted.
  - Have cleanup material readily available.
  - Contain spilled liquid.
  - Stop the source of the spill.
  - Cover spill with absorbent material such as kitty litter or sawdust.
- Dispose of contaminated materials according to manufacturers' instructions or according to State or local requirements.
- Identify personnel responsible for responding to a spill of toxic or hazardous materials.
  - Provide personnel spill response training.

  - Post names of spill response personnel.
- Keep the spill area well ventilated.
- Use a private firm that specializes in cleanup, if necessary.

Petroleum releases must be reported to the NYS Spill Hotline (1-800-457-7362) within 2 hours of discovery in accordance with 17 NYCRR 32.2 and 32.4 unless they meet the following criteria:

- The quantity is less than 5 gallons; and
- The spill is contained and under the control of the spiller; and
- The spill has not and will not reach the State's water or land; and
- The spill is cleaned up within 2 hours of discovery.

Releases in excess of reportable quantities established under 40 CFR 110, 117, and 302 that occur within a 24-hour period must be reported to the National Response Center (1-800-424-8802).

3.5 Good Housekeeping

Good housekeeping practices are inexpensive, relatively east to implement, and are effective in preventing stormwater contamination. Specific activities that shall be completed by the Contractor include the following:

- Store chemicals, pesticides, fertilizers, fuels, etc. in accordance with the instructions on the Safety Data Sheet.
- Regularly dispose of garbage, rubbish, construction waste, and sanitary waste.
- Promptly clean up spills of liquid or dry materials that have occurred.
- Clean up sediments that have been tracked by vehicles or personnel or have been transported by wind or stormwater to other areas of the Site, to adjacent properties, or onto adjacent roadways. This should be done at regular intervals and whenever deemed necessary by the Engineer.

4 Erosion and Sediment Controls

Erosion and sediment control practices shall be implemented for construction activities where excavation, stripping, filling, grading, or earth movement takes place. The general sequence of actions in the Erosion and Sediment Control Plan is runoff control of peak flowrates and total stormwater volume, soil stabilization, and sediment control. The controls utilized for this project comply with the requirements set forth in the *New York State Standards and Specifications for Erosion and Sediment Control (November 2016).* Erosion Control and Staging Plans for each site are included in **Appendix D**.

4.1 Available Erosion and Sediment Control Measures

An erosion and sediment control plan must be prepared for land development and construction activities when it is determined that soil erosion and sedimentation, if not controlled, may have significant effect on the environment. Three basic methods are used to control erosion on construction sites: runoff and drainage control, soil stabilization, and sediment control.

Table 4-1 - Erosion and Sediment Control Measures

Controls	Locations/Areas Used	Project Stage
Turbidity Curtain	Within First Lake and Sixth Lake.	Install turbidity curtain before the coffer dam installation.
Protect Vegetation	Throughout Site.	Project start-up. Mark out limits of clearing as shown on Contract Drawings. Maintain vegetated buffers to extent practicable.
Silt Fence	Install down-gradient of soil disturbing activities and other locations as depicted on the Contract Drawings.	Install silt fencing as soon as possible in accordance with sequence of operations. Maintain throughout construction.
Check Dams	Install with silt fencing.	In accordance with corresponding silt fence.
Dust Control	Dust suppression methods shall be used across the Site.	Throughout construction.
Construction Road Stabilization	As shown on Contract Drawings.	Project start up
Perimeter Swale	Uphill of construction entrance, diverting drainage around Site.	Install with construction road installation.

5 Hydrologic/Hydraulic Controls

5.1.1 Description of Watershed

Old Forge Dam

The New York State Inventory of Dams reports that the watershed for Old Forge Dam is 52.4 square miles. The watershed encompasses the Fulton Chain of Lakes, including the Sixth Lake drainage area. Runoff from the watershed east of Inlet, NY is controlled by the Sixth Lake Dam, situated upstream of the Old Forge Dam. The watershed is heavily forested, mountainous, and is made up of large swaths of unpopulated and undeveloped land. Most of the watershed is part of the Fulton Chain of Lakes Wild Forest, Moose River Plains Wild Forest, and the Pigeon Lake Wilderness where development is strictly limited. The watershed includes parts of the Hamlet of Old Forge, the Town of Inlet, and the Hamlet of Eagle Bay.

Sixth Lake Dam

The watershed area for Sixth Lake is reported in the New York State Inventory of Dams as 17 square miles. The watershed encompasses the upper parts of the Fulton Chain of Lakes, including Sixth Lake, Seventh Lake, and Eighth Lake. The watershed is heavily forested and mountainous and is made up of large swaths of unpopulated and undeveloped land. Most of the watershed is part of the Moose River Plains Wild Forest and the Pigeon Lake Wilderness, where development is strictly limited.

5.1.2 Post Construction Stormwater Management Practices

Hydrologic and hydraulic analyses were conducted to design the proposed rehabilitation solutions for both Old Forge and Sixth Lake Dams. The rehabilitations would increase the hydraulic capacities of the spillways to meet current regulatory requirements. Each site would have an increased impervious area compared to pre-construction conditions; however the impact of these changes is anticipated to be minimal.

Dam rehabilitation projects are listed in Appendix B, Table 1 of the Stormwater Construction General Permit GP-0-25-001 - *'Construction Activities that Require the Preparation of a SWPPP that Only Includes Erosion and Sediment Controls*'. As such no permanent post construction Stormwater Management Practices are required.

6 Inspection, Reporting, and Recordkeeping Requirements

6.1 Inspections

Inspections must be conducted by a qualified inspector. A qualified inspector is defined as a person knowledgeable in the principles and practice of erosion and sediment controls, such as a licensed Professional Engineer, Certified Professional in Erosion and Sediment Control, licensed Landscape Architect, New York State Erosion and Sediment Control Certificate Program holder, or other Department endorsed individual(s). It also means someone working under the direct supervision of a licensed Professional Engineer or licensed Landscape

Architect, provided that person has training on the principles and practices of erosion and sediment control. There are four type of inspections that are required by GP-0-25-001:

1. Initial Inspection (Pre-Construction)
2. Regular Inspections (During Construction)
3. Temporarily Suspended Work Inspections (During Suspension)
4. Final Inspection (End of Construction)

The Owner's Qualified Inspector will be responsible for initial, regular, temporary suspension and final inspections and shall maintain a record of inspection reports in a site logbook. An example inspection form is provided in **Appendix E**.

6.1.1 Initial Site Inspection (Pre-Construction)

Prior to the start of construction, an initial assessment of the erosion and sediment controls shall be performed. The following items shall be completed and/or verified before soil-disturbing may commence:

- Mark out protected resources.
- Identify the drainage areas and adjacent water bodies.
- List and describe erosion and sediment control measures in place to protect disturbed areas and water bodies.
- Locate construction entrances and roads and describe stabilization measures in place to prevent mud and debris from being transported off-site.

Identify and locate perimeter sediment control, including silt fence, sediment traps and basins.

6.1.2 Regular Inspections (During Construction)

Following the start of construction, as stated in GP-0-25-001, a trained individual must be present to check on erosion and sediment controls during each inspection, the Qualified Inspector will record the following information:

- Date and time of inspection
- Name and title of person(s) performing inspection
- A description of the weather and soil conditions (e.g., dry, wet, saturated) at the time of the inspection
- A description of the condition of the runoff at points of discharge from the Site. This shall include identification of discharges of sediment from the Site. Include discharges from conveyance systems (i.e., pipes, culverts, ditches, etc.) and overland flow
- Identification of erosion and sediment control practices that need repair or maintenance
- Identification of erosion and sediment control practices that were not installed properly or are not functioning as designed and need to be reinstalled or replaced
- Description and sketch of areas that are disturbed at the time of the inspection and areas that have been stabilized (temporary and/or final) since the last inspection
- Current phase of construction of post-construction stormwater management practices and identification of construction that is not in conformance with the SWPPP and technical standards

- Corrective actions(s) that must be taken to install, repair, replace or maintain erosion and sediment control practices; and to correct deficiencies identified with the construction of the post-construction stormwater management practice(s).

Within one business day of the completion of an inspection, the Qualified Inspector will notify the Contractor or (Subcontractor) of corrective actions that need to be taken. The Contractor (or Subcontractor) shall begin implementing the corrective actions within one business day of this notification and shall complete the corrective actions in a reasonable time frame.

Inspections may be accompanied by supporting digital photographs when deemed necessary, with a date stamp, that clearly shows the condition of practices that have been identified as needing corrective actions and that clearly shows the condition of the practice(s) after corrective actions have been completed. Paper copies of the digital photographs shall be attached to the inspection report being maintained on-site within seven calendar days of the date of inspection.

6.1.3 Temporarily Suspended Work Inspections (During Suspension)

If the soil disturbance activities have been temporarily suspended (e.g., winter shutdown) and temporary stabilization measures have been applied to disturbed areas, the Qualified Inspector can stop conducting the maintenance inspections.

When soil disturbance activities have been shut down for partial project completion, the Qualified Inspector can stop conducting inspections if areas disturbed as of the project shutdown date have achieved final stabilization and post construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational. If soil disturbance activities are not resumed within 2 years from the date of shutdown, the owner or operator will have Qualified Inspector(s) perform a final inspection and certify that disturbed areas have achieved final stabilization, and temporary structural erosion and sediment control measures have been removed; and that post-construction stormwater management practices have been constructed in conformance with the SWPPP by signing the “Final Stabilization” and “Post-Construction Stormwater Management Practice” certification statement on the Notice of Termination (NOT).

6.1.4 Final Inspection (End of Construction)

Prior to construction termination, the Qualified Inspector will perform a final site inspection. The inspector will certify that the Site has undergone final stabilization using either vegetative or structural stabilization methods. Final stabilization means that soil-disturbing activities at the Site have ceased and a uniform vegetative cover over the entire pervious surface has been established in accordance with the Contract Documents, such as permanent landscape mulches, washed/crushed stone have been applied to disturbed areas that are not covered by permanent structures, concrete, or pavement.

6.2 Reporting and Recordkeeping

6.2.1 Record Keeping and Reporting Requirements

- Site inspection reports must be maintained on-site with the SWPPP.
- The SWPPP and construction drawings will be amended to document the final construction conditions.

- Once the project has been completed and the Notice of Termination (NOT) has been filed the Qualified Inspector shall provide the Owner with records related to stormwater compliance. The Owner shall retain copies of the SWPPP, and records of data used to complete the Notice of Intent (NOI), for a period of at least five years from the date that the Site is finally stabilized.
- A copy of the SWPPP shall be retained at the Site from the date of initiation of construction activities to the date of final stabilization.
- A written summary of the Contractor's status with regards to compliance with GP-0-25-001 shall be prepared at a minimum frequency of every three (3) months during the period of permit coverage.
- The NOI, SWPPP, and inspection reports must be made available for review and copying by person within five (5) business days of the owner or operator receiving a written request by such person to review the NOI, SWPPP or inspection reports. Copying of documents will be done at the requester's expense.

6.2.2 Notice Forms

6.2.2.1 Notice of Intent (NOI)

A NOI must be completed online, signed and submitted to the New York State Department of Environmental Conservation (NYSDEC) at least 5 business days before the planned start of soil-disturbing activities. By submitting the NOI to the NYSDEC, the Owner is certifying that a SWPPP has been prepared which follows the requirements of GP-0-25-001. Prior to submitting the NOI, the Contractor provide a detailed construction sequence, identify necessary modifications to the SWPPP, and sign required certifications.

6.2.2.2 Notice of Termination (NOT)

When final stabilization of the Site has taken place, the Contractor must submit a certification of final stabilization. After the Owner or Owner's Qualified Inspector has inspected the Site and accepted the certification, a NOT shall be submitted online by the Owner to the NYSDEC. The Contractor shall remove remaining temporary stormwater controls unless otherwise directed by the Owner or Owner's Engineer.

7 Certifications

7.1 Consultant/Owner Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that false statements made herein are punishable as a Class A misdemeanour pursuant to Section 210.45 of the Penal Law.

CONSULTANT CERTIFICATION

_____ _____

(Signature) (Date)

_____

(Printed Name and Title)

_____

(Company Name)

_____

(Address)

_____

(Telephone Number)

OWNER CERTIFICATION

_____ _____

(Signature) (Date)

_____

(Printed Name and Title)

_____

_____

_____

(Office Name, Address and Telephone Number)

7.2 Certification by Contractors

I certify under penalty of law that I understand and agree to comply with the terms and conditions of the Storm Water Pollution Prevention Plan and agree to implement any corrective actions identified by the qualified inspector during a site inspection. I also understand that the operator must comply with the terms and conditions of the most current version of the New York State Pollutant Discharge Elimination System (SPDES) Construction General Permit (CGP) for stormwater discharges from construction activities and that it is unlawful for any person to cause or contribute to a violation of water quality standards. Furthermore, I am aware that there are significant penalties for submitting false information, that I do not believe to be true, including the possibility of fine and imprisonment for knowing violations.

_____ _____

(Signature) (Date)

_____

(Printed Name and Title)

_____

_____

_____

(Office Name, Address and Telephone Number)

7.3 Sub-Contractor Certification

I certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the qualified inspector during a site inspection. I also understand that the operator must comply with the terms and conditions of the most current version of the New York State Pollutant Discharge Elimination System (SPDES) general permit for stormwater discharges from construction activities and that it is unlawful for any person to cause or contribute to a violation of water quality standards. Furthermore, I am aware that there are significant penalties for submitting false information, that I do not believe to be true, including the possibility of fine and imprisonment for knowing violations. All Subcontractors that will disturb soils as part of their work, have the potential to affect stormwater quality or quantity, or are responsible for implementing measures outlined in the SWPPP or contract documents, related to stormwater, shall sign the certification. Make additional copies of this sheet as needed.

_____ _____

(Signature) (Date)

_____

(Printed Name and Title)

_____

_____

_____

(Office Name, Address and Telephone Number)

Figures

HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
OLD FORGE DAM AND SIXTH LAKE DAM - REHABILITATION

OLD FORGE DAM PROJECT AREA

ARCADIS

FIGURE
1

HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
OLD FORGE DAM AND SIXTH LAKE DAM – REHABILITATION

SIXTH LAKE DAM PROJECT AREA

ARCADIS

FIGURE
2

LEGEND

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
OLD FORGE DAM AND SIXTH LAKE DAM - REHABILITATION

NATIONAL WETLANDS INVENTORY

ARCADIS

FIGURE
3

LEGEND

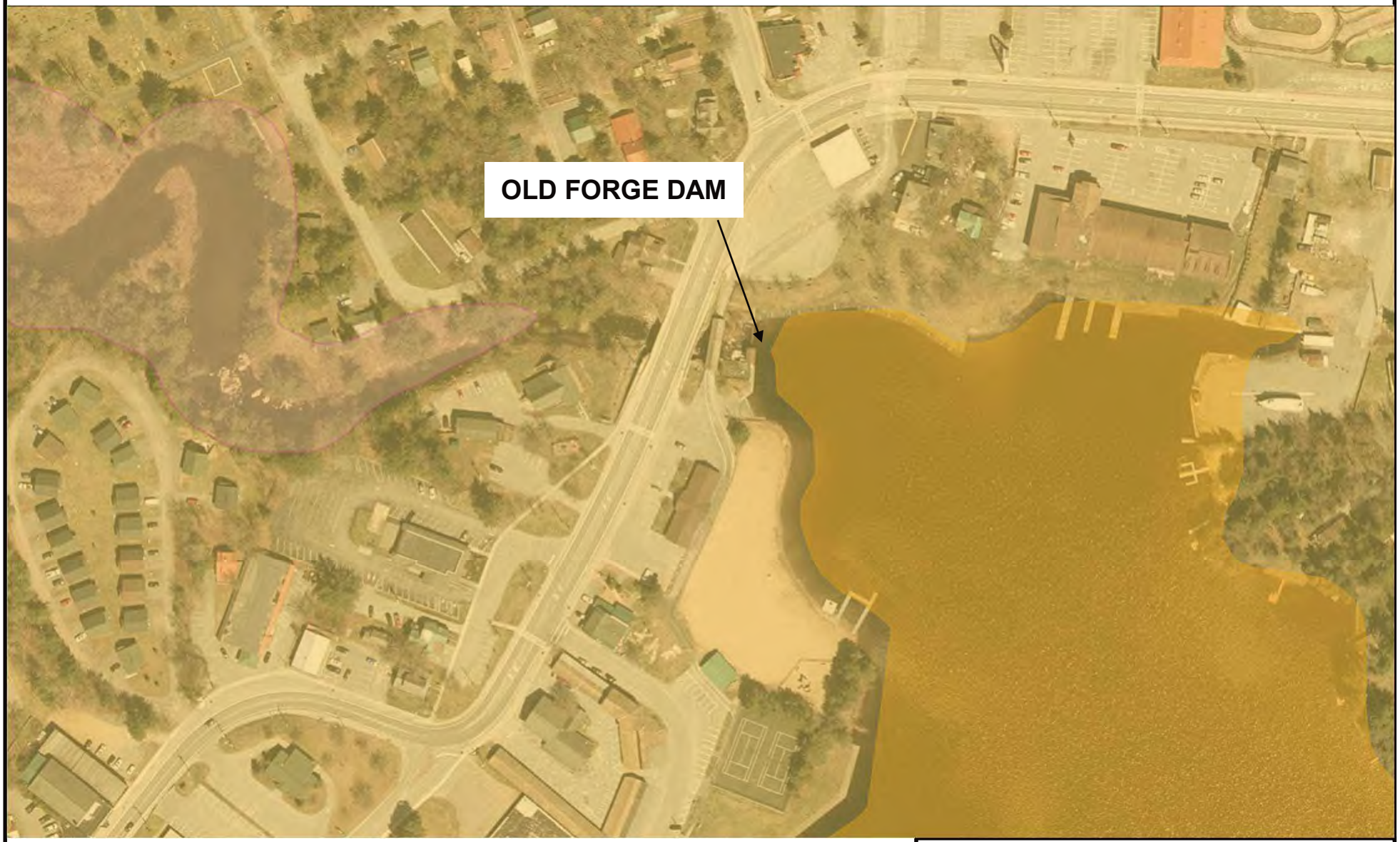
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
OLD FORGE DAM AND SIXTH LAKE DAM - REHABILITATION

NATIONAL WETLANDS INVENTORY

ARCADIS

FIGURE
4



LEGEND

- Significant Natural Communities
- Natural Communities Near This Location
- Rare Plants or Animals

HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
OLD FORGE DAM AND SIXTH LAKE DAM - REHABILITATION

OLD FORGE DAM ENVIRONMENTAL RESOURCE MAPPER

ARCADIS

FIGURE
5

LEGEND

- Significant Natural Communities
- Natural Communities Near This Location
- Rare Plants or Animals

HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
OLD FORGE DAM AND SIXTH LAKE DAM - REHABILITATION

SIXTH LAKE DAM ENVIRONMENTAL RESOURCE MAPPER

ARCADIS

FIGURE
6

NOTES:

1. CONTRACTOR SHALL ESTABLISH AND MAINTAIN BEST MANAGEMENT PRACTICES (BMPS) IN ACCORDANCE THE CURRENT VERSION OF THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL. CONTRACTOR SHALL ADHERE TO THE MORE PROTECTIVE OF THIS DOCUMENT, THE STORMWATER POLLUTION PREVENTION PLAN, OR PERMITS.
2. CONTRACTOR SHALL PROTECT EXISTING UTILITIES AND PROPERTY FROM DAMAGE. ANY DAMAGE SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE DISTRICT.
3. ACCESS TO THE SITE REQUIRES CROSSING OR ADJOINS ACTIVE PUBLIC AREAS. DELIVERIES SHALL BE RECEIVED NO EARLIER THAN 7:00 AM EST OR LATER THAN 5:00 PM EST. DELIVERIES OUTSIDE OF THESE HOURS SHALL BE COORDINATED IN WRITING NO LESS THAN 48 HOURS IN ADVANCE WITH THE DISTRICT AND ENGINEER.
4. TRUCKS SHALL NOT WAIT ALONG ROUTE 28 OR OTHER ROADS AND SHALL IMMEDIATELY ENTER THE CONTRACTORS LAYDOWN AREA.
5. THE CONTRCTORS LAYDOWN AREAS ARE TYPICALLY ASPHALT PAVED. CONTRACTOR SHALL MILL AND PAVE ASPHALT ARES WITHIN THE CONTRACTORS LAYDOWN AREAS PRIOR TO DEMOBILIZATION.
6. THE CONTRACTORS LAYDOWN AREA SHOWN EXTENDS ONTO PROPERTY OWNED BY THE TOWN OF WEBB. THE FINAL EXTENTS OF THIS AREA SHALL BE AS AGREED TO BY THE TOWN OF WEBB AND OWNER, PRIOR TO THE START OF CONSTRUCTION.
7. ADDITIONAL CONTRACTOR LAYDOWN AREA REQUIRED BY THE CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
8. CONTRACTOR SHALL PLACE GEOTEXTILE FABRIC OVER EXISTING SURFACES BEFORE PLACING TEMPORARY FACILITIES.
9. CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROLS AS SHOWN IN THE CONTRACT DOCUMENTS. CONTRACTOR MAY SUBSTITUTE COMPOST FILTER SOCK FOR SILT FENCE WHERE ALLOWED BY THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
10. CONTRACTOR SHALL INSTALL TURBIDITY CURTAIN AROUND WORK AREA AND PERFORM DAILY VISUAL MONITORING TO CONFIRM THAT TURBIDITY IS NOT ENTERING THE LAKE.
11. TURBIDITY CURTAIN SHALL BE INSTALLED PRIOR TO THE START OF COFFERDAM CONSTRUCTION, EXCAVATION, OR STRUCTURAL DEMOLITION AND BE MAINTAINED UNTIL THE COMPLETION OF THE WORK.
12. DEBRIS OR TRASH WITHIN THE LIMITS OF DISTURBANCE SHALL BE REMOVED AND DISPOSED OF AT CONTRACTORS EXPENSE.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING WATER WITHIN THE LIMITS OF DISTURBANCE DURING CONSTRUCTION.
14. CONTRACTOR SHALL KEEP THE WORK AREA WITHIN THE COFFERDAM DEWATERED TO ALLOW FOR MATERIALS, CONCRETE, ETC, TO BE PLACED UNDER DRY CONDITIONS.
15. CONTRACTOR SHALL PROVIDE ACCESS TO EXISTING GATES AND OPERATORS TO FACILITATE THE OWNERS MANAGEMENT OF THE LAKE LEVEL IN ACCORDANCE WITH THE ENVIRONMENTAL CONSERVATION LAW. CONTRACTOR SHALL PLACE SUPPORT FACILITIES (E.G., TRAILERS, SANITATION FACILITIES, ETC.) WITHIN THE LIMITS OF DISTURBANCE.
16. CONTRACTOR SHALL RESTORE DISTURBED AREAS WITHIN THE LIMITS OF DISTURBANCE TO PRE-CONSTRUCTION CONDITION, INCLUDING BUT NOT LIMITED TO NEW PAVING, TOPSOIL AND SEEDING, OR OTHER IN KIND RESTORATION.
17. PROVIDE TREE PROTECTION FOR ALL TREES REMAINING WITHIN THE CONTRACT LIMIT LINES.

ARCADIS

LEGAL ENTITY:
ARCADIS OF NEW YORK, INC.

CONSULTANTS

WARNING – IT IS A VIOLATION OF NEW YORK EDUCATION LAW, SECTION 7209.2, FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK LAW, SECTION 7209.2.

90% DESIGN DRAWINGS NOT FOR CONSTRUCTION

SEALS

HAMLET OF OLD FORGE
TOWN OF INLET

HUDSON RIVER
BLACK RIVER
REGULATING DISTRICT

OLD FORGE DAM AND SIXTH LAKE DAM – REHABILITATION

ARCADIS PROJ. NO. 30001381

NO.	DATE	ISSUED FOR	BY

DATE: OCTOBER 2024
PROJECT NO.: 30001381
FILE NAME: OF-G-05
DESIGNED BY: EJL
DRAWN BY: EJL
CHECKED BY: TM

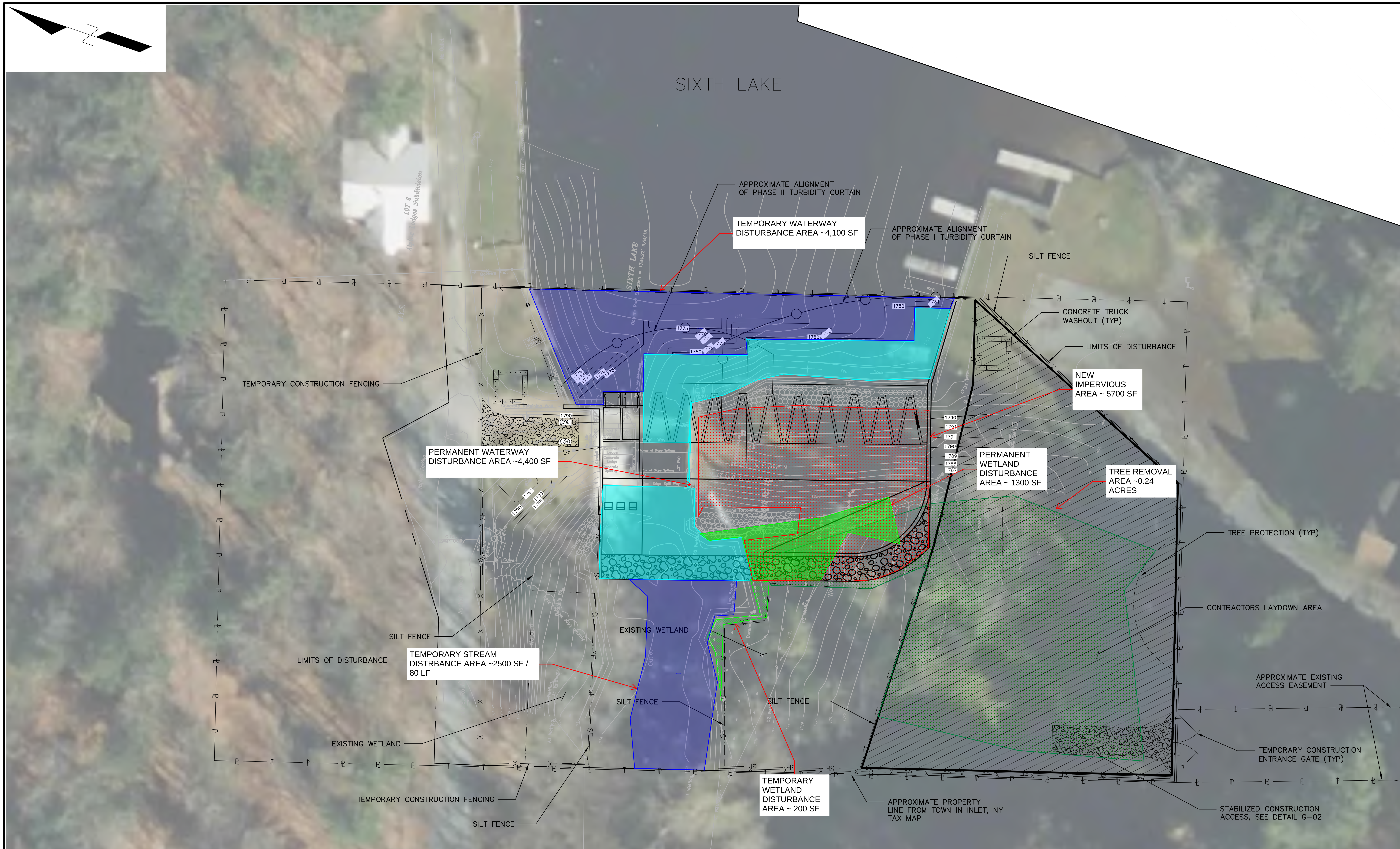
SHEET TITLE

GENERAL

OLD FORGE DAM DISTURBANCE AREAS

SCALE: AS NOTED

FIGURE 7



NOTES:

1. CONTRACTOR SHALL ESTABLISH AND MAINTAIN BEST MANAGEMENT PRACTICES (BMPS) IN ACCORDANCE THE CURRENT VERSION OF THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL. CONTRACTOR SHALL ADHERE TO THE MORE PROTECTIVE OF THIS DOCUMENT, THE STORMWATER POLLUTION PREVENTION PLAN, OR PERMITS.
2. CONTRACTOR SHALL PROTECT EXISTING UTILITIES AND PROPERTY FROM DAMAGE. ANY DAMAGE SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE DISTRICT.
3. ACCESS TO THE SITE REQUIRES CROSSING OR ADJOINS ACTIVE PUBLIC AREAS. DELIVERIES SHALL BE RECEIVED NO EARLIER THAN 7:00 AM EST OR LATER THAN 5:00 PM EST. DELIVERIES OUTSIDE OF THESE HOURS SHALL BE COORDINATED IN WRITING NO LESS THAN 48 HOURS IN ADVANCE WITH THE OWNER AND ENGINEER.
4. CONTRACTOR SHALL BE AWARE OF WATER TAXI ACTIVES OCCURRING IN THE LAKE, NORTHEAST OF THE DAM ALONG THE WOODEN BULKHEAD AND SIXTH LAKE ROAD. CONTRACTOR SHALL COORDINATE WITH THE OPERATOR TO PREVENT INTERFERENCE WITH THE CONSTRUCTION WORK.
5. CONTRACTOR SHALL NOT BLOCK SIXTH LAKE ROAD. REPAIR DAMAGE THAT OCCURS DURING THE WORK.
6. CONTRACTOR SHALL ACCESS THE SOUTHERN PORTION OF THE WORK VIA THE EASEMENT FROM ROUTE 28. CONTRACTOR SHALL NOT BLOCK ACCESS TO THE RESIDENCES, DOCKS, OR LAUNCH RAMP LOCATED SOUTH OF THE DAM. REPAIR DAMAGE THAT OCCURS DURING THE WORK.
7. TRUCKS SHALL NOT WAIT ALONG SIXTH LAKE ROAD, ROUTE 28 OR OTHER ROADS AND SHALL IMMEDIATELY ENTER THE CONTRACTORS LAYDOWN AREA.

NOTES (CONTINUED):

8. THE CONTRACTORS LAYDOWN AREAS ARE TYPICALLY ASPHALT PAVED AND SHALL BE PHOTOGRAPHED FOR CONDITION PRIOR TO MOBILIZATION. DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR PRIOR TO DEMOBILIZATION.
9. THE CONTRACTORS LAYDOWN AREA SHOWN EXTENDS ONTO PROPERTY ACCESSED VIA AN EASEMENT WITH THE OWNER. ACCESSED THROUGH THE EASEMENT SHALL NOT BE IMPACTED.
10. ADDITIONAL CONTRACTOR LAYDOWN AREA REQUIRED BY THE CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
11. CONTRACTOR SHALL PLACE GEOTEXTILE FABRIC OVER EXISTING SURFACES BEFORE PLACING TEMPORARY FACILITIES.
12. CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROLS AS SHOWN IN THE CONTRACT DOCUMENTS. CONTRACTOR MAY SUBSTITUTE COMPOST FILTER SOCK FOR SILT FENCE WHERE ALLOWED BY THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
13. CONTRACTOR SHALL PROTECT WETLANDS OUTSIDE OF THE LIMITS OF DISTURBANCE.
14. CONTRACTOR SHALL INSTALL TURBIDITY CURTAIN AROUND WORK AREA AND PERFORM DAILY VISUAL MONITORING TO CONFIRM THAT TURBIDITY IS NOT ENTERING THE LAKE.
15. TURBIDITY CURTAIN SHALL BE INSTALLED PRIOR TO THE START OF COFFERDAM CONSTRUCTION, EXCAVATION, OR STRUCTURAL DEMOLITION AND BE MAINTAINED UNTIL THE COMPLETION OF THE WORK.

NOTES (CONTINUED):

16. DEBRIS OR TRASH WITHIN THE LIMITS OF DISTURBANCE SHALL BE REMOVED AND DISPOSED OF AT CONTRACTOR'S EXPENSE.
17. CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING WATER WITHIN THE LIMITS OF DISTURBANCE DURING CONSTRUCTION.
18. CONTRACTOR SHALL KEEP THE WORK AREA WITHIN THE COFFERDAM DEWATERED TO ALLOW FOR MATERIALS, CONCRETE, ETC, TO BE PLACED UNDER DRY CONDITIONS.
15. CONTRACTOR SHALL PROVIDE ACCESS TO EXISTING GATES AND OPERATORS TO FACILITATE THE OWNERS MANAGEMENT OF THE LAKE LEVEL IN ACCORDANCE WITH THE ENVIRONMENTAL CONSERVATION LAW.
16. CONTRACTOR SHALL PLACE SUPPORT FACILITIES (E.G., TRAILERS, SANITATION FACILITIES, ETC.) WITHIN THE LIMITS OF DISTURBANCE.
17. CONTRACTOR SHALL RESTORE DISTURBED AREAS WITHIN THE LIMITS OF DISTURBANCE TO PRE-CONSTRUCTION CONDITION, INCLUDING BUT NOT LIMITED TO NEW PAVING, TOPSOIL AND SEEDING, OR OTHER IN KIND RESTORATION.
19. PROVIDE TREE PROTECTION FOR ALL TREES REMAINING WITHIN THE CONTRACT LIMIT LINES.

ARCADIS

LEGAL ENTITY:
ARCADIS OF NEW YORK, INC.

CONSULTANTS

90% DESIGN DRAWINGS NOT FOR CONSTRUCTION

SEALS

HAMLET OF OLD FORGE
TOWN OF INLET

HUDSON RIVER BLACK RIVER REGULATING DISTRICT

OLD FORGE DAM AND SIXTH LAKE DAM – REHABILITATION

ARCADIS PROJ. NO. 30001381

NO.	DATE	ISSUED FOR	BY

DATE: OCTOBER 2024
PROJECT NO.: 30001381
FILE NAME: OF-G-06
DESIGNED BY: EJL
DRAWN BY: EJL
CHECKED BY: TM

SHEET TITLE

GENERAL

SIXTH LAKE DAM DISTURBANCE AREAS

SCALE: AS NOTED

FIGURE 8

User:LANZAROTTA Spec:AUS-NCSMOD File:C:\USERS\LANZAROTTA\ARCADIS\OLD FORGE DAM & SIXTH LAKE DAM - DOCUMENTS\6.0 CADD\6.1 - OLD FORGE DAM CADD\03-SHEETS\GENERAL\OF-G-06.DWG
Scale:1:1 SavedDate:10/25/2024 Time:21:11 Plot Date: Lonzarotta, Eric; 10/30/2024; 13:53 ; Layout:G-06

Appendix A

United States Fish and Wildlife Service (USFWS) Official Species List

United States Department of the Interior

FISH AND WILDLIFE SERVICE
New York Ecological Services Field Office
3817 Luker Road
Cortland, NY 13045-9385
Phone: (607) 753-9334 Fax: (607) 753-9699
Email Address: fw5es_nyfo@fws.gov

In Reply Refer To: 02/20/2025 13:48:07 UTC
Project Code: 2025-0058867
Project Name: Old Forge Dam Rehabilitation

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)

(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see https://www.fws.gov/program/migratory-bird-permit/what-we-do.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see https://www.fws.gov/library/collections/threats-birds.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/partner/council-conservation-migratory-birds.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. **Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.**

Attachment(s):

- Official Species List

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New York Ecological Services Field Office
3817 Luker Road
Cortland, NY 13045-9385
(607) 753-9334

PROJECT SUMMARY

Project Code: 2025-0058867
Project Name: Old Forge Dam Rehabilitation
Project Type: Dam - Maintenance/Modification
Project Description: Rehabilitation of Old Forge Dam
Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@43.71275465,-74.96913471534276,14z

Counties: Herkimer County, New York

ENDANGERED SPECIES ACT SPECIES

There is a total of 1 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

---

1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

INSECTS

NAME	STATUS
Monarch Butterfly *Danaus plexippus* There is **proposed** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/9743	Proposed Threatened

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

IPAC USER CONTACT INFORMATION

Agency:	Private Entity
Name:	Meghan Fitzgerald
Address:	646 Plank Road
Address Line 2:	Suite 100
City:	Clifton Park
State:	NY
Zip:	12065
Email	meghan.fitzgerald@arcadis.com
Phone:	5182507269

United States Department of the Interior

FISH AND WILDLIFE SERVICE
New York Ecological Services Field Office
3817 Luker Road
Cortland, NY 13045-9385
Phone: (607) 753-9334 Fax: (607) 753-9699
Email Address: fw5es_nyfo@fws.gov

In Reply Refer To: 02/20/2025 13:55:41 UTC
Project Code: 2025-0058870
Project Name: Sixth Lake Dam Rehabilitation

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)

(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see https://www.fws.gov/program/migratory-bird-permit/what-we-do.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see https://www.fws.gov/library/collections/threats-birds.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/partner/council-conservation-migratory-birds.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. **Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.**

Attachment(s):

- Official Species List

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New York Ecological Services Field Office
3817 Luker Road
Cortland, NY 13045-9385
(607) 753-9334

PROJECT SUMMARY

Project Code: 2025-0058870
Project Name: Sixth Lake Dam Rehabilitation
Project Type: Dam - Maintenance/Modification
Project Description: Rehabilitation of Sixth Lake Dam
Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@43.74505885000001,-74.78291964515458,14z

Counties: Hamilton County, New York

ENDANGERED SPECIES ACT SPECIES

There is a total of 1 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

---

1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

INSECTS

NAME	STATUS
Monarch Butterfly *Danaus plexippus* There is **proposed** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/9743	Proposed Threatened

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

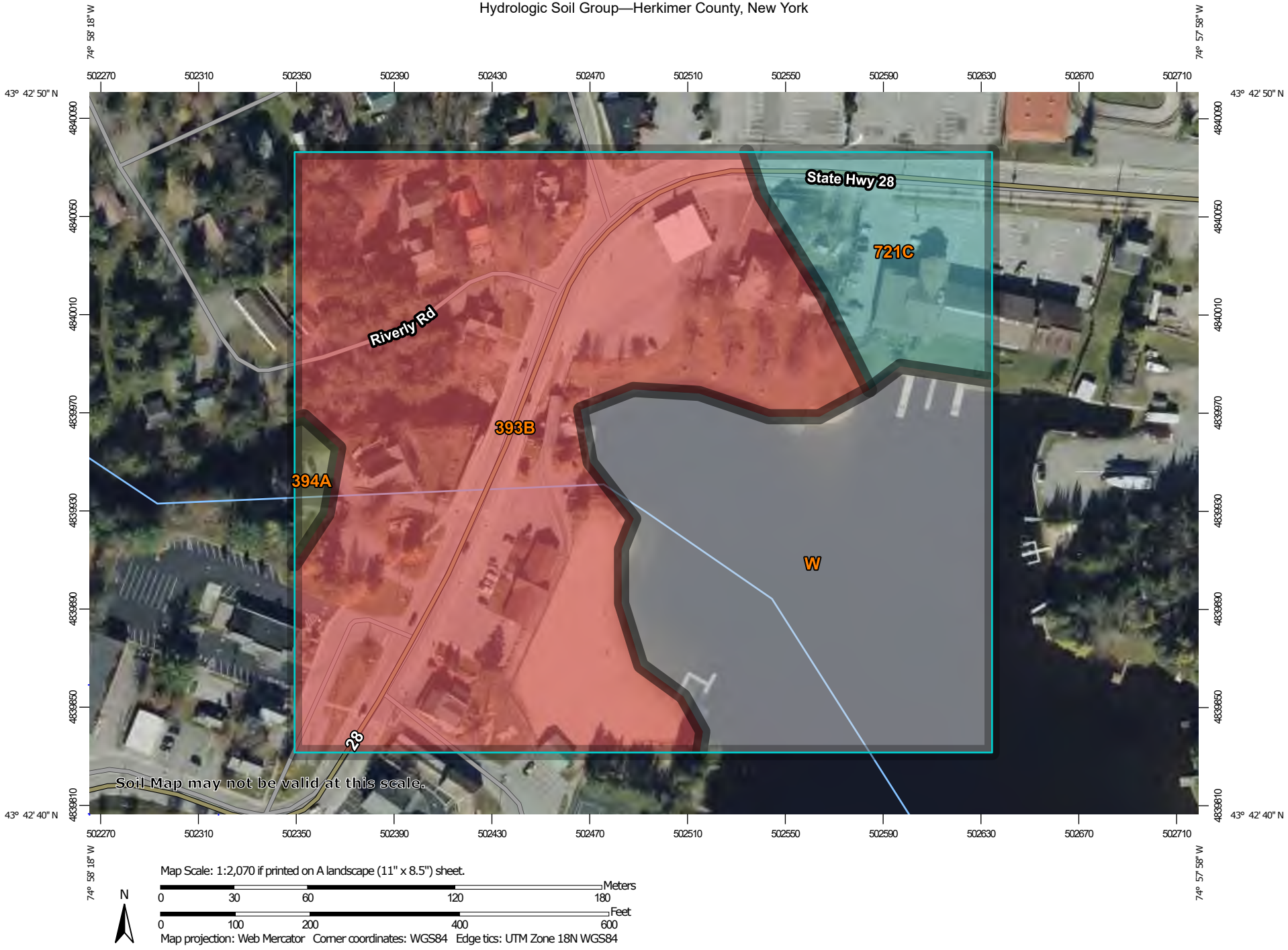
YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

IPAC USER CONTACT INFORMATION

Agency:	Private Entity
Name:	Meghan Fitzgerald
Address:	646 Plank Road
Address Line 2:	Suite 100
City:	Clifton Park
State:	NY
Zip:	12065
Email	meghan.fitzgerald@arcadis.com
Phone:	5182507269

Appendix B

United States Department of Agriculture (USDA) Web Soil Survey


74° 58' 18" W
74° 57' 58" W
43° 42' 50" N
43° 42' 40" N
502270
502310
502350
502390
502430
502470
502510
502550
502590
502630
502670
502710
4840090
4840050
4840010
4839970
4839930
4839890
4839850
4839810
State Hwy 28
721C
Riverly Rd
393B
394A
W
28
Soil Map may not be valid at this scale.
Map Scale: 1:2,070 if printed on A landscape (11" x 8.5") sheet.
N
Meters
0 30 60 120 180
Feet
0 100 200 400 600
Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

Soil Rating Polygons

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Herkimer County, New York
Survey Area Data: Version 7, Aug 30, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Sep 15, 2022—Oct 28, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
393B	Wolf Pond-Adams complex, 3 to 15 percent slopes	D	10.0	58.0%
394A	Kushaqua-Onchiota complex, 0 to 3 percent slopes	C/D	0.2	1.0%
721C	Becket-Tunbridge-Skerry complex, 3 to 15 percent slopes, rocky, very bouldery	C	1.7	10.1%
W	Water		5.4	30.9%
Totals for Area of Interest			**17.3**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

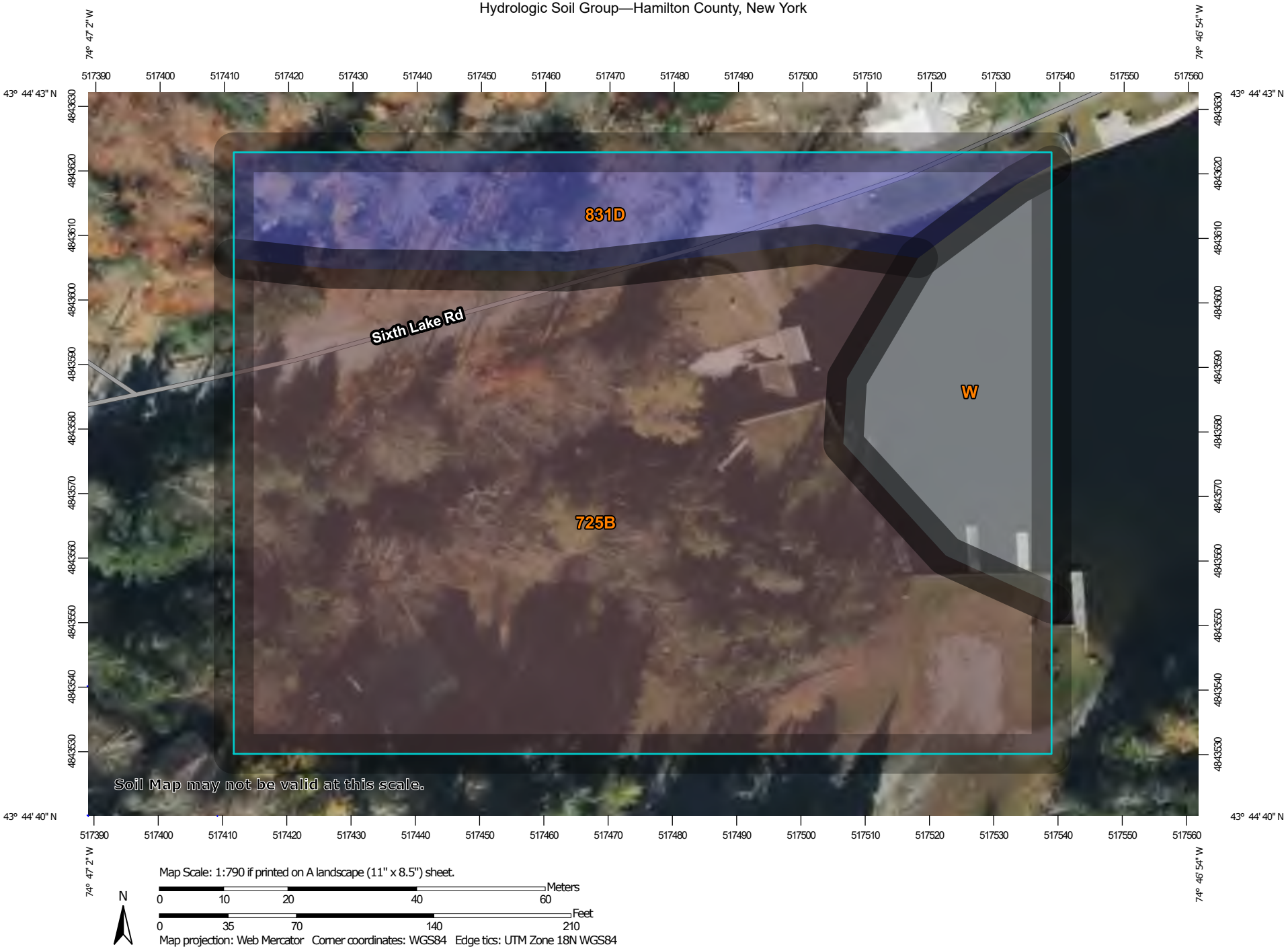
If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher



Map Scale: 1:790 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 10 20 40 60

Feet
0 35 70 140 210

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

Soil Rating Polygons

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:62,500.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Hamilton County, New York
Survey Area Data: Version 24, Aug 29, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Sep 9, 2022—Oct 22, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
725B	Skerry-Becket complex, 3 to 15 percent slopes, very bouldery	B/D	2.1	70.9%
831D	Tunbridge-Lyman complex, 15 to 35 percent slopes, very rocky, very bouldery	B	0.5	16.8%
W	Water		0.4	12.3%
Totals for Area of Interest			**2.9**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

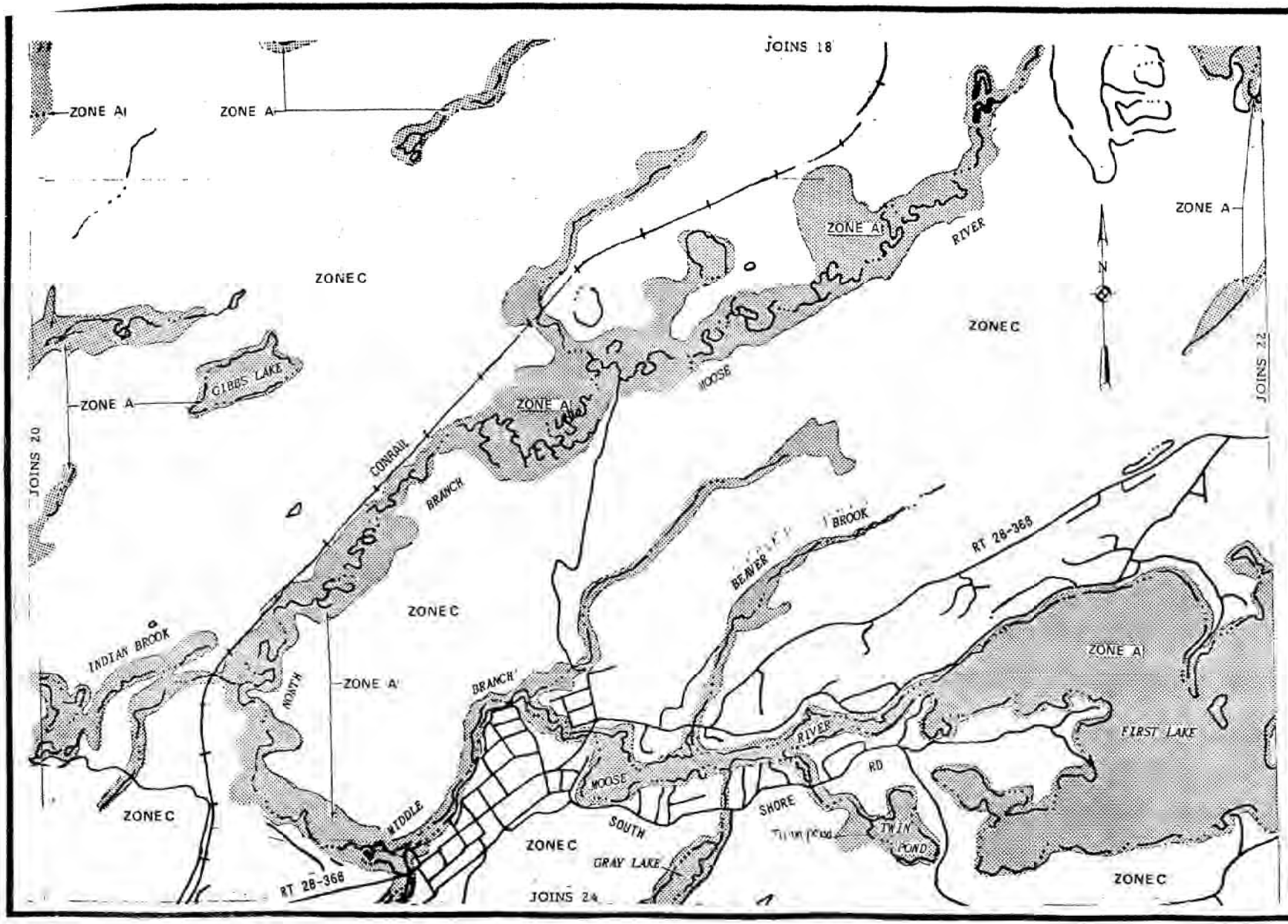
Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Appendix C

Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map


JOINS 18
ZONE A1
ZONE A
ZONE A1
RIVER
ZONE A
ZONE C
ZONE C
GIBBS LAKE
ZONE A
ZONE A1
MOOSE
JOINS 22
JOINS 20
CONRAIL
BRANCH
BEAVER
BROOK
RT 28-365
ZONE C
INDIAN BROOK
NORTH
ZONE A1
BRANCH
ZONE A1
RIVER
FIRST LAKE
MOOSE
RD
SHORE
SOUTH
TWIN
POND
ZONE C
MIDDLE
ZONE C
GRAY LAKE
ZONE C
RT 28-365
JOINS 24
N
APPROXIMATE SCALE
1000 0 2000 4000 6000 FEET
Effective Date
JULY 30, 1982
FLOOD HAZARD BOUNDARY MAP H-21
FLOOD INSURANCE RATE MAP I-21
FEDERAL EMERGENCY MANAGEMENT AGENCY
TOWN OF WEBB, NY
(HERKIMER CO.)
H & I-21

Appendix D

Selected Contract Drawings

Appendix E

SWPPP Inspection Form

CONSTRUCTION STORMWATER INSPECTION REPORT
FOR NYS SPDES GENERAL PERMIT GP-0-25-001

PROJECT:	**Page 1 of 4**
PERMITTEE:	**PROJECT LOCATION:**
ONSITE CONTACT:	**PERMIT AUTHORIZATION #**

INSPECTOR:	**DATE:**
WEATHER CONDITIONS:	**TIME IN: _____** **TIME OUT: _____**

Objective:

Frequency:

Reason for Inspection? Weekly Inspection Daily Inspection Rainfall Event

If rainfall event, provide information about rainfall event and current weather conditions:
_____
_____

Stage of construction: _____

Enter a response to each according to level of functionality/disrepair. Rate between 5 and 1 (good to bad):

5: **Excellent condition.** No action required at this time.

4: **Good condition.** Some minor repairs/changes required if so noted. Or maintenance not required but maintains observation of areas noted.

3: **Fair condition.** Several minor repairs/changes required if so noted. Significant maintenance likely required soon.

2: **Poor condition.** Repair/modify as noted. Major deficiencies observed.

1: **Bad condition.** Immediate attention is required.

N/A: Practice not being used.

General Site Condition	Rating (1 to 5)	N/A
Work is occurring within specified limits.		
Site activities are proceeding as described in the SWPPP.		
SWPPP maintained on site. Inspection reports up to date?		
Vegetation noted to be protected has been flagged/ protected as required.		
Notes:		

Housekeeping	Rating (1 to 5)	N/A
Dust is being controlled.		
Management of site debris/litter.		
Hydrocarbon or other leakage/spillage/contamination.		
Notes:		

Silt Fencing	Rating (1 to 5)	N/A
Integrity of silt fence. Replace torn/frayed sections. Restore fence that has disconnected from posts. Fabric is tight and buried as required on upstream side.		
Integrity of posts. Replace broken posts, reset those that have fallen over.		
Installed per standards and as specified.		
Depth of sediment accumulation behind silt fencing. Remove built-up sediment from silt fences when it has reached half of the aboveground height of the silt fence at the lowest point of water retention.		
Notes (include a description of changes from original design):		

Stabilized Construction Entrances	Rating (1 to 5)	N/A
Installed per standards and as specified.		
Monitor level of sediment fouling stone. Note removal required when full.		
All planned exit/entrance points have a stabilized construction entrance.		
Notes (include a description of changes from original design):		

General Site Stabilization	Rating (1 to 5)	N/A
Soil stockpiles stabilized with temporary seed/mulch.		
Sediment controls installed at base of soil stockpiles.		
Temporary seed and mulch applied to disturbed areas not to be redisturbed within 10 days.		
Project complete. All disturbed areas seeded and mulched within 7 days.		
Notes (include a description of changes from original design):		

Other Inspections (add other site specific items, notably items listed in the SWPPP)	Rating (1 to 5)	N/A
Notes (include a description of changes from original design):		

OVERALL INSPECTION RATING: Satisfactory Marginal Unsatisfactory

Previous Recommendations Implemented? NA Yes No

If no, identify reasons for not implementing recommendations and schedule for implementation.

_____

_____

_____

_____

Are actions required to the Project or control measures needed to prevent further incidents?
Yes No

If yes, outline actions.

_____

_____

_____

_____

Contractor/Permittee Notified of Current Recommendations? Yes No

Inspector Signature:

Photographs: Attach to the end of this document.

Arcadis of New York, Inc.
646 Plank Road, Suite 100
Clifton Park
New York 12065
Phone: 518 250 7300
Fax: 518 371 2757
www.arcadis.com

Adirondack Park Agency

No Permit Required

Payment Items

Old Forge Dam and Sixth Lake Dam Rehabilitation

Contract No. D012025

State of New York
Hudson River – Black River Regulating District
Albany, New York

June 2025

BIDDERS PLEASE NOTE THAT CERTAIN PAYMENT ITEMS ARE APPLICABLE TO OLD FORGE DAM CONSTRUCTION , SIXTH LAKE DAM CONSTRUCTION OR APPLICABLE TO CONSTRUCTION AT BOTH LOCATIONS.

PAYMENT ITEMS

PI-52	Rip Rap	N / A	X	PI-123
PI-53	Gate (House) Enclosure	N / A	X	PI-125
PI-54	Sluice Gates	N / A	X	PI-127
PI-55	Spillway Sluice Gate	N / A	X	PI-129
PI-56	Trash Racks	N / A	X	PI-131
PI-57	Log Boom	N / A	X	PI-133
PI-58	Timber Steps	N / A	X	PI-135
PI-59	General Fill	N / A	X	PI-137
PI-60	General Site Restoration	N / A	X	PI-139
PI-61	Chain Link Fence	N / A	X	PI-141
PI-62	20 kW Standby Generator and Automatic Transfer Switch	N / A	X	PI-144
PI-63	Electrical	N / A	X	PI-146

Notes:
“X” indicates work item anticipated at the respective project location.
“N /A" indicates work item not anticipated at the respective project location.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

LUMP SUM PRICE ITEMS

Description

Under this section the Contractor shall furnish all deliverables and shall fully complete the work of the Lump Sum items as shown, or as directed by the Owner's Representative.

The principal items of deliverables are included under this section. The work of this section also includes all accessories, appurtenances, or other work required to complete this Contract and not specifically included under other Contracts. The cost of freight, delivery and required insurance or any initiation of the Contract work is also included in these items.

Payment

Payment for work of lump sum items will be made at the payment percentages, rates, intervals, or as otherwise defined by the Measure and Payment article of respective Lump Sum Price items, consistent with the price stated in the Bid, and as appropriate for each item included under this section.

No Payment

No payment will be made under this section for work performed by the Contractor to replace defective work and for work that is not shown or has not been ordered by the Owner, and that is outside the limits shown or ordered.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

UNIT PRICE ITEMS

Description

Under this section the Contractor shall furnish all materials, construct and fully complete the work of Unit Price Items to the lines, grades, and quantities shown or specified, encountered in the work, or as directed by the Owner's Representative.

The Unit Price Items of work scheduled herein are included under this section. The work also includes all accessories, appurtenances, or other work required for the completion of the Unit Price Items, except those related to the work of these items but specifically included under other Payment Item sections of this Contract.

The items of this section comprise the work where, in general, the quantities cannot be determined in advance of construction. No promise is given, either by expression or by implication, that the quantities of contingent work stated in the bid are even approximately the quantities that will be ordered in construction.

Payment

Payment for this work is based on the unit prices as established by the Contractor's Bid Prices as stated in the Bid Section for this item.

No Payment

No payment will be made under this section for work performed by the Contractor to replace defective work and for work that is not shown or ordered and which is outside the limits shown, or ordered by the Owner's Representative. No payments will be made under this section for the work related to the work of this section that is specifically included under other Payment Item sections.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

LUMP SUM PRICE ITEM

Item 1 – Mobilization and Demobilization

PI-1a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to mobilize and demobilize, including the relocation of personnel, materials, and equipment on the project site. It shall also include all special tools and equipment necessary to perform the work in or on water and in locations not readily accessible by roadway, and prepare the work site and project, including but not limited to:

- Project coordination
- Temporary access roads
- Pollution control systems
- Erosion control system
- Ancillary activities (moves, setups, water hauling)
- Transportation of personnel, equipment, and supplies to the site
- Traffic maintenance, barricades, barriers and warning devices
- Obtain all necessary permits
- Purchase and procurement of bonds
- Cleaning and restoration of the work area and disposing of all waste products and materials produced, or the result, of the Work
- Removal of temporary access roads and work areas
- Properly dispose of waste products
- Project closeout
- Project record documents
- Seeding and mulching
- Repair or replace all damaged or disturbed surfaces
- Clean all work areas
- Project Closeout and Record Documents

The amount bid for Mobilization and Demobilization shall not exceed eight percent (8%) of the sum of the Total Price bid for Item 2 through 63.

No compensation shall be made by the Owner for suspension of the Work as provided in General Conditions, Section 5.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

PI-1b Related Work Not Included

The following items of work closely related to Mobilization and Demobilization are specifically not included under this item.

- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-1c Measure and Payment

Measurement: Mobilization and Demobilization shall be measured for payment based on satisfactorily completing mobilization of labor, material, and equipment necessary and appropriate to begin the work, and upon meeting the requirements for Substantial Completion and satisfactorily completing the work.

Payment: Mobilization and Demobilization shall be paid to the Contractor in accordance with the following schedule:

a. Seventy percent (70%) upon submittal and approval of first application for payment.
b. Thirty percent (30%) upon project Substantial Completion and demobilization.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

LUMP SUM PRICE ITEM

Item 2 – Underground Utility Locator Service

PI-2a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to retain an independent utility locator service company to field locate, identify, inventory, and map project underground infrastructure as required by the Contract Documents, including but not limited to:

- Locate public and private utilities and service connections
- Stake-out underground utilities and service connections
- Mark underground utilities and service connections
- Develop inventory of underground infrastructure
- Develop mapping of underground infrastructure
- Submit Utilities Location Report

PI-2b Related Work Not Included

The following items of work closely related to Underground Utility Locator Service are specifically not included under this item.

- Mobilization and Demobilization
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-2c Measure and Payment

Measurement: Underground Utility Locator Service shall be measured for payment based on satisfactorily completing an underground utility survey and submitting a survey report, as necessary to complete the work.

Payment: Underground Utility Locator Service shall be paid at the Contract lump sum price upon satisfactorily completing an underground utility survey and after submitting a satisfactory report, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

LUMP SUM PRICE ITEM

Item 3 – Temporary Facilities and Controls

PI-3a Work Included

The work of this item includes all labor, material, and equipment, submittals, deliverables, coordination and scheduling necessary to install and maintain temporary construction support facilities, work zone traffic control devices, and installation, repair and maintenance of laydown and staging areas through the duration of the project, as required by the Contract Documents, including but not limited to:

- Temporary site buildings, sheds, workshops
- Temporary construction support facilities
- Temporary project control devices, barriers, and protection of Work
- Work zone traffic control
- Pedestrian Controls
- Temporary traffic control signs
- Installation and maintenance of laydown and staging areas
- Repair of laydown and staging areas
- Temporary environmental controls, dust controls, noise controls, pollution controls, chemical handling
- Jobsite mobile office trailers (one each construction site)
- Access staircase
- Minimum 10 feet x 48 ft size
- Two exterior doors
- Operable windows with screens
- Dedicated, continuously operated, 120 Volt electrical service
- Lighting
- Internet connection and service
- Heating, ventilation, and air conditioning system(s)
- Snow removal

PI-3b Related Work Not Included

The following items of work closely related to Temporary Facilities and Controls are specifically not included under this item.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Mobilization and Demobilization
- Underground Utility Locator Service
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Timber Steps
- General Fill

PI-3c Measure and Payment

Measurement: Temporary Facilities and Controls shall be measured for payment based on satisfactorily furnishing, constructing, installing, and maintaining Temporary Facilities and Controls, as necessary to complete the work.

Payment: Temporary Facilities and Controls shall be paid at the Contract lump sum price upon satisfactorily furnishing, constructing, installing, and maintaining work zone traffic control and laydown and staging areas and upon Substantial Completion of the Work.

Temporary Facilities and Controls shall be paid to the Contractor in accordance with the following schedule:

a. Twenty-six equal monthly amounts beginning on the date of Notice to Proceed, prorated by day for periods shorter than one month, upon submittal and approval of first application for payment.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

LUMP SUM PRICE ITEM

Item 4 – Erosion and Sediment Control

PI-4a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish, install, maintain, reinstall, and remove erosion and sediment control devices at Old Forge Dam as required by the Storm Water Pollution Prevention Plan, Permits, and the Contract Documents, including but not limited to:

- Storm Water Pollution and Prevention Plan, including amendment and recertification as required by Contract Documents
- Temporary structural devices
- Permanent structural devices
- Vegetative materials devices
- Stabilized construction entrances
- Concrete truck washout
- Clearing and grubbing
- Silt fencing
- Filter socks
- Turbidity curtains
- Check dams
- Concrete washout areas
- Sediment filter bags
- Stockpiling and staging areas
- Erosion control matting
- Turf reinforcing matting
- Protection of trees and designated areas
- Temporary seed and mulch
- Permanent seed and mulch
- Wetland protection and controls

PI-4b Related Work Not Included

The following items of work closely related to Erosion and Sediment Control are specifically not included under this item.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Timber Steps
- General Fill

PI-4c Measure and Payment

Measurement: Erosion and Sediment Control shall be measured for payment based on satisfactorily furnishing, constructing, installing, and maintaining functioning erosion and sediment control devices, completed in place, as necessary to complete the work.

Payment: Erosion and Sediment Control shall be paid at the Contract lump sum price upon satisfactorily furnishing, constructing, installing, and maintaining functioning erosion and sediment control devices and upon Substantial Completion of the Work.

Erosion and Sediment Control shall be paid to the Contractor in accordance with the following schedule:

a. Twenty-six equal monthly amounts beginning on the date of Notice to Proceed, prorated by day for periods shorter than one month, upon submittal and approval of first application for payment.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

LUMP SUM PRICE ITEM

Item 5 – Survey

PI-5a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to complete all surveys, including initial, field, layout, red-line markup drawings to document changes during construction, final survey, analysis, presentation, As-Built, submission, and resubmission upon receipt of comments at Old Forge Dam, as required by the Contract Documents, including but not limited to:

- Survey, and plans signed and sealed, by New York State licensed surveyor
- Initial surveys
- Field surveys
- Layout surveys
- Surveys in support of "redline" markup As-Built documents
- Surveys in support of applications for payment
- As-Built survey
- Final survey
- As-Built Plans (hard copy and electronic copy)
- As-Built Plans (electronic copy, AutoCAD Civil3D 2019 format)

PI-5b Related Work Not Included

The following items of work closely related to Survey are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-5c Measure and Payment

Measurement: Survey shall be measured for payment based on satisfactorily competing surveys and satisfactory submission of interim, layout, field, surveys in support of application for payment, and As-built plans, completed in place, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

Payment: Survey shall be paid at the Contract lump sum price upon satisfactorily competing all surveys and satisfactory submission of as-built plans, completed in place, as necessary to complete the work.

Survey shall be paid to the Contractor in accordance with the following schedule:

a. Twenty-six equal monthly amounts beginning on the date of Notice to Proceed, prorated by day for periods shorter than one month, upon submittal and approval of first application for payment.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

LUMP SUM PRICE ITEM

Item 6 – Demolition – Existing Gatehouse

PI-6a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary for demolition of the existing Old Forge Dam gatehouse as required by the Contract Documents, including but not limited to:

- Demolition of timber frame gatehouse structure (excluding concrete structure)

PI-6b Related Work Not Included

The following items of work closely related to Demolition – Existing Gatehouse are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-6c Measure and Payment

Measurement: Demolition – Existing Gatehouse shall be measured for payment based on satisfactorily completing the existing gatehouse demolition, completed in place, as necessary to complete the work.

Payment: Demolition – Existing Gatehouse shall be paid at the Contract lump sum price upon satisfactorily completing existing gatehouse demolition, completed in place, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

UNIT PRICE ITEM

Item 7 – Demolition – Existing Concrete

PI-7a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary for demolition of existing concrete at Old Forge Dam as required by the Contract Documents, including but not limited to:

- Demolition of existing concrete structures
- Demolition of outlet structure
- Demolition of existing gate, guides, operating stands, and stems
- Demolition of non-overflow structure
- Demolition of spillway
- Demolition of training walls

PI-7b Related Work Not Included

The following items of work closely related to Demolition – Existing Concrete are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-7c Measure and Payment

Measurement: Demolition – Existing Concrete shall be measured for payment based on the cubic yards of concrete demolition, satisfactorily completed, as measured in place, completed as necessary to complete the work.

Payment: Demolition – Existing Concrete shall be paid at the Contract unit price per cubic yard of concrete demolition upon satisfactorily completing demolition of existing concrete structures, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

LUMP SUM PRICE ITEM

Item 8 – Concrete Cutting

PI-8a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary for cutting concrete structures at the Old Forge Dam as required by the Contract Documents, including but not limited to:

- Concrete cutting

PI-8b Related Work Not Included

The following items of work closely related to Concrete Cutting are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Concrete
- Demolition – Existing Gatehouse
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-8c Measure and Payment

Measurement: Concrete Cutting shall be measured for payment based on satisfactorily completing concrete cutting, completed in place, as necessary to complete the work.

Payment: Concrete Cutting shall be paid at the Contract lump sum price upon satisfactorily completing concrete cutting, completed in place, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

UNIT PRICE ITEM

Item 9 – Excavation

PI-9a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to excavate soil and sediment at Old Forge Dam, as required by the Contract Documents, including but not limited to:

- Soil excavation
- Sediment excavation
- Excavation within areas indicated on Contract Drawings
- Excavation at existing abutments
- Excavation of debris
- Excavation of timber and stone cribbing (approximately 6 cu yds)

PI-9b Related Work Not Included

The following items of work closely related to Soil and Sediment Excavation are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-9c Measure and Payment

Measurement: Soil and Sediment Excavation shall be measured for payment based on the cubic yards of soil and sediment satisfactorily excavated, as measured in place, completed as necessary to complete the work.

Payment: Soil and Sediment Excavation shall be paid at the Contract unit price per cubic yard of soil and sediment satisfactorily excavated, as completed, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

UNIT PRICE ITEM

Item 10 – Bedrock Removal

PI-10a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to remove bedrock at Old Forge Dam, as required by the Contract Documents, including but not limited to:

- Bedrock removal and excavation
- Excavation within areas indicated on Contract Drawings

PI-10b Related Work Not Included

The following items of work closely related to Bedrock Removal are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Sediment and Soil Excavation
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-10c Measure and Payment

Measurement: Bedrock Removal shall be measured for payment based on the cubic yards of bedrock satisfactorily removed and excavated, as measured in place, completed as necessary to complete the work.

Payment: Bedrock Removal shall be paid at the Contract unit price per cubic yard of bedrock satisfactorily removed and excavated, as completed, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

UNIT PRICE ITEM

Item 11 – Offsite Disposal

PI-11a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to properly dispose material removed from Old Forge Dam, as required by the Contract Documents, including but not limited to:

- Permitting
- Temporary storage and stabilization
- Loading
- Hauling and transportation
- Wood structures disposal
- Concrete disposal
- Soil disposal
- Sediment disposal
- Bedrock disposal
- Excavated debris disposal
- Construction debris disposal
- Disposal of material from excavated areas indicated on Contract Drawings

PI-11b Related Work Not Included

The following items of work closely related to Offsite Disposal are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Sediment and Soil Excavation
- Bedrock Removal

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-11c Measure and Payment

Measurement: Offsite Disposal shall be measured for payment based on the ton of material satisfactorily disposed, as measured at the disposal site, completed as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

Payment: Offsite Disposal shall be paid at the Contract unit price per ton of material satisfactorily disposed at the disposal site, as completed, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

UNIT PRICE ITEM

Item 12 – Post Tension Anchors

PI-12a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to design, furnish, drill, install, and test and stress post tension anchors, as required by the Contract Documents, including but not limited to:

- Anchor engineering design
- Drill holes
- Washing drill holes
- Water tightness testing, redrilling, retesting
- Anchorage assembly, couplers, bearing plates, and centralizers
- Corrosion protection sheathing
- Batch mixing and injecting cement grout
- Cement grout
- Casing pipe
- Testing equipment
- Anchor testing
- Anchor stressing

PI-12b Related Work Not Included

The following items of work closely related to Post Tension Anchors are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Offsite Disposal
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-12c Measure and Payment

Measurement: Post Tension Anchors shall be measured for payment based on the linear foot of anchor satisfactorily constructed, as measured in place, completed as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

Payment: Post Tension Anchors shall be paid at the Contract unit price per linear foot of anchor satisfactorily constructed, as completed, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

UNIT PRICE ITEM

Item 13 – Grout Rock Surface

PI-13a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to batch, mix, and grout rock surfaces, as required by the Contract Documents, including but not limited to:

- Clean and prepare rock surfaces
- Batch mixing
- Portland cement
- Grout placement
- Protection of grout from spoils and water

PI-13b Related Work Not Included

The following items of work closely related to Grout Rock Surface are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-13c Measure and Payment

Measurement: Grout Rock Surface shall be measured for payment based on the quantity of cubic feet of grout satisfactorily installed for consolidation grouting, as measured in place, completed as necessary to complete the work.

Payment: Grout Rock Surface shall be paid at the Contract unit price per cubic yard of grout satisfactorily installed, as completed, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

LUMP SUM PRICE ITEM

Item 14 – Cofferdams

PI-14a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to design, furnish, install, place, maintain, remove, reinstall, haul, and dispose of multiple cofferdams, for all phases of construction, at the Old Forge Dam, as required by the Contract Documents, including but not limited to:

- Cofferdam and temporary dewatering structures
- Cofferdam design by New York State Licensed Professional Engineer
- Cofferdam materials of construction
- Cofferdam fabrication and installation
- Bracing systems
- Cofferdam disassembly
- Cofferdam reassembly
- Cofferdam removal and disposal

PI-14b Related Work Not Included

The following items of work closely related to Cofferdams are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-14c Measure and Payment

Measurement: Cofferdams shall be measured for payment based on satisfactorily designing, furnishing, constructing, installing, maintaining, removing, reinstalling, and disposal of cofferdams for all phases of construction, completed in place, as necessary to complete the work.

Payment: Cofferdam shall be paid at the proportion of the Contract lump sum price upon satisfactorily designing, furnishing, constructing, installing, maintaining, and removal and disposal of cofferdams, completed in place, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

This item shall be payable to the Contractor in accordance with the following schedule:

a. Ten percent (10%) upon submittal and acceptance of satisfactory cofferdam designs.
b. Fifteen percent (15%) upon satisfactory construction and installation of Phase I cofferdams.
c. Thirty percent (30%) upon satisfactory maintenance, disassembly, and removal and disposal of Phase I cofferdams.
c. Fifteen percent (15%) upon satisfactory construction and installation of Phase II cofferdams.
d. Thirty percent (30%) upon satisfactory maintenance, disassembly, and removal and disposal of Phase II cofferdams.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

UNIT PRICE ITEM

Item 15 – Concrete – Spillway Foundation

PI-15a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish, place, and finish spillway foundation reinforced concrete, at Old Forge Dam, as required by the Contract Documents, including but not limited to:

- Surface preparation
- Foundation preparation
- Formwork (installation and removal)
- Steel reinforcement
- Ties, joint material, waterstops
- Concrete
- Drill and grout dowels
- Curing
- Quality control and quality assurance testing
- Finishing
- Field quality control

PI-15b Related Work Not Included

The following items of work closely related to Concrete – Spillway Foundation are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-15c Measure and Payment

Measurement: Concrete – Spillway Foundation shall be measured for payment based on the cubic yards of spillway foundation concrete satisfactorily constructed, as measured in place, completed as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

Payment: Concrete – Spillway Foundation shall be paid at the Contract unit price per cubic yard of spillway foundation concrete satisfactorily constructed, as completed, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

UNIT PRICE ITEM

Item 16 – Concrete – Slabs and Aprons

PI-16a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish, place, and finish slab and apron reinforced concrete, at Old Forge Dam, as required by the Contract Documents, including but not limited to:

- Surface preparation
- Foundation preparation
- Formwork (installation and removal)
- Steel reinforcement
- Ties, joint material, waterstops
- Concrete
- Drill and grout dowels
- Curing
- Quality control and quality assurance testing
- Finishing
- Field quality control

PI-16b Related Work Not Included

The following items of work closely related to Concrete – Slabs and Aprons are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-16c Measure and Payment

Measurement: Concrete – Slabs and Aprons shall be measured for payment based on the cubic yards of slab and apron concrete satisfactorily constructed, as measured in place, completed as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

Payment: Concrete – Slabs and Aprons shall be paid at the Contract unit price per cubic yard of slab and apron concrete satisfactorily constructed, as completed, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

UNIT PRICE ITEM

Item 17 – Concrete – Walls

PI-17a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish, place, and finish wall reinforced concrete, at Old Forge Dam, as required by the Contract Documents, including but not limited to:

- Surface preparation
- Foundation preparation
- Formwork (installation and removal)
- Steel reinforcement
- Ties, joint material, waterstops
- Concrete
- Drill and grout dowels
- Curing
- Quality control and quality assurance testing
- Finishing
- Field quality control

PI-17b Related Work Not Included

The following items of work closely related to Concrete – Walls are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-17c Measure and Payment

Measurement: Concrete – Walls shall be measured for payment based on the cubic yards of wall concrete satisfactorily constructed, as measured in place, completed as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

Payment: Concrete – Walls shall be paid at the Contract unit price per cubic yard of wall concrete satisfactorily constructed, as completed, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

UNIT PRICE ITEM

Item 18 – Dewatering

PI-18a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to dewater the Old Forge Dam construction site, as required by the Contract Documents, including but not limited to:

- Dewater construction site
- Dewater within cofferdams
- Control water entering and exiting the construction site
- Maintain dewatered conditions as necessary to complete the work
- Provide dewatered construction site conditions in response to water released for reservoir operation
- Re-water, as necessary and appropriate

PI-18b Related Work Not Included

The following items of work closely related to Dewatering are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Concrete - Walls
- Grout Rock Surface
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-18c Measure and Payment

Measurement: Dewatering shall be measured for payment based on the months of satisfactorily furnishing, constructing, installing, and maintaining functioning dewatering systems, as necessary to complete the work.

Payment: Dewatering shall be paid at the Contract unit price per month (prorated per day for periods shorter than a whole month) upon satisfactorily furnishing, constructing, installing, and maintaining functioning dewatering systems, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

UNIT PRICE ITEM

Item 19 – Structural Backfill

PI-19a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish and place structural backfill at Old Forge Dam, as required by the Contract Documents, including but not limited to:

- Structural backfill
- Placement, grading, and compaction
- Testing and verifying fill density

PI-19b Related Work Not Included

The following items of work closely related to Structural Backfill are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Wood Fence

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-19c Measure and Payment

Measurement: Structural Backfill shall be measured for payment based on the cubic yards of structural fill satisfactorily constructed, as measured in place, completed as necessary to complete the work.

Payment: Structural Backfill shall be paid at the Contract unit price per cubic yard of structural fill satisfactorily constructed, as completed, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

UNIT PRICE ITEM

Item 20 – Wood Fence

PI-20a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish, install, and construct a wood fence, as required by the Contract Documents, including but not limited to:

- Wooden posts
- Wooden split railing

PI-20b Related Work Not Included

The following items of work closely related to Wood Fence are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Temporary Rip Rap Apron

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-20c Measure and Payment

Measurement: Wood Fence shall be measured for payment based on the linear feet of wood fence satisfactorily constructed, as measured in place, as necessary to complete the work.

Payment: Wood Fence shall be paid at the Contract unit price per linear foot of wood fence, satisfactorily constructed, as completed in place, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

LUMP SUM PRICE ITEM

Item 21 – Temporary Rip Rap Apron

PI-21a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish, install, and construct an asphalt path, as required by the Contract Documents, including but not limited to:

- Preparation and compaction of subgrade
- Compacted subbase
- Geotextile stabilization fabric
- Rip rap

PI-21b Related Work Not Included

The following items of work closely related to Temporary Rip Rap Apron are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Structural Backfill
- Asphalt Path
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-21c Measure and Payment

Measurement: Temporary Rip Rap Apron shall be measured for payment based on satisfactorily furnishing, constructing, installing, and maintaining temporary rip rap apron, completed in place, as necessary to complete the work.

Payment: Temporary Rip Rap Apron shall be paid at the Contract lump sum price upon satisfactorily furnishing, constructing, installing, and maintaining temporary rip rap apron, completed in place, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

LUMP SUM PRICE ITEM

Item 22 – Gate (House) Enclosure

PI-22a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish, install, and construct wood framed gate house, at Old Forge Dam, as required by the Contract Documents, including but not limited to:

- Wood framing and sheathing
- Water resistant barriers
- Siding
- Roof underlayment, ice and water shield
- Drip edge
- Asphalt roofing
- Windows and doors and hardware
- Trim
- Metal walkways, supports, and railings

PI-22b Related Work Not Included

The following items of work closely related to Gate (House) Enclosure are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-22c Measure and Payment

Measurement: Gate (House) Enclosure shall be measured for payment based on satisfactorily furnishing, constructing, installing, and maintaining gate house, walkways, and railings, completed in place, as necessary to complete the work.

Payment: Gate (House) Enclosure shall be paid at the Contract lump sum price upon satisfactorily furnishing, constructing, installing, and maintaining gate house, walkways, and railings, completed in place, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

LUMP SUM PRICE ITEM

Item 23 – Sluice Gates

PI-23a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish, install, construct, and maintain gate house sluice gates, at Old Forge Dam, as required by the Contract Documents, including but not limited to:

- Sluice gates
- Guides, thimbles, operating stands, operators, ancillary hardware
- Concrete anchors
- Field and leakage testing

PI-23b Related Work Not Included

The following items of work closely related to Sluice Gates are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-23c Measure and Payment

Measurement: Sluice Gates shall be measured for payment based on satisfactorily furnishing, constructing, installing, and maintaining, and testing gate house sluice gates, completed in place, as necessary to complete the work.

Payment: Sluice Gates shall be paid at the Contract lump sum price upon satisfactorily furnishing, constructing, installing, and maintaining, and testing gate house sluice gates, completed in place, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

LUMP SUM PRICE ITEM

Item 24 – Trash Racks

PI-24a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish, install, construct, and maintain trash racks, at Old Forge Dam, as required by the Contract Documents, including but not limited to:

- Divers and diving equipment and protection systems
- Removal and disposal of existing trash rack
- Trash racks
- Steel reinforcement
- Concrete anchors

PI-24b Related Work Not Included

The following items of work closely related to Trash Racks are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-24c Measure and Payment

Measurement: Trash Racks shall be measured for payment based on satisfactorily furnishing, constructing, installing, and maintaining trash racks, completed in place, as necessary to complete the work.

Payment: Trash Racks shall be paid at the Contract lump sum price upon satisfactorily furnishing, constructing, installing, and maintaining trash racks, completed in place, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

LUMP SUM PRICE ITEM

Item 25 – Log Boom

PI-25a Work Included

The work of this item includes all labor, material, equipment, design, submittals, deliverables, coordination and scheduling necessary to furnish, install, and construct log boom at Old Forge Dam, as required by the Contract Documents, including but not limited to:

- Demolition, removal, and disposal of existing boom, floats, chains, anchors, and hardware
- Log boom end anchors
- Log boom intermediate anchors
- Drilling and rock bolts
- Divers, crew, diving equipment

PI-25b Related Work Not Included

The following items of work closely related to Log Boom are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-25c Measure and Payment

Measurement: Log Boom shall be measured for payment based on linear foot of log boom satisfactorily furnished, constructed, and installed, as measured in place, completed as necessary to complete the work.

Payment: Log Boom shall be paid at the Contract unit price per foot of log boom satisfactorily furnished, constructed, installed, and maintained, completed in place, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

UNIT PRICE ITEM

Item 26 – Floating Aluminum Docks

PI-26a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to design, furnish, install, and construct floating aluminum docks, as required by the Contract Documents, including but not limited to:

- Removal of existing dock system
- Design
- Marine grade aluminum frame, stringers, supports, brackets
- Foam-filled high density polypropylene floats
- Western red cedar decking
- Zinc plated hardware
- Anchorage

PI-26b Related Work Not Included

The following items of work closely related to Floating Aluminum Docks are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-26c Measure and Payment

Measurement: Floating Aluminum Docks shall be measured for payment based on satisfactorily furnishing, constructing, installing, and maintaining floating aluminum docks, measured in place, completed as necessary to complete the work.

Payment: Floating Aluminum Docks shall be paid at the Contract unit price per each floating aluminum dock satisfactorily completed, in place, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

UNIT PRICE ITEM

Item 27 – Boulder Retaining Wall

PI-27a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish, install, and construct a boulder retaining wall, as required by the Contract Documents, including but not limited to:

- Excavation
- Geotextile stabilization fabric
- Rock boulders
- Chinking rock fill

PI-27b Related Work Not Included

The following items of work closely related to Boulder Retaining Wall are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Log Boom
- Floating Aluminum Docks
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-27c Measure and Payment

Measurement: Boulder Retaining Wall shall be measured for payment based on the square feet of wall face of boulder retaining wall satisfactorily constructed, as measured in place, as necessary to complete the work.

Payment: Boulder Retaining Wall shall be paid at the Contract unit price per square foot of wall face of boulder retaining wall, satisfactorily constructed, as completed in place, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

UNIT PRICE ITEM

Item 28 – Gravel Fill Restoration

PI-28a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish, install, and construct gravel fill restoration, as required by the Contract Documents, including but not limited to:

- Deleterious material removal
- Subgrade preparation
- Geotextile fabric
- No 57 stone
- Placement, grading, and compaction

PI-28b Related Work Not Included

The following items of work closely related to Gravel Fill Restoration are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-28c Measure and Payment

Measurement: Gravel Fill Restoration shall be measured for payment based on the cubic yards of No 57 stone fill satisfactorily constructed, as measured in place, completed as necessary to complete the work.

Payment: Gravel Fill Restoration shall be paid at the Contract unit price per cubic yard of No 57 stone fill satisfactorily constructed, as completed, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

UNIT PRICE ITEM

Item 29 – General Site Restoration

PI-29a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish and place general fill, top soil, mulch, straw, and seed, and restore the site to conditions existing prior to construction, at Old Forge Dam, as required by the Contract Documents, including but not limited to:

- General fill
- Top soil
- Grading
- Application of fertilizer, compost, and limestone
- Mulch
- Straw
- Permanent and temporary seeding
- Maintenance of restored areas

PI-29b Related Work Not Included

The following items of work closely related to General Site Restoration are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-29c Measure and Payment

Measurement: General Site Restoration shall be measured for payment based on the cubic yards of general fill and top soil satisfactorily constructed, as measured in place, completed as necessary to complete the work.

Payment: General Site Restoration shall be paid at the Contract unit price per cubic yard of general fill and top soil satisfactorily constructed, as completed, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

LUMP SUM PRICE ITEM

Item 30 – Asphalt Path

PI-30a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish, install, and construct an asphalt path, as required by the Contract Documents, including but not limited to:

- Preparation and compaction of subgrade
- Compacted subbase
- Geotextile stabilization fabric
- Asphalt

PI-30b Related Work Not Included

The following items of work closely related to Asphalt Path are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Structural Backfill
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-30c Measure and Payment

Measurement: Asphalt Path shall be measured for payment based on satisfactorily furnishing, constructing, installing, and maintaining asphalt path, completed in place, as necessary to complete the work.

Payment: Asphalt Path shall be paid at the Contract lump sum price upon satisfactorily furnishing, constructing, installing, and maintaining asphalt path, completed in place, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

UNIT PRICE ITEM

Item 31 – Restoration of Pavement

PI-31a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to mill, restore, and reconstruct and replace asphalt pavement to pre-construction conditions, as required by the Contract Documents, including but not limited to:

- Prepare subgrade
- Geotextile stabilization fabric
- Subbase, base, binder, surface course
- Compaction
- Grading

PI-31b Related Work Not Included

The following items of work closely related to Restoration of Pavement are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Asphalt Path
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-31c Measure and Payment

Measurement: Restoration of Pavement shall be measured for payment based on the square feet of pavement satisfactorily constructed, as measured in place, completed as necessary to complete the work.

Payment: Restoration of Pavement shall be paid at the Contract unit price per square foot of pavement satisfactorily constructed, as completed, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

LUMP SUM PRICE ITEM

Item 32 – Chain Link Fence

PI-32a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish, install, and construct chain link fence and gate, at Old Forge Dam, as required by the Contract Documents, including but not limited to:

- Post supports
- Cast-in-place concrete base
- Posts (end, corner, line)
- Post caps
- Rails, rail ends, rail sleeves
- Tension bars, tension bands, tension wire
- Brace bands
- Chain link fencing with privacy slats
- Tie wire
- Connection hardware
- Gate frame, gate hinge, locking latch

PI-32b Related Work Not Included

The following items of work closely related to Chain Link Fence are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-32c Measure and Payment

Measurement: Chain Link Fence shall be measured for payment based on satisfactorily furnishing, constructing, installing, and maintaining chain link fence, completed in place, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

Payment: Chain Link Fence shall be paid at the Contract lump sum price upon satisfactorily furnishing, constructing, installing, and maintaining chain link fence, completed in place, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

LUMP SUM PRICE ITEM

Item 33 – 20 kW Standby Generator and Automatic Transfer Switch

PI-33a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish, install, construct, and test 20 kW generator and automatic transfer switch, at Old Forge Dam, as required by the Contract Documents, including but not limited to:

- 20 kW generator
- Cable and conduit
- Automatic transfer switch, weather proof enclosures
- Stands and mounting hardware
- Fuel tank, piping, and lines
- Start-up and full load testing

PI-33b Related Work Not Included

The following items of work closely related to 20 kW Standby Generator and Automatic Transfer Switch are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-33c Measure and Payment

Measurement: 20 kW Standby Generator and Automatic Transfer Switch shall be measured for payment based on satisfactorily furnishing, constructing, installing, and maintaining a 20kW generator and automatic transfer switch, completed in place, as necessary to complete the work.

Payment: 20 kW Standby Generator and Automatic Transfer Switch shall be paid at the Contract lump sum price upon satisfactorily furnishing, constructing, installing, and maintaining a 20kW generator and automatic transfer switch, completed in place, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

LUMP SUM PRICE ITEM

Item 34 – Electrical

PI-34a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish, install, construct, and test electrical service, component, and systems at Old Forge Dam, as required by the Contract Documents, including but not limited to:

- Termination and demolition of existing service
- Temporary service, utility agreements, payments
- New service
- 120 Volt systems
- 240 Volt systems
- Cable and conduit
- Lighting
- Fixtures
- Switches and outlets
- Sluice gate operator connections
- Transfer switch connections
- Standby generator power connections

PI-34b Related Work Not Included

The following items of work closely related to Electrical are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-34c Measure and Payment

Measurement: Electrical shall be measured for payment based on satisfactorily furnishing, constructing, installing, and maintaining electrical work, completed in place, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

LUMP SUM PRICE ITEM

Item 35 – Erosion and Sediment Control

PI-35a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish, install, maintain, reinstall, and remove erosion and sediment control devices at Sixth Lake Dam as required by the Storm Water Pollution Prevention Plan, Permits, and the Contract Documents, including but not limited to:

- Storm Water Pollution and Prevention Plan, including amendment and recertification as required by Contract Documents
- Temporary structural devices
- Permanent structural devices
- Vegetative materials devices
- Stabilized construction entrances
- Concrete truck washout
- Clearing and grubbing
- Silt fencing
- Filter socks
- Turbidity curtains
- Check dams
- Concrete washout areas
- Sediment filter bags
- Stockpiling and staging areas
- Erosion control matting
- Turf reinforcing matting
- Protection of trees and designated areas
- Temporary seed and mulch
- Permanent seed and mulch
- Wetland protection and controls

PI-35b Related Work Not Included

The following items of work closely related to Erosion and Sediment Control are specifically not included under this item.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Timber Steps
- General Fill

PI-35c Measure and Payment

Measurement: Erosion and Sediment Control shall be measured for payment based on satisfactorily furnishing, constructing, installing, and maintaining functioning erosion and sediment control devices, completed in place, as necessary to complete the work.

Payment: Erosion and Sediment Control shall be paid at the Contract lump sum price upon satisfactorily furnishing, constructing, installing, and maintaining functioning erosion and sediment control devices and upon Substantial Completion of the Work.

Erosion and Sediment Control shall be paid to the Contractor in accordance with the following schedule:

a. Twenty-six equal monthly amounts beginning on the date of Notice to Proceed, prorated by day for periods shorter than one month, upon submittal and approval of first application for payment.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

LUMP SUM PRICE ITEM

Item 36 – Survey

PI-36a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to complete all surveys, including initial, field, layout, red-line markup drawings to document changes during construction, final survey, analysis, presentation, As-Built, submission, and resubmission upon receipt of comments at Sixth Lake Dam, as required by the Contract Documents, including but not limited to:

- Survey, and plans signed and sealed, by New York State licensed surveyor
- Initial surveys
- Field surveys
- Layout surveys
- Surveys in support of "redline" markup As-Built documents
- Surveys in support of applications for payment
- As-Built survey
- Final survey
- As-Built Plans (hard copy and electronic copy)
- As-Built Plans (electronic copy, AutoCAD Civil3D 2019 format)

PI-36b Related Work Not Included

The following items of work closely related to Survey are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-36c Measure and Payment

Measurement: Survey shall be measured for payment based on satisfactorily competing surveys and satisfactory submission of interim, layout, field, surveys in support of application for payment, and As-built plans, completed in place, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

Payment: Survey shall be paid at the Contract lump sum price upon satisfactorily competing all surveys and satisfactory submission of as-built plans, completed in place, as necessary to complete the work.

Survey shall be paid to the Contractor in accordance with the following schedule:

a. Twenty-six equal monthly amounts beginning on the date of Notice to Proceed, prorated by day for periods shorter than one month, upon submittal and approval of first application for payment.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

LUMP SUM PRICE ITEM

Item 37 – Demolition – Existing Gatehouse

PI-37a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary for demolition of the existing Sixth Lake Dam gatehouse as required by the Contract Documents, including but not limited to:

- Demolition of timber frame gatehouse structure (excluding concrete structure)

PI-37b Related Work Not Included

The following items of work closely related to Demolition – Existing Gatehouse are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-37c Measure and Payment

Measurement: Demolition – Existing Gatehouse shall be measured for payment based on satisfactorily completing the existing gatehouse demolition, completed in place, as necessary to complete the work.

Payment: Demolition – Existing Gatehouse shall be paid at the Contract lump sum price upon satisfactorily completing existing gatehouse demolition, completed in place, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

UNIT PRICE ITEM

Item 38 – Demolition – Existing Concrete

PI-38a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary for demolition of existing concrete at Sixth Lake Dam as required by the Contract Documents, including but not limited to:

- Demolition of existing concrete structures
- Demolition of outlet structure
- Demolition of existing gate, guides, operating stands, and stems
- Demolition of non-overflow structure
- Demolition of spillway
- Demolition of training walls

PI-38b Related Work Not Included

The following items of work closely related to Demolition – Existing Concrete are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-38c Measure and Payment

Measurement: Demolition – Existing Concrete shall be measured for payment based on the cubic yards of concrete demolition, satisfactorily completed, as measured in place, completed as necessary to complete the work.

Payment: Demolition – Existing Concrete shall be paid at the Contract unit price per cubic yard of concrete demolition upon satisfactorily completing demolition of existing concrete structures, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

LUMP SUM PRICE ITEM

Item 39 – Concrete Cutting

PI-39a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary for cutting concrete structures at the Sixth Lake Dam as required by the Contract Documents, including but not limited to:

- Concrete cutting

PI-39b Related Work Not Included

The following items of work closely related to Concrete Cutting are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Concrete
- Demolition – Existing Gatehouse
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-39c Measure and Payment

Measurement: Concrete Cutting shall be measured for payment based on satisfactorily completing concrete cutting, completed in place, as necessary to complete the work.

Payment: Concrete Cutting shall be paid at the Contract lump sum price upon satisfactorily completing concrete cutting, completed in place, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

UNIT PRICE ITEM

Item 40 – Soil and Sediment Excavation

PI-40a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to excavate soil and sediment at Sixth Lake Dam, as required by the Contract Documents, including but not limited to:

- Excavation within areas indicated on Contract Drawings
- Excavation at existing abutments
- Excavation of debris

PI-40b Related Work Not Included

The following items of work closely related to Soil and Sediment Excavation are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-40c Measure and Payment

Measurement: Soil and Sediment Excavation shall be measured for payment based on the cubic yards of soil and sediment satisfactorily excavated, as measured in place, completed as necessary to complete the work.

Payment: Soil and Sediment Excavation shall be paid at the Contract unit price per cubic yard of soil and sediment satisfactorily excavated, as completed, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

UNIT PRICE ITEM

Item 41 – Bedrock Removal

PI-41a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to remove bedrock at Sixth Lake Dam, as required by the Contract Documents, including but not limited to:

- Bedrock removal and excavation
- Excavation within areas indicated on Contract Drawings

PI-41b Related Work Not Included

The following items of work closely related to Bedrock Removal are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Sediment and Soil Excavation
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-41c Measure and Payment

Measurement: Bedrock Removal shall be measured for payment based on the cubic yards of bedrock satisfactorily removed and excavated, as measured in place, completed as necessary to complete the work.

Payment: Bedrock Removal shall be paid at the Contract unit price per cubic yard of bedrock satisfactorily removed and excavated, as completed, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

UNIT PRICE ITEM

Item 42 – Offsite Disposal

PI-42a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to properly dispose material removed from Sixth Lake Dam, as required by the Contract Documents, including but not limited to:

- Permitting
- Temporary storage and stabilization
- Loading
- Hauling and transportation
- Wood structures disposal
- Concrete disposal
- Soil disposal
- Sediment disposal
- Bedrock disposal
- Excavated debris disposal
- Construction debris disposal
- Disposal of material from excavated areas indicated on Contract Drawings

PI-42b Related Work Not Included

The following items of work closely related to Offsite Disposal are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Sediment and Soil Excavation
- Bedrock Removal

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-42c Measure and Payment

Measurement: Offsite Disposal shall be measured for payment based on the ton of material satisfactorily disposed, as measured at the disposal site, completed as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

Payment: Offsite Disposal shall be paid at the Contract unit price per ton of material satisfactorily disposed at the disposal site, as completed, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

LUMP SUM PRICE ITEM

Item 43 – Cofferdams

PI-43a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to design, furnish, install, place, maintain, remove, reinstall, haul, and dispose of multiple cofferdams, for all phases of construction, at the Sixth Lake Dam, as required by the Contract Documents, including but not limited to:

- Cofferdam and temporary dewatering structures
- Cofferdam design by New York State Licensed Professional Engineer
- Cofferdam materials of construction
- Cofferdam fabrication and installation
- Bracing systems
- Cofferdam disassembly
- Cofferdam reassembly
- Cofferdam removal and disposal

PI-43b Related Work Not Included

The following items of work closely related to Cofferdams are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-43c Measure and Payment

Measurement: Cofferdams shall be measured for payment based on satisfactorily designing, furnishing, constructing, installing, maintaining, removing, reinstalling, and disposal of cofferdams for all phases of construction, completed in place, as necessary to complete the work.

Payment: Cofferdam shall be paid at the proportion of the Contract lump sum price upon satisfactorily designing, furnishing, constructing, installing, maintaining, and removal and disposal of cofferdams, completed in place, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

This item shall be payable to the Contractor in accordance with the following schedule:

a. Ten percent (10%) upon submittal and acceptance of satisfactory cofferdam designs.
b. Fifteen percent (15%) upon satisfactory construction and installation of Phase I cofferdams.
c. Thirty percent (30%) upon satisfactory maintenance, disassembly, and removal and disposal of Phase I cofferdams.
c. Fifteen percent (15%) upon satisfactory construction and installation of Phase II cofferdams.
d. Thirty percent (30%) upon satisfactory maintenance, disassembly, and removal and disposal of Phase II cofferdams.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

UNIT PRICE ITEM

Item 44 – Concrete – Spillway Foundation

PI-44a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish, place, and finish spillway foundation reinforced concrete, at Sixth Lake Dam, as required by the Contract Documents, including but not limited to:

- Surface preparation
- Foundation preparation
- Formwork (installation and removal)
- Steel reinforcement
- Ties, joint material, waterstops
- Concrete
- Drill and grout dowels
- Curing
- Quality control and quality assurance testing
- Finishing
- Field quality control

PI-44b Related Work Not Included

The following items of work closely related to Concrete – Spillway Foundation are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-44c Measure and Payment

Measurement: Concrete – Spillway Foundation shall be measured for payment based on the cubic yards of spillway foundation concrete satisfactorily constructed, as measured in place, completed as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

Payment: Concrete – Spillway Foundation shall be paid at the Contract unit price per cubic yard of spillway foundation concrete satisfactorily constructed, as completed, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

UNIT PRICE ITEM

Item 45 – Concrete – Slabs and Aprons

PI-45a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish, place, and finish slab and apron reinforced concrete, at Sixth Lake Dam, as required by the Contract Documents, including but not limited to:

- Surface preparation
- Foundation preparation
- Formwork (installation and removal)
- Steel reinforcement
- Ties, joint material, waterstops
- Concrete
- Drill and grout dowels
- Curing
- Quality control and quality assurance testing
- Finishing
- Field quality control

PI-45b Related Work Not Included

The following items of work closely related to Concrete – Slabs and Aprons are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-45c Measure and Payment

Measurement: Concrete – Slabs and Aprons shall be measured for payment based on the cubic yards of slab and apron concrete satisfactorily constructed, as measured in place, completed as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

Payment: Concrete – Slabs and Aprons shall be paid at the Contract unit price per cubic yard of slab and apron concrete satisfactorily constructed, as completed, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

UNIT PRICE ITEM

Item 46 – Concrete – Walls

PI-46a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish, place, and finish wall reinforced concrete, at Sixth Lake Dam, as required by the Contract Documents, including but not limited to:

- Surface preparation
- Foundation preparation
- Formwork (installation and removal)
- Steel reinforcement
- Ties, joint material, waterstops
- Concrete
- Drill and grout dowels
- Curing
- Quality control and quality assurance testing
- Finishing
- Field quality control

PI-46b Related Work Not Included

The following items of work closely related to Concrete – Walls are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-46c Measure and Payment

Measurement: Concrete – Walls shall be measured for payment based on the cubic yards of wall concrete satisfactorily constructed, as measured in place, completed as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

Payment: Concrete – Walls shall be paid at the Contract unit price per cubic yard of wall concrete satisfactorily constructed, as completed, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

UNIT PRICE ITEM

Item 47 – Dewatering

PI-47a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to dewater the Sixth Lake Dam construction site, as required by the Contract Documents, including but not limited to:

- Dewater construction site
- Dewater within cofferdams
- Control water entering and exiting the construction site
- Maintain dewatered conditions as necessary to complete the work
- Provide dewatered construction site conditions in response to water released for reservoir operation
- Re-water, as necessary and appropriate

PI-47b Related Work Not Included

The following items of work closely related to Dewatering are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Concrete - Walls
- Grout Rock Surface
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-47c Measure and Payment

Measurement: Dewatering shall be measured for payment based on the months of satisfactorily furnishing, constructing, installing, and maintaining functioning dewatering systems, as necessary to complete the work.

Payment: Dewatering shall be paid at the Contract unit price per month (prorated per day for periods shorter than a whole month) upon satisfactorily furnishing, constructing, installing, and maintaining functioning dewatering systems, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

UNIT PRICE ITEM

Item 48 – Structural Backfill

PI-48a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish and place structural backfill at Sixth Lake Dam, as required by the Contract Documents, including but not limited to:

- Structural backfill
- Placement, grading, and compaction
- Testing and verifying fill density

PI-48b Related Work Not Included

The following items of work closely related to Structural Backfill are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Wood Fence

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-48c Measure and Payment

Measurement: Structural Backfill shall be measured for payment based on the cubic yards of structural fill satisfactorily constructed, as measured in place, completed as necessary to complete the work.

Payment: Structural Backfill shall be paid at the Contract unit price per cubic yard of structural fill satisfactorily constructed, as completed, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

UNIT PRICE ITEM

Item 49 – No 57 Stone Seepage Filter

PI-49a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish and place No 57 Stone Seepage Filter material, as required by the Contract Documents, including but not limited to:

- Filter stone
- Placement and grading

PI-49b Related Work Not Included

The following items of work closely related to No 57 Stone Seepage Filter are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-49c Measure and Payment

Measurement: No 57 Stone Seepage Filter shall be measured for payment based on the cubic yards of material satisfactorily constructed, as measured in place, completed as necessary to complete the work.

Payment: No 57 Stone Seepage Filter shall be paid at the Contract unit price per cubic yard of material satisfactorily constructed, as completed, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

UNIT PRICE ITEM

Item 50 – No 9 Sand Seepage Filter

PI-50a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish and place No 9 Sand Seepage Filter material, as required by the Contract Documents, including but not limited to:

- Filter sand
- Placement and grading

PI-50b Related Work Not Included

The following items of work closely related to No 9 Sand Seepage Filter are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-50c Measure and Payment

Measurement: No 9 Sand Seepage Filter shall be measured for payment based on the cubic yards of material satisfactorily constructed, as measured in place, completed as necessary to complete the work.

Payment: No 9 Sand Seepage Filter shall be paid at the Contract unit price per cubic yard of material satisfactorily constructed, as completed, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

UNIT PRICE ITEM

Item 51 – Concrete Sand Seepage Filter

PI-51a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish and place Concrete Sand Seepage Filter material, as required by the Contract Documents, including but not limited to:

- Filter sand
- Placement and grading

PI-51b Related Work Not Included

The following items of work closely related to Concrete Sand Seepage Filter are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-51c Measure and Payment

Measurement: Concrete Sand Seepage Filter shall be measured for payment based on the cubic yards of material satisfactorily constructed, as measured in place, completed as necessary to complete the work.

Payment: Concrete Sand Seepage Filter shall be paid at the Contract unit price per cubic yard of material satisfactorily constructed, as completed, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

UNIT PRICE ITEM

Item 52 – Rip Rap

PI-52a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish and place rip rap, as required by the Contract Documents, including but not limited to:

- Placement of rip rap
- Grading of rip rap

PI-52b Related Work Not Included

The following items of work closely related to Rip Rap are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-52c Measure and Payment

Measurement: Rip Rap shall be measured for payment based on the cubic yards of rip rap satisfactorily constructed, as measured in place, completed as necessary to complete the work.

Payment: Rip Rap shall be paid at the Contract unit price per cubic yard of rip rap satisfactorily constructed, as completed, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

LUMP SUM PRICE ITEM

Item 53 – Gate (House) Enclosure

PI-53a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish, install, and construct wood framed gate house, at Sixth Lake Dam, as required by the Contract Documents, including but not limited to:

- Wood framing and sheathing
- Water resistant barriers
- Siding
- Roof underlayment, ice and water shield
- Drip edge
- Asphalt roofing
- Windows and doors and hardware
- Trim
- Metal walkways, supports, and railings

PI-53b Related Work Not Included

The following items of work closely related to Gate (House) Enclosure are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-53c Measure and Payment

Measurement: Gate (House) Enclosure shall be measured for payment based on satisfactorily furnishing, constructing, installing, and maintaining gate house, walkways, and railings, completed in place, as necessary to complete the work.

Payment: Gate (House) Enclosure shall be paid at the Contract lump sum price upon satisfactorily furnishing, constructing, installing, and maintaining gate house, walkways, and railings, completed in place, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

LUMP SUM PRICE ITEM

Item 54 – Sluice Gates

PI-54a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish, install, construct, and maintain gate house sluice gates, at Sixth Lake Dam, as required by the Contract Documents, including but not limited to:

- Sluice gates
- Guides, thimbles, operating stands, operators, ancillary hardware
- Concrete anchors
- Field and leakage testing

PI-54b Related Work Not Included

The following items of work closely related to Sluice Gates are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-54c Measure and Payment

Measurement: Sluice Gates shall be measured for payment based on satisfactorily furnishing, constructing, installing, and maintaining, and testing gate house sluice gates, completed in place, as necessary to complete the work.

Payment: Sluice Gates shall be paid at the Contract lump sum price upon satisfactorily furnishing, constructing, installing, and maintaining, and testing gate house sluice gates, completed in place, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

LUMP SUM PRICE ITEM

Item 55 – Spillway Sluice Gate

PI-55a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish, install, construct, and maintain spillway sluice gate, at Sixth Lake Dam, as required by the Contract Documents, including but not limited to:

- Sluice gates
- Guides, thimbles, operating stands, operators, ancillary hardware
- Concrete anchors
- Field and leakage testing

PI-55b Related Work Not Included

The following items of work closely related to Sluice Gates are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-55c Measure and Payment

Measurement: Sluice Gates shall be measured for payment based on satisfactorily furnishing, constructing, installing, and maintaining, and testing gate house sluice gates, completed in place, as necessary to complete the work.

Payment: Sluice Gates shall be paid at the Contract lump sum price upon satisfactorily furnishing, constructing, installing, and maintaining, and testing gate house sluice gates, completed in place, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

LUMP SUM PRICE ITEM

Item 56 – Trash Racks

PI-56a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish, install, construct, and maintain trash racks, at Sixth Lake Dam, as required by the Contract Documents, including but not limited to:

- Divers and diving equipment and protection systems
- Removal and disposal of existing trash rack
- Stainless steel trash racks
- Steel reinforcement
- Concrete anchors

PI-56b Related Work Not Included

The following items of work closely related to Trash Racks are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-56c Measure and Payment

Measurement: Trash Racks shall be measured for payment based on satisfactorily furnishing, constructing, installing, and maintaining trash racks, completed in place, as necessary to complete the work.

Payment: Trash Racks shall be paid at the Contract lump sum price upon satisfactorily furnishing, constructing, installing, and maintaining trash racks, completed in place, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

LUMP SUM PRICE ITEM

Item 57 – Log Boom

PI-57a Work Included

The work of this item includes all labor, material, equipment, design, submittals, deliverables, coordination and scheduling necessary to furnish, install, and construct log boom at Sixth Lake Dam, as required by the Contract Documents, including but not limited to:

- Demolition, removal, and disposal of existing boom, floats, chains, anchors, and hardware
- Log boom end anchors
- Log boom intermediate anchors
- Drilling and rock bolts
- Divers, crew, diving equipment

PI-57b Related Work Not Included

The following items of work closely related to Log Boom are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-57c Measure and Payment

Measurement: Log Boom shall be measured for payment based on linear foot of log boom satisfactorily furnished, constructed, and installed, as measured in place, completed as necessary to complete the work.

Payment: Log Boom shall be paid at the Contract unit price per foot of log boom satisfactorily furnished, constructed, installed, and maintained, completed in place, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

LUMP SUM PRICE ITEM

Item 58 – Timber Steps

PI-58a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish, install, and construct timber steps, as required by the Contract Documents, including but not limited to:

- Demolition and disposal of existing timber bulkhead wall
- Excavation, fill, compaction
- Heavy timbers
- Rock fill
- Nails, lag bolts, rebar
- Anchorage

PI-58b Related Work Not Included

The following items of work closely related to Timber Steps are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- General Fill

PI-58c Measure and Payment

Measurement: Timber Steps shall be measured for payment based on satisfactorily furnishing, constructing, installing, and maintaining timber steps, completed in place, as necessary to complete the work.

Payment: Timber Steps shall be paid at the Contract lump sum price upon satisfactorily furnishing, constructing, installing, and maintaining timber steps, completed in place, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

UNIT PRICE ITEM

Item 59 – General Fill

PI-59a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish and place general fill, as required by the Contract Documents, including but not limited to:

- Placement of General Fill
- Grading of General Fill
- Compaction of General Fill

PI-59b Related Work Not Included

The following items of work closely related to General Fill are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps

PI-59c Measure and Payment

Measurement: General Fill shall be measured for payment based on the cubic yards of general fill satisfactorily constructed, as measured in place, completed as necessary to complete the work.

Payment: General Fill shall be paid at the Contract unit price per cubic yard of general fill satisfactorily constructed, as completed, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

UNIT PRICE ITEM

Item 60 – General Site Restoration

PI-60a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish and place general fill, top soil, mulch, straw, and seed, and restore the site to conditions existing prior to construction, at Sixth Lake Dam, as required by the Contract Documents, including but not limited to:

- General fill
- Top soil
- Grading
- Application of fertilizer, compost, and limestone
- Mulch
- Straw
- Permanent and temporary seeding
- Maintenance of restored areas

PI-60b Related Work Not Included

The following items of work closely related to General Site Restoration are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-60c Measure and Payment

Measurement: General Site Restoration shall be measured for payment based on the cubic yards of general fill and top soil satisfactorily constructed, as measured in place, completed as necessary to complete the work.

Payment: General Site Restoration shall be paid at the Contract unit price per cubic yard of general fill and top soil satisfactorily constructed, as completed, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

LUMP SUM PRICE ITEM

Item 61 – Chain Link Fence

PI-61a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish, install, and construct chain link fence and gate, at Sixth Lake Dam, as required by the Contract Documents, including but not limited to:

- Post supports
- Cast-in-place concrete base
- Posts (end, corner, line)
- Post caps
- Rails, rail ends, rail sleeves
- Tension bars, tension bands, tension wire
- Brace bands
- Chain link fencing with privacy slats
- Tie wire
- Connection hardware
- Gate frame, gate hinge, locking latch

PI-61b Related Work Not Included

The following items of work closely related to Chain Link Fence are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- 20 kW Standby Generator and Automatic Transfer Switch
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-61c Measure and Payment

Measurement: Chain Link Fence shall be measured for payment based on satisfactorily furnishing, constructing, installing, and maintaining chain link fence, completed in place, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

Payment: Chain Link Fence shall be paid at the Contract lump sum price upon satisfactorily furnishing, constructing, installing, and maintaining chain link fence, completed in place, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

LUMP SUM PRICE ITEM

Item 62 – 20 kW Standby Generator and Automatic Transfer Switch

PI-62a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish, install, construct, and test 20 kW generator and automatic transfer switch, at Sixth Lake Dam, as required by the Contract Documents, including but not limited to:

- 20 kW generator
- Cable and conduit
- Automatic transfer switch, weather proof enclosures
- Stands and mounting hardware
- Fuel tank, piping, and lines
- Start-up and full load testing

PI-62b Related Work Not Included

The following items of work closely related to 20 kW Standby Generator and Automatic Transfer Switch are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation
- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- Electrical
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-62c Measure and Payment

Measurement: 20 kW Standby Generator and Automatic Transfer Switch shall be measured for payment based on satisfactorily furnishing, constructing, installing, and maintaining a 20kW generator and automatic transfer switch, completed in place, as necessary to complete the work.

Payment: 20 kW Standby Generator and Automatic Transfer Switch shall be paid at the Contract lump sum price upon satisfactorily furnishing, constructing, installing, and maintaining a 20kW generator and automatic transfer switch, completed in place, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

LUMP SUM PRICE ITEM

Item 63 – Electrical

PI-63a Work Included

The work of this item includes all labor, material, equipment, submittals, deliverables, coordination and scheduling necessary to furnish, install, construct, and test electrical service, component, and systems at Sixth Lake Dam, as required by the Contract Documents, including but not limited to:

- Termination and demolition of existing service
- Temporary service, utility agreements, payments
- New service
- 120 Volt systems
- 240 Volt systems
- Cable and conduit
- Lighting
- Fixtures
- Switches and outlets
- Sluice gate operator connections
- Transfer switch connections
- Standby generator power connections

PI-63b Related Work Not Included

The following items of work closely related to Electrical are specifically not included under this item.

- Mobilization and Demobilization
- Underground Utility Locator Service
- Temporary Facilities and Controls
- Erosion and Sediment Control
- Survey
- Demolition – Existing Gatehouse
- Demolition – Existing Concrete
- Concrete Cutting
- Soil and Sediment Excavation

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

- Bedrock Removal
- Offsite Disposal
- Post Tension Anchors
- Grout Rock Surface
- Cofferdam
- Concrete – Spillway Foundation
- Concrete – Slabs and Aprons
- Concrete - Walls
- Dewatering
- Structural Backfill
- Wood Fence
- Temporary Rip Rap Apron
- Gate (House) Enclosure
- Sluice Gates
- Trash Racks
- Stoplogs
- Log Boom
- Floating Aluminum Docks
- Boulder Retaining Wall
- Gravel Fill Restoration
- Geneal Site Restoration
- Asphalt Path
- Restoration of Pavement
- Chain Link Fence
- 20 kW Standby Generator and Automatic Transfer Switch
- No 57 Stone Seepage Filter
- No 9 Sand Seepage Filter
- Concrete Sand Seepage Filter
- Rip Rap
- Spillway Sluice Gate
- Timber Steps
- General Fill

PI-63c Measure and Payment

Measurement: Electrical shall be measured for payment based on satisfactorily furnishing, constructing, installing, and maintaining electrical work, completed in place, as necessary to complete the work.

PAYMENT ITEMS

OLD FORGE DAM AND SIXTH LAKE DAM REHABILITATION
CONTRACT D012025

Payment: Electrical shall be paid at the Contract lump sum price upon satisfactorily furnishing, constructing, installing, and maintaining electrical work, completed in place, as necessary to complete the work.