

Wetland Program Plan for the Pyramid Lake Paiute Tribe




October 1st, 2015 – September 30th, 2018

Pyramid Lake Paiute Tribe Wetland Program Contact Information

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Introduction

The Pyramid Lake Indian Reservation (PLIR, Reservation) is roughly 477,000 acres and is located in Washoe County, NV, approximately 35 miles Northeast of Reno. Diverse wetland/riparian areas are widely dispersed throughout the Reservation. The areas in the northern portion of the PLIR contain small spring-fed wetlands, whereas the southern portion contains riparian wetland systems fed through a shallow water table associated with the lower Truckee River. Wetlands are rare in high desert systems and are used by a variety of species that would be impacted by the loss of wetlands and/or wetland quality.

Wetlands on the PLIR have been in decline over the past century. The smaller spring-fed wetlands of the PLIR have been negatively impacted by grazing, noxious weeds, and weather conditions. The decline in water flow is a result of upstream water diversions and has contributed to major incision of the lower Truckee River, disturbing many riparian/wetland areas.

The Pyramid Lake Paiute Tribe (PLPT, Tribe) recognizes that the protection, conservation and best use of the water resources of the Tribe are vital to the well-being of the Tribe and its people. The Tribe also recognizes that wetlands provide many functions and values that are essential to the Tribe. PLPT developed the PLPT Water Quality Ordinance, Ordinance No. 53, to implement enforcement and compliance mechanisms to monitor compliance and deter violations. Through the Pyramid Lake Paiute Tribe Water Control Plan, PL66-08 PLPT WQCP, the Tribe shows its commitment to water quality protection of its aquatic resources by adopting regulations or rules to implement tribal and/or federal water quality statutes.

The PLPT Natural Resources Department, along with its partners, has built the capacity of wetland regulation, planning, and restoration programs within the Reservation, largely through the assistance of U.S. Environmental Protection Agency's (US EPA) Wetland Program Development Grant (WPDG) Program. Past WPDG awards from the US EPA have allowed the PLPT to locate, inventory, and create a National Wetland Inventory (NWI) map, as well as conduct some preliminary wetlands monitoring and assessment.

The Wetland Program Plan (WPP) has a range of management activities and should be considered a work in progress that will be revisited annually and revised as needed. The WPP provides a framework and direction over the Tribe's Wetland Program for the next 3 years.

Goals and Time Frame for the Pyramid Lake Paiute Tribe Wetland Protection Program

The PLPT Wetland Program will continue its goal towards protecting and restoring wetland resources for their economic, cultural, environmental and human health benefits. The time frame for this plan is three years beginning October 1st, 2015 and ending September 30th, 2018. The Wetland Program will use the products of this work to continue to enhance protection of wetland resources within the Reservation boundaries by continuing to develop the monitoring and assessment, regulatory, and restoration and protection elements of the program.

Previous Wetland Program's efforts have been included below; under each element heading a short description has been provided. A series of actions and associated activities have been planned to continue to develop the core elements of the PLPT's Wetlands Program for the next three years. These actions and activities are listed with a brief description.

Previous Pyramid Lake Paiute Tribe Wetland Protection Program Efforts

CORE ELEMENT: MONITORING AND ASSESSMENT

- *Identified program decisions and long-term environmental outcome(s) that will benefit from a wetlands monitoring and assessment program. [Monitoring and Assessment, Objective 1.a.]* The Wetland Program developed the monitoring and assessment element of the Wetlands Program, which enabled the Tribe to make informed decisions about wetland resources. It also allowed the program to track trends in wetland condition and provide a framework to track the success of restoration projects. The long-term environmental outcome increased wetland protection.
- *Defined wetlands monitoring objectives and strategies and developed monitoring strategy. [Monitoring and Assessment, Objective 1.b.]* The Wetland Program used the existing experience of Water Quality Program (WQ Program) as a starting point for the development of the Wetland Monitoring Strategy. The WQ Program staff has experience with water and macroinvertebrate sampling, as well as habitat assessments. The main monitoring objectives were to document the condition of wetlands and develop a long-term program that would allow for the tracking of wetland condition over time.
- *Ensured scientific validity of monitoring and laboratory activities. [Monitoring and Assessment, Objective 2.a.]* The Wetland Program developed the *Quality Assurance Project Plan (QAPP) for Monitoring, Assessment, and Tracking of Pyramid Lake Indian Reservation Wetland Resources, Quality Assurance (QA) Office Document Control Number WATR0602QV2*. The date of approval for the original plan was February 5, 2008. Portions of the QAPP needed to be updated after initial field season. The QAPP was last amended in July 2014, which included

the addition of a vegetation survey, as well as updated outside lab procedures.

Because the original QAPP is more than five years old, all amendments will need to be integrated and submitted with a new signature page. The re-review of the entire QAPP meets the 5 year approval requirements for grant conditions.

- *Monitored wetland resources as specified in strategy. [Monitoring and Assessment, Objective 2.b.]* Followed the procedures defined in the approved QAPP and amended QAPP to conduct monitoring and assessment activities. Four data sets collected over a four year period.
- *Tracked monitoring data. [Monitoring and Assessment, Objective 2.d.]* Developed a series of spreadsheets to store wetlands data. Utilized the collected data to track changes in wetland conditions. Data and reports were submitted to EPA.
- *Evaluated monitoring program. [Monitoring and Assessment, Objective 3.a.]* Program evaluations were conducted annually during grant final reporting; Program needs were included in the quarterly reports.
- *Submitted reports to EPA reporting wetland status and trends when permissible. [Monitoring and Assessment, Objective 2.e.]* Reported to EPA regarding project tasks including data collected and an analysis of any changes in wetland condition and trends.

CORE ELEMENT: REGULATION

Most regulatory work is done through the PLPT Water Quality 401 Certification authority. The Wetland Program continued collaboration of all the PLPT Environmental Department's programs to ensure that all waters of the Tribe were protected.

- *Provided clear and comprehensive jurisdictional coverage of aquatic resources. [Regulation, Objective 1.a.]* This was done through the development and approval of the PLPT Water Quality Control Plan (WQCP).
http://www.plpt-waterquality.net/pdfs/wqcp_oct_2008_draft1.pdf
- *Clearly identified a comprehensive scope of activities to be regulated. [Regulation, Objective 1.b.]* The scope of regulated activities were identified through the administration of the PLPT WQCP and 401 Certification.
- *Adopted regulations or rules to implement tribal and/or federal water quality statutes. [Regulation, Objective 2.a.]* PLPT adopted the PLPT WQCP through Resolution No.: PL66-08.
http://www.plpt.nsn.us/environmental/PL6608_2008_WQCP.pdf

- *Developed and operated according to a clear and effective set of criteria for reviewing and responding to applications. [Regulation, Objective 2.b.]* The PLPT WQ Program developed and operated according to a set of numeric and narrative water quality criteria for reviewing and responding to 401 Certification applications.
- *Actively reviewed proposed impacts to waters of the Tribe. [Regulation, Objective 2.c.]* Through 401 Certification, under the National Discharge Elimination System (NPDES), the PLPT WQ Program reviewed proposed projects that may have resulted in a discharge of a pollutant into Waters of the U.S., or the Tribe on the. Furthermore, the Tribe also reviewed Storm Water Pollution Prevention Plans (SWPPP) for projects disturbing one acre or more of land, as a requirement of 401 Certification.
- *Coordinated among agencies, programs, and industry groups to reduce duplicative efforts by the program and the regulated public. [Regulation, Objective 2.e.]* Proposed projects both on and off Reservation were reviewed at the monthly tribal Interdisciplinary Team (IDT) meetings, to assist in identifying lead individuals to maximize efficiency.
- *Required effective mitigation for authorized impacts. [Regulation, Objective 2.f.]* The PLPT has required project agencies to mitigate impacts to water quality through 401 Certification conditions, such as the implementation of Best Management Practices (BMPs) to reduce pollution.
- *Tracked and evaluated program implementation. [Regulation, Objective 2.h.]* The PLPT WQ Program tracked all certification activities. Program evaluation was completed annually during grant final reporting.
- *Monitored the implementation of permit/certification conditions [Regulation, Objective 3.a.].* The PLPT WQ Program monitored ongoing projects to ensure that certification requirements were followed through coordination with other agencies, project managers, and site visits.
- *Enforced aquatic resource protections. [Regulation, Objective 3.b.]* Developed the PLPT Water Quality Ordinance to implement enforcement and compliance mechanisms to monitor compliance and deter violations.
- *Conducted public outreach and education about wetland protection, regulated waters, and activities and authorization process. [Regulation, Objective 3.e.]* Performed public outreach at various local events, such as the Pyramid Lake Tribal Environmental Youth Camp, as well as included information in the Tribe's newsletter and website.

CORE ELEMENT: VOLUNTARY RESTORATION AND PROTECTION

- *Established partnerships to leverage additional protection. [Restoration and Protection, Objective 2.a.]* Collaborated with various agencies including the US EPA, U.S. Fish and Wildlife Service (USFWS), the local Natural Resource Conservation Service (NRCS), and the Nature Conservancy (TNC), to support wetland protection efforts.
- *Improved natural wetland conditions and functions through restoration (rehabilitation). [Restoration and Protection, Objective 3.b.]* Developed restoration plans for wetlands through collaboration with funding agency. Restoration/rehabilitation activities included installing fencing, invasive weed removal, replanting native vegetation, and bank stabilization.
- *Established and institutionalized long term protection. [Restoration and Protection, Objective 2.b]* Developed management plans for Numana Wetlands.

CORE ELEMENT: WATER QUALITY STANDARDS FOR WETLANDS

The PLPT WQCP narrative standards apply to all surface water bodies within the exterior boundaries of the Reservation including, but not limited to: ephemeral, intermittent, or perennial streams, springs, and wetlands. At this time, the narrative standards within the Tribe's WQCP are sufficient.

Planned Actions and Activities for the Pyramid Lake Paiute Tribe Wetlands Program

Below are the planned actions, activities, and estimated dates of work for PLPT Wetlands Program for the next three years (2015-2017). The descriptions have been organized by core element and year. Some of the planned actions and activities are continuing/when needed and so no specific dates are listed but are included for each plan year.

CORE ELEMENT: MONITORING AND ASSESSMENT YEAR: 2015

Action: Identify program decisions and long-term environmental outcome(s) that will benefit from a wetlands monitoring and assessment program. [Monitoring and Assessment, Objective 1.a.]

- **Activity:** The Wetland Program will continue collaboration with the Tribe's WQ Program

and Natural Resources Department, including: data sharing, problem solving, and sharing in field work duties. The Wetland Program staff will consist of one full-time Wetlands Specialist and one part-time Wetland Technician.

Dates: 10/2015 – 09/2016

- **Activity:** The Wetland Program will identify how wetland data can be utilized to implement watershed planning. The program will coordinate with WQ and NPS Programs in watershed-based planning efforts.

Dates: 10/2015 - 09/2016

Action: Monitor wetland resources as specified in strategy. [Monitoring and Assessment, Objective 2.b.]

- **Activity:** Staff will train to accomplish monitoring and assessment objectives defined in the Wetlands QAPP. This will be accomplished by attending monitoring and assessment trainings offered in the region. Potential training topics include: California Rapid Assessment Method, macroinvertebrate identification, wetlands monitoring/restoration/regulation, tribal grant programs, and plant identification.

Dates: Throughout the year when training is available.

- **Activity:** The Wetland Program will conduct wetlands monitoring and assessment activities defined in the Wetlands QAPP. Monitoring and assessment activities include rapid assessments, water quality monitoring, water and macroinvertebrate sampling, and vegetation surveys.

Dates: 10/2015 – 09/2016

- **Activity:** The Wetland Program will record and assess data collected from monitoring sites and log into Excel database. Furthermore, monitoring and assessment data will be used to track trends in wetland conditions and prepare annual reports on conditions.

Dates: 10/2015 – 09/2016

Action: Track monitoring data in a system that is accessible, updated on a timely basis and integrate with other tribal water quality data. [Monitoring and Assessment, Objective 2.d.]

- **Activity:** The Wetland Program will use georeferenced data as it is gathered for reporting. This will be done by collecting geographic coordinates at each data collection site and stored spreadsheets, as well as used to create GIS maps.

Dates: 10/2015 – 09/2016

Action: Analyze monitoring data to evaluate wetlands extent and condition/function or to inform decision making. [Monitoring and Assessment, Objective 2.e.]

- **Activity:** The Wetland Program will conduct regular reporting of wetland status and trends. Annual reports will be developed for internal reporting purposes including site descriptions,

status and trends information.

Dates: 10/2015 – 09/2016

Action: Evaluate monitoring program to determine how well it is meeting the monitoring program objectives. [Monitoring and Assessment, Objective 3.a.]

- **Activity:** The Wetland Program will make changes to monitoring activities as needed. The program will conduct program evaluations through quarterly grant reporting and continue to assess program needs.

Dates: 10/2015 – 09/2016

- **Activity:** The Wetlands Program will review other program's elements and modify other as needed, based on review of monitoring data. Conduct program evaluations quarterly during grant reporting.

Dates: 10/2015 – 09/2016

**CORE ELEMENT: MONITORING AND ASSESSMENT YEAR:
2016**

Action: Identify program decisions and long-term environmental outcome(s) that will benefit from a wetlands monitoring and assessment program. [Monitoring and Assessment, Objective 1.a.]

- **Activity:** The Wetland Program will continue collaboration with the Tribe's WQ Program and Natural Resources Department, including: data sharing, problem solving, and sharing in field work duties. The Wetland Program staff will consist of one full-time Wetlands Specialist and one part-time Wetland Technician.

Dates: 10/2016 – 09/2017

- **Activity:** The Wetland Program will identify how wetland data can be utilized to implement watershed planning. The program will coordinate with WQ and NPS Programs in watershed-based planning efforts.

Dates: 10/2016 – 09/2017

Action: Monitor wetland resources as specified in strategy. [Monitoring and Assessment, Objective 2.b.]

- **Activity:** Staff will train to accomplish monitoring and assessment objectives defined in the Wetlands QAPP. This will be accomplished by attending monitoring and assessment trainings offered in the region. Potential training topics include: California Rapid Assessment Method, macroinvertebrate identification, wetlands monitoring/restoration/regulation, tribal

grant programs, plant identification, and hydraulic conditions (flow regimes and precipitation).

Dates: Throughout the year when training is available.

- **Activity:** The Wetland Program will conduct wetlands monitoring and assessment activities defined in the Wetlands QAPP. Monitoring and assessment activities include rapid assessments, water quality monitoring, water and macroinvertebrate sampling, and vegetation surveys, as well as incorporate hydraulic (flow regimes and precipitation) conditions into monitoring activities.

Dates: 10/2016 – 09/2017

- **Activity:** The Wetland Program will record and assess data collected from monitoring sites and log into Excel database. Furthermore, monitoring and assessment data will be used to track trends in wetland conditions and prepare annual reports on conditions.

Dates: 10/2016 – 09/2017

Action: Track monitoring data in a system that is accessible, updated on a timely basis, and integrated with other tribal water quality data. [Monitoring and Assessment, Objective 2.d.]

- **Activity:** The Wetland Program will use georeferenced data as it is gathered for reporting. This will be done by collecting geographic coordinates at each data collection site and stored spreadsheets, as well as used to create GIS maps.

Dates: 10/2016 – 09/2017

Action: Analyze monitoring data to evaluate wetlands extent and condition/function or to inform decision making. [Monitoring and Assessment, Objective 2.e.]

- **Activity:** The staff will analyze changes in wetland extent or condition relative to baseline conditions.

Dates: 10/2016 – 09/2017

- **Activity:** The staff will conduct regular reporting of wetland status and trends, as well as develop annual reports for internal reporting purposes, including: site descriptions, status and trends information.

Dates: 10/2016 – 09/2017

Action: Evaluate monitoring program to determine how well it is meeting the monitoring program objectives. [Monitoring and Assessment, Objective 3.a.]

- **Activity:** The Wetlands Program will review other program's elements and modify other as needed, based on review of monitoring data. Conduct program evaluations quarterly during grant reporting.

Dates: 10/2016 – 09/2017

**CORE ELEMENT: MONITORING AND ASSESSMENT YEAR:
2017**

Action: Identify program decisions and long-term environmental outcome(s) that will benefit from a wetlands monitoring and assessment program. [Monitoring and Assessment, Objective 1.a.]

- **Activity:** The Wetland Program will continue collaboration with the Tribe's WQ Program and Natural Resources Department, including: data sharing, problem solving, and sharing in field work duties. The Wetland Program staff will consist of one full-time Wetlands Specialist and one part-time Wetland Technician.
Dates: 10/2017 – 09/2018
- **Activity:** The Wetland Program will collaborate with the Tribe's WQ Program on developing a Watershed Based Plan for Pyramid Lake Watershed with integration of wetland protection.
Dates: 10/2017 – 09/2018

Action: Monitor wetland resources as specified in strategy. [Monitoring and Assessment, Objective 2.b.]

- **Activity:** Staff will train to accomplish monitoring and assessment objectives defined in the Wetlands QAPP. This will be accomplished by attending monitoring and assessment trainings offered in the region. Potential training topics include: California Rapid Assessment Method, macroinvertebrate identification, wetlands monitoring/restoration/regulation, tribal grant programs, plant identification, hydraulic conditions (flow regimes and precipitation), and soil surveying.
Dates: Throughout the year when training is available.
- **Activity:** The Wetland Program will conduct wetlands monitoring and assessment activities defined in the Wetlands QAPP. Monitoring and assessment activities include rapid assessments, water quality monitoring, water and macroinvertebrate sampling, and vegetation surveys, as well as incorporate hydraulic (flow regimes and precipitation) and basic soil surveys into monitoring activities.
Dates: 10/2017 – 09/2018
- **Activity:** The Wetland Program will record and assess data collected from monitoring sites and log into Excel database. Furthermore, monitoring and assessment data will be used to track trends in wetland conditions and prepare annual reports on conditions.
Dates: 10/2017 – 09/2018

Action: Track monitoring data in a system that is accessible, updated on a timely basis, and integrated with other tribal water quality data. [Monitoring and Assessment, Objective 2.d.]

- **Activity:** The Wetland Program will use georeferenced data as it is gathered for reporting. This will be done by collecting geographic coordinates at each data collection site and

stored spreadsheets, as well as used to create GIS maps.

Dates: 10/2017 – 09/2018

Action: Analyze monitoring data to evaluate wetlands extent and condition/function or to inform decision making. [Monitoring and Assessment, Objective 2.e.]

- **Activity:** The staff will analyze changes in wetland extent or condition relative to baseline conditions and previous year's wetland monitoring data.

Dates: 10/2017 – 09/2018

- **Activity:** The staff will conduct regular reporting of wetland status and trends, as well as develop annual reports for internal reporting purposes, including: site descriptions, status and trends information.

Dates: 10/2017 – 09/2018

Action: Evaluate monitoring program to determine how well it is meeting the monitoring program objectives. [Monitoring and Assessment, Objective 3.a.]

- **Activity:** The Wetlands Program will review other program's elements and modify other as needed, based on review of monitoring data. Conduct program evaluations quarterly during grant reporting.

Dates: 10/2017 – 09/2018

**CORE ELEMENT: REGULATION YEAR:
2015**

Action: Clearly identify a comprehensive scope of activities to be regulated. [Regulation, Objective 1.b.]

- **Activity:** The Wetland Program will coordinate with the Tribe's WQ Program on CWA regulatory programs (e.g. CWA 401) and Tribal laws to cover all impact types and methods for the protection of wetlands within the Reservation. Staff will also continue working with stakeholder workgroups, attend agency meetings, and provide public comment to projects with potential impacts to the Reservation's wetlands. Lastly, the staff will review the Tribal WQ Ordinance to ensure protection of wetland resources on the Reservation.

Dates: 10/2015 – 09/2016

Action: Actively review proposed projects that may have impacts to waters of the Tribe. [Regulation, Objective 2.c.]

- **Activity:** The staff will continue reviewing potential impacts on and off the Reservation and submit comments at the Tribal IDT meetings, or through coordination with the WQ Program. The Wetland staff will coordinate with WQ Program on potential projects in need

of 401 Certification, to ensure all potentially regulated activities are addressed and take appropriate programmatic action. Lastly, staff will provide feedback on 401 Certifications to ensure protection of wetland resources on the Reservation.

Dates: 10/2015 – 09/2016

Action: Coordinate among agencies, programs, and industry groups to reduce duplicative efforts by the programs and the regulated public. [Regulation, Objective 2.e.]

- **Activity:** The Wetland Program will continue to use a joint-review process and practices, including ongoing coordination with the WQ Program, U.S. Army Corps of Engineers (USACE), USFWS, and the State of Nevada (State).

Dates: 10/2015 – 09/2016

- **Activity:** Staff will develop clear guidelines for roles, responsibilities, and procedures for review of permits for activities that require approval from more than one state/tribal agency. This will be accomplished with coordination with the WQ Program and Tribal IDT.

Dates: 10/2015 – 09/2016

Action: Require effective mitigation for authorized impacts. [Regulation, Objective 2.f.]

- **Activity:** The staff will work to ensure that proposed projects with potential impacts are required to mitigate through effective through 401 Certification special conditions. Staff will coordinate with WQ Program throughout Tribal 401 Certification process.

Dates: 10/2015 – 09/2016

Action: Track permit/certification program. [Regulation, Objective 2.g.]

- **Activity:** Staff will track permit/certification program activity and coordinate with the WQ Program throughout Tribal 401 Certification process, to ensure wetland resources are protected on the Reservation.

Dates: 10/2015 – 09/2016

Action: Develop clear, publicly accessible guidance and/or training on how to identify waters of the Reservation for wetlands, streams, and other waters. [Regulation, Objective 1.c.]

- **Activity:** The Wetland Program will create education/outreach documents and activities will be available on important programmatic topics. Staff will also participate in various local events and update website as needed.

Dates: 10/2015 – 09/2016

Action: Measure environmental results. [Regulation, Objective 3.f.]

- **Activity:** Using 401 Certification program activities database, staff will monitor and

develop reports on permitted activities and mitigation site information to measure any change in condition, if applicable, to the protection of wetland resources on the Reservation.

Dates: 10/2015 – 09/2016

CORE ELEMENT: REGULATION YEAR:

2016

Action: Clearly identify a comprehensive scope of activities to be regulated. [Regulation, Objective 2.b.]

- **Activity:** The Wetland Program will coordinate with the Tribe's WQ Program on CWA regulatory programs (e.g. CWA 401) and Tribal laws to cover all impact types and methods for the protection of wetlands within the Reservation. Staff will also continue working with stakeholder workgroups, attend agency meetings, and provide public comment to projects with potential impacts to the Reservation's wetlands. Lastly, the staff will review the Tribal WQ Ordinance to ensure protection of wetland resources on the Reservation.

Dates: 10/2016 – 09/2017

Action: Actively review proposed impacts to waters of the Tribe. [Regulation, Objective 2.c.]

- **Activity:** The staff will continue reviewing potential impacts on and off the Reservation and submit comments at the Tribal IDT meetings, or through coordination with the WQ Program. The Wetland staff will coordinate with WQ Program on potential projects in need of 401 Certification, to ensure all potentially regulated activities are addressed and take appropriate programmatic action. Lastly, staff will provide feedback on 401 Certifications to ensure protection of wetland resources on the Reservation.

Dates: 10/2016 – 09/2017

Action: Coordinate among agencies, programs, and industry groups to reduce duplicative efforts by the programs and the regulated public. [Regulation, Objective 2.e.]

- **Activity:** Program will continue to use a joint-review process and practices, including ongoing coordination with the WQ Program, USACE, USFWS, and the State.
- **Activity:** Staff will develop clear guidelines for roles, responsibilities, and procedures for review of permits for activities that require approval from more than one state/tribal agency. This will be accomplished with coordination with the WQ Program and Tribal IDT.

Dates: 10/2016 – 09/2017

Action: Require effective mitigation for authorized impacts. [Regulation, Objective 2.f.]

- **Activity:** The staff will work to ensure that proposed projects with potential impacts are required to mitigate through effective through 401 Certification special conditions. Staff will coordinate with WQ Program throughout Tribal 401 Certification process.
Dates: 10/2016 – 09/2017

Action: Track permit/certification program. [Regulation, Objective 2.g.]

- **Activity:** Staff will track permit/certification program activity and coordinate with the WQ Program throughout Tribal 401 Certification process, to ensure wetland resources are protected on the Reservation.
Dates: 10/2016 – 09/2017

Action: Monitor the implementation of permit/certification conditions. [Regulation, Objective 3.a.]

- **Activity:** Wetland staff will track 401 Certification conditions that are incorporated into the projects' final permit.
Dates: 10/2016 – 09/2017

Action: Conduct public education and outreach on wetland protection, regulated waters and activities, and authorization process. [Regulation, Objective 3.e.]

- **Activity:** Staff will host a public workshop on the importance of protection of wetlands in the Reservation and other programmatic aspects. Staff will also participate in various local events and update website when needed.
Dates: 10/2016 – 09/2017

Action: Measure environmental results. [Regulation, Objective 3.f.]

- **Activity:** Using the 401 Certification program activities database, staff will monitor and develop reports on permitted activities and mitigation site information to measure any change in condition, if applicable, to the protection of wetland resources on the Reservation.
Dates: 10/2016 – 09/2017

**CORE ELEMENT: REGULATION YEAR:
2017**

Action: Clearly identify a comprehensive scope of activities to be regulated. [Regulation, Objective 1.b]

- **Activity:** The Wetland Program will coordinate with the Tribe's WQ Program on CWA regulatory programs (e.g. CWA 401) and Tribal laws to cover all impact types and methods

for the protection of wetlands within the Reservation. Staff will also continue working with stakeholder workgroups, attend agency meetings, and provide public comment to projects with potential impacts to the Reservation's wetlands. Lastly, the staff will review the Tribal WQ Ordinance to ensure protection of wetland resources on the Reservation.

Dates: 10/2017 – 09/2018

Action: Actively review proposed impacts to waters of the Tribe. [Regulation, Objective 2.c.]

- **Activity:** The staff will continue reviewing potential impacts on and off the Reservation and submit comments at the Tribal IDT meetings, or through coordination with the WQ Program. The Wetland staff will coordinate with WQ Program on potential projects in need of 401 Certification, to ensure all potentially regulated activities are addressed and take appropriate programmatic action. Lastly, staff will provide feedback on 401 Certifications to ensure protection of wetland resources on the Reservation.

Dates: 10/2017 – 09/2018

Action: Coordinate among agencies, programs, and industry groups to reduce duplicative efforts by the programs and the regulated public. [Regulation, Objective 2.e.]

- **Activity:** will continue to use a joint-review process and practices, including ongoing coordination with the WQ Program, USACE, USFWS, and the State.

Dates: 10/2017 – 09/2018

Action: Require effective mitigation for authorized impacts. [Regulation, Objective 2.f.]

- **Activity:** If after review, staff will ensure authorized impacts require effective mitigation through 401 Certification special conditions. Staff will also coordinate with WQ Program throughout Tribal 401 Certification process.

Dates: 10/2017- 09/2018

Action: Track permit/certification program. [Regulation, Objective 2.g.]

- **Activity:** Staff will track permit/certification program activity and coordinate with the WQ Program throughout Tribal 401 Certification process, to ensure wetland resources are protected on the Reservation.

Dates: 10/2017 – 09/2018

Action: Track/Evaluate [Regulation, Objective 2.h.]

- **Activity:** Program development: The Wetland Program will coordinate with WQ Program on adoption of Tribal regulations and ordinance to protect wetland resources on the PLIR.

Dates: 10/2017 – 09/2018

Action: Monitor the implementation of permit/certification conditions. [Regulation, Objective 3.a.]

- **Activity:** Wetland staff will track 401 Certification conditions that are incorporated into the projects' final permit
Dates: 10/2017 – 09/2018

Action: Conduct public education and outreach on wetland protection, regulated waters and activities, and authorization process. [Regulation, Objective 3.e.]

- **Activity:** Staff will host a public workshop on the importance of protection of wetlands in the Reservation and other programmatic aspects. Staff will also participate in various local events and update website when needed.
Dates: 10/2017 – 09/2018

Action: Measure environmental results. [Regulation, Objective 3.f.]

- **Activity:** Using the 401 Certification program activities database, staff will monitor and develop reports on permitted activities and mitigation site information to measure any change in condition, if applicable, to the protection of wetland resources on the Reservation.
Dates: 10/2017 – 09/2018

**CORE ELEMENT: VOLUNTARY RESTORATION AND PROTECTION YEAR:
2015**

Action: Establish goals that are consistent or compatible across relevant agencies. [Restoration and Protection, Objective 1.a.]

- **Activity:** Staff will coordinate with relevant agencies (USEPA, USFWS, NRCS, and the State), as well as with the WQ Program and Tribal IDT, to outline restoration/protection goals and strategies and timeframes.
Dates: 10/2015 – 09/2016
- **Activity:** Staff will update information on wetland locations, classes, conditions and functions through annual wetland assessments of the PLIR in coordination with the WQ Program.
Dates: 10/2015 – 09/2016

Action: Consider watershed planning, wildlife habitat, and other objectives when selecting restoration/protection sites. [Restoration and Protection, Objective 1.b.]

- **Activity:** Staff will identify rare, vulnerable, or important wetlands to prioritize sites in need of restoration. Staff will also coordinate with Tribal elders on identification of culturally important sites.
Dates: 10/2015 – 09/2016
- **Activity:** Staff will apply tools (GIS, color-infrared photography, mapping, results from vegetation surveys, and field inspections of soils and vegetation and hydrologic conditions) to identify and prioritize wetlands in need of restoration.
Dates: 10/2015 – 09/2016
- **Activity:** The Wetland Program will share priorities with other agencies/stakeholders involved in wetland protection and restoration and other water quality protection programs.
Dates: 10/2015 – 09/2016

Action: Establish partnerships to leverage additional protection. [Restoration and Protection, Objective 2.a]

- **Activity:** Staff will continue to coordinate and share priorities with partners to leverage wetland protection funding.
Dates: 10/2015 – 09/2016

Action: Restore wetland acreage through restoration. [Restoration and Protection, Objective 3.a.]

- **Activity:** The Wetland Program will develop restoration and management plans for restored wetlands, consistent with restoration guidance and with the integration of permaculture techniques.
Dates: 10/2015 – 09-2016

Action: Track restoration/protection projects. [Restoration and Protection, Objective 4.a]

- **Activity:** Develop and populate accessible tracking database for restoration/protection sites.
Dates: 10/2015 – 09/2016
- **Activity:** Staff will update wetland tracking database regularly (quarterly) and track the percentage of total acres of restoration/protection sites throughout the Reservation.
Dates: 10/2015 – 09/2016

CORE ELEMENT: VOLUNTARY RESTORATION AND PROTECTION YEAR: 2016

Action: Establish goals that are consistent or compatible across relevant agencies. [Restoration and Protection, Objective 1.a.]

- **Activity:** Staff will coordinate with relevant agencies (USEPA, USFWS, NRCS, and the State), as well as with the WQ Program and Tribal IDT, to outline restoration/protection goals and strategies and timeframes.

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Dates: 10/2016 – 09/2017

Action: Consider watershed planning, wildlife habitat, and other objectives when selecting restoration/protection sites. [Restoration and Protection, Objective 1.b.]

- **Activity:** Staff will integrate restoration/protection efforts on a watershed or landscape scale and continue coordination with WQ Program in watershed planning efforts.

Dates: 10/2016 – 09/2017

- **Activity:** The Wetland Program will share priorities with WQ Program and Natural Resources Department to identify weed abatement strategies and sites and identify riparian restoration projects that would reduce sediment and nutrient loadings into streams.

Dates: 10/2016 – 09/2017

Action: Establish partnerships to leverage additional protection. [Restoration and Protection, Objective 2.a.]

- **Activity:** The Wetland Program will share priorities with other agencies/stakeholders involved in wetland protection and restoration and other water quality protection programs.

Dates: 10/2016 – 09/2017

Action: Improve natural wetland conditions and functions through restoration (rehabilitation). [Restoration and Protection, Objective 3.b.]

- **Activity:** The Wetland Program will develop restoration and management plans for restored wetlands, consistent with restoration guidance and with the integration of permaculture techniques.

Dates: 10/2016- 09/2017

Action: Monitor restoration/protection sites to ensure that they are implemented and managed correctly and linked to relevant watershed planning efforts. [Restoration and Protection, Objective 4.b]

- **Activity:** Staff will monitor effectiveness of restoration/protection sites by providing before and after monitoring activities to projects to measure environmental results. This will be accomplished during annual assessment of wetlands within the exterior boundary of the Reservation. Lastly, staff will track percentage of wetland acres of restoration/protection sites throughout the PLIR.
Dates: 10/2016 – 09/2017
- **Activity:** Select a subset of indicators (core indicators) to monitor effectiveness of all restoration and protection sites. This will be accomplished through the annual wetland assessments.
Dates: 10/2016 – 09/2017
- **Activity:** Staff will conduct regular reporting of wetland restoration/protection efforts to relevant cooperating agencies and WQ Program and Tribal IDT.
Dates: 10/2016 – 09/2017

**CORE ELEMENT: VOLUNTARY RESTORATION AND PROTECTION YEAR:
2017**

Action: Establish goals that are consistent or compatible across relevant agencies. [Restoration and Protection, Objective 1.a.]

- **Activity:** Staff will coordinate with relevant agencies (USEPA, USFWS, NRCS, and the State), as well as with the WQ Program and Tribal IDT, to outline restoration/protection goals and strategies and timeframes.
Dates: 10/2017 – 09/2018
- **Activity:** Staff will update information on wetland locations, classes, conditions and functions through annual wetland assessments of the PLIR in coordination with the WQ Program.
Dates: 10/2017 – 09/2018

Action: Consider watershed planning, wildlife habitat, and other objectives when selecting restoration/protection sites. [Restoration and Protection, Objective 1.b.]

- **Activity:** Staff will integrate restoration/protection efforts on a watershed or landscape scale and continue coordination with WQ Program in watershed planning efforts.
Dates: 10/2017 – 09/2018
- **Activity:** Staff will continue to coordinate and share priorities with other agencies/stakeholders involved in wetland protection and restoration and other WQ protection programs.

Dates: 10/2017 – 09/2018

Action: Establish partnerships to leverage additional protection. [Restoration and Protection, Objective 2.a.]

- **Activity:** The Wetland Program will continue to coordinate and share priorities with partners to leverage wetland protection funding.

Dates: 10/2017 – 09/2018

Action: Establish partnerships to leverage more restoration. [Restoration and Protection, Objective 3.c]

- **Activity:** The Wetland Program will share restoration and protection priorities with partners for the protection of wetland resources on the PLIR.

Dates: 10/2017 – 09/2018

Action: Monitor restoration/protection sites to ensure that they are implemented and managed correctly and linked to relevant watershed planning efforts. [Restoration and Protection, Objective 4.b]

- **Activity:** Staff will monitor effectiveness of restoration/protection sites, as well as conduct before and after monitoring activities to projects to measure environmental results.

Dates: 10/2017 – 09/2018

- **Activity:** Staff will conduct regular reporting of wetland restoration/protection efforts to relevant cooperating agencies, adhering to agency reporting requirements.

Dates: 10/2017 – 09/2018

Action: Modify restoration/protection techniques as needed. [Restoration and Protection, Objective 4.c]

- **Activity:** The Wetland Program will develop a protocol for reviewing effectiveness of restoration and protection and modify as needed. This will be completed quarterly through the annual review of the Wetland Program, in coordination with the WQ Program and Tribal IDT.

Dates: 10/2017 – 09/2018

- **Activity:** The Wetland Program will develop protocols to review restoration and protection sites as needed and plan for follow-up site maintenance, restoration, and protection activities. This will be accomplished through quarterly review of the Wetland Program, in coordination with the WQ Program and Tribal IDT.

Dates: 10/2017 – 09/2018