



Clean Water Act Section 401 Water Quality Certification Application

Please refer to the “Clean Water Act Section 401 Water Quality Certification Application Guidance” document for assistance with completing this application.

A. Pre-Filing Meeting	
Please provide the date that a pre-filing meeting was requested from Nevada Division of Environmental Protection (NDEP) Bureau of Water Quality Planning (BWQP).	A pre-filing meeting will be requested on January 31, 2024.
<i>Note: If a pre-filing meeting has not been requested, please schedule a pre-filing meeting with NDEP BWQP.</i>	

B. Contact Information			
Project Proponent Information			
Company Name: City of Reno		Address: 1 East First Street	
Applicant Name: Sean Rahe P.E.		City: Reno	
Phone: (775) 657-4816	Fax:	State: NV	
Email: rahes@reno.gov		Zip Code: 89505	
Agent Information			
Company Name: J-U-B Engineers, Inc.		Address: 5190 Neil Rd. Ste. 500	
Agent Name: Mike Wilhelm P.E.		City: Reno	
Phone: 775-852-1440	Fax:	State: Nevada	
Email: mwilhelm@jub.com		Zip Code: 89502	

C. Project General Information			
Project Location			
Project/Site Name: Idlewild Pond Rehabilitation		Name of receiving waterbody: Idlewild Pond	
Address: 2055 Idlewild Drive		Type of waterbody present at project location (<i>select all that apply</i>): <input type="checkbox"/> Perennial River or Stream <input type="checkbox"/> Intermittent River or Stream <input type="checkbox"/> Ephemeral River or Stream <input checked="" type="checkbox"/> Lake/Pond/Reservoir <input type="checkbox"/> Wetland <input type="checkbox"/> Other: _____	
City: Reno			
County: Washoe			
State: Nevada			
Zip Code: 89509			
Latitude (UTM or Dec/Deg): 39°31'13.50" N		Longitude (UTM or Dec/Deg): 119°49'50.01" W	
Township: 19N	Range: 19E	Section: 10	¼ Section: SE

Project Details		
Project purpose:	The Idlewild Ponds Rehabilitation proposed project by the City of Reno will rehabilitated the southernmost pond at Idlewild Park. The project location is in western Reno off Booth St. The Idlewild pond is the second larger pond located closest to Idlewild Drive and is the receiving waterbody. These improvements for the Project will prevent further infiltration into the parking lot and stabilize the rock wall surrounding the pond.	
Describe current site conditions: Attachments can include, but are not limited to, relevant site data, photographs that represent current site conditions, or other relevant documentation.	The existing Idlewild pond liner is in need of rehabilitation because the pond has been exhibiting infiltration through the bottom, side walls and nearby parking lot. The City has determined that relining the pond bottom and addressing the infiltration at the pond walls is needed.	
Describe the proposed activity including methodology of each project element:	Proposed project activities to assist with rehabilitation of the pond include the demolition and excavation of the previous clay liner, re-grading the pond depression and constructing a new smaller concrete wall to support the existing historic rock wall, installing underdrain pipes, relining the pond with HPDE liner, replacement of native soil on liner, and refilling the pond to its existing depth.	
Estimate the nature, specific location, and number of discharge(s) expected to be authorized by the proposed activity:	Discharge is to occur at the existing flow path at the entrance to the City storm drain system at the southeast end of the pond. One discharge event will occur when dewatering the pond.	
Provide the date(s) on which the proposed activity is planned to begin and end and the approximate date(s) when any discharge(s) may commence:	Construction is expected to start in 2024 mid to late October and end in March of 2025. The approximate dates for discharge will occur also within the months of October 2024 at the start of the project to dewater the pond and in March 2025 to refill the pond.	
Provide a list of the federal permit(s) or license(s) required to conduct the activity which may result in a discharge into regulated waters (see mandatory attachments):	USACE 404 Nationwide Permit (NWP) 33 Temporary Construction, Access, and Dewatering	
Provide a list of all other federal, state, interstate, tribal, territorial, or local agency authorizations required for the proposed activity and the current status of each authorization:	Permits required by the City of Reno include the encroachment/excavation permit, and grading permit; Washoe County dust control permit; NDEP construction stormwater permit and temporary discharge permit. These permits are in the process of being completed by the engineer.	
Total area of impact to regulated waterbodies (acres):	The total area of impact from the Project is 8.8 acres, this includes the pond itself which is 3.7 acres and the remaining acreage surrounding the pond which is 5.1 acres.	
Total distance of impact to regulated waterbodies (linear feet):	The distance impact to regulated waterbodies is approximately 150 feet (Truckee River).	
Amount excavation and/or fill discharged within regulated waters (acres, linear feet, and cubic yards):	Temporary:	Permanent:
	12,002 Cu. Yd.	0 Cu. Yd.

Amount of dredge material discharged within regulated waters (acres, linear feet, and cubic yards):	Temporary: 0 Cu. Yd.	Permanent: 0 Cu. Yd.
Describe the reason(s) why avoidance of temporary fill in regulated waters is not practicable (if applicable):	In order to access and rehabilitate the liner of the pond the water in the pond will need to be dewatered and the pond re-graded to allow for the installation of underdrain pipes to help prevent infiltration to the bottom and walls of the pond.	
Describe the Best Management Practices (BMPs) to be implemented to avoid and/or minimize impacts to regulated waters: Examples include sediment and erosion control measures, habitat preservation, flow diversions, dewatering, hazardous materials management, water quality monitoring, equipment or plans to treat, control, or manage discharges, etc.	BMPs shall comply with all requirements of the Truckee Meadows Construction Site Best Management Practices Handbook. BMPs implemented on this project include temporary erosion and sediment controls such as silt fences, fiber wattles, or other erosion control mechanisms will be placed adjacent to or below disturbance areas to prevent and minimize sediment transport into the pond. Additionally, when feasible construction equipment will be fueled offsite and adequately buffered from riparian zones and the pond. Adequate response equipment (i.e., spill kits and cleanup materials) will be maintained onsite at all times to avoid chemical contamination in the event of a spill. Should a spill occur it will be cleaned up immediately.	
Describe how the activity has been designed to avoid and/or minimize adverse effects, both temporary and permanent, to regulated waters:	Placement of BMPs have been carefully considered to ensure erosion and sediment control and prevent contamination to nearby waterways.	
Describe any compensatory mitigation planned for this project (if applicable):	N/A	

D. Signature		
Name and Title (Print): Mike Wilhelm	Phone Number: 775-852-1440	Date: 1/31/2024
<div style="display: flex; align-items: center; justify-content: center;"> X  </div> <hr style="width: 100%; border: 0.5px solid black; margin: 5px 0;"/> Signature of Responsible Official		

Mandatory Attachments:

- **Federal Permit or License Identification:**
 - Project proponents seeking a federal general permit or license must include a copy of the draft federal license or permit and any readily available water quality-related materials that informed the development of the draft federal license or permit, or;
 - Project proponents seeking a federal individual permit or license must include a copy of the federal permit or license application and any readily available water quality-related materials that informed the development of the federal license or permit application.
- **Site Map** - A map or diagram of the proposed project site including project boundaries in relation to regulated waters, local streets, roads, and highways.
- **Engineered Drawings** - Engineered drawings are preferred to be submitted at the 70% design level. If only conceptual designs are available at the time of application, plans for construction should be submitted prior to the start of the project. Specific locations of the proposed activities and details of specific work elements planned for the project should be identified (e.g., staging areas, concrete washouts, perimeter controls, water diversions, or other BMPs).

Submit the completed application materials to NDEP (ndep401@ndep.nv.gov) with the appropriate U.S. Army Corps of Engineers Regulatory Office copied on the communication (<http://www.spk.usace.army.mil/Missions/Regulatory/Contacts/Contact-Your-Local-Office/>).

Attachments

Attachment A – Vicinity Map

Attachment B – Project Action Area

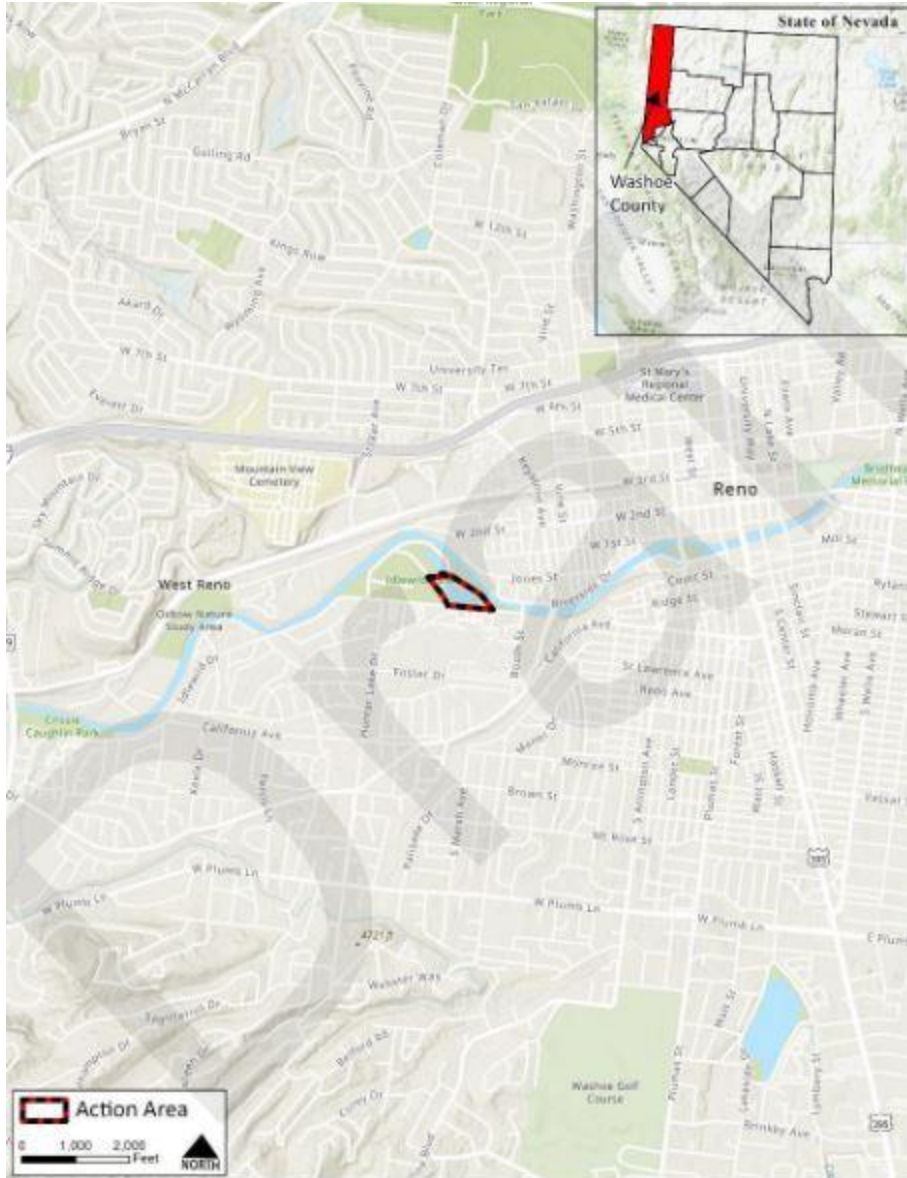
Attachment C – Plan Set, 90% Design

Attachment D – Federal NWP 33 Application

Attachment E – Photos of Current Site Conditions

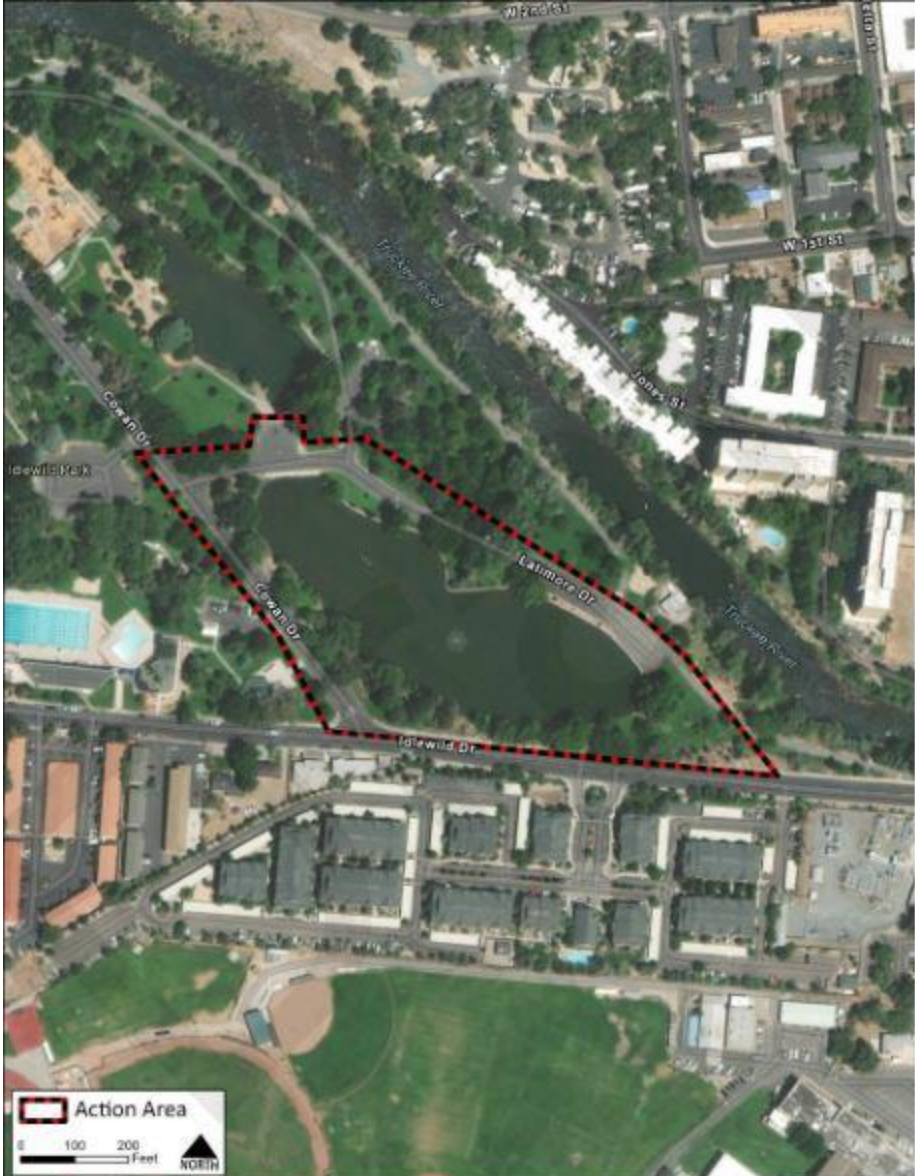
Attachment A

Vicinity Map



Attachment B

Project Action Area



Attachment E

Photos of Current Site Conditions

Idlewild Pond Rehabilitation Project

Photo Inventory



Photograph 1: Southeast view of the Action Area/pond from the north bank



Photograph 2: Southwest view of the Action Area/pond from the north bank



Photograph 3: East view of the Action Area/pond from the west bank



Photograph 4: North view of the Action Area/pond and outlet (to right) from the south



Photograph 5: Northwest view of the Action Area/pond from the east

Attachment F

Dewatering Plan Technical Memo

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CREATE BETTER COMMUNITIES



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MEMORANDUM

DATE: March 21, 2024

TO: Zach Carter, Environmental Scientist III
Nonpoint Source Branch, Bureau of Water Quality Planning
Nevada Division of Environmental Protection
Department of Conservation and Natural Resources
901 S. Stewart Street, Suite 4001
Carson City, NV 89701

CC: Sean Rahe, P.E.
Jonathan Smith, P.E.
City of Reno

FROM: Mike Wilhelm, P.E.
J-U-B Engineers, Inc.

SUBJECT: Idlewild Pond Rehabilitation
NDEP 401 Water Quality Certification – Dewatering

Mr. Carter,

This memorandum addresses the dewatering plan for the Idlewild Pond Rehabilitation Project. The purpose of this City of Reno Project is to rehabilitate the lower pond at Idlewild Park. The project location is in Western Reno adjacent to Idlewild drive. The Idlewild pond is the south pond located closest to Idlewild drive and its receiving water body. These improvements for the Project will prevent further infiltration into the parking lot of the park and stabilize the rock wall surrounding the perimeter of the pond.

Dewatering Process

Prior to any disturbance both the upper and lower pond will be drained via gravity. The gate that connects the Truckee River to the north pond will be closed, and water will be released to the City of Reno storm drain outlet, located at the southernmost part of the south pond, to



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allow for the majority of the pond to dry out. The initial discharge from the pond will be approximately 29.6 acre-ft. Due to the existing grade at the bottom of the pond and possible groundwater recharge, there may be remaining sumps that need to be pumped, the frequency depending on the amount of water, in order to maintain semi-dry conditions during construction. Both the culvert under Manstroinni Drive that separates the north and south ponds and the storm drain outlet for the south pond will be sandbagged to be used as a barrier to prevent incoming water.

A submerged pumps will be placed at low elevation spots within the pond to dewater the remaining water in the pond. A 12" manifold will be placed on one side of the pond to deliver the water to a Baker tank. Approximately one to two 10,000-gallon Baker tanks, depending on the volume of water remaining in the sumps, will be used to as a settling tank to filter the water of solids so they can be removed and hauled offsite to an approved disposal location. Prior to discharging the water from the Baker tank to the City storm drain the water will be tested for turbidity (total suspended solids) to meet both the conditions of NAC445A.1686 from Idlewild to East McCarran Boulevard bridge and NAC445A.1684 from the California-Nevada Stateline to Idlewild. Once the water is tested and confirmed to be within the designated requirements per NAC445A.1684 and NAC445A.1686 then it will be gravity discharged to the existing City storm drain.

The equipment used for dewatering includes approximately seven or eight submersible pumps to remove the water, a 12" manifold to transport the water to the Baker tanks, and two 10,000-gallon Baker tanks to filter the water prior to testing and discharging. The schematic of the dewatering system is shown in the BMP plan sheet attached, EC-1.

Once the pond is dewatered approximately 16" of material (8,000 Cu. Yd.) will be excavated and the existing clay liner demolished. All excavation that is to be removed will be replaced, i.e. net zero excavation. The pond depression will be re-graded, and a 60 mil HDPE liner will be installed. In addition, the pond is contained by a portion of a historic wall and 320 ft of the wall will be replaced, this consists of the five Cu. Yd. of fill. Once the improvements have been made the gate to both the storm drain and the culvert will be reopened to allow for the pond to fill up to its existing depth.



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Conclusion

In conclusion, the dewatering process will consist of draining the pond and using submersible pumps to pump out the remaining water to Baker tank(s). The Baker tank(s) will help to isolate suspended solids which will be removed offsite. The water will be tested to meet the turbidity water quality requirements for the Truckee River discharged to the City of Reno storm drain.

Should you have any further questions please don't hesitate to reach out.

Sincerely,

Mike Wilhelm, P.E.
J-U-B Engineers, Inc.

References

Chapter 445A - Water Controls. (n.d.). Retrieved from NAC 445A:

<https://www.leg.state.nv.us/nac/nac-445a.html#NAC445ASec11768>

United Rentals. (n.d.). *The Baker Tank*. Retrieved from <https://www.unitedrentals.com/en-gb/baker-tank>

Attachments

City of Reno Lower Idlewild Pond Rehabilitation, BMP plan sheet, EC-1.



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