

Pine Lake Watershed Project

Red Lake Watershed District

July 12, 2016 Meeting; 6:30–8:30 p.m.

Welcome!

The purpose of this meeting is to:

- Build public awareness and understanding of the project.
- Meet the project team.
- Ask questions.
- Provide opportunity for public input.

Project Understanding & Goals

Historical Context

- A 45 square mile drainage area flows into Pine Lake.
- In 1981, a sheet pile dam with two adjustable stops bays was built to raise the lake level and provide a means to manage the level.

Project Purpose

The purpose of this project is to allow adaptive water level management of Pine Lake throughout the year.

Today's Needs

- Runoff causes rapid increases in lake levels.
- Flooding has occurred in 13 of the last 33 years.
- Lower lake levels in late summer, fall, and winter result in recreation issues and fish kills.

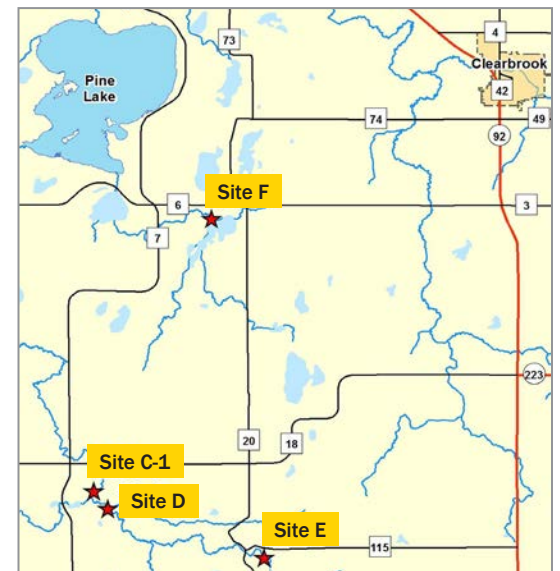
Goals for Tomorrow

- Contribute to regional goals of reducing peak flows along the Red River by 20% during flooding events.
- Construct a new outlet to improve operational flexibility and operator safety.
- Improve wildlife habitat and recreational activities.
- Construct upstream retention basins to reduce flood damages at Pine Lake and areas downstream from Pine Lake.



Project Location

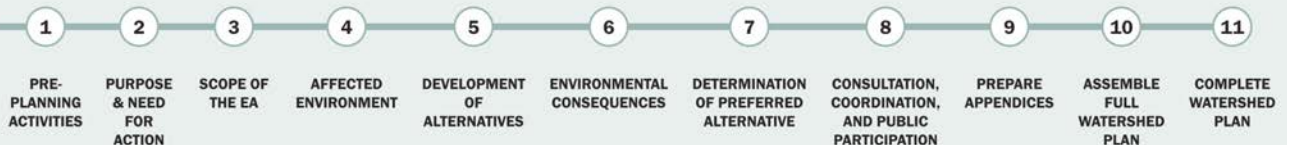
There are several alternative retention basin improvements under consideration within the watershed upstream from Pine Lake. Three locations (C-1, D, and E) are being considered for construction of a new retention basin. The operating plan of one existing retention area (Site F) is being considered for modification to increase gated storage volume.



Major Considerations in the Human & Natural Environment

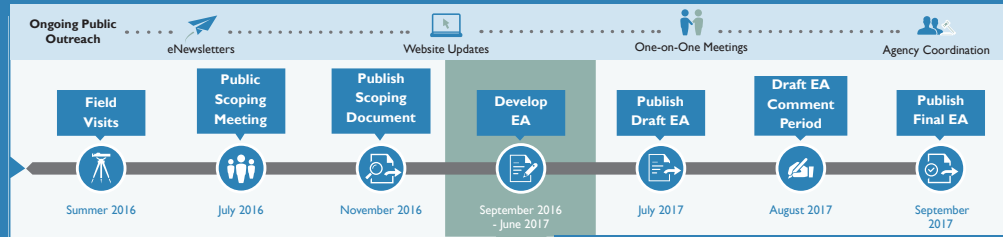
- Human health & safety
- Erosion & sedimentation
- Archeological & historical resources
- Fish & wildlife resources
- Stream lakes & wetlands
- Water quality
- Floodwater property damage
- Economic & social
- Threatened & endangered species
- Downstream peak flow rates and flow volumes
- Transportation
- Prime farmlands
- Land use & management

NRCS Planning Process

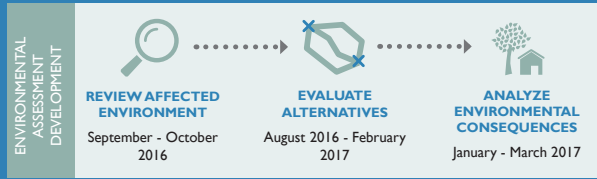




Project Schedule



**All dates are tentative and subject to change*



Lake Outlet Modifications

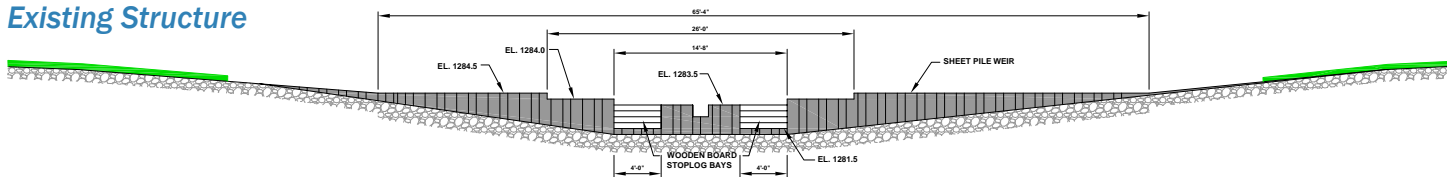
The control structure downstream from the outlet of the lake could provide the following benefits:

- A combination of stop logs and slide gate to allow for flexibility in operations.
- Stop logs could be adjusted periodically to adapt to changing seasonal or yearly conditions.
- A slide gate could allow draining of the lake to a lower level and provide supplemental outlet capacity.
- A slide gate could be operated with ease, allow draining of the lake to a lower level and provide supplemental outlet capacity.
- Additional lake level control that could help improve lake habitat.

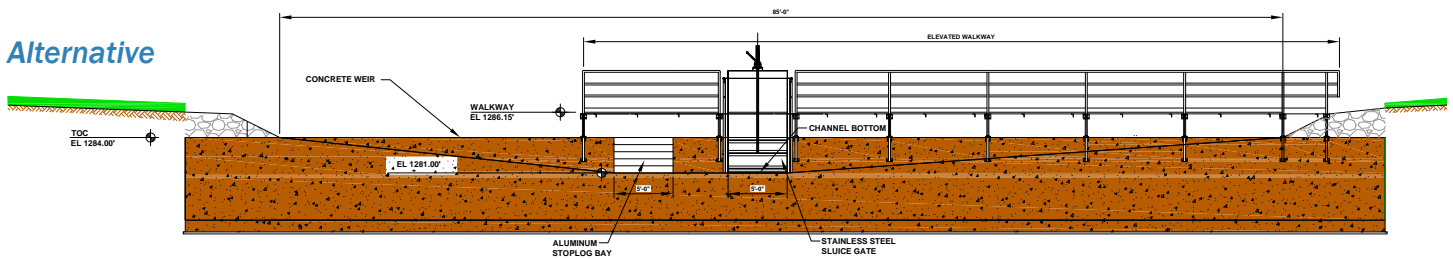
A new structure could include a walkway that would allow for:

- Access to stop logs and gate during elevated water conditions.
- Increased normal pool elevations.
- Improved safety and convenience for operators.

Existing Structure



Alternative



How to Stay Informed and Provide Input



You can stay informed about progress online by visiting the Project Page at:

<http://www.redlakewatershed.org/>



Fill out a comment form today!

Contact Myron Jesme, District Administrator for more information.



218.681.5800



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