



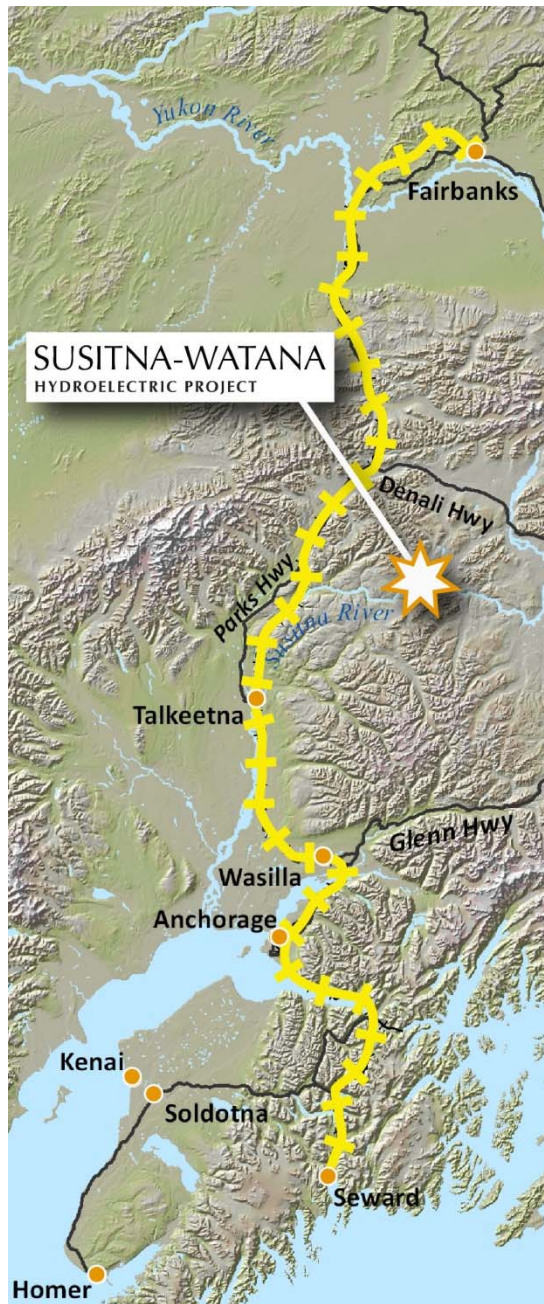
# SUSITNA-WATANA

## HYDROELECTRIC PROJECT

House Energy Committee  
Thursday, January 26, 2012

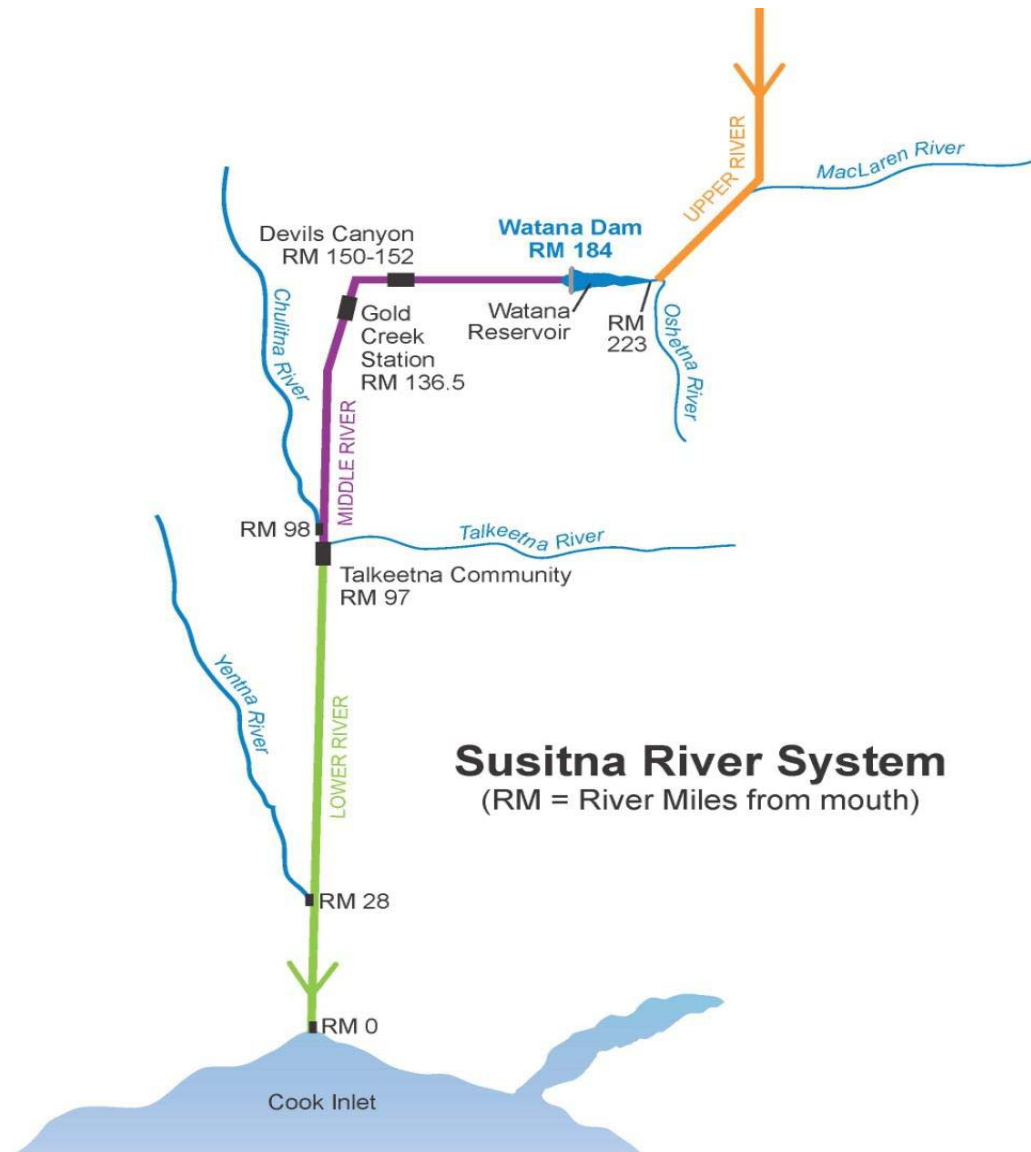


# Project Overview

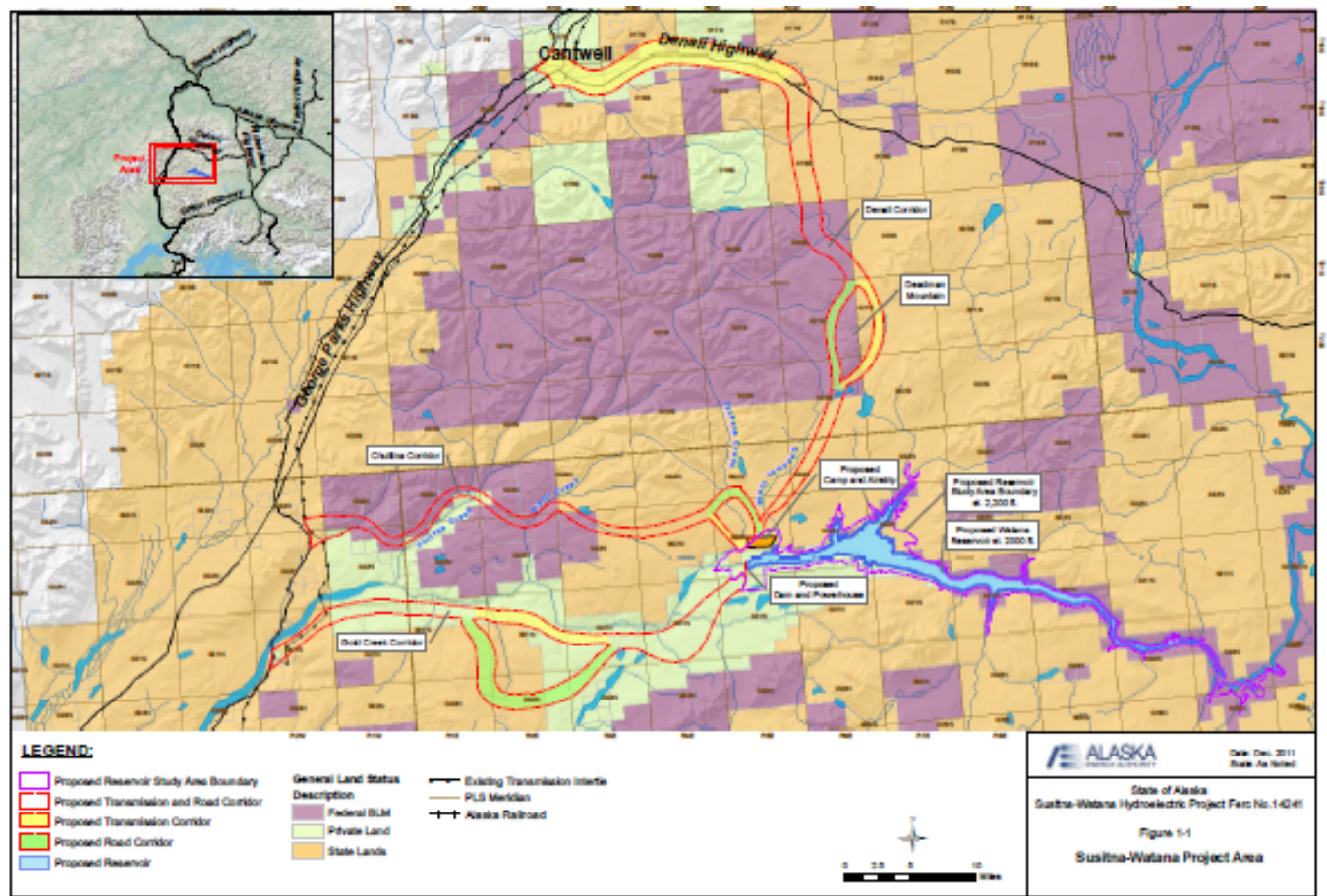


- Location: river mile 184, above Devils Canyon
- Size: ~700 foot-high dam
- Reservoir 39 miles long, 2 miles wide (at widest)
- Supply: ~50% of Railbelt electrical demand
- Capacity: 600 MW installed capacity, annual average 2,500, 000 MWh
- Project life: 100+ years, providing long-term, stable rates

# Locations and River Miles

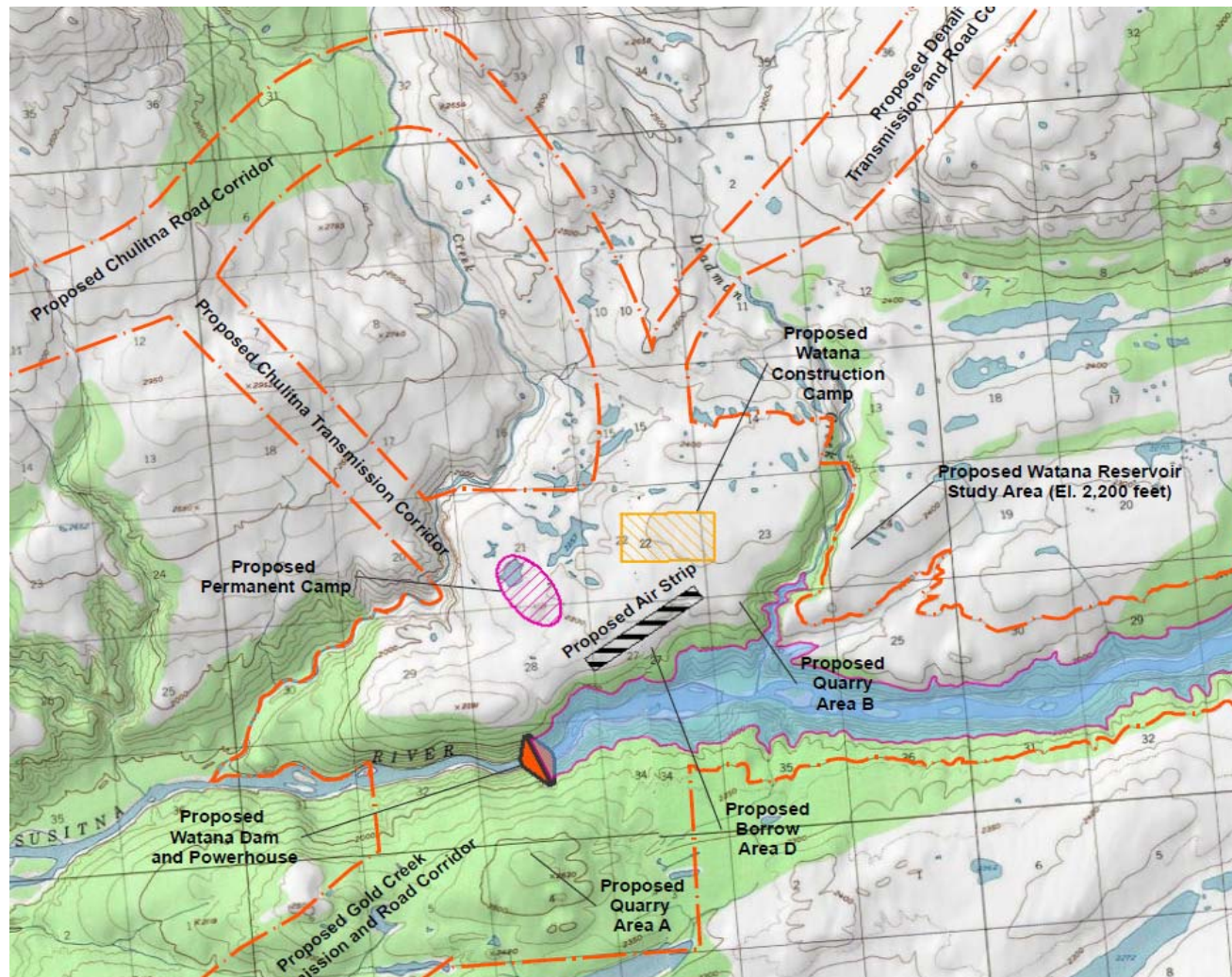


# Project Area

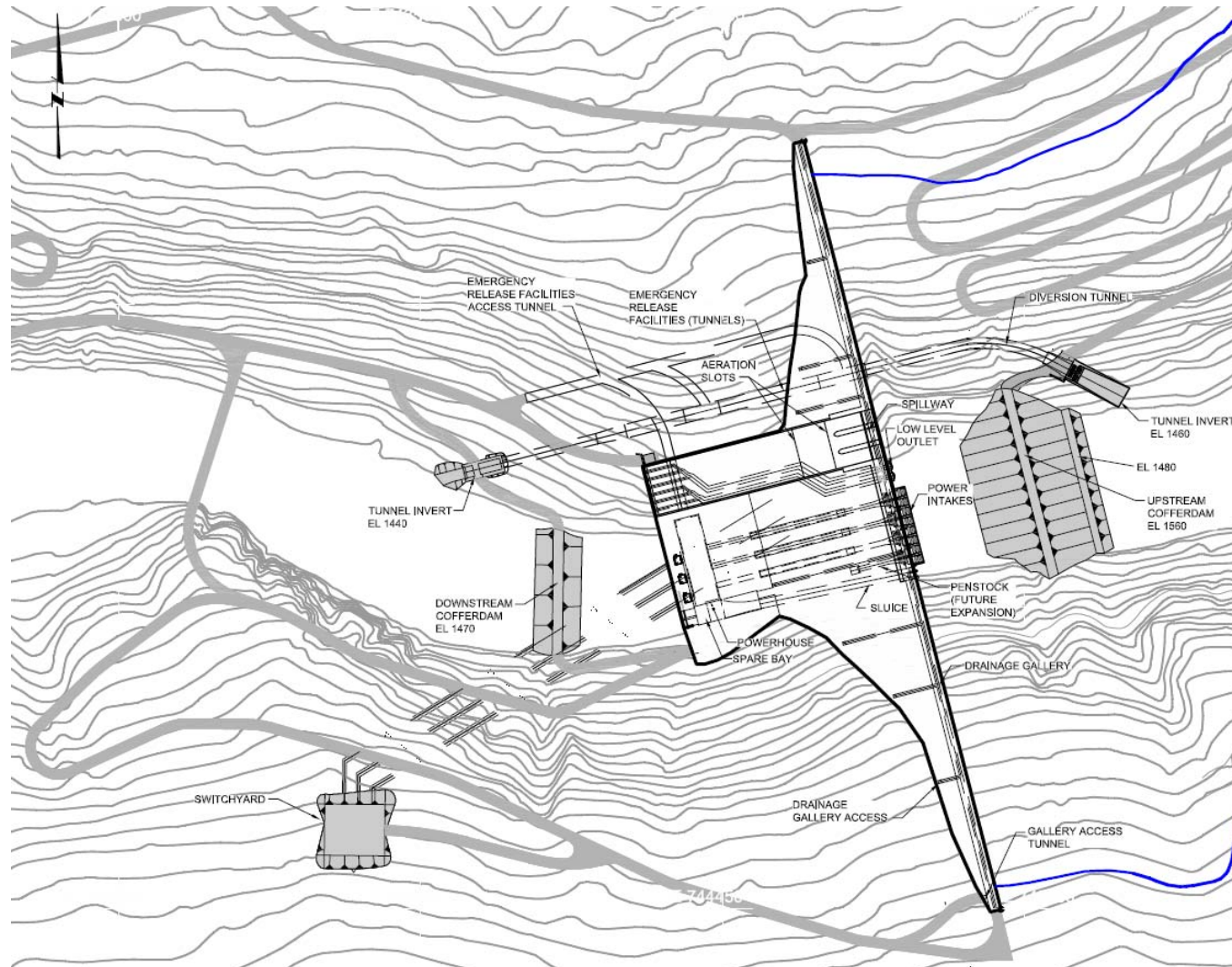




# Project Site



# Conceptual Site Plan



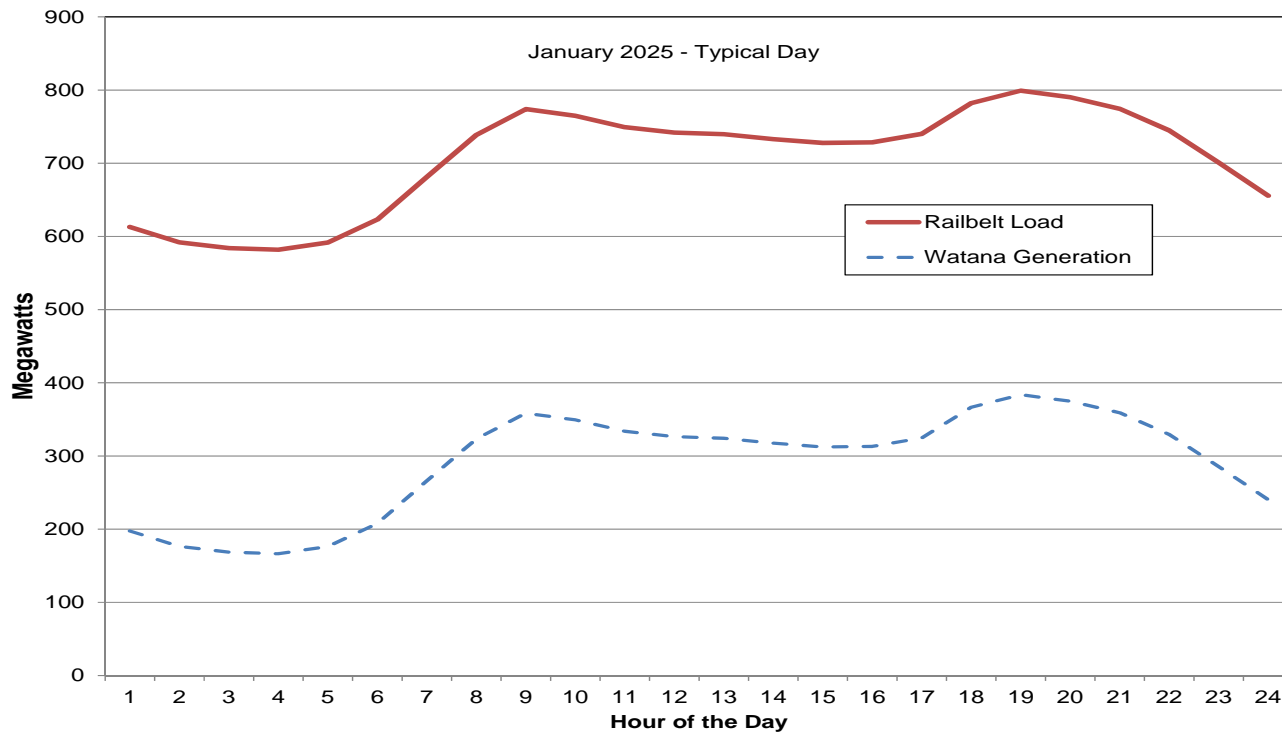
# Operating Objectives

## Primary Operating Objectives:

- Maximize firm power generation Nov.- April
- Generate power while meeting minimum flows
- Maximize power generation May-Oct.
- Generate power to meet Railbelt demand



# Project Daily Operation



- Load-following to provide system stability and responsiveness to energy demand



## 2011 Activities and Accomplishments

- Oct/Nov.: Opened project office and hired experienced staff
- Data Gap Analyses Completed
- Detailed LiDAR mapping of Susitna River drainage
- July/August: geotechnical drilling
- October 27: Filed Preliminary Permit Application with FERC
- Public Outreach: stakeholder consultation, public meetings, agency workshops, site visits, presentations
- December 29: Filed Pre-Application Document with FERC

# Licensing Status

Figure 2-1. Susitna-Watana Licensing Schedule Summary<sup>1</sup>

Licensing Activities	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2012	NOI/PAD Filed 12/29/11											
Initial Alaskan Native Consultation	■											
FERC Scoping Document 1		△										
FERC Scoping Meetings			■									
PAD Comments & Study Requests Due				△								
AEA Study Plan & Scoping Document 2 Due						△						
Initial Study Plan Meetings						■						
Study Plan Comments Due								△				
AEA Revised Study Plan Due										△		
Revised Study Plan Comments Due											△	
FERC Study Plan Determination											△	
Implement Studies												■

## Public Scoping Meetings

- March 27: Anchorage and Wasilla
- March 28: Talkeetna
- March 29: Fairbanks
- March 30: Glennallen

# 2012 Engineering Studies

- Hydrology & Power Operations
- Loads & Resources Modeling (RIRP)
- Feature Layouts & Optimization
- Transmission System Reliability & Stability Modeling
- Geotechnical Investigations
- Formation of Board of Consultants
- Update of Construction Cost Estimates
- Feasibility Report

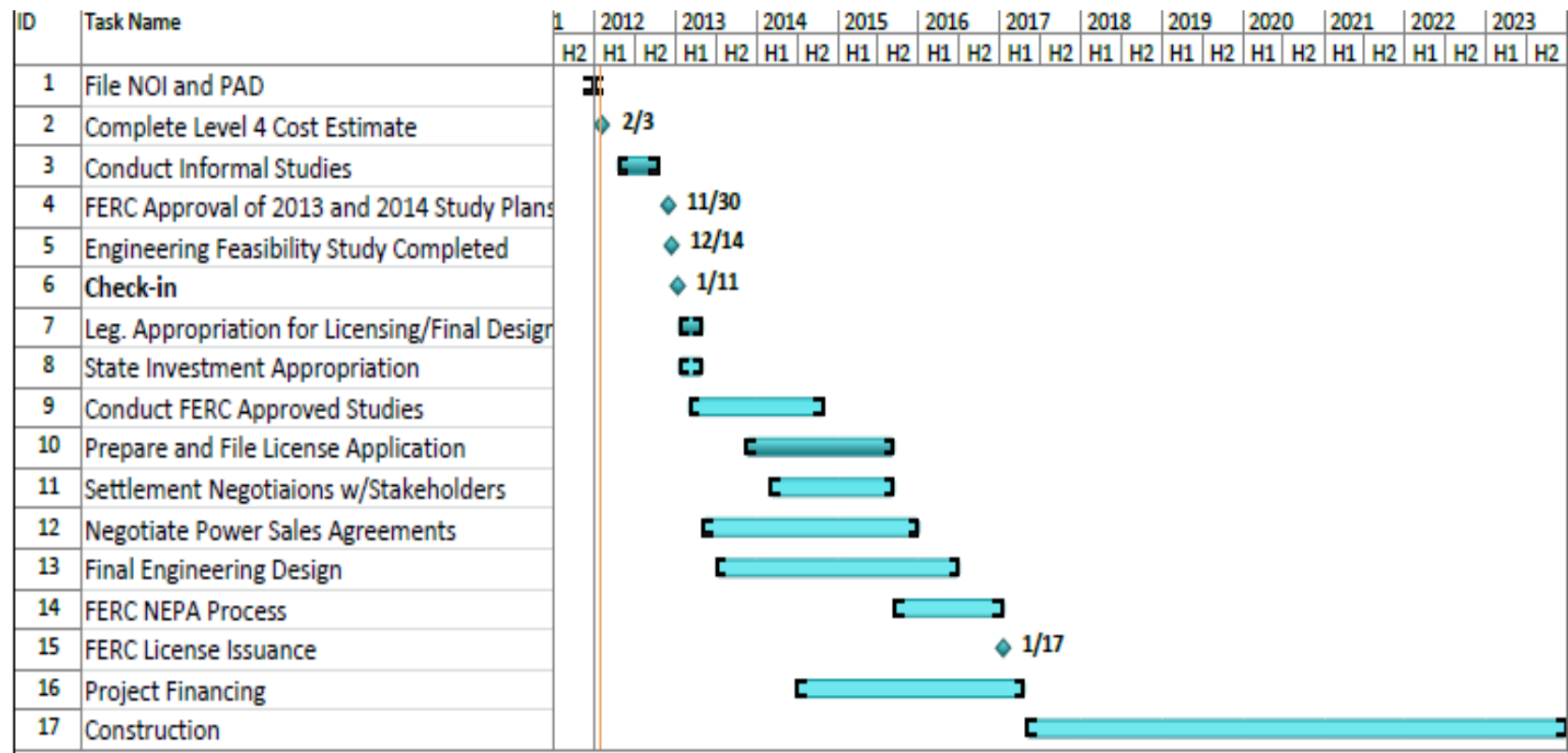


## 2012 Environmental Studies

- Geomorphology/Sediment Transport
- Ice Studies
- Project Operation Studies
- Water Quality
- Fisheries
- Wildlife
- Botanical
- Cultural Resources
- Recreation



# Susitna-Watana Schedule





# SUSITNA-WATANA

## HYDROELECTRIC PROJECT

[Susitna-watanahydro.org/](http://Susitna-watanahydro.org/)