



Tribal Council Workshop Information

Workshop Title: Kilkich Water Pressure Project Overview	Date of Workshop: 5/24/23
<input checked="" type="checkbox"/> Open Workshop <input type="checkbox"/> Continued from previous Workshop – Date: <input type="checkbox"/> Closed Executive Workshop	
Presenter's Name, Title and Department: <ul style="list-style-type: none">Fauna Hill, AED, Project Management and Planning Office	
Guest Presenter(s), Title and Agency (anyone not associated with CIT): Eric Scott, PE Anne Cook, CIHA	
Note Taker for Workshop: Emerald Brunett	
<ol style="list-style-type: none">Review and discuss Kilkich Water Pressure Project Overview including timeline, budget, etc.Review and discuss residential water pressure evaluation plan.	
Workshop Attendees Tribal Council: Staff: Others:	
Workshop Summary (provide outline of discussions that occurred):	
Reference Materials (provide for posting): <ul style="list-style-type: none">Project Overview	
Next Steps: <input type="checkbox"/> Information Only <input type="checkbox"/> Schedule second workshop <input type="checkbox"/> Prepare item for Tribal Council Motion <input type="checkbox"/> Prepare item for Tribal Council Resolution <input type="checkbox"/> Prepare item for Administrative Approval process <input type="checkbox"/> Other:	
Executive Director Comments:	
Tribal Council Secretary/Treasurer Comments:	
Executive Director Initials:	

KILKICH WATER PRESSURE PROJECT OVERVIEW

PROJECT NAME	PROJECT MANAGER	PROJECT LEADER
Kilkich Water Pressure	Lon Matheny (CIT Government) Anne Cook (Coquille Indian Housing Authority)	Fauna Hill

PROBLEM PROJECT WILL ADDRESS	<ol style="list-style-type: none"> 1. Reports on low-water pressure at residences on upper Kilkich loop. 2. Concerns about sufficient water capacity (e.g., fire flow duration, supply, pressure) for future development, particularly in the cranberry bogs and what impacts future development will have on current residential water pressure. 3. Concerns about water supply in the event of a disaster and a desire for the Tribe to be more self-sufficient in the long term as it pertains to water.
PROJECT GOALS	<ol style="list-style-type: none"> 1. Establish baseline water pressure needs and supply. 2. Determine if there is a water pressure issue for current and future development. 3. Create plans for redundancy in supply or identify alternative resources for Emergency/Natural Disasters. 4. Create better relationship with CB/NB Waterboard.
PROJECT OBJECTIVES AND SCOPE	<ol style="list-style-type: none"> 1. To understand existing water capacity, supply, and pressure at Kilkich. 2. To project needed water capacity, supply, and pressure given maximum future development in the bogs and zoned future development in Tribal zoning maps. 3. Coordination with CB/NB Waterboard throughout project so that they can plan for Kilkich water development needs. 4. Identify preferred solutions for addressing: <ol style="list-style-type: none"> a. Existing development b. Near future development (cranberry bogs) c. Long-term development (east of the plank house and North Parcel) d. Emergency/Natural Disasters

KEY
DELIVERABLES

1. Systems Review & Analysis—CIT Government Staff
 - a. Review and understand CB/NB Waterboard Master Plan and apply to Kilkich.
 - b. Review inter-governmental cooperative water sharing agreements between Coos Bay and other governmental agencies.
 - c. Review water systems redundancy and opportunity for secondary tie
2. Kilkich Pressure Analysis
 - a. Review recent hydrant flows, additional fire flow testing if needed.
—CIT Government Staff
 - i. Kilkich has a looped water system which consists of a connected pipe loop throughout the served area. In this system, there are numerous pathways that water can follow from the source to the consumer.
 - ii. Fire flow requirements (the supply needed to suppress a fire) mean that even during the highest use times there is more than sufficient water supply at Kilkich.
 - b. Evaluate residential pressures using gauges on the meter train during key high usage times (see attached residential pressure evaluation plan)
—CIHA Staff
 - i. CBNBWB describes water pressure at upper Mexeye Loop to be in the 40's psi at the meter, almost twice the regulated requirement.
 - ii. This can be confirmed with an inexpensive gauge attached at resident's hose bib.
 1. This work will be done by CIHA staff at the residences of their choosing.
 - iii. Additionally, a recorder can be used to monitor pressures over a 24 hour or longer period at the meter.
 1. This work will be done by CIHA staff at the residences of their choosing.
3. Updated CB/NB Master Plan in coordination with CIT so that Kilkich future development is accounted for in their plan. —CIT Government Staff
 - a. Currently the CBNBWB has a production capacity of 12 million gallons per day. This is almost 4 times the current average daily usage. Less than 10% of the average yearly use is used for active fire suppression so near and mid-term future development is not an issue.
4. Analysis regarding potential water challenges in the event of an earthquake or Tsunami —CIT Government Staff
 - a. There are three reservoirs that are treated by the Pony Creek Water treatment plant. Upper Pony Creek Reservoir with a 2-billion-gallon capacity. Merritt Reservoir with a 125-million-gallon capacity and Joe Ney reservoir with a 90-million-gallon capacity. Additional research is needed to crosswalk existing local and state plans against projected Tribal needs.
5. Preferred solutions documentation—CIT Government & CIHA staff
 - a. Existing development
 - b. Near future development (cranberry bogs)
 - c. Long-term development (east of the plank house and North Parcel)
 - d. Emergency/Natural Disasters

PROPOSED SCHEDULE	<ol style="list-style-type: none"> 1. Systems Review & Analysis—Q3 2023 2. Kilich Pressure Analysis—Q3 2023 3. Coordination with CB/NB Master Plan —Q3 2023 4. Earthquake/Tsunami Analysis—Q4 2023 5. Preferred solutions documentation—Q1 & Q2 2024
PROPOSED BUDGET AND COSTS	<ol style="list-style-type: none"> 1. Short term budget <\$1k for water pressure measuring system and overall analyses. 2. Long term budget TBD depending on preferred solutions. Could include: <ol style="list-style-type: none"> a. major infrastructure improvements b. water tower c. independent storage/treatment needs d. shared costs with CBNB Waterboard
POTENTIAL LIMITATIONS AND SETBACKS	<ol style="list-style-type: none"> 1. Master Plan timeline. Unsure what future developments are to measure adequate supply needs. 2. CBNB Waterboard capacity for upgrades to create redundancy and additional flow if needed.
Additional Project Team Members	<p>Emerald Brunett Matt Jensen Lyman Meade Eric Scott</p>

PROJECT OVERVIEW PREPARED BY	DATE	APPROVED BY	DATE