

CITY OF KOTZEBUE NOTICE

Regular City Council Meeting Agenda

July 01, 2024 at 5:15 PM

City Hall Chambers – 258 A Third Avenue

THE PUBLIC IS ENCOURAGED TO ATTEND.

For residents who want to participate telephonically call: **1-800-315-6338**; access code:
49401#

I. Call to Order

II. Roll Call

III. Invocation/Moment of Silence

IV. Pledge of Allegiance

V. Introduction of Guests & Staff

VI. Adoption of The Agenda

VII. Citizen Comments

VIII. New Business

a) WATER TREATMENT PLANT-Chase Nelson

1) Current Status of Water Treatment Plant Project

-Challenges and Successes

-Financial Overview

2) Short Term Action Plan

3) Long Term Action Plan

IX. Council Members Comments

Seat F: Kathy Sherman

Seat G: Johnson Greene

Seat B: Derek Haviland-lie

Seat D: Saima Chase

Seat C: Joshua Hadley

Seat E: Cory Jackson

Seat A: Ernest Norton

Youth Representative: Finnian Sweeney

X. Executive Session

1) Construction Contract Decisions

-Substantial Completion Decision

-Contracts Going Forward

2) Council Direction to Administration, DOWL and Tetra Tech

XI. Adjournment



**CITY OF KOTZEBUE
NOTICE**

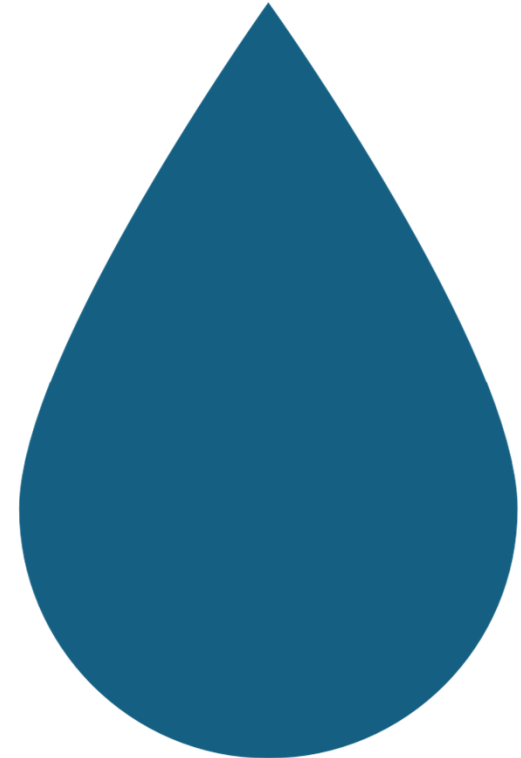
**MAYOR SAIMA CHASE HAS
RESCHEDULED THE REGULAR CITY
COUNCIL MEETING FOR
THURSDAY, JULY 4, 2024 AT 5:15
To
MONDAY, JULY 1, 2024 at 5:15pm**

***IN THE COUNCIL CHAMBERS LOCATED AT
258 A Third Avenue***

THE PUBLIC IS ENCOURAGED TO ATTEND
FOR RESIDENTS WHO WANT TO PARTICIPATE TELEPHONICALLY CALL
1-800-315-6338 ACCESS CODE 49401#

Posted: 06-24-2024
City Hall/ City FB Page
KOTZ Radio
Department Heads
P.O.
Bank
A.C

City of Kotzebue Water Treatment Plant



Successes and Challenges

- Culmination of 12 years of planning, design, and construction
- Six different grant agreements
- Construction started in March 2020, the month Covid changed the world
- Construction Change Orders have been roughly 4% of the contract.

Challenges

- Significant deterioration in Raw Water Quality Since Design
- Pre-treatment systems were removed during design because of funding restrictions
- Tetra Tech is completing considerable work at no cost to the City right now
- Difficulty keeping our construction contractor engaged, which is necessary for quickly executing whatever construction is required

Treatment Challenges

- Mn Removal and discoloration are biggest challenges
- Other challenges include
 - Plant automation and ongoing maintenance contract needs
 - Finalizing existing work in existing contracts
 - Chemical storage racks
 - Building hvac systems
 - Backwash tank

Financial Overview

- Swalling Contract- \$21,781,498/ \$22,200,161
- Tetra Tech Contract- \$2,220,000/\$2,220,000
- Anticipated Change Orders- \$152,219.24
- Grant Funding Remaining- -\$24,533.43
- Project did cover \$40K Forklift, and \$97K Highlift

Financial Challenge

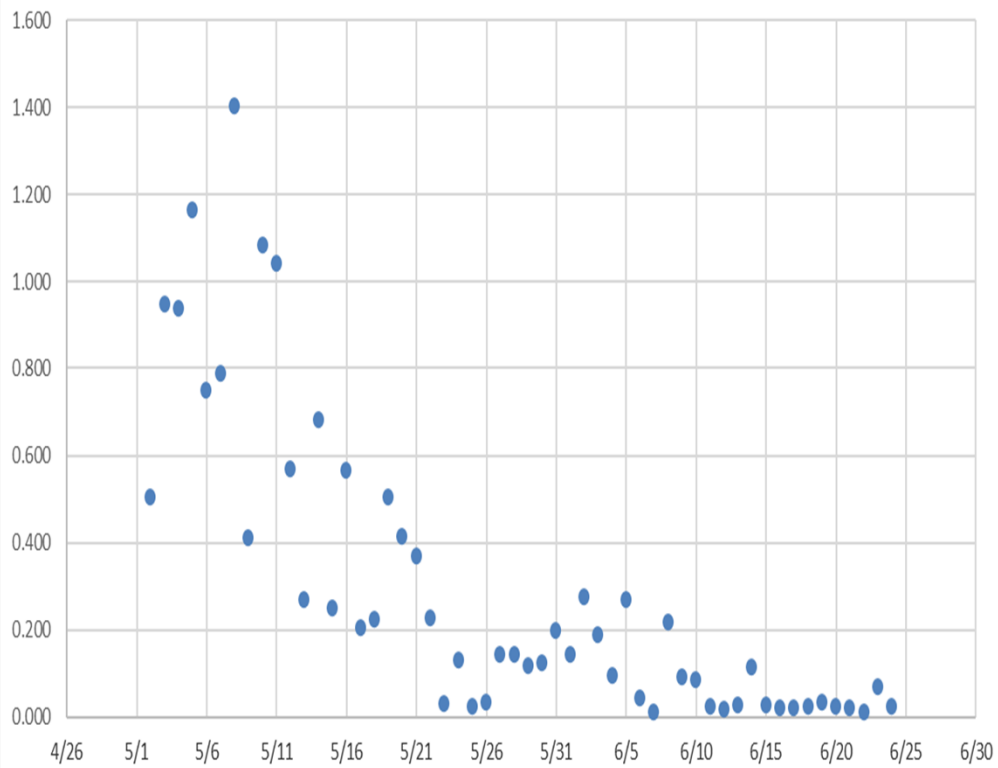
- **Project will need more money**
- ANTHC appears to not have more available funding
- USDA EGWAG is a possibility
 - Grant application submitted
- SOA ADEC SRF is a possibility
 - Grant application submitted

Short Term and Long Term Action Plans

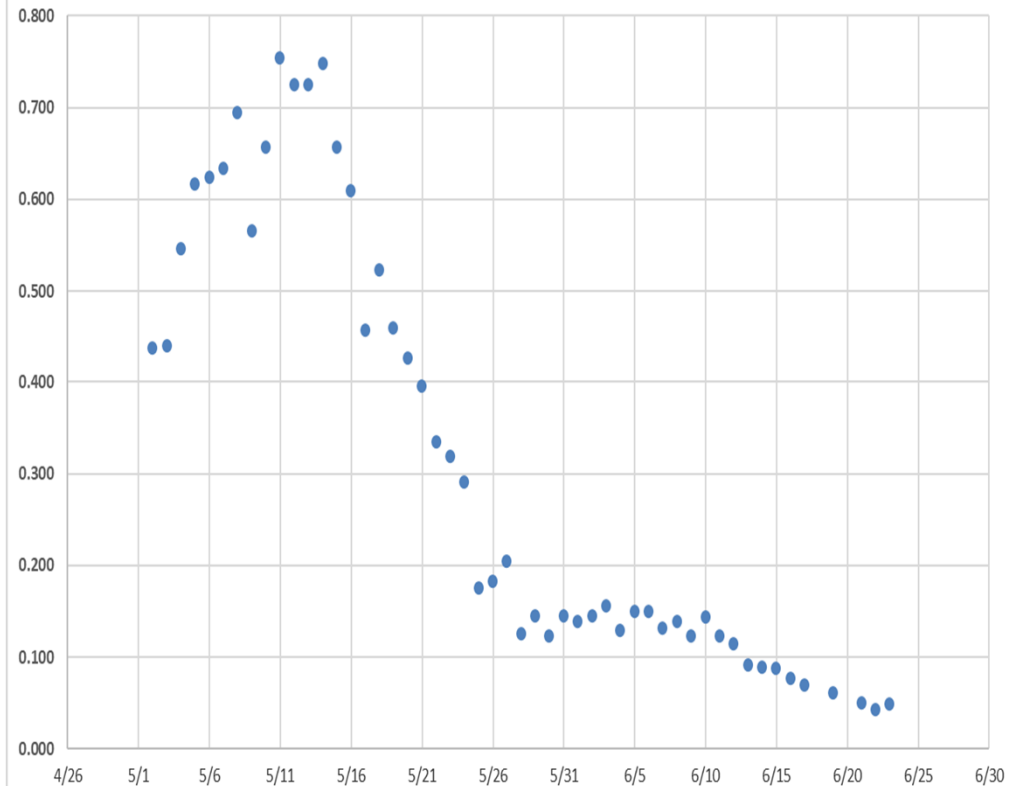
- Tetra Tech

Continued Positive Results from the Plant

Mn - NF Permeate, May 1 - June 24

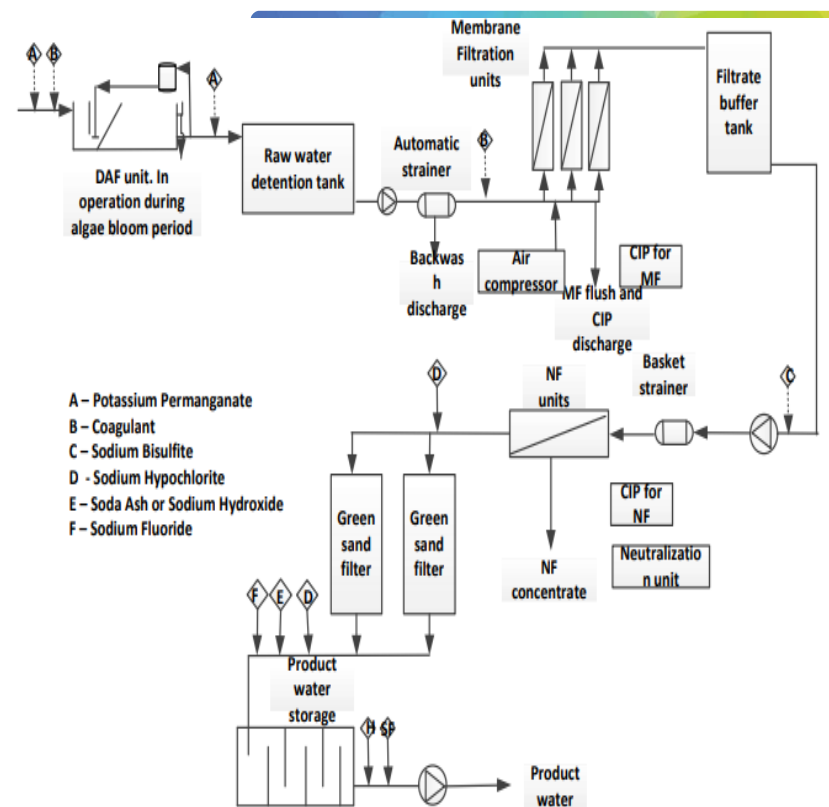


Mn - Loop Supply, May 1 - June 25



Short-Term Action Items

- Continue to maintain pH at 8.0 to 8.5 prior to the UF by:
 - Modify Sodium Hydroxide Storage & Feed systems
 - Install pH, Potassium Permanganate and TOC Analyzers
 - Revise the chemical monitoring & programming
- Optimize the UF and NF Operations by:
 - Work with contractor and the programmer to be able to maintain a constant raw water flow into the UF system
 - Work with contractor and the programmer to operate the UF system with all three trains operating during normal flows and two trains during a backwash on one train. This will help to balance the flows to the UF.
- Membrane Evaluation
 - Determine if UF & NF membranes can meet the flow requirements with Winter/Spring 2023 water quality.
 - Evaluate if additional UF membranes should be added on the three trains where there is space set aside already.
 - Evaluate if any NF membranes need to be replaced.



Long Term Action Items

- Evaluate equipment options for treating raw water quality upstream of UF Filters:
 - Greensand Filters
 - Pyrolusite Filters
 - Dissolved Air Flotation (DAF)
 - Solid Contact or High- Rate Clarifiers
 - Evaluation considers effectiveness, backwash requirements, delivery schedule and guarantee/warranty
 - Evaluation provided to City and Contractor for review
- Evaluate equipment options for adding treatment after the NF Filters:
 - Greensand Filters
 - Pyrolusite Filters
 - Evaluation considers effectiveness, backwash requirements, delivery schedule and guarantee/warranty
 - Evaluation provided to City and Contractor for review

