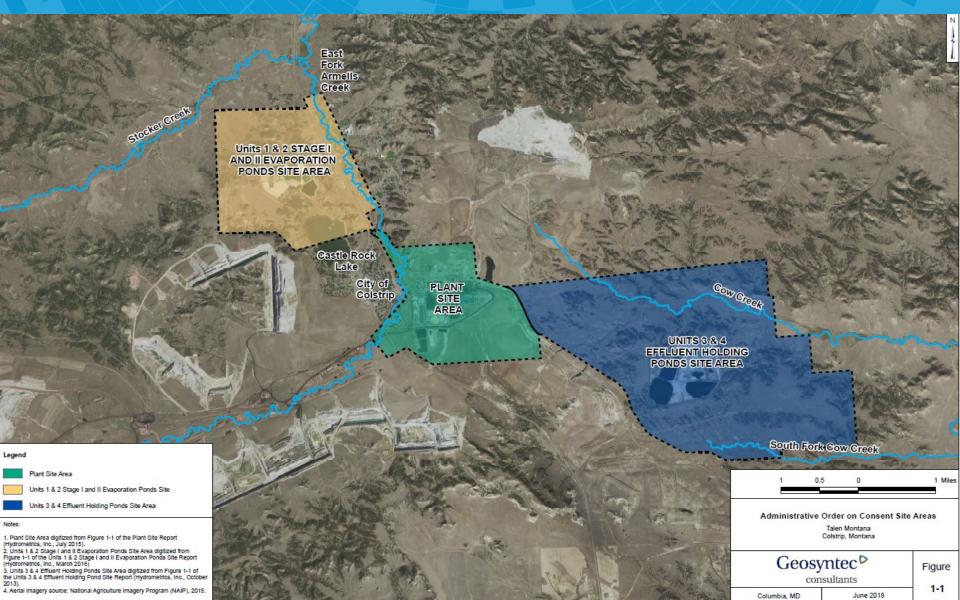


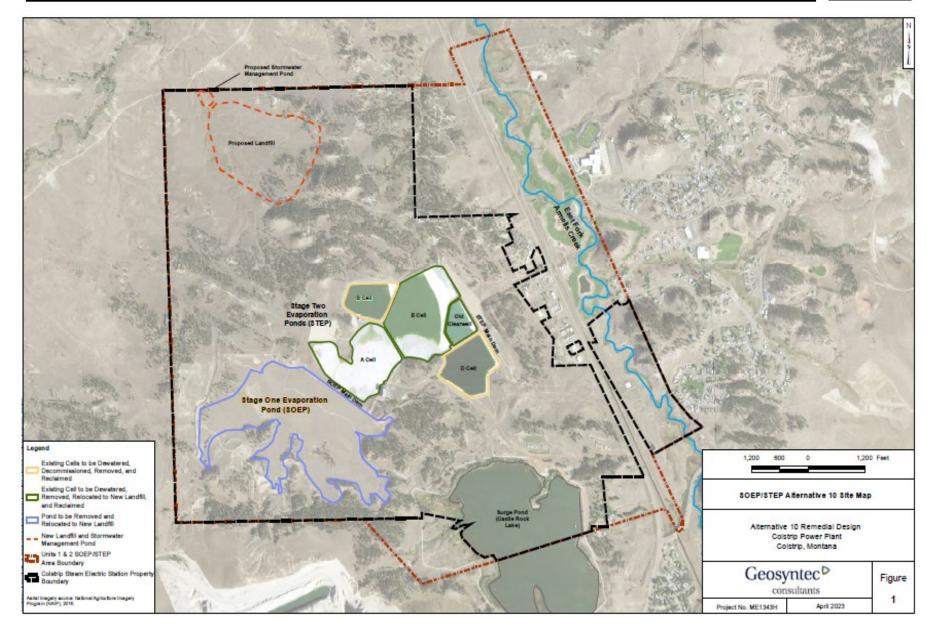
# Site Areas - Regional





# **1&2 STEP Area**





#### **Assessment of Corrective Measures – 1&2 STEP**



- Placed on Colstrip CCR Public Website in May 2019
  - https://www.talenenergy.com/ccr-colstrip/
  - Analysis of effectiveness of potential corrective measures
    - Be protective of human health & environment
    - Attain groundwater protection standards
    - Identify time required to begin and complete remedy
    - Discuss results in a public meeting
- Wastewater AOC Remedy Evaluation Report provides requirements of the CCR Rule Assessment of Corrective Measures
  - https://deq.mt.gov/cleanupandrec/Programs/colstrip
  - MDEQ reviewed and approved the 1&2 STEP Integrated Remedy Evaluation Report November 2020
  - Included public comment period and public meeting
  - Selected Alternative 10 as the remedy for the 1&2 STEP area under the Colstrip Wastewater AOC

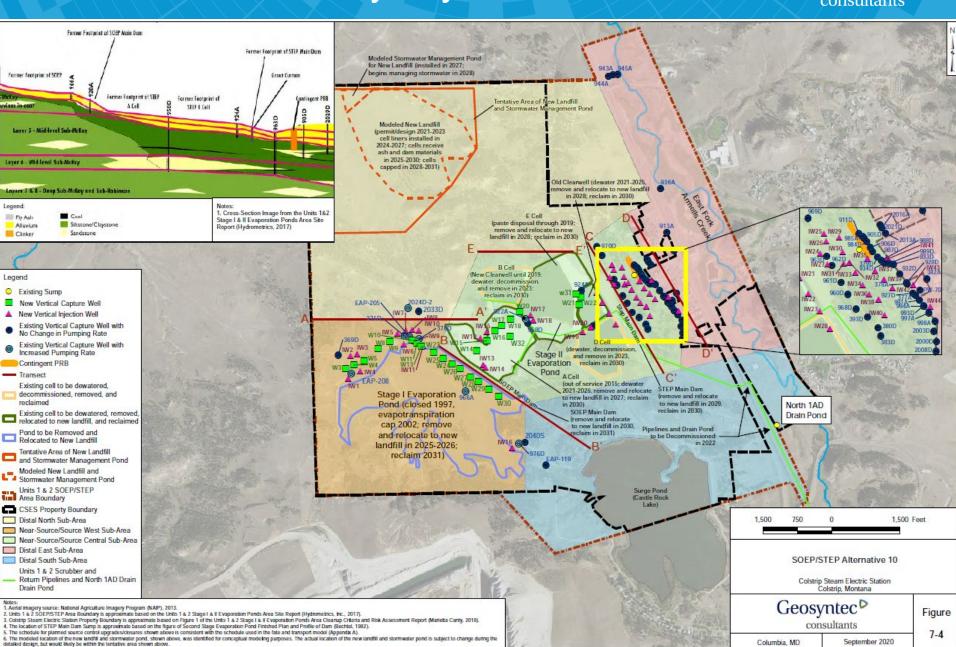
# Remedy Evaluation Report – 1&2 STEP



- Evaluated 11 Potential Corrective Measures (remedy alternatives)
  - MDEQ approved Alternative 10 for implementation
  - Included public comment period and public meeting
- Alt. 10 Source Control (Closure by Removal), Freshwater Flushing, Groundwater Capture, Permeable Reactive Barrier contingency, Monitored Natural Attenuation, Institutional Controls (if needed)
  - New CCR Rule compliant 91-acre landfill
  - 64 Freshwater Flushing wells
    - Small-scale Flushing starts in 2022 (11wells)
    - Large-scale flushing starts in 2031 after removal of ash from existing impoundments (53 wells)
  - 89 Groundwater Capture wells
  - Groundwater Capture Treatment System

# 1&2 STEP Remedy Layout





# Remedy Evaluation Report – 1&2 STEP



- Alt. 10 Source Control (closure by removal), new 91-acre CCR Rule compliant landfill, Freshwater Flushing, Groundwater Capture, Permeable Reactive Barrier contingency
  - Proposed Corrective Measures (Remedy)
  - Provides protection of human health & environment
  - Meets clean-up criteria and groundwater protection standards
  - Landfill construction scheduled to start 2025
  - CCR material relocation scheduled from 2026 2029
  - Landfill closure scheduled to be complete in 2032
  - Modeling indicates clean-up criteria met within 30 years
    - Most parameters sooner
  - Estimated cost \$212m
  - Under CCR Rule, Corrective Measures (Remedy) to be selected no sooner than 30 days after public meeting