

Erie North Water Treatment Facility Project

TOWN OF ERIE, CO

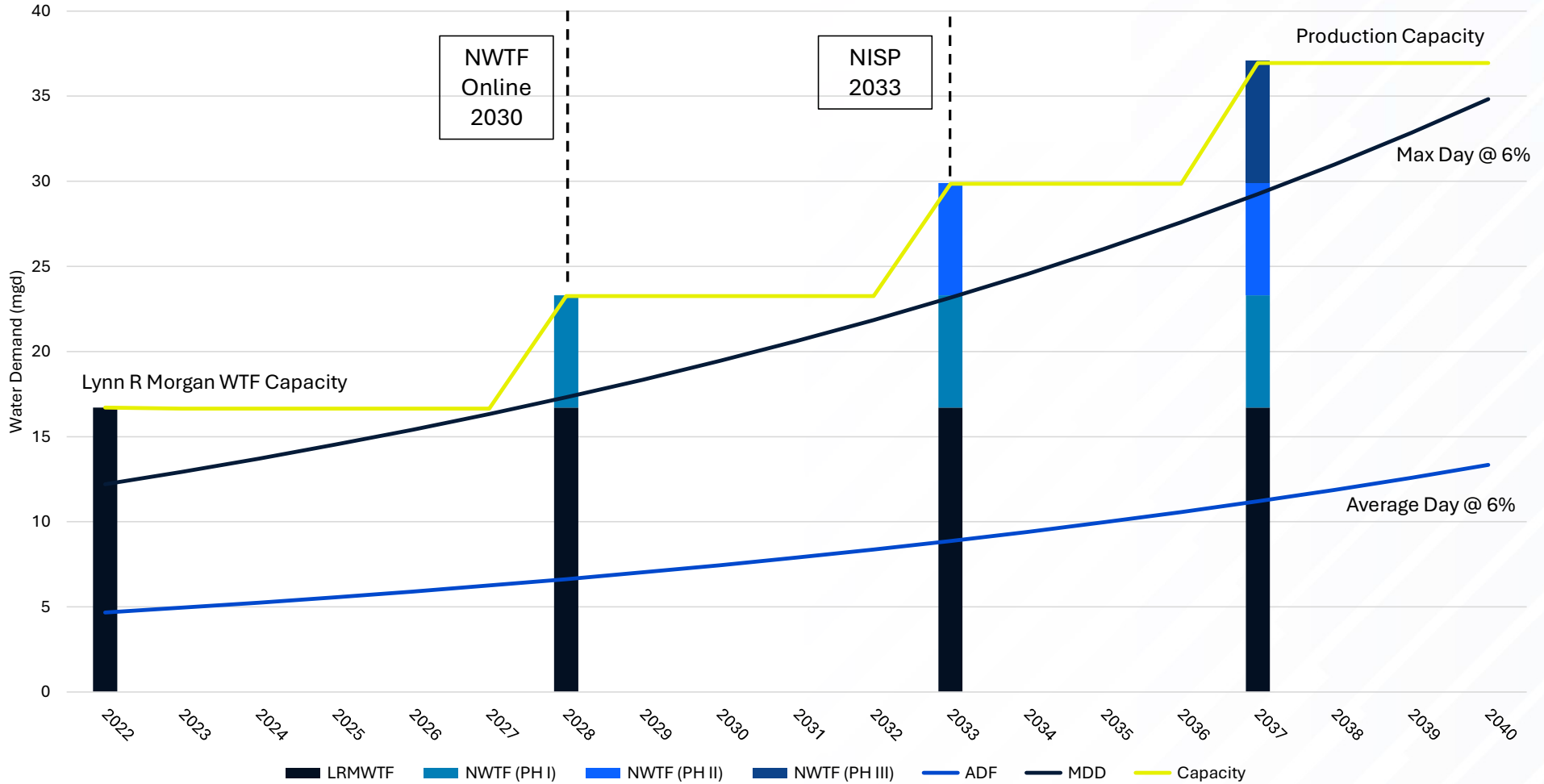
04.08.2025



- Treatment Capacity:
 - 6.6 MGD (2 more phases to 20.4+ MGD)
 - Equiv. population < 65,000 for Phase 1
 - Uses new & reusable water sources
 - Raw water storage reservoir
 - Deep well injection
- Objectives:
 - Meet planned water demand
 - Redundant WTF
 - Resiliency for drought, wildfire, summer irrigation, water quality
 - Diversified water supplies
- Zone 2 Tank and Pump Station
 - Increased storage capacity (high demand, firefighting)
 - Distribution hub from the NWTF
 - Reduce peak hour pumping



EXPANSION & PHASING



- Town's Goals

- Customer satisfaction
- Match existing finished water
- TDS reduction
- Corrosion control (pH and alkalinity)
- Iron & manganese reduction
- Taste & odor management

- State/Federal Regulations

- Turbidity
- Total Organic Carbon (TOC) removal
- *Cryptosporidium*, *Giardia*, and Virus inactivation
- PFAS removal



- 700-AF Raw Water Reservoir
 - Drought resiliency for 30 days of low flows
 - Water quality buffer
 - Blending of sources
 - Pre-sedimentation
 - Operational flexibility
- 30% Design Only
 - On-going negotiations with partners upstream in Boulder Creek
 - Land not owned by Town
 - Subsurface investigation



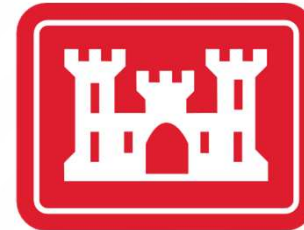
- GAC Adsorption Vessels
 - RO bypass treated by GAC
 - Re-activated or virgin coal
 - Sized for contact time
- Target Compounds
 - Taste & odor
 - PFAS
 - Organic carbons
 - Disinfection by-products



Why CMAR?

- Schedule compression
- Cost certainty
- Refocus internal resources/less oversight required
- All downstream subcontracts competitively bid
- Owner chooses level of involvement
- One project contact/one contract
- Ability to introduce new vendors/subcontracts
- Ability to introduce new best practices





Item		Class V OPC
Land Acquisition		N/A
Boulder Creek Diversion		N/A
Horizontal Wells		N/A
Filly Lake Pump Station		N/A
Zone 2 Transmission Main		N/A
Zone 2 Tank and Pump Station		N/A
Raw Water Reservoir		\$ 21,000,000
Raw Water Pump Station		\$ 5,600,000
Treatment Building		\$ 60,300,000
Disinfection Contact Basin		\$ 6,900,000
Residuals Handling Facility		\$ 8,800,000
Deep Well Injection (2 Wells)		\$ 14,400,000
Yard Piping		\$ 5,500,000
Site Finishes		\$ 2,800,000
Direct Costs		\$ 125,300,000
General Conditions, Bonds & Insurance	14%	\$ 17,000,000
Sub Total		\$ 142,300,000
Contingencies	25%	\$ 35,600,000
Total Construction Cost		\$ 177,900,000
Contractor Overhead and Profit	10%	\$ 17,790,000
Total Cost		\$ 195,700,000
Conceptual Design	0.3%	\$ 659,050
Engineering, Pilot Planning, Permit Assist	3.6%	\$ 6,996,128
Total Project Cost		\$ 203,400,000



Thank You