

Appendix K

BACKUP UV REPLACEMENT AND DEWATERING  
EQUIPMENT REPLACEMENT COST ESTIMATES



## Appendix K

## BACKUP UV REPLACEMENT AND DEWATERING EQUIPMENT REPLACEMENT COST ESTIMATES

Table K-1 Trojan 4000 UV System Improvement Opinion of Probable Cost

Description	Class 5 Cost Estimate (2023) Accuracy Range: -50% to + 100%
Demolition	\$64,000
Low Pressure, High Output UV System	\$665,000
Discharge Channel Improvements	\$100,000
Total Direct Cost	\$829,000
Total Estimated Construction Cost <sup>(1)</sup>	\$1,364,000
<b>Total Estimated Project Cost<sup>(2)</sup></b>	<b>\$1,705,000</b>

Notes:

(1) Assumes 30% Estimator's Contingency, 10% General Conditions, and 15% Contractor Overhead and Profit.

(2) Assumes 25% Engineering, Legal, and Administrative Fees and ENR Construction Cost Index = 13473 (August 2023).

An opinion of probable cost is presented in Table K-2. Two cost estimates were completed for the centrifuges based on two different capacities. Option A assumes two new centrifuges with rated capacities of at least 42 gallons per minute (gpm) and 830 pounds of total solids per hour (lb TS/hr) each, and Option B assumes two new centrifuges with rated capacities of at least 105 gpm and 2,100 lb TS/hr each.

Table K-2 Centrifuge Cost Details Opinion of Probable Cost

Description	Option A Cost GEA CF Series 4000	Option B Cost GEA CF Series 6000
Total Direct Cost	\$765,000	\$1,137,000
Total Estimated Construction Cost <sup>(1)</sup>	\$1,258,000	\$1,870,000
<b>Total Estimated Project Cost<sup>(2)</sup></b>	<b>\$1,573,000</b>	<b>\$2,338,000</b>

Notes:

(1) Assumes 30% Design Contingency, 10% General Conditions, and 15% Contractor Overhead and Profit.

(2) Assumes 25% Engineering, Legal, and Administrative Fees and ENR Construction Cost Index = 13473 (August 2023).

