

Wichita BNR Conceptual Design Cost Estimate Summary

ITEM DESCRIPTION	FINAL EXTENDED PRICE
Plant 1 Improvements	
General Site Improvements	\$ 5,460,000
Wet Weather Holding	\$ 2,960,000
Yard Piping	\$ 730,000
Influent Pumps	\$ 3,950,000
Grit Removal	\$ 5,250,000
Odor Control	\$ 3,720,000
Subtotal	\$ 22,070,000
Overhead, Labor, Contingency, etc.	\$ 28,380,000
Plant 1 Improvements Total	\$ 50,450,000
Plant 2 Balance of Plant Improvements	
General Site Improvements	\$ 5,950,000
Screening Building	\$ 2,330,000
Yard Piping	\$ 1,240,000
Influent Pumping	\$ 2,890,000
Grit Removal	\$ 680,000
Intermediate Pumping	\$ 970,000
UV System Modifications	\$ 2,790,000
Primary/Intermediate Clarifiers	\$ 2,110,000
Odor Control	\$ 1,420,000
Subtotal	\$ 20,370,000
Overhead, Labor, Contingency, etc.	\$ 27,070,000
Plant 2 Balance Improvements Total	\$ 47,440,000
Plant 2 Sidestream Improvements	
General Site Improvements	\$ 120,000
Sidestream Treatment (Struvite Recovery)	\$ 2,130,000
Process Piping	\$ 110,000
CO2 Release Building	\$ 80,000
Sidestream Treatment Building	\$ 3,110,000
Yard Pipe	\$ 280,000
Electrical and I&C	\$ 1,320,000
Subtotal	\$ 7,350,000
Overhead, Labor, Contingency, etc.	\$ 9,390,000
Plant 2 Sidestream Improvements Total	\$ 16,740,000

ITEM DESCRIPTION	FINAL EXTENDED PRICE
Plant 2 Liquid (A2O) Process Improvements	
General Site Improvements	\$ 75,000
A2O Treatment System	\$ 34,175,000
Return Activated Sludge	\$ 1,400,000
Primary Alum Chem Feed	\$ 985,000
Secondary Alum Chem Feed	\$ 1,050,000
Blower Building	\$ 8,500,000
Splitter Structures	\$ 140,000
Process Piping	\$ 17,595,000
Electrical and I&C	\$ 4,900,000
Subtotal	\$ 68,820,000
Overhead, Labor, Contingency, etc.	\$ 87,620,000
Plant 2 Liquid Improvements Total	\$ 156,440,000
Plant 2 Solids Improvements	
General Site Improvements	\$ 3,910,000
Existing Primary Sludge Pump Station	\$ 230,000
Existing Digester Rehab	\$ 5,670,000
Existing WAS/Scum Stations	\$ 870,000
New Solids Thickening Building	\$ 3,880,000
New Solids Dewatering Building	\$ 5,900,000
New Digested Sludge Pumps	\$ 500,000
Process Piping	\$ 4,400,000
Subtotal	\$ 25,360,000
Overhead, Labor, Contingency, etc.	\$ 32,010,000
Plant 2 Solids Improvements Total	\$ 57,370,000
Collection System (Cowskin Force Main) Improvements	
Force Main	\$ 10,900,000
Subtotal	\$ 10,900,000
Overhead, Labor, Contingency, etc.	\$ 14,200,000
Collection System Improvements Total	\$ 25,100,000
TOTAL IMPROVEMENTS COST	
Planning (Concept Phase)	\$ 1,150,000
Total Improvements Cost	\$ 354,690,000