

**Round Mountain Water & Sewer District
Pilot Project (Phase One)
Preliminary Construction Cost Estimate**

Item No.	Description of Item	Unit	Quantity	Unit Price	Amount
A.	SITE WORK				
1.	Reshape Existing Graded Lagoons	L.S.		\$ 40,000.00	\$ 40,000.00
2.	Extend Force Main and Install Pond Inlet	L.S.		\$ 6,000.00	\$ 6,000.00
3.	Install Pipe Connections Between Ponds	L.F.	800	\$ 25.00	\$ 20,000.00
4.	Trenching for Anchoring Liner	L.F.	2,000	\$ 4.00	\$ 8,000.00
5.	Potable Water Service (4 gpm)	L.S.		\$ 5,000.00	\$ 5,000.00
B.	POND UPGRADES				
1.	Line Ponds with HDPE Liner (45 mil)	Sq. Ft.	120,000	\$ 2.00	\$ 240,000.00
2.	Diversion Curtains	L.F.	350	\$ 40.00	\$ 14,000.00
3.	Shore Anchors	Ea.	12	\$ 500.00	\$ 6,000.00
C.	ALGAE INCUBATION				
1.	Greenhouse with Concrete Floor (16' X 120')	L.S.		\$ 80,000.00	\$ 80,000.00
2.	Algae Incubation Tanks with Connections	Ea.	10	\$ 1,500.00	\$ 15,000.00
3.	Algae Distribution Lines and Manifold	L.S.		\$ 10,000.00	\$ 10,000.00
4.	Algae Tanks – Water and Nutrient Feeds	L.S.		\$ 6,000.00	\$ 6,000.00
5.	Incubation Tank LEDs	L.F.	100	\$ 100.00	\$ 10,000.00
6.	Immersion Heaters	Ea.	10	\$ 500.00	\$ 5,000.00
7.	Electrical Service	L.S.		\$ 3,000.00	\$ 3,000.00
D.	AIR DISTRIBUTION				
1.	Compressor Bldg. with Concrete Floor (15' X 15')	L.S.		\$ 30,000.00	\$ 30,000.00
2.	Air Compressor with Air Tanks	Ea.	2	\$ 5,000.00	\$ 10,000.00
3.	Air Distribution Lines with Control Boxes	L.F.	500	\$ 15.00	\$ 7,500.00
4.	Fine Bubble Diffusers	Ea.	30	\$ 300.00	\$ 9,000.00
5.	Air Plenum	L.S.		\$ 3,000.00	\$ 3,000.00
6.	Electrical Service	L.S.		\$ 3,000.00	\$ 3,000.00
E.	ELECTROCOAGULATION (EC)				
1.	EC Building with Concrete Floor (40' X 40')	L.S.		\$ 80,000.00	\$ 80,000.00
2.	EC Chamber (50 gpm)	Ea.	1	\$ 288,000.00	\$ 288,000.00
3.	Slanted Plate Clarifier (50 gpm) Sludge Handling	Ea.	1	\$ 80,000.00	\$ 80,000.00
4.	Electric Service	L.S.		\$ 6,000.00	\$ 6,000.00
5.	EC Lift Station	L.S.		\$ 15,000.00	\$ 15,000.00
6.	Interior Plumbing	L.S.		\$ 10,000.00	\$ 10,000.00
F.	ENGINEERING/INSPECTION				
	Engineering and Construction Inspection (8%)	L.S.		\$ 80,000.00	\$ 80,000.00
G.	Contingency				
	Contingency (10%)	L.S.		\$ 100,000.00	\$ 100,000.00
	Total Preliminary Construction Cost Estimate				\$ 1,257,000