# Appendix I Annual Operating Cost Estimate

### BOW LAKE TRANSFER/RECYCLING STATION FULL OPERATIONS BEGINNING 2010 OPERATION AND MAINTENANCE ESTIMATE SUMMARY

I.	LABOR	\$	1,371,000		
II.	BUILDING AND SITE MAINTENANCE	\$	221,000		
III.	EQUIPMENT OPERATING AND MAINTENANCE COSTS	\$	204,000		
IV.	UTILITIES - BUILDING AND SITE	\$	40,000		
٧.	ROLLING STOCK FUEL COSTS	\$	281,000		
VI.	INSURANCE	\$	164,000		
SUI	BTOTAL OPERATION & MAINTENANCE	\$	2,281,000		
СО	NTINGENCY (15%)	\$	342,000		
TO	TAL ANNUAL OPERATION & MAINTENANCE COST	\$	2,623,000		
AN	ANNUAL UNIT COST FOR 500,000 TONS				

NOTE: All costs except unit cost rounded to nearest thousand dollars

## BOW LAKE TRANSFER/RECYCLING STATION, FULL OPERATIONS TRANSFER STATION OPERATIONS AND MAINTENANCE ESTIMATE

#### I. LABOR

Job Classification	Personnel (1) \$/h	hrs/year Annual Cost			Total	
Transfer Station Operators 7/10	8	40.29	1827	\$	588,879	
Transfer Station Operators 1st Shift 5/8	2	35.25	2088	\$	147,204	
Transfer Station Operators 2nd Shift 5/8	2	38.78	2088	\$	161,945	
Transfer Station Operators 3rd Shift 5/8	2	40.54	2088	\$	169,295	
Scale Operators 1st Shift 7/10	3.5	27.36	1827	\$	174,954	
Scale Operators 2nd Shift 5/8	1	30.09	2088	\$	62,828	
Scale Operators 3rd Shift 5/8	1	31.46	2088	\$	65,688	
Subtotal I					\$ 1,370,793	

#### Notes:

- (1) Full time equivalent staffing.
- (2) Includes 40% fringe benefits and shift premiums.

#### II. BUILDING AND SITE MAINENANCE (0.5% of Capital excluding Mobile Equipment) \$ 200,000 **Subtotal II** \$ 221,000

#### III. EQUIPMENT OPERATING AND MAINTENANCE COSTS

No.

Item	Veh.	Quantity (5)	Units	Unit Price	Anr	nual Cost	Total
Front End Loader (1)	2	13000 h	ırs	\$6.00	) \$	78,000	
Yard Waste Compaction Crane (2)	2	4300 h	nrs	\$4.00	\$	17,200	
Yard Tractor (3)	2	8700 h	nrs	\$5.00	\$	43,500	
Compactor (4)	2	13000 h	nrs	\$5.00	\$	65,000	
Subtotal III							\$ 203,700

#### Notes:

- (1) Assume one loader operates continuously during station operating hours and second loader operates half time
- (2) Assume cranes are operated 25% of station operating hours
- (3) Assume tractors are operated 50% of station operating hours
- (4) Assume one compactor operates continuously during station operating hours and second compactor operates half time
- (5) Total station operating hours per year are 8712 hours (363 days x 24 hours)

#### IV. UTILITIES - BUILDING AND SITE

Item	Quantity	Units	Unit Price	Ann	ual Cost	Total
Electricity						_
Customer Charge	12	Months	\$25.00	\$	300	
Delivery Demand Charge	2000	kW-Mo	\$6.00	\$	12,000	
Energy Charge	90000	kWh	\$0.07500	\$	6,750	
Phones (Mobile and Fixes)	12	Months	\$100.00	\$	1,200	
Surface Water Fee	12	Months	\$400.00	\$	4,800	

	Sewer Water Base Meter Charge, 3" meter Commodity Charge		360	Months  Day  Cubic Foot	\$500.00 \$5.00 \$0.04	\$ \$	6,000 - 1,800 7,000	
	Subtotal IV							\$ 39,850
V.	ROLLING STOCK FUEL COSTS	No.						
	Item	Units	Quantity	Unit	Unit Price	Ann	nual Cost	Total
	Front End - Loader Yard Tractor	13000 8700		gal/hour gal/hour	\$3.50 \$3.50		204,750 76,125	
	Subtotal V							\$ 280,875
VI.	INSURANCE	No.						
	Item	Units	Quantity	Unit	Unit Price	Ann	nual Cost	Total
	Workers Compensation (1)		13,708	\$100 payroll	\$12		\$164,495	
	Subtotal VI							\$ 164,495
	Notes: (1) abd Services estimate w/ no dec	ductible						
	Subtotal I through VI							\$ 2,280,713