

COST ESTIMATION WORK SHEET - COST OPTION 0 (No Change)
SOLID WASTE MANAGEMENT ALTERNATIVE:

Town of Canterbury
Aries Project # 2025-013

Current Operations

TASK	Units	Type	Rate	Cost	SUBTOTAL	30% Contingency	ESTIMATED TASK TOTAL	Source
1st YEAR CAPITAL COSTS								
Purchase								
Self-contained trailer for employee office with bathroom	1	LS	\$57,770	\$57,770.00				
Installation - concrete pad	256	SF	\$10	\$2,560.00				
On-site septic and well	1	LS	\$30,000	\$30,000.00				
Subtotal					\$90,330.00	\$27,099.00	\$117,429.00	
TOTAL 1st YEAR COST ESTIMATE					\$90,330.00			
CONTINGENCY						\$27,099.00		
TOTAL 1st YEAR COST ESTIMATE AND CONTINGENCY							\$117,000	
SYSTEM ANNUAL COSTS								
Pick-Up and Transportation Cost								
Subcontractor	0 Tons		\$196.67	\$0.00				
(1 ton / household / year) based on Casella Statistics								
Subtotal					\$0.00	\$0.00	\$0.00	
Engineering Costs								
	month			\$0.00				
	at			\$0.00				
Subtotal					\$0.00	\$0.00	\$0.00	
Disposal								
Win-Waste	880 Tons		\$95.00	\$83,620.19				
Subtotal					\$83,620.19	\$25,086.06	\$108,706.24	
Recycling Center Operations								
Labor - Part-Time	2 year		\$21,000.00	\$42,000.00				
Manager	1 year		\$30,000.00	\$30,000.00				
Labor - Operator with CLD	1 year		\$10,000.00	\$10,000.00				
Operator training/permitting/fees	1 year		\$1,000.00	\$1,000.00				
Electric	12 month		\$250.00	\$3,000.00				
Overhead-Building Maintenance	12 month		\$200.00	\$2,400.00				
Truck O&M	1 year		\$4,000.00	\$4,000.00				
Truck Fuel	1040 gal		\$3.85	\$4,004.00				
Subtotal					\$96,404.00	\$28,921.20	\$125,325.20	
TOTAL ANNUAL COST ESTIMATE					\$180,024.19			
CONTINGENCY						\$54,007.26		
TOTAL ANNUAL COST ESTIMATE AND CONTINGENCY							\$234,000	

COST ESTIMATION WORK SHEET - COST OPTION 1
SOLID WASTE MANAGEMENT ALTERNATIVE:

Town of Canterbury
Aries Project # 2025-013
TASK

Replace Compactor Truck

	Units	Type	Rate	Cost	SUBTOTAL	30% Contingency	ESTIMATED TASK TOTAL	Source
1st YEAR CAPITAL COSTS								
Purchase Compactor Truck								
2024 KENWORTH T380	1	at	\$194,900	\$194,900.00				
Self-contained trailer for employee office with bathroom	1	LS	\$57,770	\$57,770.00				
Installation - concrete pad	256	SF	\$10	\$2,560.00				
On-site septic and well	1	LS	\$30,000	\$30,000.00				
Subtotal					\$285,230.00	\$85,569.00	\$370,799.00	
TOTAL 1st YEAR COST ESTIMATE					\$285,230.00			
CONTINGENCY						\$85,569.00		
TOTAL 1st YEAR COST ESTIMATE AND CONTINGENCY							\$371,000	

SYSTEM ANNUAL COSTS

Pick-Up and Transportation Cost

Subcontractor (1 ton / household / year) based on Casella Statistics	0 Tons		\$196.67	\$0.00				
Subtotal					\$0.00	\$0.00	\$0.00	

Engineering Costs

	month			\$0.00				
	at			\$0.00				
Subtotal					\$0.00	\$0.00	\$0.00	

Disposal

Win-Waste	880 Tons		\$95.00	\$83,620.19				
Subtotal					\$83,620.19	\$25,086.06	\$108,706.24	

Recycling Center Operations

Labor - Part-Time	2 year		\$21,000.00	\$42,000.00				
Manager	1 year		\$30,000.00	\$30,000.00				
Labor - Operator with CLD	1 year		\$10,000.00	\$10,000.00				
Operator training/permitting/fees	1 year		\$1,000.00	\$1,000.00				
Electric	12 month		\$250.00	\$3,000.00				
Overhead	12 month		\$200.00	\$2,400.00				
Truck O&M	1 year		\$4,000.00	\$4,000.00				
Truck Fuel	1040 gal		\$3.85	\$4,004.00				
Subtotal					\$96,404.00	\$28,921.20	\$125,325.20	

TOTAL ANNUAL COST ESTIMATE					\$180,024.19			
CONTINGENCY						\$54,007.26		
TOTAL ANNUAL COST ESTIMATE AND CONTINGENCY							\$234,000	

COST ESTIMATION WORK SHEET - COST OPTION 2
SOLID WASTE MANAGEMENT ALTERNATIVE:

Install New Stand-Alone 1-Phase Compactor

Town of Canterbury
Aries Project # 2025-013

TASK

	Units	Type	Rate	Cost	SUBTOTAL	30% Contingency	ESTIMATED TASK TOTAL	Source
1st YEAR CAPITAL COSTS								
Purchase Compactor (1-Phase)								
- PTR TP4000HD – 4-yard Compactor (1-phase)	1	at	\$31,446	\$31,446.00				
- Power Unit & VFD	1	at	\$3,895	\$3,895.00				
- Tank Heater	1	at	\$585	\$585.00				
- Rear-Feed Hopper	0	at	\$4,000	\$0.00				
- Freight	1	at	\$1,500	\$1,500.00				
- Installation	1	at	\$2,000	\$2,000.00				
- Receiver	2	at	\$9,800	\$19,600.00				
Compactor Canopy								
- Build Canopy for stand-alone compactor	240	ft*2	\$150	\$36,000.00				
Self-contained trailer for employee office with bathroom	1	LS	\$57,770	\$57,770.00				
Installation - concrete pad	256	SF	\$10	\$2,560.00				
On-site septic and well	1	LS	\$30,000	\$30,000.00				
Subtotal					\$185,356.00	\$55,606.80	\$240,962.80	
Engineering Design and Construction Management								
- Preliminary Design Engineering Costs	1	at	\$7,500	\$7,500.00				
- Geotechnical Engineering Costs	0	at	\$7,500	\$0.00				
- Final Design and Construction Management Engineering Costs	1	at	\$15,000	\$15,000.00				
Subtotal					\$22,500.00	\$6,750.00	\$29,250.00	
TOTAL 1st YEAR COST ESTIMATE					\$207,856.00			
CONTINGENCY						\$62,356.80		
TOTAL 1st YEAR COST ESTIMATE AND CONTINGENCY							\$270,000	
SYSTEM ANNUAL COSTS								
Pick-Up and Transportation Cost								
Subcontractor -Hauling	52	Trip	\$700.00	\$36,400.00				Zero-Waste
Subtotal					\$36,400.00	\$10,920.00	\$47,320.00	
Engineering Costs								
		month		\$0.00				
		at		\$0.00				
Subtotal					\$0.00	\$0.00	\$0.00	
Disposal								
Win-Waste	880	Tons	\$95.00	\$83,620.19				
Subtotal					\$83,620.19	\$25,086.06	\$108,706.24	
Recycling Center Operations								
Labor - Part-Time	2	year	\$21,000.00	\$42,000.00				
Manager	1	year	\$30,000.00	\$30,000.00				
Labor - Operator with CLD	0	year	\$10,000.00	\$0.00				
Operator training/permitting/fees	0	year	\$1,000.00	\$0.00				
Electric	12	month	\$1,500.00	\$18,000.00				
Overhead	12	month	\$200.00	\$2,400.00				
Truck O&M	0	year	\$4,000.00	\$0.00				
Truck Fuel	0	gal	\$3.85	\$0.00				
Subtotal					\$92,400.00	\$27,720.00	\$120,120.00	
TOTAL ANNUAL COST ESTIMATE					\$212,420.19			
CONTINGENCY						\$63,726.06		
TOTAL ANNUAL COST ESTIMATE AND CONTINGENCY							\$276,000	

COST ESTIMATION WORK SHEET - COST OPTION 3
SOLID WASTE MANAGEMENT ALTERNATIVE:

Install New Rear-Feed 1-Phase Compactor Attached to TS Building

Town of Canterbury
Aries Proejct # 2025-013

TASK	Units	Type	Rate	Cost	SUBTOTAL	30% Contingency	ESTIMATED TASK TOTAL	Source
1st YEAR CAPITAL COSTS								
Purchase Compactor (1-Phase)								
- PTR TP4000HD – 4-yard Compactor (1-phase)	1	at	\$31,446	\$31,446.00				
- Power Unit & VFD	1	at	\$3,895	\$3,895.00				
- Tank Heater	1	at	\$585	\$585.00				
- Rear-Feed Hopper	1	at	\$4,000	\$4,000.00				
- Freight	1	at	\$1,500	\$1,500.00				
- Installation	1	at	\$2,000	\$2,000.00				
- Receiver	2	at	\$9,800	\$19,600.00				
Transfer Station Building								
- Retrofit Compactor Truck Bay to Rear-Load Compactor	720	ft*2	\$100	\$72,000.00				
Self-contained trailer for employee office with bathroom	1	LS	\$57,770	\$57,770.00				
Installation - concrete pad	256	SF	\$10	\$2,560.00				
On-site septic and well	1	LS	\$30,000	\$30,000.00				
Subtotal					\$225,356.00	\$67,606.80	\$292,962.80	
Engineering Design and Construction Management								
- Preliminary Design Engineering Costs	1	at	\$7,500	\$7,500.00				
- Geotechnical Engineering Costs	0	at	\$7,500	\$0.00				
- Final Design and Construction Management Engineering Costs	1	at	\$15,000	\$15,000.00				
Subtotal					\$22,500.00	\$6,750.00	\$29,250.00	
TOTAL 1st YEAR COST ESTIMATE					\$247,856.00			
CONTINGENCY						\$74,356.80		
TOTAL 1st YEAR COST ESTIMATE AND CONTINGENCY							\$322,000	
SYSTEM ANNUAL COSTS								
Pick-Up and Transportation Cost								
Subcontractor	0 Tons		\$196.67	\$0.00				
(1 ton / household / year) based on Casella Statistics								
Subtotal					\$0.00	\$0.00	\$0.00	
Engineering Costs								
	month			\$0.00				
	at			\$0.00				
Subtotal					\$0.00	\$0.00	\$0.00	
Disposal								
Win-Waste	880 Tons		\$95.00	\$83,620.19				
Subtotal					\$83,620.19	\$25,086.06	\$108,706.24	
Recycling Center Operations								
Labor - Part-Time	2 year		\$21,000.00	\$42,000.00				
Manager	1 year		\$30,000.00	\$30,000.00				
Labor - Operator with CLD	0 year		\$10,000.00	\$0.00				
Operator training/permitting/fees	0 year		\$1,000.00	\$0.00				
Electric	12 month		\$1,500.00	\$18,000.00				
Overhead	12 month		\$200.00	\$2,400.00				
Truck O&M	0 year		\$4,000.00	\$0.00				
Truck Fuel	0 gal		\$3.85	\$0.00				
Subtotal					\$92,400.00	\$27,720.00	\$120,120.00	
TOTAL ANNUAL COST ESTIMATE					\$176,020.19			
CONTINGENCY						\$52,806.06		
TOTAL ANNUAL COST ESTIMATE AND CONTINGENCY							\$229,000	

COST ESTIMATION WORK SHEET - COST OPTION 5
SOLID WASTE MANAGEMENT ALTERNATIVE:

Town of Canterbury
Aries Project # 2025-013

Purchase & Construct New Transfer Station Property

TASK	Units	Type	Rate	Cost	SUBTOTAL	30% Contingency	ESTIMATED TASK TOTAL	Source
1st YEAR CAPITAL COSTS								
Property Purchase	1	at	\$400,000	\$400,000.00				Zillow, Loop Net for local listings
Subtotal					\$400,000.00	\$120,000.00	\$520,000.00	
Transfer Station Building								
- 40' X 80' Pre-Engineered Mono Slope Building	3,200	ft*2	\$40	\$128,800.00				
- 3-Bay Loading Dock Overhead Doors	3	at	\$3,364	\$10,091.00				
- Overhead Doors	3	at	\$6,066	\$18,199.00				
- Entrance Doors	4	at	\$3,222	\$12,888.00				
- Windows	2	at	\$785	\$1,569.00				
- Interior Partitions	720	ft*2	\$10	\$7,071.00				
- Ceiling	800	ft*2	\$11	\$8,657.00				
- Interior Doors	2	at	\$1,725	\$3,450.00				
- Concrete foundation, slab floor, retaining walls, pads	1	at	\$139,102	\$139,102.00				
- Excavation for building foundations and retaining walls	Included							
- Balanced Cut and Fill to determine final grades	Included							
- Gravel road beds, loaming and seeding	Included							
- Underground utility conduit and piping installation	Included							
General Conditions	1	at	\$32,983	\$32,982.50				
Transfer Station Building Subtotal								
Other Miscellaneous								
On-site septic and well	1	LS	\$30,000	\$30,000.00				
- PTR TP400HD - 4 yard Compactor (1-phase)	1	at	\$31,446	\$31,446.00				
- Power Unit & VFD	1	at	\$3,895	\$3,895.00				
- Tank Heater	1	at	\$585	\$585.00				
- Rear-Feed Hopper	0	at	\$4,000	\$0.00				
- Freight	1	at	\$1,500	\$1,500.00				
- Installation	1	at	\$2,000	\$2,000.00				
- Receiver	2	at	\$9,800	\$19,600.00				
- Roll-Off Containers for bulk storage (4 units)	0	at	\$5,500	\$0.00				
- Fork Lift for moving baled recyclables (Used)	0	at	\$20,500	\$0.00				
- Pallet Jack	1	at	\$9,950	\$9,950.00				
- Electrical	3,200	ft*2	\$13	\$40,480.00				
- Electrical Service Connection	1	at	\$29,070	\$29,070.00				
- Space heater	400	ft*2	\$6	\$2,500.00				
Subtotal					\$533,833.50	\$160,150.05	\$694,000.00	
Engineering Design and Construction Management								
- Preliminary Design Engineering Costs	1	at	\$26,692	\$26,691.68				
- Geotechnical Engineering Costs	1	at	\$7,500	\$7,500.00				
- Final Design and Construction Management Engineering Costs	1	at	\$53,383	\$53,383.35				
Subtotal					\$87,575.03	\$26,272.51	\$113,847.53	
TOTAL 1st YEAR COST ESTIMATE					\$1,021,408.53			
CONTINGENCY						\$306,422.56		
TOTAL 1st YEAR COST ESTIMATE AND CONTINGENCY							\$1,328,000	

SYSTEM ANNUAL COSTS

Pick-Up and Transportation Cost

Subcontractor (1 ton / household / year) based on Casella Statistics	0 Tons		\$196.67	\$0.00				
Subtotal					\$0.00	\$0.00	\$0.00	
Engineering Costs								
	month			\$0.00				
	at			\$0.00				
Subtotal					\$0.00	\$0.00	\$0.00	
Disposal								
Win-Waste	880 Tons		\$95.00	\$83,620.19				
Subtotal					\$83,620.19	\$25,086.06	\$108,706.24	

Recycling Center Operations

Labor - Part-Time	2 year		\$21,000.00	\$42,000.00				
Manager	1 year		\$30,000.00	\$30,000.00				
Labor - Operator with CLD	0 year		\$10,000.00	\$0.00				
Operator training/permitting/fees	0 year		\$1,000.00	\$0.00				
Electric	12 month		\$1,500.00	\$18,000.00				
Overhead	12 month		\$200.00	\$2,400.00				
Truck O&M	0 year		\$4,000.00	\$0.00				
Truck Fuel	0 gal		\$3.85	\$0.00				
Subtotal					\$92,400.00	\$27,720.00	\$120,120.00	
TOTAL ANNUAL COST ESTIMATE					\$176,020.19			
CONTINGENCY						\$52,806.06		
TOTAL ANNUAL COST ESTIMATE AND CONTINGENCY							\$229,000	

Property Comps	Acres	Price	Commercial
34 Boyce Road	8.42	\$399,000.00	
445 Shaker Road	10.02	\$250,000.00	
4 Old Boyce Road	3.5	\$799,000.00	yes
1 Hall Road	5.1	\$250,000.00	yes
Rum Brook Road	70	\$325,000.00	
Average		\$404,600.00	

COST ESTIMATION WORK SHEET - COST OPTION 7
SOLID WASTE MANAGEMENT ALTERNATIVE:

Casella MSW & Recycling Curbside Pickup

Town of Canterbury
Aries Project # 2025-013

TASK

	Units	Type	Rate	Cost	SUBTOTAL	30% Contingency	ESTIMATED TASK TOTAL	Source
ANNUAL COSTS								
Pick-Up and Transportation Cost								
Casella (1 ton / household / year) based on Casella Statistics	1,051 Tons		\$196.67	\$206,696.67				
Subtotal					\$206,696.67	\$62,009.00	\$268,705.67	
Engineering Costs								
		month		\$0.00				
		at		\$0.00				
Subtotal					\$0.00	\$0.00	\$0.00	
Disposal								
Casella - MSW	880 Tons		\$95.00	\$83,620.19				
	171 at		\$0.00	\$0.00				
Subtotal					\$83,620.19	\$25,086.06	\$108,706.24	
Recycling Center Operations								
Labor - Part-Time	0 year		\$21,000.00	\$0.00				
Manager	0 year		\$30,000.00	\$0.00				
Labor - Operator with CLD	0 year		\$10,000.00	\$0.00				
Operator training/permitting/fees	0 year		\$1,000.00	\$0.00				
Electric	0 month		\$1,500.00	\$0.00				
Overhead	0 month		\$200.00	\$0.00				
Truck O&M	0 year		\$4,000.00	\$0.00				
Truck Fuel	0 gal		\$3.85	\$0.00				
Subtotal					\$0.00	\$0.00	\$0.00	
TOTAL ANNUAL COST ESTIMATE					\$290,316.85			
CONTINGENCY						\$87,095.06		
TOTAL ANNUAL COST ESTIMATE AND CONTINGENCY							\$377,000	

COST ESTIMATION WORK SHEET - COST OPTION 8
SOLID WASTE MANAGEMENT ALTERNATIVE:

Casella MSW-Only Curbside Pickup
Town-Run Recycling @ TS

Town of Canterbury
Aries Project # 2025-013

TASK	Units	Type	Rate	Cost	SUBTOTAL	30% Contingency	ESTIMATED TASK TOTAL	Source
1st YEAR CAPITAL COSTS								
Purchase								
Self-contained trailer for employee office with bathroom	1	LS	\$57,770	\$57,770.00				
Installation - concrete pad	256	SF	\$10	\$2,560.00				
On-site septic and well	1	LS	\$30,000	\$30,000.00				
Subtotal					\$90,330.00	\$27,099.00	\$117,429.00	
TOTAL 1st YEAR COST ESTIMATE					\$90,330.00			
CONTINGENCY						\$27,099.00		
TOTAL 1st YEAR COST ESTIMATE AND CONTINGENCY							\$117,000	
ANNUAL COSTS								
Pick-Up and Transportation Cost								
Casella with Automatic Side Loader (ASL) (1 ton / household / year) based on Casella Statistics	880 Tons		\$170.00	\$149,636.13				
Subtotal					\$149,636.13	\$44,890.84	\$194,526.96	
Engineering Costs								
	month			\$0.00				
	at			\$0.00				
Subtotal					\$0.00	\$0.00	\$0.00	
Disposal								
Casella - MSW	880 Tons		\$95.00	\$83,620.19				
	171 at		\$0.00	\$0.00				
Subtotal					\$83,620.19	\$25,086.06	\$108,706.24	
Recycling Center Operations								
Labor - Part-Time	2 year		\$21,000.00	\$42,000.00				
Manager	1 year		\$30,000.00	\$30,000.00				
Labor - Operator with CLD	0 year		\$10,000.00	\$0.00				
Operator training/permitting/fees	0 year		\$1,000.00	\$0.00				
Electric	12 month		\$250.00	\$3,000.00				
Overhead	12 month		\$200.00	\$2,400.00				
Truck O&M	0 year		\$4,000.00	\$0.00				
Truck Fuel	0 gal		\$3.85	\$0.00				
Subtotal					\$77,400.00	\$23,220.00	\$100,620.00	
TOTAL ANNUAL COST ESTIMATE					\$310,656.31			
CONTINGENCY						\$93,196.89		
TOTAL ANNUAL COST ESTIMATE AND CONTINGENCY							\$404,000	