

COST ESTIMATION WORK SHEET - COST OPTION 0 (No Change)

SOLID WASTE MANAGEMENT ALTERNATIVE:

Town of Canterbury

Aries Project # 2025-013

TASK

Current Operations

	Units	Type	Rate	Cost	SUBTOTAL	30% Contingency	ESTIMATED 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 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:

Replace Compactor Truck

Town of Canterbury
 Aries Project # 2025-013

TASK

	Units	Type	Rate	Cost	SUBTOTAL	30% Contingency	ESTIMATED 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 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				
Subtotal		at		\$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:

Town of Canterbury

Aries Project # 2025-013

TASK

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

	Units	Type	Rate	Cost	Subtotal	30% Contingency	ESTIMATED 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 (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		

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								
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	\$12,886.00				
- 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								
Transfer Station Building Subtotal	1	at	\$32,983	\$32,982.50				
Other Miscellaneous								
On-site septic and well	1	LS	\$30,000	\$30,000.00				
- 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				
- 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	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 C&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:

Town of Canterbury

Aries Project # 2025-013

TASK

Casella MSW & Recycling Curbside Pickup

	Units	Type	Rate	Cost	SUBTOTAL	30% Contingency	ESTIMATED 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				
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Subtotal					\$206,696.67	\$62,009.00	\$268,705.67	
Engineering Costs								
		month at			\$0.00			
Subtotal					\$0.00	\$0.00	\$0.00	
Disposal								
Casella - MSW	880 Tons 171 at		\$95.00 \$0.00	\$83,620.19 \$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	
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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

1st YEAR CAPITAL COSTS

Purchase

Self-contained trailer for employee office with bathroom
 Installation - concrete pad
 On-site septic and well

	Units	Type	Rate	Cost	Subtotal	30% Contingency	ESTIMATED TASK TOTAL	Source
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			
Subtotal			\$0.00	\$0.00	\$0.00	

Disposal

Casella - MSW
 880 Tons
 171 at
 \$95.00
 \$0.00
 \$83,620.19
 \$0.00

Subtotal		\$83,620.19	\$25,086.06	\$108,706.24	
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Recycling Center Operations

Labor - Part-Time
 Manager
 Labor - Operator with CLD
 Operator training/permitting/fees
 Electric
 Overhead
 Truck O&M
 Truck Fuel

Subtotal		\$77,400.00	\$23,220.00	\$100,620.00	
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TOTAL ANNUAL COST ESTIMATE

CONTINGENCY

TOTAL ANNUAL COST ESTIMATE AND CONTINGENCY