

	INDICATOR	DEFINITION	BASELINE	TARGET	DATA SOURCE	FREQUENCY	RESPONSIBLE	REPORTING
		How is it calculated?	What is the current value?	What is the target value?	How will it be measured?	How often will it be measured?	Who will measure it?	Where will it be reported?
Goal	Efficiency of waste disposal and compaction on Landfill that assist mitigate occurrence of fire.	Ratio of landfill compactor fuel use (litres / hour) per tonne of waste delivered combined with visual assessment of working face waste compaction (photo evidence)	TBD	TBD (reduction on baseline)	Vehicle fuel log, weighbridge data, photographic record of working face	Daily recording of working face, weekly analysis of fuel and weighbridge data.	Landfill Manager	Regulator
		Number of days smoke is observed rising from landfill mass	Daily	Zero	Visual recordings and reporting in logbook at landfill	Daily	Landfill Manager	Regulator
		Number of fires occurring on active landfill site.	TBD	Zero	Visual recordings and reporting in logbook at landfill	Daily	Landfill Manager	Regulator
Outcomes	Increase in Green Waste diversion from landfill to environmentally sound management.	Quantity (weight) of Green Waste loads recorded as entering Landfill	TBD – Estimated	Reduction on baseline	Cooks Landfill weigh bridge data	Weekly / Monthly reporting	Landfill Manager	Regulator
		Number of separate occurrences of open dumping of green waste (and other wastes).	TBD	Reduction on baseline	Reports from Litter Wardens active in pilot green waste drop-off catchment area.	Monthly reporting	Litter Wardens	Regulator
	Effectiveness of communication campaign and source segregated drop-off sites	Quantity of green waste delivered to drop-off site	Zero	10% of total green waste disposed over first 4 months	Estimated volumes of loads dropped off (in absence of weigh bridge)	Daily record keeping reported monthly	Drop-off / composting facility supervisor	Regulator
		Number of green waste producers in target area using drop-off facility	Zero	At least half of those who produce green waste in the catchment area having used a site	Gate records of number of distinct different users	Daily record keeping, monthly reporting	Drop-off / composting facility supervisor	Regulator
	Impact of green waste management on the spread of invasive fauna.	Incidences (or number) of Giant African Snails in and around drop-off and composting facilities and in final product.	TBD	No increase on baseline	Site assessment and population count	Data collected weekly by composting team, reporting to MoA on Monthly basis	Ministry of Agriculture	Regulator
		Occurrence of pathogens in final product (pathogen destruction also indicates sufficient condition to kill any plant seeds)	N/A	Negligible	Compost testing and quality assurance	Monthly	Ministry of Agriculture Department of Analytical services	Regulator
	Capacity and appropriateness of operator models	Volume of processed and unprocessed green waste and compost at point of production, drop-off bay, windrow piles, product pile.	N/A	TBD in line with facility size. Fluid process flow (no excessive stockpiling) and increasing production.	Volume estimate of stockpiles along material flow chain	Monthly	Waste Management Operations Department	Regulator
		Cost of (public) operations versus revenue	N/A	Sustainable revenue exceeds cost	Account records of sustainable income versus expenditure.	Each 6 months	Waste Management Authority	Regulator
		Marketability of compost produced (only relevant if compost to be sold and not used as landfill cover)	N/A	Product quality passes standard and markets identified	Compost testing and quality assurance	Monthly testing	Waste Management Authority	Regulator
				Market assessment	Market survey			
Establish / confirm compost quality standards	Body responsible for establishing Compost Quality Standards is actively working to define local standard	N/A	Compost Quality Standard drafted	Communications with Barbuda Bureau of Standards and CARICOM Regional Organisation for Standards and Quality	Quarterly	Ministry of Agriculture Department of Analytical services	Regulator	

Fill in data in Beige cells for Baseline phase  
 Fill in data in Green cells for implementation phase

			Baseline Phase																												Monthly Subtotal			
Phase																																		
Days			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28				
Weeks			1							2							3							4										
Months			1																															
Indicator	Sub-indicator	Data set	Responsible																															
1	A	Landfill compactor and bulldozer fuel use (litres)	Name of responsible person																														0	
		Total landfill compaction machine(s) operating hours (SWMA equipment)																																0
		Total landfill compaction machine(s) operating hours (Private contractor cost)																																0
		Tonnes of waste delivered on site																																0
	Ratio (fuel use/tonne of waste)	Monthly sum value only																												0				
	B	Number of days smoke is observed rising from landfill mass	Was smoke observed anywhere on landfill site? (Yes = 1/N = 0)																															0
C	Number of fires occurring on active landfill site.	Were there any active fires observed on site (insert number of separate fires if any).																															0	
2	D	Quantity (weight) of Green Waste loads recorded as entering Landfill	Tonnes of green waste recorded as being disposed into landfill																														0	
	E	Number of separate occurrences of open dumping of green waste (and other wastes).	Number of locations observed where fresh green waste loads have been dumped in locations targeted for green waste location	Monthly monitoring																												0		
3	F	Quantity of green waste delivered to drop-off site	Tonnes of green waste delivered to compost drop-off point.																														0	
	G	Number of green waste producers in target area using drop-off facility	Number of unique users dropping of waste at location																														0	
4	H	Incidences (or number) of Giant African Snails in and around drop-off and composting facilities and in final product.	Number of Giant African Snails counted during monthly inspection																														0	
	I	Occurrence of pathogens in final product (pathogen destruction also indicates sufficient condition to kill any plant seeds)	Salmonella and Faecal coliform test result.	Not Applicable at Baseline																												N/A for Baseline		
5	J	Estimated volume (m3) of green waste delivered but not processed	Not Applicable at Baseline																												N/A for Baseline			
		Volume of processed and unprocessed green waste and compost at point of production drop-off bay, windrow piles, product pile.	Estimated volume (m3) of green waste / compost in windrow piles	Not Applicable at Baseline																												N/A for Baseline		
	L	Estimated volume (m3) of compost finished and ready for use	Not Applicable at Baseline																												N/A for Baseline			
		Total expenditures (\$) (staff, fuel, maintenance, equipment purchase, etc)	Not Applicable at Baseline																												N/A for Baseline			
	M	Cost of (public) operations versus revenue	Total revenues (\$) (sales or savings from not purchasing 3rd party compost)	Not Applicable at Baseline																												N/A for Baseline		
		Marketability of compost produced (relevant if compost to be sold and not used as landfill cover)	Compost meets PAS 100 or similar standard	Not Applicable at Baseline																												N/A for Baseline		
6	O	Body responsible for establishing Compost Quality Standards is actively working to define local standard	Standards drafted or not? (Y/N)	Not Applicable at Baseline																												N/A for Baseline		



**Pilot I**

29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	Monthly Subtotal		
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**Phase**

57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	Monthly Subtotal								
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