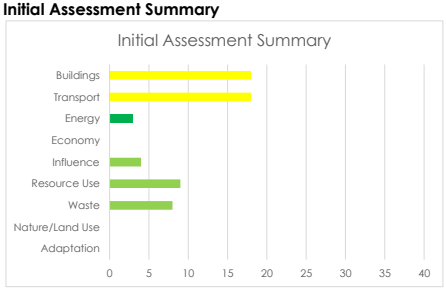
Climate Change Impact Assessment Summary

Project/Proposal Name	Food Waste Collection Service Transitional Ar	**Portfolio**	Operational Services
Committee	Waste and Street Scene	**Lead Member**	Joe Otten
Strategic Priority	Strong and Connected Neighbourhoods	**Lead Officer**	Neil Townrow
Date CIA Completed	23/10/23	**CIA Author**	Andsrew France
		Sign Off/Date	23/10/23

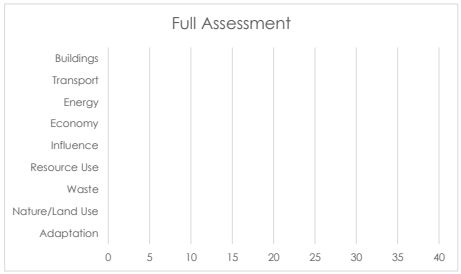
Project Description and CIA Assessment Summary	This report details the requirement to introduce separate, weekly food waste recycling collections to Sheffield households, as required by the Environment Act (2021). Two options are available to the Council to ensure it meet its statutory obligations: Option 1: Choose to go ahead with the introduction of a weekly food waste recycling service in line with the timescales to be set by Government, and not apply for a Transitional Arrangement Option 2: Apply to Central Government for a Transitional Arrangement to defer the introduction of separate food waste collections to an agreed later date, prescribed in legislation. The report recommends the Council applies for a Transitional Arrangement until 2038, for the reasons set out in the report. This assessment identifies the climate impact of introducing a food waste service at the end of the Transitional Arrangement. Estimates suggest that 12,000 tonnes of food waste will be diverted from the black bin (energy recovery) to a seperate

Rapid Assessment	Does the project or proposal have an impact in the following areas? Select all those that apply. Only complete the sections you have selected here in the assessment.		
Buildings and Infrastructure	Yes	**Influence**	Yes
Transport	Yes	**Resource Use**	Yes
Energy	Yes	**Waste**	Yes
Economy	No	**Nature/Land Use**	No
		Adaptation	No

Initial Assessment Summary



Full Assessment Summary



>=27	The project will increase the amount of CO2e released compared to before.
21-26	The project will maintain similar levels of CO2e emissions compared to before.
12-20	The project will achieve a moderate decrease in CO2e emissions compared to before.
3-11	The project will acheve a significant decrease in CO2e emissions compared to before.
0-2	The project can be considered to achieve net zero CO2e emissions.

Initial Assessment

Category	Impact	Description of Project Impact	Score
Buildings and Infrastructure	Construction	Current vehicle storage depot is not big enough for the additional 20 plus vehicles required for the food waste collection service. Adjacent land to the Veolia, Lumley Street depot is likely to need developing to provide additional vehicle storage.	9
	Use	NA	NA
	Land use in development	Current vehicle storage depot is not big enough for the additional 20 plus vehicles required for the food waste collection service. Adjacent land to the Veolia, Lumley Street depot is likely to need developing to provide additional vehicle storage.	9
Transport	Demand Reduction	The new weekly collection service will require over 20 new vehicles. Given the relatively small amount of material collected each week, the service can utilise much smaller vehicles (either 7.5 or 12 tonnes) compared to standard refuse collection vehicles (which in Sheffield are typically 26 tonnes).	9
	Decarbonisation of Transport	If the decision is to forgo the opportunity to apply for a transitional arrangement to defer the introduction of seperate food waste collections, a seperate report will be brought to the Waste and Street Scene Committee with a commissioning strategy. This will provide options for utilising electric vehicles or diesel for the new food waste collection service. The use of electric vehicles will have a significantly lower carbon footrpint when compared to diesel vehicles.	9
	Public Transport	NA	NA
	Increasing Active Travel	NA	NA
Energy	Decarbonisation of Fuel	It is anticipated that the food waste collected would be sent for anaerobic digestion. The process releases biogas which can be used to provide heat, power and/or transport fuel.	3
	Demand Reduction/Efficiency Improvements	NA	NA
	Increasing infrastructure for renewables generation	NA	NA
Economy	Development of low carbon businesses	NA	NA
	Increase in low carbon skills/training	NA	NA
	Improved business sustainability	NA	NA
Influence	Awareness Raising	Communications associated with the food waste service will raise awareness of food waste and the envionmental benfits of recycling.	4
	Climate Leadership	NA	NA
	Working with Stakeholders	NA	NA
Resource Use	Water Use	NA	NA
	Food and Drink	NA	NA
	Products	All households will require a plastickitchen caddy and an outside caddy (houses)/ shared 240 litre wheeled bin (flats), and a roll of liners. This will total around 750,000 additional containers/liners to implement the service. Discussions with Veolia will include the need to include recycled content in the plastic containers and the use of biodegradable liners/liners with recycled content	9
	Services	NA	NA
Waste	Waste Reduction	Usage of a food waste recycling service raises awareness of the amount of food wasted in a household, leading to a concious effort to reduce wastage/save money.	5
	Waste Hierarchy	Estimates suggest that 12k tonnes of food waste will be diverted for recycling from the black bin. This will move waste up the waste hierachy by increasing the amont of waste sent for recycling, and reduce the amount of waste in the black bin and sent to Sheffield's eneregy recovery facility (recovery). Independent modelling by Local Partnerships and using The Carbon Waste and Resources Metric developed by the Waste and Resources Action Programme (WRAP) estimates that 12,000 tonnes of food waste will achieve an annual 78 tonne CO2 equivalent saving when compared to energy recovery. Sheffield's current recycling rate (2022/23) is 33.35%. The modelling estimated the introduction of a separate food waste collection service would increase recycling performance by 6%.	3
	Circular Economy	NA	NA
Nature/Land Use	Biodiversity	NA	NA
	Carbon Storage	NA	NA
	Flood Management	NA	NA
Adaptation	Exposure to climate change impacts	NA	NA
	Vulnerable Groups	NA	NA
	Just Transition	NA	NA

10	The project will significantly increase the amount of CO2e released compared to before.
9	The project will increase the amount of CO2e released compared to before.
8	The project will maintain similar levels of CO2e emissions compared to before.
7	
6	The project will achieve a moderate decrease in CO2e emissions compared to before.
5	
4	
3	The project will achieve a significant decrease in CO2e emissions compared to before.
2	
1	
0	The project can be considered to achieve net zero CO2e emissions.
Carbon Negative	The project is actively removing CO2e from the atmosphere.