

TRDC Climate and Sustainability Impact Assessment

Score / Colour Code	Impact and Recommendation
Dark green (4)	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.
Light green (3)	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible.
Yellow (2)	Some possible negative impacts for sustainability. Recommendation to review these aspects and find ways to mitigate.
Red (1)	Considerable inconsistency with the council's sustainability objectives. Strong recommendation to review.
Grey (0)	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.

Guidance for use

Please answer all questions from the drop-down options in the 'impact' column (C), including 'not applicable' as needed.

Please email your completed copy of the form to
Joanna.Hewitson@threerivers.gov.uk.

Key to the colour coding of answers is given at the top of the page.

Name of project/policy/procurement and date		The Green & Stones Orchard Management Plan (2021-2026)
Brief description (1-2 sentences):		This plan outlines the management regime for the orchard, including tree planting, pollinator enhancement from both conservation and planting, and the use of traditional orchard management techniques.

Homes, buildings, infrastructure, equipment and energy			
Question	Impact (select from list)	Score (-1 to 4)	Justification or mitigation
1 What effect will this project have on overall energy use (electricity or other fuels) e.g. in buildings, appliances or machinery?	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0	Not applicable
2 What effect will this project have on the direct use of fossil fuels such as gas, petrol, diesel, oil?	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0	Not applicable
3 Does this project further maximise the use of existing building space? E.g. co-locating services; bringing under-used space into use; using buildings out-of-hours	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0	Not applicable
4 Will any new building constructed or refurbished be highly energy efficient in use? (e.g. high levels of insulation, low energy demand per sq. m., no servicing with fossil fuels such as gas heating, EPC	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0	Not applicable
5 Does this make use of sustainable materials / unputs in your project? E.g. re-used or recycled construction materials; timber in place of concrete	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3	Any potential new/replacement site furniture is selected based on its longevity, opportunities for recycled materials is preferred.
6 Does this use more sustainable processes in the creation of the project? E.g. modular and off-site construction; use of electrical plant instead of petrol/diesel,	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0	Not applicable
7 Will this increase the supply of renewable energy? e.g. installing solar panels; switching to a renewable energy tariff	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0	Not applicable

8	Do any appliances or electrical equipment to be used have high energy efficiency ratings?	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0	Not applicable
	Average Score		3.00	

Travel				
	Question	Impact	Score (0-4)	Justification or mitigation
9	Reducing travel: what effect will this project have on overall vehicle use?	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0	Not applicable
10	Will this project use petrol or diesel vehicles or EV, hybrid?	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0	Not applicable
11	Will this support people to use active or low-carbon transport? <i>E.g. cycling, walking, switching to electric transport</i>	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3	Maintaining access points and pathways to encourage active travel.
12	Will it be easily accessible for all by foot, bike, or public transport, including for disabled people?	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4	The sites are located in close proximity to Croxley train station, a 15 minute walk with bus stops within the site. Maintaining access points and pathways to encourage active travel.
13	Has the project taken steps to reduce traffic? <i>Using e-cargo bikes; timing activities or deliveries to be outside peak congestion times</i>	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0	Not applicable
	Average Score		3.50	

Goods and Consumption				
	Question	Impact	Score (0-4)	Justification or mitigation
14	Has this project considered ways to reuse existing goods and materials to the greatest extent possible, before acquiring newly manufactured ones?	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0	Not applicable
15	Does it reduce reliance on buying newly manufactured goods? <i>E.g. repair and re-use; sharing and lending goods between services or people; leasing or product-as-a-service rather than ownership</i>	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0	Not applicable
16	Does it use products and resources that are re-used, recycled, or renewable?	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3	is selected based on its longevity, opportunities for recycled materials is preferred.
17	Does it enable others to make sustainable choices within their lifestyles, or engage people about this?	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3	Interpretation would inform visitors on the heritage and wildlife of the site

18	Is there a plan to reduce waste sent to landfill in manufacture?	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0	Not applicable
19	Is the material used able to be re-used, re-purposed, or recycled at end of its life?	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3	Any potential new replacement site furniture is selected based on its longevity, opportunities for recycled materials is preferred.
20	Has it taken steps to ensure any food it offers is more sustainable? <i>E.g. less and high-quality (high welfare) meat and dairy; minimises food waste; seasonal produce; locally sourced.</i>	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0	Not applicable
	Average Score		3.00	

Ecology				
	Question	Impact	Score (0-4)	Justification or mitigation
21	What effect does this project have on total area of non-amenity green/blue space? (Amenity green space = playing fields, play areas, sporting lakes etc. Non-amenity= e.g. woodland, grassland, wetland, gardens, lakes, rivers, ponds etc.)	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4	Appropriate management of the site for both people and wildlife increase the resilience and sustainability of the greenspaces and their protection for the future.
22	Does the project create more habitat for nature? E.g. native plants, trees, and flowers	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4	Through enhancement, replanting, successional planning and management
23	Does it make changes to existing habitats and have a negative impact on nature? <i>E.g. use of pesticides, reduced extent and variety of plants, planting non-native species</i>	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4	Appropriate habitat management to enhance and diversify species composition within the site. Advocating the "right tree right place" frame of mind.
24	Does it help people understand the value of biodiversity, and encourage residents to support it in their private and community spaces?	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4	Interpretation would inform visitors on the heritage and wildlife of the site
	Average Score		4	

Adaptation				
	Question	Impact	Score (0-4)	Justification or mitigation
25	Does any planned project, construction or building use include measures to conserve water?	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0	
26	Does any project, consider how to sustainably protect people from extreme weather?	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3	Maintenance of the trees and hedgerow to increase/maintain shade
27	Has any planned building work or infrastructure considered how to mitigate flood risk? <i>E.g. Sustainable Drainage Systems (SuDS); de-paving areas; green roofs</i>	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0	
28	Does any planned infrastructure or building work increase the overall footprint of hard surfacing? (as opposed to green or permeable surfacing)	Some possible negative impacts for sustainability. Recommendation to review these aspects and find mitigations where possible.	2	Potential for path improvements, although subject to funding and public consultation

29	Has the project considered its own resilience to future extreme heat, flood risk, or water shortage?	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4	Appropriate habitat management and habitat creation will increase the resilience of the sites
	Average Score		3.0	
Engagement and Influence				
	Question	Impact	Score (0-4)	Justification or mitigation
30	Does this project raise awareness and understanding of the climate and ecological emergency, and the steps that people can take?	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4	Through public engagement with events, online, signage and interpretation.
	Average Score		4	
	Total Overall Average Score		3.42	

Now assessment is complete copy and paste box into your business case, committee report. (under environmental implications 6). Whole assessment can be an appendix. Procurement tenders are expected to submit complete report with application.

Climate and Sustainability Impact Assessment Summary	
Homes, buildings, infrastructure, equipment and energy	3.00
Travel	3.50
Goods and Consumption	3.00
Ecology	3.00
Adaptation	3.50
Engagement and Influence	4
Total Overall Average Score	3.5

e and proceed.

nitigations where possible.

Recommendation to review these aspects and find mitigations.

it otherwise proceed.

ment Plan

sibilities for the orchard and grasslands and explores opportunities for site and community engagement perspectives.

Impact (select from list)	Revised Score (1-4)
Some possible negative impacts for sustainability. Recommendation to review these aspects and find mitigations where possible.	3
Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0
Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0
Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0
Some positive impacts for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3
Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0
Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0

Ways to optimise sustainability and work towards net zero carbon:

- Insulate buildings to a high standard.
- Include energy efficiency measures when carrying out refurbishment to deliver improvement in EPC ratings.
- Replace gas boilers with renewable heating, such as heat pumps. Consider District Heat Networks where appropriate.
- Construct new buildings to Passivhaus standard.
- Design and deliver buildings and infrastructure with lower-carbon materials, such as recycled material and timber frames.
- Use construction methods that reduce overall energy use, such as modular, factory-built components, or use of electrical plant on-site.
- Install solar panels or other renewable energy generation, and consider including battery storage.
- Switch to a certified renewable energy provider e.g. utilise power purchase agreements (PPA)
- Use energy-efficient appliances.
- Install low-energy LED lighting.
- Install measures to help manage building energy demand, such as smart meters, timers on lighting, or building management systems.

Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
	3.00

Impact (select from list)	Revised Score (0-4)
Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0
Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0
Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3
Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4
Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0
	3.50

Ways to optimise sustainability and work towards net zero carbon:	
<ul style="list-style-type: none"> - Reduce the need to travel e.g. through remote meetings, or rationalising routes and rounds. - Share vehicles or substitute different modes of travel, rather than procuring new fleet. - Specify electric, hybrid, or most fuel efficient vehicles for new fleet or for services involving transport. - Support users and staff to walk, cycle, or use public transport e.g. with cycle parking, training, incentives. - Use zero-emission deliveries - Model and mitigate the project's effect on traffic and congestion e.g. retiming the service or deliveries 	

Impact (select from list)	Revised Score (0-4)
Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0
Some positive impact for sustainability. Recommendation to further enhance this aspect where	3
Some positive impact for sustainability. Recommendation to further enhance this aspect where	3

Ways to optimise sustainability and work towards net zero carbon:	
<ul style="list-style-type: none"> - Procure goods through sharing, leasing, or product-as-a-service models rather than ownership. - Use pre-owned and reconditioned goods, and reduce reliance on procuring new goods. - Use recycled materials, and procure items that can be reconditioned or recycled at end-of-life. - Use lifecycle costing in business cases to capture the full cost of operation, repair and disposal of an item. - Ensure meat and dairy is high-quality, high-welfare. - Design waste, including food waste, out of business models e.g. separating (and composting) food waste; replacing single-use items with reusable items. - Use contact points with residents, community groups and businesses to engage and enable them to adopt low-waste, low-carbon behaviours. 	

Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
Some positive impact for sustainability. Recommendation to further enhance this aspect where	3
Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
	3.00

Impact (select from list)	Revised Score (0-4)
Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4
Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4
Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4
Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4
	4

Ways to optimise sustainability and work towards net zero carbon: (Seek advice from Landscapes Team if required)
<ul style="list-style-type: none"> - Avoid converting green space to hard surfacing. - Use underutilised space for planting, such as green roofs and walls. - Plant native plants and perennials, rather than non-native ornamental species, to encourage biodiversity. - Reduce trimming of grass and hedges, and avoid use of synthetic pesticides. - Provide space for animals e.g. long grass areas, bird boxes, bat boxes, 'insect hotels', ponds, hedgehog hides and passages, log piles - Consider the ecological impacts from manufacture and use of procured goods, e.g. water pollution; water consumption; land use change for farming; pesticide use; organic/regenerative farming methods

Impact (select from list)	Revised Score (0-4)
Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
Some positive impact for sustainability. Recommendation to further enhance this aspect where	3
Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0

Ways to optimise sustainability and work towards net zero carbon:
<ul style="list-style-type: none"> - Install water-saving devices in taps, showers and toilets - Re-use grey water in new developments - Capture and re-use rainwater where possible e.g. water butts for use in car washing, watering garden, toilets - Ensure all new building or refurbishment (especially of homes) models and mitigates future overheating risk, with adequate ventilation and shading - Avoid increasing areas of hard surfacing. - Convert hard surfacing to green and permeable surfacing where possible, and install Sustainable Drainage systems (SUDS). - Plant drought-tolerant plants and mulch landscapes to avoid water loss through evaporation.

Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4	
	3.50	

Impact (select from list)	Revised Score (0-4)	Ways to optimise sustainability and work towards net zero carbon:
Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4	<p>Ways to optimise sustainability and work towards net zero carbon:</p> <ul style="list-style-type: none"> - 'Make every contact count', by using contact points with residents, businesses and community groups to promote understanding of the climate emergency.
	4	
	3.5	