Appendix C: Cost Benefit Screening

EU MEASURE	EU CLASSIFICATION	OPTION	PROJECT FEASIBILITY	LOCAL ECONOMIC IMPACT	IMPACT ON CONGESTION	LOCAL AIR QUALITY IMPACT (NO2)	PUBLIC HEALTH IMPACT (PMx & wider determinants)	CO2 IMPACT	COMPATIBILITY WITH SDC PLANNING POLICIES	COMPATIBILITY WITH WYCC PLANNING POLICIES / LTP	PUBLIC PERCEPTION	WOOD ECONOMIC EQUALITY IMPACTS	OTHER COMMENTS	PRIVATE CAR EMISSIONS	FLEET CAR EMISSIONS	BUS EMISSIONS	HGV EMISSIONS	LGV EMISSIONS	TAXI EMISSIONS	COMMUTER	BUSINESS TRIPS	DELIVERIES	LEISURE / SHOPPING	EDUCATION	CAPITAL COST	REVENUE COST	COMMENT
Alternatives to private vehicle use	Bus based Park & Ride	Investigate opportunities for a diesel bus based P&R Barkby											Would need to include a link to the railway station. Level of demand to service questioned. Would need a more detailed feasibility study to include the above and to look at potential revenue streams. Would need to consider amount and route layouts for 'people along the route. To encourage P&R use, the bus service would need to be cheaper than the alternative / increased travel costs. This would be a significant investment and could result in economic/ environmental impacts. There would be concern to about impact on local businesses.														HIGH	HIGH	High cost associated with feasibility study and any associated scheme delivery. Revenue cost would depend on operating model. Should be issue ongoing has costs for permit & service. Both site development and the operation of a service could be contracted out to a third party if an interested party could be found.
		Investigate opportunities for an ultra low emission bus based P&R Barkby											All same issues arising as for diesel based P&R option. Additional issue might be extra electricity loa and impact this could have on DCL emissions (depending on how electricity is sourced). Would need to operate on a green energy tariff (or arrange to be generated on site (potentially solar?)														HIGH	HIGH	High cost associated with feasibility study and any associated scheme delivery. Revenue cost would depend on operating model. Should be issue ongoing has costs for permit & service. Both site development and the operation of a service could be contracted out to a third party if an interested party could be found.
	Car & lift sharing schemes	Introduce a car sharer only lane through New Street											Requires further analysis of current vehicle occupancy to determine how many vehicles could be affected by the scheme and whether this would make a difference. Would need some form of enforcement which could be expensive. Granted this is a relatively cheap scheme to implement. Potentially the set up quality improvement aspects.														HIGH	MEDIUM	Revenue cost would depend on enforcement model. Capital cost would be required to implement signage and road markings. Cost of enforcement would depend on level of enforcement. Annual cost would depend on level of compliance / need for enforcement.
	Car clubs	Car club operated by SDC											Level of current demand for such a service exists. Investment has been identified as a way to enable to new housing developments. Agreed that any investment would be made by the developer (i.e. Galtey Ed, not WCC). Idea of a WYCC operated car club removed from the list. Compatibility with WYCC / LTP questionable and would require investigation. Potentially a car club could be based on SDC offices for staff and public use.														HIGH	MEDIUM	Sign-up/join and associated with virtual events processes to service development. Ongoing costing review. Would likely be contracted out or a third party for delivery.
Freight and Delivery Management	Freight Consolidation Centre	Investigate opportunities for a freight consolidation centre within SDC area (with potential for sharing with York)											Would need a more detailed feasibility study to include the above and to look at potential revenue streams. Would need to consider amount and route layouts for 'people along the route. To encourage use, the service would need to have a high pressure gas main nearby but would be cheaper than the alternative / increased travel costs. Would be a cost with York.														HIGH	HIGH	High cost associated with feasibility study and any associated scheme delivery. Revenue cost would depend on operating model. Should be issue ongoing has costs for permit & service. Both site development and the operation of a service could be contracted out to a third party if an interested party could be found.
	Freight Partnerships for city centre deliveries	Set up a Freight Partnership for operators regularly moving in and around Selby											All FQ schools have lots of associations with setting up FQPs for Unitas - just to do - A QPT could be used to develop local delivery schedules / consolidation centre. Would require a dedicated management unit to address which organise a new FQP. Would require a dedicated management unit. Would not be fully exhibited in road work. Could be difficult to implement and enforce. Would require 2 immediate practical.		4 x Unitas bus partnership												LOW	LOW	Mid-t cons associated with officer time to facilitate discussions and develop policies etc.
	Route Management Plans / Strategic routing strategy for HGVs	Improve signage on bypass about HGV weight limit on New Street											While have a disruptive impact on air quality and increase in some of the night, officer time likely Street could be beneficial. Some lorries may have to go further to avoid the limit, thus increasing fuel and CO2 emissions. Could have a negative impact on smaller businesses.														MEDIUM	LOW	Mid-t cons associated with signage provision. Exact costs would depend on number of signs. Likely to be £5k+. Some ongoing maintenance costs.
		Undertake active enforcement of weight limit on New Street											Enforcement of weight limit is fairly enforced at present. Would be a cost to the Council. Street would be to their investigation and some HGVs may be required to divert. Would be difficult to provide further cutting and guidance.														HIGH	MEDIUM	This assumes a camera based enforcement system. Revenue cost would depend on level of enforcement required in event of enforcement required. Capital cost would be required to implement camera system. Typically £50k+ per camera plus ongoing revenue charges.
Policy Guidance and Development Control	Air Quality Planning and Policy Guidance	Develop local LES planning guidance (Selby DC) to mitigate emissions from traffic changing and / DEMPs on most developments											IES planning guidance has already been produced for Selby DC. Would be a cost to the Council. The IES planning officers willing to review and consider use in Selby.														LOW	LOW	Mid-t costs associated with officer time to develop and implement guidance.
	Low Emission Strategy	Development of a regional EV charging strategy (WYCC)											WYCC already working with district authorities to develop EV charging. Selby DC is a member of the Local Transport Plan.														HIGH	MEDIUM	High-cost, associated with provision and installation EV charging infrastructure. Requires ongoing management and maintenance costs associated with them. Capital could be contracted out to a third party. Some grants available for infrastructure. Some infrastructure costs be provided via developer contributions.
	Regional Groups Co-ordinating programmes to develop Asks wide Strategies to reduce emissions and improve air quality	Continue to work with YALPAG to agree 'common principles' approach to LES planning measures											Other YALPAG members also working on LES planning guidance. There may be increased costs for developers in meeting the LES planning requirements. Would be a cost to the Council to ensure Selby is not disadvantaged compared to other areas.														LOW	LOW	Mid-t costs associated with officer time to develop and implement guidance.
	Sustainable Procurement Guidance	Investigate opportunities for further developing sustainable procurement policies within SDC and YAVCC											SDC already has a joint procurement strategy with NYCC and Harrogate BC. Would be a cost to the Council (resources to embed sustainability issues into all aspects of the procurement process). The strategy is due for review in 2020 - **this could be an opportunity to strengthen the existing policies.**														LOW	LOW	Mid-t costs associated with officer time to develop and implement guidance.
Promoting Low Emission Transport	Company Vehicle Procurement Policies - Trialling/uptake of low emission vehicles	Work with City of York Council to promote the benefits of electric vehicles to businesses through promotion of short lease demonstrator vehicle scheme											Potential to join promotional with City of York's Council's electric demonstrator vehicle.														LOW	LOW	Initially already available in York. Would cost to officer time to contact businesses and exchange fee.
	Low Emission Zone (LEZ) or Clean Air Zone (CAZ)	Develop a Low Emission Zone or Clean Air Zone where vehicles access would be restricted based on emission standard		Impact on city centre, might be displaced									Safety AUMA: to small and concentrated on a single street. The cost of implementing and enforcing a LEZ / CAZ would be disproportionate to the issue and likely to have a severe detrimental impact on the local economy. A LEZ / CAZ would be difficult to enforce and would have a short / mid- impact as vehicles do not necessarily replace relevant emission points on there Street. Units have to be replaced by the end of 2020 - this is unlikely to be some transport fees are there using New Street.	Depends on scheme restriction	Depends on scheme restriction	Depends on scheme restriction	Depends on scheme restriction	Depends on scheme restriction	Depends on scheme restriction						HIGH	MEDIUM	Considerable of LEZ / CAZ would require a large amount of planning and publicity. Likely to require an extensive feasibility study to be undertaken. Significant investment may be needed for some vehicle operators. Would require ongoing enforcement costs. Capital investment costs would depend on level of compliance and associated road issues.
	Priority parking for ULEVs	Provide priority parking for ULEVs at Selby DC council offices and in other car parks owned by SDC. Update parking policies to reflect this requirement.							See indicative graduation				Could be linked to car club use by SDC staff. May be some environmental / issues around ability to access at the entrance vehicles.														MEDIUM	LOW	Early initial - Investment needed in creation of priority parking bays / signage and publicity. Enforcement costs be contracted out to a third party.
	Procuring alternative refuelling infrastructure to support the operation of fleet vehicles, EV recharging, Gas fuel/ recharing	Provide public EV charging infrastructure in car parks owned by SDC											May be some socio economic impacts associated with low emission vehicle ownership. Amount and type of infrastructure required would be primarily based on expected demand. Funding would be important to ensure that costs are not passed on to LEN planning requirements.														HIGH	MEDIUM	High cost, associated with provision and installation EV charging infrastructure. Requires ongoing management and maintenance costs associated with them. Capital could be contracted out to a third party. Some grants available for infrastructure. Some infrastructure costs be provided via developer contributions.
	Public Vehicle Procurement - Trialling/uptake of low emission vehicles	Review and amend fleet vehicle procurement policies within SDC and NYCC to promote prioritisation of low emission vehicles NO											Low emission vehicles may have higher procurement costs but these can usually be offset via fuel and tax savings. May be some socio economic issues in terms of vehicle ownership moving away from diesel to alternatives. There is also a risk that the second hand market for diesel vehicles (e.g. Hyundai IX1 and Scudetto/range DC vans) may be impacted by the transition. This could be a catalyst to WCC and the city growth an opportunity to further influence some procurement within Selby.			around transport / social transport													
		Review local bus fleet and work with operators to identify which services could be upgraded to low-emission / hybrid services or retrofitted to reduce emissions. Apply for grants to fund upgrades and refresh projects.	Need to review age profile of bus fleet. Understand the 'use-ratio / availability of vehicles. Would be a cost to operators to attend a date as part of a New Street										Low emission vehicles may have higher procurement costs but these can usually be offset via fuel and tax savings. May be some socio economic issues in terms of vehicle ownership moving away from diesel to alternatives. There is also a risk that the second hand market for diesel vehicles (e.g. Hyundai IX1 and Scudetto/range DC vans) may be impacted by the transition. Selby New Street. Need to check progress with DfT to bring on the ground.																
	Taxi emission incentives	Undertake a review of current taxi fleet to identify the emission profile of the vehicles. Investigate use of a taxi incentive grant to promote replacement of vehicles.	ongoing										Low emission vehicles may have higher purchase prices but these can usually be offset via fuel and tax savings. May be some socio economic issues in terms of vehicle ownership moving away from diesel to alternatives. There is also a risk that the second hand market for diesel vehicles (e.g. Hyundai IX1 and Scudetto/range DC vans) may be impacted by the transition. Some Many examples can be cited not showing a relatively modern taxi fleet age - public or private.														LOW	LOW	Mid-t costs associated with officer time to work with taxi operators to review policies, identify opportunities for improvement and apply for grants.
	Taxi Licensing conditions	Review taxi licensing conditions at next renewal to encourage improvements to the emission standards (longer term measure)											Taxi licensing conditions have just been reviewed and updated. Would be a cost to the Council and therefore opportunity for several years.														LOW	LOW	Mid-t costs associated with officer time.
Promoting Travel Alternatives	Encouragin / Facilitate home working	Include home working measures as part of LES planning guidance emission mitigation measures / SDC staff home working								Policy references to up to date/refreshing any SP			Not everyone will be able to access a home suitable for homeworking. Would need to ensure that this is not detrimental to the vitality of town and planning policies. Impact on retail business, provision of facilities / costs for heating homes etc. Would be a cost to the Council to develop and policy at SDC. WYCC do not currently favourite homeworking.														LOW	LOW	Mid-t costs associated with officer time to development and implement policies.
	Intensive active travel campaign & infrastructure	Investigate long term opportunities for segregated cycle routes between Selby and around town centre to drive opportunities distances and time for trips by those modes											WYCC looking for sustainable transport measures in Selby is currently very limited. Any additional measures at a local level will need to be 'bolted on to existing highway links. Funding is currently being explored for a new sustainable travel officer post.														HIGH	MEDIUM	May require significant investment in walking and cycling infrastructure. Would be a cost to the Council. Would be needed to maintain high levels of interest and participation from the public.
	Personalised Travel Planning	Investigate how introduction of on line journey planning tools be use by residents, particularly at new developments (as currently used in Ferrygate)											WYCC looking for sustainable transport measures in Selby is currently very limited. Any additional measures at a local level will need to be 'bolted on to existing highway links. An online journey planning tool has been introduced in Ferrygate and could be considered for Selby if funding was available.														LOW	MEDIUM	Journey planning tools already available from Ferrygate area. Revenue / ongoing costs associated with tools to apply effectively in Selby.
	Promote use of rail and inland waterways	Work with Transpennine express to identify opportunities to further promote use of the railway station in Selby. Identify key steps and action points needed											Some sceptisicism around improved access with parking as Selby railway station are currently taking place with the new platform.														LOW	LOW	At this stage requires ongoing team of staff resource to maintain an ongoing dialogue with rail operators. There could be high future capital and resource costs if a major improvement scheme is implemented.
	Investigate opportunities to promote the use of waterways for movement of goods / construction materials etc			Potential impacts of on city centre to enter the river Ouse	Holding vehicles								**Currently very limited use of the river for movement of goods.**														LOW	LOW	At this stage requires ongoing team of staff resource to **maintain an ongoing dialogue around potential** opportunities. There could be high future capital and resource costs if a major improvement scheme is implemented.
	Promotion of cycling	Investigate opportunities for Park and cycle at Barkby											Links to GE closely and High % - choosing bike (may not be suitable for Selby)														MEDIUM	MEDIUM	Link associated with undertaking of a feasibility study into 'drive till'scheme provision likely to be part of the ongoing scheme costs associated with walking agenda likely to be low.
		All schools within Selby to continue to deliver bikeability training											Existing cycle training provided by schools in Selby including Bikeability. Would be a cost to schools / cycle to school.														MEDIUM	MEDIUM	Programme is already well developed. Requires ongoing staff resources to support the scheme.
	Promotion of walking	Investigate opportunities for Park and Walk site at Barkby											YCC initially advised that there was a benchmark cost of £1m per space for a park and ride site. Would have to begin commercial. Would have to be worthy of **strike investigation.**														LOW	LOW	Low associated with undertaking of a feasibility study into 'drive till'scheme provision likely to be part of the ongoing scheme costs associated with walking agenda likely to be low.
		Investigate opportunities to increase attractiveness of the town centre for cycling / walking in this area. Links to other access remind measures (eg one way, car share only etc)											A journey would be needed to look at 'quality and 'quantity' issues. Would be a cost to the Council. Have to 'input lorries as a result of 'existing' road 'green. Would assist those routes to afford a 'safety is unable to drive.														HIGH	LOW	Costs associated with feasibility study and any future implementation.
	School Travel Plans	Continue active promotion of school travel plans and improve data collection											Some children who live further away may not be able to use active travel modes / public transport														LOW	MEDIUM	Programme is already well developed. Requires ongoing staff resources to support the scheme.
	Workplace Travel Planning	Introduce use of on line journey planning tools for commuter / workforced trips particularly at new business developments											Dependent on funding at WYCC. Not achievable within current budget.														LOW	MEDIUM	Journey planning tools already available from Ferrygate area. Revenue / ongoing costs associated with tools to apply effectively in Selby.
Public Information	Via leaflets	Produce and circulate traffic route maps for lorry businesses											With towns increases for this and a borrowed requirement for this to be considered as part of reducing the risk.														LOW	LOW	Small cost associated with leaflet production and distribution.
	Via radio	Provide air quality information via Radio York											NEI need to determine who will arrange this and when. Will require a significant effort on quality communication strategy.														LOW	LOW	Small cost associated with subject production and time to attend interviews etc.
	Via the Internet	Review SDC web pages relating to air quality / traffic management etc											NEI need to determine who will arrange this and when. Will require a significant effort on quality communication strategy.														LOW	LOW	Mostly time needed to update existing SYC etc
Traffic Management	Anti-idling enforcement	Erect anti-idling signage on New Street											May be some concerns that restricting engines off could be detrimental to the vitality of the city centre / air quality which would impact on congestion on the New Street. Would be advisory signage only in the first instance.														LOW	LOW	Some costs associated with production and placement of signs. At the stage signs to be advisory only.
	Reduction of speed limits, 20mph zones	Introduce 20mph zone NO	Awaiting WP review on safety issues		Traffic flow is already slow moving and congested. Would likely result in no change this.	Current problem is due to slower and stop / go of traffic for the queue							Traffic in New Street is already slow moving and congested. Would likely result in no change to the 20mph zone. Speeding on entrance of 20 Selby **Selby DC to may introduce using based** 20mph zones in the future. Would be a cost to the Council to Unitas.														LOW	LOW	Some costs associated with production and placement of signs. Any enforcement would have to be undertaken **by the police.**
	Road User Charging (RUC) / Congestion charging	Introduce a road user charging scheme on New Street NO											Safety AUMA: to small and concentrated on a single street. The cost of implementing and enforcing congestion charging would be disproportionate to the issue and likely to have a severe detrimental impact on the local economy. Would be difficult to enforce and would have a short / mid- impact as vehicles do not necessarily replace relevant emission points on there Street. Units have to be replaced by the end of 2020 - this is unlikely to be some transport fees are there using New Street.	Depends on scheme restriction	Depends on scheme restriction	Depends on scheme restriction	Depends on scheme restriction	Depends on scheme restriction	Depends on scheme restriction	Depends on scheme restriction	Depends on scheme restriction	Depends on scheme restriction	Depends on scheme restriction	Depends on scheme restriction	HIGH	HIGH	The development and enforcement of a scheme of this type could be significant. Annual enforcement costs would be significant. Annual enforcement costs would depend on level of enforcement required / number of cameras. Road user charging could generate a revenue which can be re-invested in transport and or safety improvement measures.
		Close New Street at peak times											Local traffic management measures at New Street are likely to form a major part of the overall strategy for the Selby Area Action Plan (AAP). A series of feasibility studies are needed to investigate the impacts of any changes to the flow of traffic in the town centre and other parts of the town. Modelling will be required to look at the local and wider effects of any changes. Once these have been fully identified and consulted upon and the AAP has been adopted, a package of measures can be made to happen. Public perception may be that any measures to reduce the flow of traffic and users of low emission vehicles for a greater number of journeys. This could be addressed by potential access charges.	Depends on scheme restriction	Depends on scheme restriction	Depends on scheme restriction	Depends on scheme restriction	Depends on scheme restriction	Depends on scheme restriction	Depends on scheme restriction	Depends on scheme restriction	Depends on scheme restriction	Depends on scheme restriction	Depends on scheme restriction	HIGH	HIGH	
		Make New Street one way (at all times or in peak hours only)																								HIGH	HIGH	
	Strategic highway improvements, or promoting road space away from cars, to improve journey time reliability, particularly for priority, high vehicle occupancy, bus	Two-person only (peak or all the time)																								HIGH	HIGH	
		Electric vehicles only (peak or all the time)																								HIGH	HIGH	
		Bus priority scheme												Some journeys more likely to be delayed	Some journeys more likely to be delayed	Slow response to delay	Slow response to delay	Slow response to delay	Slow response to delay	Some journeys more likely to be delayed	Some journeys more likely to be delayed	Some journeys more likely to be delayed	Some journeys more likely to be delayed	Some journeys more likely to be delayed	HIGH	HIGH	
	Testing Vehicle Simulators	Undertake a further programme of spot checks on bus emissions	Closure already turned out and all vehicles meeting the current										Selby have already undertaken similar activities and to review the outcome of previous campaigns to see if any lessons can be learnt from this. Would be a cost to the Council. Would be some environmental impacts relating to independent fuel already meeting their minimum.														LOW	MEDIUM	Selby DC has already undertaken testing at this type and already has the facilities in place. Main cost would be for staff resources.
	UTMC, Congestion management, traffic reduction	Introduce a wider UTMC system across the town centre area which is responsive to local pollution levels - to include use of VMS signs to divert traffic away from areas where the network or particular is particularly high											The need for a UTMC system in Selby is fully understood and would be a cost to the Council. Cost of funding / introduction of a UTMC system will be considered as part of the Selby AAP. Would need study to inform future AQAP development.														HIGH	LOW	A large amount of financial investment is needed to establish a UTMC system in Selby and would have ongoing running and maintenance costs.
	Workplace Parking Levy, Parking Enforcement on Highway	Introduce a workplace parking charge in Selby	No information currently held on costs of workplace charging							Impact on paper business			Measures likely to be highly objected and may impact on the local economy. SD study indicates that a workplace parking charge would not be an intervention to the air quality issues on New Street. To be considered further, only if other measures are not successful.														HIGH	MEDIUM	Numbers of the type would have high set up costs and ongoing maintenance costs. Revenue costs would be generated for reinvestment in transport and air quality measures.
Transport Planning and Infrastructure	Bus route improvements	Review bus routes and identify opportunities for re-routing away from New Street	Bus routes are already operating on New Street and there is a number of existing services that could be rerouted	Existing routes along York Road, Bridge Street and Ousegate	would need further consideration				buses may need to travel further				Would need public transport objectives													LOW	LOW	There is little further work that could be done with regard to bus routes in Selby. Consideration could be given to altering the current demand pick up/drop off locations to where buses run the operation.
	Cycle network	Continue delivery of improved cycle networks (dependent on developer and SUSTRANS funding)											Need to review planned cycle route exits to determine what is planned and by when.													HIGH	LOW	Cyclic routes require high capital investment and have ongoing maintenance costs associated with them.
	Public cycle hire scheme	Continue roll out of 'WELCOME TO YORKSHIRE' bonne-bike scheme											Scheme already operational in some areas													MEDIUM	MEDIUM	Some costs associated with setting up the scheme and commissioning them in the longer term. Mean also require ongoing maintenance costs.
Vehicle Fleet Efficiency	Driver training and ECO driving aids	Undertake further training on eco-driving techniques											SDC already undertaken some driver training. SDC will pursue further opportunities to undertake further eco-driver training.							Awarding / skills updated mobile local			Awarding / skills updated mobile local		LOW	LOW	Some costs associated with using the eco driving scheme / and organising / signing administration.
	Fleet efficiency and recognition schemes	Introduce a fleet recognition scheme											This would involve introducing a fleet recognition scheme such as ECO Stars in Selby. It has been identified that there is a need for a scheme of this ongoing investment to keep schemes running. Would be a cost to the Council. Would be the success of the scheme there are in Selby.														MEDIUM	MEDIUM	Initial start up costs associated with fleet recognition scheme. Ongoing costs associated with the scheme approach to re-grading, monitoring as well as and each particular fleet vehicle.
	Promoting Low Emission Public Transport	Develop a low-emission vehicle marketing strategy											This measure would involve drawing up a plan for the ongoing promotion and favorisation of low emission vehicles in Selby. This would include target audiences, measuring leadership, communication methods and timescales involved. As the AQAP will identify specific course initiatives to follow in further versions of the AQAP.														LOW	LOW	Main costs associated with officer time to develop and promote the strategy.
	Vehicle Retrofitting programmes	Feasibility study to consider bus services that may be retrofitting with emissions abatement technology. Identify potential funding sources for such upgrades.	Funding Incumbent										The would be a feasibility project only looking at the potential for retrofitting vehicles. Would be a cost to the Council. Funding opportunities to carry out retrofitting. It is noted schemes could be developed in other areas of the country. Would be a cost to the Council. Would be the success of the scheme there are in Selby. Would be a cost to operators