NORTH STAFFORDSHIRE LOCAL AIR QUALITY PLAN

UNAPPROVED OUTLINE BUSINESS CASE APPENDIX 10 - Appraisal Summary Table - Benchmark CAZ D









Note with the set of	Appr	aisal Summary Table		Date Produced: 15 May 2020		Contact:	
Image: set in the set of the set		Name of Scheme:	North Staffordshire Local Air Quality Plan			Name	
		Description of Pal	tasked with producing a joint plan. As the highway authority for the Newcastle-under-Lyme area, Staffordshire County Council has been assisting the authorities and together, the three authorities have developed a plan to tackle NO ₂ exceedances at the roadside – known as the North Staffordshire Local Organise				
		Description of Scheme:	in the shortest possible time.				
Unit of the set of t			This Appraisal Summary Table presents the appraisal results for the NSLAQP Benchmark Charging Clean Air Zone.				
Number Control Control <t< td=""><td></td><td></td><td></td><td></td><td>Assessment</td><td></td></t<>					Assessment		
Note of the second se		Impacts	Summary of Key Impacts	Quantitative (£000's)	Qualitative	Monetary £(000's NP	
	Economy	Providers	Increased vehicle operating costs amounting to +£0.8m PV. The introduction of the CAZ D user charge will disbenefit users by +£80.7m PV, giving an overall net disbenefit of +£71.7m PV. The Benchmark CAZ D would significantly impact all businesses based within the charging area, the immediate surrounding area and North Staffordshire as a whole. Those that rely on vehicles to move goods and services would be most affected as an introduction of a charge would increase businesses' costs. In order to avoid paying the CAZ charge, businesses will need to upgrade their vehicles to a compliant standard or adopt another approach such as altering their supply routes or supplier, relocating their business or exiting the market altogether. Micro and small businesses are also likely to be at greater risk from the implementation of the Benchmark CAZ D as they are less likely to have the available capital to purchase a compliant vehicle, they do not have large fleets where non-compliant vehicles could be redistributed to operating in areas outside of the CAZ boundary and they are more likely to have locuely-focused operations therefore facing the charge more frequently. This is of significant importance in North Staffordshire as 92% of al businesses based within the CAZ boundary are classified as micro or small businesses. Taxi drivers are noted to be some of the poorest in the community and so any additional cost to their operation would place further strain on their businesses and families. It is anticipated that there will only be a limited impact on bus operators as the CAZ charge has been purposely set at a level where the charge can be	-£71,702	Moderate Adverse	-£71,702	
Notice Notice No. No. No. No. No			Journey time reliability has not been assessed as part of the project.	N/A	N/A	N/A	
No.		-					
Image: Problem in the integration where the any problem is the state the any problem is any problem is provide in the state the state the any problem is any problem is provide in the state the s		Wider Impacts		N/A	N/A	N/A	
Image: space bit space is a space	ental	Noise	vehicles being replaced with newer vehicles that are subject to tighter noise limits in accordance with Regulation (EU) No 540/2014. However, these changes are small. Therefore, there are not to be any perceivable changes in noise levels.	N/A	Neutral	N/A	
Nome Control C		Air Quality	With the introduction of the CAZ D, non-compliant vehicles are likely to be discouraged from entering the charging zone. There is a resultant reduction in the impact of air pollution across all sensitive receptors, specifically for residential education. This is as a result of both Staffordshire University and Keele University being positively impacted. The analysis suggests that the Benchmark CAZ D will not have a disproportionate impact on any vulnerable group although it can be noted that	NO _x Change: £8,543	Moderate Beneficial	£18,868	
Processor Servation Name	Environm	Greenhouse Gases			N/A	£8,449	
Hutch increased Hutch increased at part of Express N/I N/I N/I N/I N/I Relation for the machine and an increased approximation of the propert. N/IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		· · ·					
Notice Notice No. N							
Water betweender Water concentration target of the project. NA NA NA Water betweender Main concentration target of the project. NA NA NA NA Omminging weight of the function Descentration target of the project. NA							
Promine and Other Use Profile and Provide And Prov		· · · · ·		N/A	N/A		
ard bort cm <		Commuting and Other Users	to £23.2m PV and £25.2m PV, respectively. The introduction of the CAZ D user charge will disbenefit users by -£126.0m PV, giving an overall net disbenefit of -£77.6m PV. The population predicted to disbenefit the most from the implementation of the Benchmark CAZ D lives within the CAZ boundary or its vicinity. This population is relatively poor and so these impacts will be exacerbated. The analysis suggests that a	-£77,581	Large Adverse	-£77,581	
Number Approximation Approximation </td <td rowspan="5">Social</td> <td></td> <td>Journey time reliability has not been assessed as part of this project.</td> <td>N/A</td> <td>N/A</td> <td>N/A</td>	Social		Journey time reliability has not been assessed as part of this project.	N/A	N/A	N/A	
Physical Activity The impact of active travel and so physical activity as a result of the Benchmark CA2D are likely to be limited as the option does not directly incomisive modal with towards active travel. NA NA Physical Activity The impact of active travel and so physical activity as a result of the Benchmark CA2D are likely to be limited as the option does not directly incomisive modal with towards active travel. NA NA NA Physical Activity The impact of active travel and so physical activity as a result of the Benchmark CA2D are likely to be limited as the optiones optiones apprecises. Physical Activity NA Neutral NA Physical Activity The Benchmark CA2D associations with a registered disability, these groups will not benefit asproportion of the involuted and with physical activity when using public transportion and the CA2 boundary score sees for the under 16 group. NA Neutral NA Accounts The Benchmark CA2D option folds account and the CA2 boundary as the charge paper transportion of the involuted and with physical activity when using public transport. NA NA NA Accounts The Benchmark CA2D public fields accountage use greater discounts the option of the involuted active see for the under 16 group. NA NA NA Accounts The Benchmark CA2D public fields accountage use greater discounts the secontage papeer din douto does active active active actin attraspore trans		Welfare and Upgrade Impacts	approximately -£27.0m PV in the Benchmark CAZ D scenario. This demonstrates that there is a significant loss in welfare to the user. As a result of the Benchmark CAZ D some vehicle owners will respond to the CAZ charge by either scrapping and buying a new compliant vehicle, or by selling their non-compliant vehicle and replacing it with a second-hand compliant vehicle. The	-£53,446	N/A	-£53,446	
Journey Quality The impacts on journey quality as a result of the Benchmark CAZ D are likely to be limited as the option does not directly improve journey quality. NA Neutral NA Import Accidents The Benchmark CAZ D are likely to be limited as the option does not disectly improve journey quality as a result of the Benchmark CAZ D are likely to be limited as the option does not disectly improve for the sectors in traffic flow under this option. As the CAZ bundary encompasses an area NA Na Na Import The Benchmark CAZ D are likely to be limited as the option does not disable, where are precided does precision as intraffic flow under this option. As the CAZ bundary encompasses an area NA Na Na Security The Benchmark CAZ D does not include any measure that will directly affect ecurity when using public transport. The CAZ bundary estimation affect were security when using public transport. NA Na Na Access to Services The Benchmark CAZ D signific and under able groups and under the date group and under the date groups and under the date group an		Discustored Acabelia		b 1/4	Manatari	51/A	
No. The Benchmark CAZ D is substantially more aggressive, and as a result 9.3% of all model inks in the modelied domain are predicted to experience significant reductions in taffic flows under this option. As the CAZ boundary encompasses an area with a high proportion of residents with a registered disability, these groups will benefit disproportionately from the scheme. The over 65 group will not benefit as much as other groups, whils no NA Moderate Beneficial NA Security The Benchmark CAZ D does not include any measures that will directly affect security when using public transport. NA NA NA NA Accidents The Benchmark CAZ D might reduce accessibility for all vulnerable groups traveling into a ranout the CAZ boundary as the charge anyline to base hos differenties to any asset of the Benchmark CAZ D. NA NA NA Affordability The disenchmark CAZ D might reduce accessibility of all vulnerable groups traveling base for disense to base hos disentered base hos disencempte to an obtae host and base disencempte to base host disenterees to base host disenteres to base host disenteres base host disencempte to base host disenteres to base host distenteres base host disenteres to base host distenteres base host disenteres base host disenteres base host distenteres host host host host distenteres base host distenteres host host host host host host host distente host host host host host host host host						_	
Image: Normal content is preventioned on the conten the top prevention on the content is preventioned		Accidents	with a high proportion of low-income households and a high proportion of residents with a registered disability, these groups will benefit disproportionately from the scheme. The over 65 group will not benefit as much as other groups, whilst no	24		N/A	
Access to Services This may include people with limited mobility, who might prefer the controt of a private vehicle but with accessibility restrictions may be forced to use alternative modes of transport or to destination. The destination. The destination. The disbenefits to users as a result of the Benchmark CAZ D, suggests that a higher proportion of costs will all prefers the cost and restriction of costs will all prefers the cost and restriction of costs will all prefers the cost and restrictions may be forced to use alternative modes of transport to use and minimal prices. This head therefore have a minimal price or users as a result of the Benchmark CAZ D, suggests that a higher proportion of costs will all prefers the area more deprived households. It was found therefore have a minimal price or uses and weed will prefers the area or will prefers the prefers or uses and regreter uses of costs will all prefers the area more indeprived of deprivation, greater numbers of elder presidents and those will disabilities. It is again important to number of the destination. The disbenefits to users as a result of the Benchmark CAZ D leads to moderate changes in traffic flows across a wide area in the model domain, particularly around the CIV Centre. In particularly and therefore have an even greater impact. NA NA NA NA Severance The Benchmark CAZ D leads to moderate changes in traffic flows across a wide area in the model domain, particularly around the CIV Centre. In particularly the wide and prefers on the model domain. NA NA NA Severance The Benchmark CAZ D leads to moderate changes in traffic flows across a wide area in the model domain, particularly around the CAS Doundary needs to severance are also noticed along a number of routes around the model domain.		Security	The Benchmark CAZ D does not include any measures that will directly affect security when using public transport.	N/A	Neutral	N/A	
Affordability and are more likely to own non-compliant cars. This therefore suggests that a higher proportion of costs will fall greates to areas with greater levels of deprivation, greater numbers of elderly residents and those with disabilities. It is again important NA Large Adverse NA Affordability and are more likely to own non-compliant cars. This therefore suggests that a higher proportion of costs will fall greates to areas with greater levels of deprivation, greater numbers of elderly residents and those with disabilities. It is again important NA Large Adverse NA Affordability and are more likely to own non-compliant cars. This therefore suggests that a higher proportion of costs will fall greates to areas with greater levels of deprivation, greater numbers of elderly residents and those with disabilities. It is again important NA Large Adverse NA Large Adverse NA Affordability and are more likely to own non-compliant cars. This therefore suggests that a higher proportion of costs will fall greates on areas with greater levels of deprivation, greater numbers of elderly residents and those with disabilities. It is again important NA Large Adverse NA NA severance The Benchmark CAZ D leads to moderate changes in traffic flows across a wide area in the model domain, particular, relevance are also noticed along a number of routes around the model domain. NA		Access to Services	This may include people with limited mobility, children or the elderly, who might prefer the comfort of a private vehicle but with accessibility restrictions may be forced to use alternative modes of transport or to change their route or destination. The	N/A	Slight Adverse	N/A	
Severance City Centre, will improve accessibility to the wide range of amenities located there and affects all groups. Smaller improvements in severance are also noticed along a number of routes around the model domain. NA Slight Beneficial NA V Option and Non-Use Values Option and non-use values has not been assessed as part of this project. NA N		Affordability	and are more likely to own non-compliant cars. This therefore suggests that a higher proportion of costs will fall greatest on areas with greater levels of deprivation, greater numbers of elderly residents and those with disabilities. It is again important	N/A	Large Adverse	N/A	
Image: Contransport Budget The Benchmark CAZ will require an investment in the transport network of £198.6m. Revenues are treated as part of wider public finances for appraisal purposes. When the potential revenues from the introduction of the CAZ D charge of £203.2m Implementation costs of £198,561 offset by public sector revenue of £203.191 N/A £198,561 costs, of £198,561 costs, of £198,561 offset by public sector revenue of £203,191		Severance	City Centre, will improve accessibility to the wide range of amenities located there and affects all groups. Smaller improvements in severance are also noticed along a number of routes around the model domain. However, displacement of traffic around the CAZ boundary leads to some areas of adverse impact. Of particular relevance are impacts on North Road, which will impact access to North Road Academy and Honey Bears Day Nursery, which are	N/A	Slight Beneficial	N/A	
PV are offset against costs, the overall PV of net costs is -£4.6m.		Option and Non-Use Values	Option and non-use values has not been assessed as part of this project.	N/A	N/A	N/A	
As a result of significant changes to vehicle routing and the subsequent impact on travel times and fuel consumption, there will be an indirect taxation cost to the government of £23.4m PV£23,399 N/A -£23,399	ublic		The Benchmark CAZ will require an investment in the transport network of £198.6m. Revenues are treated as part of wider public finances for appraisal purposes. When the potential revenues from the introduction of the CAZ D charge of £203.2m		N/A	£198,561 costs, o £203,191 reve	
	Ac P	Indirect Tax Revenues	As a result of significant changes to vehicle routing and the subsequent impact on travel times and fuel consumption, there will be an indirect taxation cost to the government of £23.4m PV.	-£23,399	N/A	-£23,399	

	Contact:	
	Name	Nesta Barker
another, they were taffordshire Local	Organisation	Newcastle-under-Lyme
thin statutory limits	Role	Senior Responsible Officer
Assessment		
Qualitative	Monetary £(000's NPV)	Distributional 7-pt Scale / Vulnerable Group
oderate Adverse	-£71,702	Moderate adverse impact to businesses.
N/A	N/A	
N/A	N/A	
N/A	N/A	
Neutral	N/A	No vulnerable groups are adversely affected.
derate Beneficial	£18,868	Moderate beneficial outcome for all vulnerable groups.
N/A	£8,449	
N/A	N/A	
Large Adverse	-£77,581	Large adverse impact on all vulnerable groups.
N/A	N/A	
N/A	-£53,446	
Neutral	N/A	
Neutral derate Beneficial	N/A	Moderate beneficial impact on low-income households and the disabled. The elderly and under 16 are expected to be impacted to a lesser degree.
Neutral	N/A	No vulnerable groups are adversely affected.
Slight Adverse	N/A	Slight adverse impact to all vulnerable groups.
Large Adverse	N/A	Large adverse impact to all vulnerable groups.
light Beneficial	N/A	Slight beneficial outcome for the majority of vulnerable groups, with children experiencing a slight adverse impact.
N/A	N/A	
N/A	£198,561 costs, offset by £203,191 revenue	
N/A	-£23,399	