

Report of: Environmental Advisory Service Manager

Report to: Chief Officer Highways and Transportation

Date: 25th May 2016

Subject: Automatic Number Plate Recognition (ANPR) Data Emissions Modelling and Clean Air Zone feasibility

Are specific electoral Wards affected? If relevant, name(s) of Ward(s):	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are there implications for equality and diversity and cohesion and integration?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is the decision eligible for Call-In?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Does the report contain confidential or exempt information? If relevant, Access to Information Procedure Rule number: Appendix number: 10.4 (3) Appendix number:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

Summary of main issues

Leeds City Council has been named in the UK Governments Plan to improve Air Quality as requiring a Clean Air Zone in order to reduce public exposure to emissions from transport.

Work between Leeds City Council and a joint DEFRA/DfT Air Quality Unit is progressing with scoping work to determine the location, classification and size of the Clean Air Zone (CAZ) that Leeds will need to implement in order to be compliant with the government's targets for Air Quality.

Leeds City Council is in receipt of two separate DEFRA Air Quality Capital Grants. One for £39,850 allocated specifically to support the delivery of detailed emission modelling on the Inner Ring Road. A further grant of £50,000 was awarded for CAZ feasibility study work.

The two grants will be used to provide the required budget to complete the purchase requested in this procurement of :-

- Automatic Number Plate Recognition (ANPR) data collection at 11 sites across Leeds and classified traffic counts at 4 further sites.
- Telematics data purchase from an insurance company
- Detailed emission modelling by Leeds University's ITS.
- Communication and Engagement activity to raise awareness of the health impacts from poor Air Quality.
- Engagement with the business community and assessment of the economic impacts of introduction of a CAZ.

ANPR and Traffic count data is required to determine accurate and reliable information to effectively model the local vehicle fleet profiles, flows and volumes at key locations

within Leeds. The ANPR data will provide details of vehicle categories, classifications and volumes that will further enable assessment of emission reductions that will be required to meet Air Quality targets.

Accurately determining the profiles of vehicles in Leeds at key locations will enable the requirement to implement a Clean Air Zone within the city to be robustly assessed and the most appropriate measures determined.

To meet the very tight deadlines that the authority is working to in order to meet DEFRA timelines and to reduce procurement costs, it is proposed that the authority utilise an existing framework contract to award this tender.

Recommendations

The Chief Officer Highways and Transportation is requested to:-

- i) Approve the request to commence a procurement exercise through the existing call off framework contract to collect ANPR data at 11 sites to be carried out by the end of June 2016;
- ii) Approve the purchase of telematics Data via Leeds University's ITS and appoint ITS to subsequently complete a detailed traffic emissions analysis of The Inner Ring Road;
- iii) Approve the commencement of business community engagement activities in relation to the future Introduction of a CAZ in Leeds;
- iv) Approve the commencement of raising awareness of the links between health and Air quality;
- v) Authorise expenditure of £89,850 to be funded via the DEFRA air quality capital grant award.

1. Purpose of this report

1.1 The purpose of this report is to seek approval to incur expenditure of £89,850 which will be funded via the DEFRA Air Quality Capital Grant award to support activities related to the scoping study for the future implementation of a Leeds CAZ.

1.2 To commence a procurement exercise for the supply of ANPR data, the purchase of telematics for the vehicles traveling through the network during the ANPR analysis period and for the Institute of Transport Studies to analyse the data and apply a detailed emission model to it.

1.3 Commence communication and engagement activities to raise awareness of the impacts to the local business community and the links between health and Air Quality

2. Background information

2.1 Leeds City Council has 7 breakthrough projects; one of which is 'Cutting Carbon and Improving Air Quality'. Work has been undertaken over the last 18 months to identify opportunities to reduce emissions from Transport activities within the authorities own fleet and beyond.

- 2.2 Work has been undertaken to review the authorities own fleet, support bus and taxi operators in considering low emission vehicles and identify opportunities to improve public health through delivering projects that encourage active travel.
- 2.3 Leeds is now being mandated by central government to introduce a Clean Air Zone (CAZ) in the city that will further encourage a transition towards lower emission vehicles being operated by commercial fleets, including HGV's, LGV's, Buses and taxi and private hire vehicles.
- 2.4 In order to accurately complete analysis work to model the required CAZ interventions, ANPR data and the detailed analysis of this information is required.
- 2.5 Implementation of a CAZ within Leeds will have impacts on those who own non-compliant vehicles. In order to minimise those impacts and cause the least amount of disruption a communication and engagement campaign is required help the business community make informed decisions in their future vehicle procurement.
- 2.6 Communicating the impact of transport on air quality and the impact of the air quality on people's health will be key to helping the business community accept the reasons why a CAZ is being implemented .

3. Main issues

- 3.1 Leeds will undertake a detailed study of emissions and traffic flow on our Inner Ring Road and further sites in relation to the proposed Clean Air Zone (CAZ) in Leeds.
- 3.2 The study will include ANPR analysis of specified road links with data collection over a specified period of time at each link.
- 3.3 This will be followed by the purchase of telematics data for vehicles travelling through the network at those locations during the specified dates.
- 3.4 Analysis of this purchased data will be commissioned that will provide emission and traffic modelling.
- 3.5 The ANPR and classified traffic count data collection for the Inner Ring Road will be at a cost of C£8,000. The associated telematics data for this area will cost £10,000.
- 3.6 Further ANPR data in relation to the additional locations that require survey to support the CAZ scoping study are required at a cost of £32,575.
- 3.7 The finance will be provided by the budget allocated to Leeds by DEFRA through two separate Air Quality Grants. One grant for £39,850 was allocated specifically to support the delivery of emission modelling on the Inner Ring Road. This budget will be used in full to deliver this procurement. A further grant of £50,000 was awarded for CAZ feasibility study work. The combined £89,850 grant award will be used to provide the required budget to complete the activities outlined in this report.
- 3.8 The existing framework is OJEU (Official Journal of the European Union) compliant and satisfies Contract Standing Orders.

4. Corporate Considerations

4.1 Consultation and Engagement

- 4.1.1 The scoping work for a Clean Air Zone is being delivered across service areas with officers reporting to the Low Emission Zone Board. Engagement with key stakeholders with Fleets has been initiated.
- 4.1.2 The decision to tender the contract for ANPR data and traffic counts via the existing framework has been discussed with Procurement and raised at the Low Emission Zone (LEZ) and was approved and recommended as the way forward.
- 4.1.3 The Chief Highways Officer has been consulted and is fully aware of the immediate requirement to procure the data collection exercise as quickly as possible.

4.2 Equality and Diversity / Cohesion and Integration

- 4.2.1 An equality, diversity and cohesion screening document has been undertaken and it is not considered that the content of this report or the recommendations made will have any impact on any specific group or individuals.

4.3 Council policies and City Priorities

- 4.3.1 The outcomes from the procurement provided for by this report will contribute to the Councils business plan through spending money wisely and supporting healthier lifestyles through encouraging cleaner transport modes.

4.4 Resources and value for money

- 4.4.1 The Traffic data collection contract is to be delivered via an existing framework that has been established in order to ensure best value is achieved for the authority.
- 4.4.2 The budget for this tender is being provided through funding secured from DEFRA by two successful bids for Air Quality Grants. On specifically designed for analysis and modelling on the Inner Ring Road.

4.5 Legal Implications, Access to Information and Call In

- 4.5.1 This is classified as an administrative delegated decision. No call in period applies.

4.6 Risk Management

- 4.6.1 Risk to the Authority if this is not actioned is the failure to have sufficient data within the required timelines to effectively complete robust scoping work for the Clean Air Zone in line with the timescales being demanded by DEFRA. This would risk impacting on the authorities' ability to deliver and implement a Clean Air Zone before 2020 as mandated by central government.

5. Conclusions

- 5.1 Approval is sought from the Chief Officer (highways and transportation) for Environmental Studies to commence and execute the required procurement exercise on behalf of Leeds City Council.

- 5.2 Approval is sought to incur expenditure of £40,575, on data collection to inform the Clean Air Zone Scoping study to be funded via the DEFRA Air Quality Grant funding.
- 5.3 Approval is sought to incur expenditure of £10,000 to fund the purchase of telematics data from an insurance company through Leeds University ITS to be funded via the DEFRA Air Quality Grant funding.
- 5.4 To approve the expenditure of the remaining balance of the DEFRA Air Quality Grant of £39,275 to be allocated to the following activities:
- 5.4.1 The emission modelling and analysis activities undertaken by the Leeds University ITS to complete the detailed study of the Inner Ring Road as outlined in the successful Air Quality grant funding application (approximately £20,000)
- 5.4.2 Implement communication and engagement campaign developed to fit in with the remaining budget.

6. Recommendations

- 6.1 The Chief Officer Highways and Transportation is requested to:-
- i) Approve the request to commence a procurement exercise through the existing call off framework contract to collect ANPR data at 11 sites to be carried out by the end of June 2016;
 - ii) Approve the purchase of telematics Data via Leeds University's ITS and appoint ITS to subsequently complete a detailed traffic emissions analysis of The Inner Ring Road;
 - iii) Approve the commencement of business community engagement activities in relation to the future Introduction of a CAZ in Leeds;
 - iv) Approve the commencement of raising awareness of the links between health and Air quality;
 - v) Authorise the expenditure of £89,850 to be funded via the DEFRA air quality capital grant award.

7. Background documents¹

- 7.1 None

¹ The background documents listed in this section are available to download from the Council's website, unless they contain confidential or exempt information. The list of background documents does not include published works.