

2EN3 Stage 2 - Traffic Noise and Air Quality

QC Checklist for DNR NOISE ANALYSIS WORK PLAN

SPOT ID/Project TIP #: _____

County: _____

Note: This QC checklist is for the initial submittal only. For subsequent submittals, the Comment/Response matrix will serve as QC checklist.

Item #	Review Item	Yes	No	N/A
QC.1	Reporting			
QC.1.1	Prepared by a traffic noise analyst prequalified with NCDOT to prepare DNRs.			
QC.1.2	The Noise Analysis Work Plan Template has been followed.			
QC.1.2.1	Includes project location, proposed improvements, project length, existing base year, and design year.			
QC.1.2.2	Design speed has been confirmed and identified and aligns with most current design criteria.			
QC.1.2.3	Explains why the project is a Type I for noise study purposes.			
QC.1.2.4	Includes a sufficient discussion of all primary types of land uses (NAC category) in the study area.			
QC.1.2.5	Includes commitment to verify certain info in field (duplicate or missing address info, NAC category for uncertain buildings, receptor locations, etc.), areas of frequent human use at special land use locations, number of units at multi-family residential buildings.			
QC.1.2.6	Identifies DOPK. Includes a discussion of new development permitted before DOPK not included in TNR.			
QC.1.2.7	Includes a discussion of any new development permitted after the DOPK and therefore not included in analysis.			
QC.1.2.8	Discusses any areas where model validation isn't needed (for new locations projects).			
QC.1.2.9	Non-residential noise sensitive land uses where ER calculations are anticipated have been identified.			
QC.1.3	Must be approved by NCDOT prior to initiation of any noise measurements or modeling.			
QC.1.4	Green Sheet Commitments from the final Environmental Document have been reviewed for noise specific commitments. If any, they are documented in the Work Plan.			

Item #	Review Item	Yes	No	N/A
QC.1.5	Project traffic forecast shows no “extreme” directional splits as defined in the Manual (i.e. 65% directional factor, or greater). If there are extreme directional splits, coordination with the Traffic Noise and Air Quality Group has occurred to determine the best traffic calculation method.			
QC.2	Figures			
QC.2.1	Figures show appropriate number and location of proposed short-term and long-term noise monitoring sites, and number of SLMs per site, as applicable, indicated with white dots on the figures (can be adjusted in the field if needed). Include reason(s) for any long-term measurements, as applicable.			
QC.2.2	Figures include all receptor locations and the associated noise abatement criteria (NAC) activity category for each location, including black dots for NAC F and other non-noise sensitive land uses.			
QC.2.3	Receptors are placed on all new (not included in TNR) noise-sensitive development permitted on or before DOPK.			
QC.2.4	New development permitted after DOPK is clearly identified on the figures.			
QC.2.5	Proposed spatial limits of traffic noise study area generally follow guidance from the applicable NCDOT Traffic Noise Manual (may need to be expanded following the initial noise modeling effort if the outer limit of predicted traffic noise impacts and/or benefits is not defined).			
QC.2.6	Project mapping represents entire project (study area) on one image (Vicinity Map).			
QC.2.7	Figures include aerial photogrammetry.			
QC.2.8	Figures include a logical scale or denoted as being not to scale.			
QC.2.9	NSA boundaries are shown.			
QC.2.10	Proposed design is shown.			

For items marked NO or N/A that require further explanation, provide comments or action items in the table below.

Item #	Comments and Action Items

This checklist may not be comprehensive to every project. All items may not be applicable for smaller projects. It is the responsibility of the reviewer to ensure that an adequate review is performed.

I have reviewed the deliverables for consistency with this checklist and confirmed that all items have been completed.

QC Reviewer Name: _____ **Date:** _____

QC Reviewer (Signature): _____