

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 2/21/2024
Case Description: Site Preparation

Description **Land Use**
 Site Preparation Residential

| Description | Impact Device | Usage(%) | Equipment | | Receptor Distance (feet) |
|-------------|---------------|----------|-----------------|-------------------|--------------------------|
| | | | Spec Lmax (dBA) | Actual Lmax (dBA) | |
| Dozer | No | 40 | | 81.7 | 380 |
| Dozer | No | 40 | | 81.7 | 380 |
| Dozer | No | 40 | | 81.7 | 380 |
| Tractor | No | 40 | 84 | | 380 |
| Tractor | No | 40 | 84 | | 380 |
| Tractor | No | 40 | 84 | | 380 |
| Tractor | No | 40 | 84 | | 380 |

Calculated (dBA)

| Equipment | *Lmax | Leq |
|--------------|-------------|-----------|
| Dozer | 64.1 | 60.1 |
| Dozer | 64.1 | 60.1 |
| Dozer | 64.1 | 60.1 |
| Tractor | 66.4 | 62.4 |
| Tractor | 66.4 | 62.4 |
| Tractor | 66.4 | 62.4 |
| Tractor | 66.4 | 62.4 |
| Total | 66.4 | 70 |

*Calculated Lmax is the Loudest value.

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Report date: 2/21/2024
Case Description: Grading

Description **Land Use**
 Grading Residential

| Description | Impact Device | Usage(%) | Equipment | | Receptor Distance (feet) |
|-------------|---------------|----------|-----------------|-------------------|--------------------------|
| | | | Spec Lmax (dBA) | Actual Lmax (dBA) | |
| Grader | No | 40 | 85 | | 380 |
| Excavator | No | 40 | | 80.7 | 380 |
| Dozer | No | 40 | | 81.7 | 380 |
| Tractor | No | 40 | 84 | | 380 |
| Tractor | No | 40 | 84 | | 380 |
| Tractor | No | 40 | 84 | | 380 |
| Dozer | No | 40 | | 81.7 | 380 |

Calculated (dBA)

| Equipment | *Lmax | Leq |
|--------------|-------------|-------------|
| Grader | 67.4 | 63.4 |
| Excavator | 63.1 | 59.1 |
| Dozer | 64.1 | 60.1 |
| Tractor | 66.4 | 62.4 |
| Tractor | 66.4 | 62.4 |
| Tractor | 66.4 | 62.4 |
| Dozer | 64.1 | 60.1 |
| Total | 67.4 | 70.1 |

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 2/21/2024
Case Description: Paving and Painting

Description **Land Use**
Paving and Painting Residential

| Description | Impact Device | Usage(%) | Equipment | | Receptor Distance (feet) |
|--------------------|---------------|----------|-----------------|-------------------|--------------------------|
| | | | Spec Lmax (dBA) | Actual Lmax (dBA) | |
| Paver | No | 50 | | 77.2 | 380 |
| Paver | No | 50 | | 77.2 | 380 |
| Pavement Scarafier | No | 20 | | 89.5 | 380 |
| Pavement Scarafier | No | 20 | | 89.5 | 380 |
| Roller | No | 20 | | 80 | 380 |
| Roller | No | 20 | | 80 | 380 |
| Compressor (air) | No | 40 | | 77.7 | 380 |

Calculated (dBA)

| Equipment | *Lmax | Leq |
|--------------------|-------------|-------------|
| Paver | 59.6 | 56.6 |
| Paver | 59.6 | 56.6 |
| Pavement Scarafier | 71.9 | 64.9 |
| Pavement Scarafier | 71.9 | 64.9 |
| Roller | 62.4 | 55.4 |
| Roller | 62.4 | 55.4 |
| Compressor (air) | 60.1 | 56.1 |
| Total | 71.9 | 69.1 |

*Calculated Lmax is the Loudest value.