

Anticipated noise levels of equipment used for the NWR South Strategic Pavement Preservation Project XL6747

Item #	Equipment	Sound level (dBA) at 50ft	Sound level (dBA) at 100ft	Sound level (dBA) at 300ft	Sound level (dBA) at 500ft	Type of Construction work	Mitigation measures
1	Backhoe / Excavator	76	70	60	56	Digging and scooping materials	1. All trucks performing export haul shall have well maintained bed liners as inspected and accepted by the Engineer. 2. Truck tailgate banging is prohibited. All truck tailgates shall be secured to prevent excessive noise from banging. 3. A copy of the noise exemption shall be kept on the project site at all times. 4. Written notifications detailing the anticipated work schedule, project duration, and a 24-hour noise complaint number will be sent to all residents and businesses located within 500 feet of the project boundary, at least 14 calendar days prior to any anticipated nighttime construction work. 5. Contractor and WSDOT personnel must refrain from parking and idling vehicles near residential areas.
2	Backup and Movement alarm	79	73	64	59	Pouring concrete, warning for work site	
3	Ground Compactor	75	69	59	55	Compacting and flattening surfaces	
4	Air Compressor	66	60	50	46	Generating power	
5	Diamond Concrete Grinder	68	62	52	48	Pavement preservation technique to correct surface imperfections	
6	Concrete Mixer Truck	81	75	66	61	Pouring concrete	
7	Concrete Saw	85	79	70	65	Cutting concrete and pavement	
8	Flatbed Truck	74	71	66	64	Transporting people and materials	
9	Generator	67	61	52	47	Generating power / Generator	
10	Jackhammer	91	85	75	71	Breaking, Breaking asphalt, Breaking concrete	
11	Joint Sealer	74	71	66	64	Seals joints	
12	Light Tower	61	55	45	41	Generates light	
13	Asphalt Paver	83	80	75	73	Paving asphalt	
14	Dump Truck	82	76	66	62	Transporting materials (idle)	
15	Material transfer Vehicle	73	70	65	63	Transporting materials (moving)	
16	Concrete paving -Texturing and Curing Machine	73	67	58	53	Sealing concrete	
17	Power Tool – Air Hose	93	87	77	73	Clearing debris	
18	Power Tool – Grinder	68	62	52	48	Grinding metal and concrete	
19	Roller	82	79	75	72	Compacting materials	
20	Vacuum Street Sweeper	81	78	74	71	Sweeping up and vacuuming materials	
21	Traffic Control Equipment	74	68	62	54	Support traffic control – truck mounted attenuators and portable changeable message signs.	
Notes: Construction sound levels are expected to range between 61 - 93 dBA at 50 ft and 41 - 73 dBA at 500 ft.							