



## **Appendix L: Residential Noise Impact Assessment for Construction Activities**



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**Table L-1: Residential Noise Impact Assessment for Construction Activities**

Construction Activity and Equipment	Noise Level at 50 feet (dBA)	Equipment Usage Factor (%)	8-Hour L <sub>eq</sub> at 50 feet (dBA)		Approx. Noise Impact Distance (feet) <sup>a</sup>
			Predicted Exposure	Daytime Criterion	
<b>Site Work</b>			<b>89</b>	<b>80</b>	<b>135</b>
Grader	85	53	82	--	--
Water Truck	84	44	80	--	--
D6 Dozer	85	61	83	--	--
D8 Dozer	85	45	82	--	--
Compactor	82	45	79	--	--
Dump Truck	84	23	78	--	--
<b>Rail Work</b>			<b>90</b>	<b>80</b>	<b>150</b>
Locomotive	88	25	82	--	--
D6 Dozer	85	38	81	--	--
Grader	85	38	81	--	--
<b>Water Truck</b>	<b>84</b>	<b>38</b>	<b>80</b>	--	--
Tamper	83	20	76	--	--
Aligner	85	20	78	--	--
Swinger	85	19	78	--	--
Welder	74	38	70	--	--
Flat Bed Truck	84	31	79	--	--
Pickup Truck	75	25	69	--	--
Sports Utility Vehicle	75	31	70	--	--
35 Ton Rough Terrain Crane	83	38	79	--	--
Flat Bed Tractor	84	13	75	--	--
Wheel Loader	80	28	74	--	--
<b>Structures Work</b>			<b>95</b>	<b>80</b>	<b>270</b>
Impact Pile Driver	101	20	94	--	--
Generator	82	90	82	--	--
75 Ton Mobile Crane	83	38	79	--	--
Water Truck	84	20	77	--	--
Flat Bed Truck	84	25	78	--	--
Pickup Truck	75	53	72	--	--



Construction Activity and Equipment	Noise Level at 50 feet (dBA)	Equipment Usage Factor (%)	8-Hour L <sub>eq</sub> at 50 feet (dBA)		Approx. Noise Impact Distance (feet) <sup>a</sup>
			Predicted Exposure	Daytime Criterion	
Concrete Mixer	85	13	76	--	--
Concrete Pump	82	18	75	--	--
Wheel Loader	80	20	73	--	--
Welder	74	31	69	--	--

L<sub>eq</sub> = equivalent sound level; dBA = A-weighted decibel

<sup>a</sup> The approximate noise impact distance shows the sum for each type of construction activity and associated construction equipment.