

**Appendix H:  
Noise Supporting Information**

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## **H.1 - Parking Noise Calculations**

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### Parking Lot Activity

Receptor: Residential (west of project site)

No.	Equipment Description	Reference (dBA) 50 ft	Quantity	Usage factor[1]	Distance to Receptor	Ground Effect[2]	Shielding (dBA)[3]	Calculated (dBA)		Energy	
		Lmax						Lmax	Leq		
1	parking lot activity	70	3	1	1110	0.5	0	43.1	21.1	129.1929511	
2	parking lot activity	70	25	1	1160	0.5	0	42.7	29.8	964.3174961	
3	parking lot activity	70	12	1	1205	0.5	0	42.4	26.2	420.8609582	
4	parking lot activity										
5											
6											
7											
8											
9											
10											
Notes:								Lmax[4]	43.0	Leq	32

- [1] Percentage of time activity occurs each hour
- [2] Hard ground terrain between project site and receptor.
- [3] Shielding reduction from structures or terrain
- [4] Calculated Lmax is the Loudest value.

### Parking Lot Activity

Receptor: Commercial (Carl's Jr. south of project site)

No.	Equipment Description	Reference (dBA) 50 ft	Quantity	Usage factor[1]	Distance to Receptor	Ground Effect[2]	Shielding (dBA)[3]	Calculated (dBA)		Energy	
		Lmax						Lmax	Leq		
1	parking lot activity	70	5	1	750	0.5	0	46.5	27.6	573.7753105	
2	parking lot activity	70	10	1	815	0.5	0	45.8	29.7	932.2469883	
3	parking lot activity	70	15	1	850	0.5	0	45.4	31.0	1258.835424	
4	parking lot activity	70	10	1	855	0.5	0	45.3	29.2	827.0080254	
5											
6											
7											
8											
9											
10											
Notes:								Lmax[4]	46.0	Leq	36

- [1] Percentage of time activity occurs each hour
- [2] Hard ground terrain between project site and receptor.
- [3] Shielding reduction from structures or terrain
- [4] Calculated Lmax is the Loudest value.

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## H.2 - Mechanical Noise Calculations

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### Mechanical Equipment Operations

Receptor: Residential (west of project site)

No.	Equipment Description	Reference (dBA) 50 ft	Quantity	Usage factor[1]	Distance to Receptor	Ground Effect[2]	Shielding (dBA)[3]	Calculated (dBA)		Energy	
		Lmax						Lmax	Leq		
1	self-vacuum unit operations	60	20	1	1160	0.5	0	32.7	18.9	77.14539969	
2	self-vacuum unit operations	60	5	1	1160	0.5	0	32.7	12.9	19.28634992	
3	self-vacuum unit operations	60	10	1	1220	0.5	0	32.3	15.3	34.00364192	
4											
5											
6											
7											
8											
9											
10											
Notes:								Lmax[4]	33.0	Leq	21

- [1] Percentage of time activity occurs each hour
- [2] Hard ground terrain between project site and receptor.
- [3] Shielding reduction from structures or terrain
- [4] Calculated Lmax is the Loudest value.

### Mechanical Equipment Operations

Receptor: Commercial (Carl's Jr. south of project site)

No.	Equipment Description	Reference (dBA) 50 ft	Quantity	Usage factor[1]	Distance to Receptor	Ground Effect[2]	Shielding (dBA)[3]	Calculated (dBA)		Energy	
		Lmax						Lmax	Leq		
1	self-vacuum unit operations	60	5	1	755	0.5	0	36.4	17.5	56.43228506	
2	self-vacuum unit operations	60	10	1	835	0.5	0	35.5	19.4	87.74226115	
3	self-vacuum unit operations	60	10	1	870	0.5	0	35.2	19.0	79.18207516	
4	self-vacuum unit operations	60	10	1	890	0.5	0	35.0	18.7	74.80833593	
5											
6											
7											
8											
9											
10											
Notes:								Lmax[4]	36.0	Leq	25

- [1] Percentage of time activity occurs each hour
- [2] Hard ground terrain between project site and receptor.
- [3] Shielding reduction from structures or terrain
- [4] Calculated Lmax is the Loudest value.

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