
Appendix G

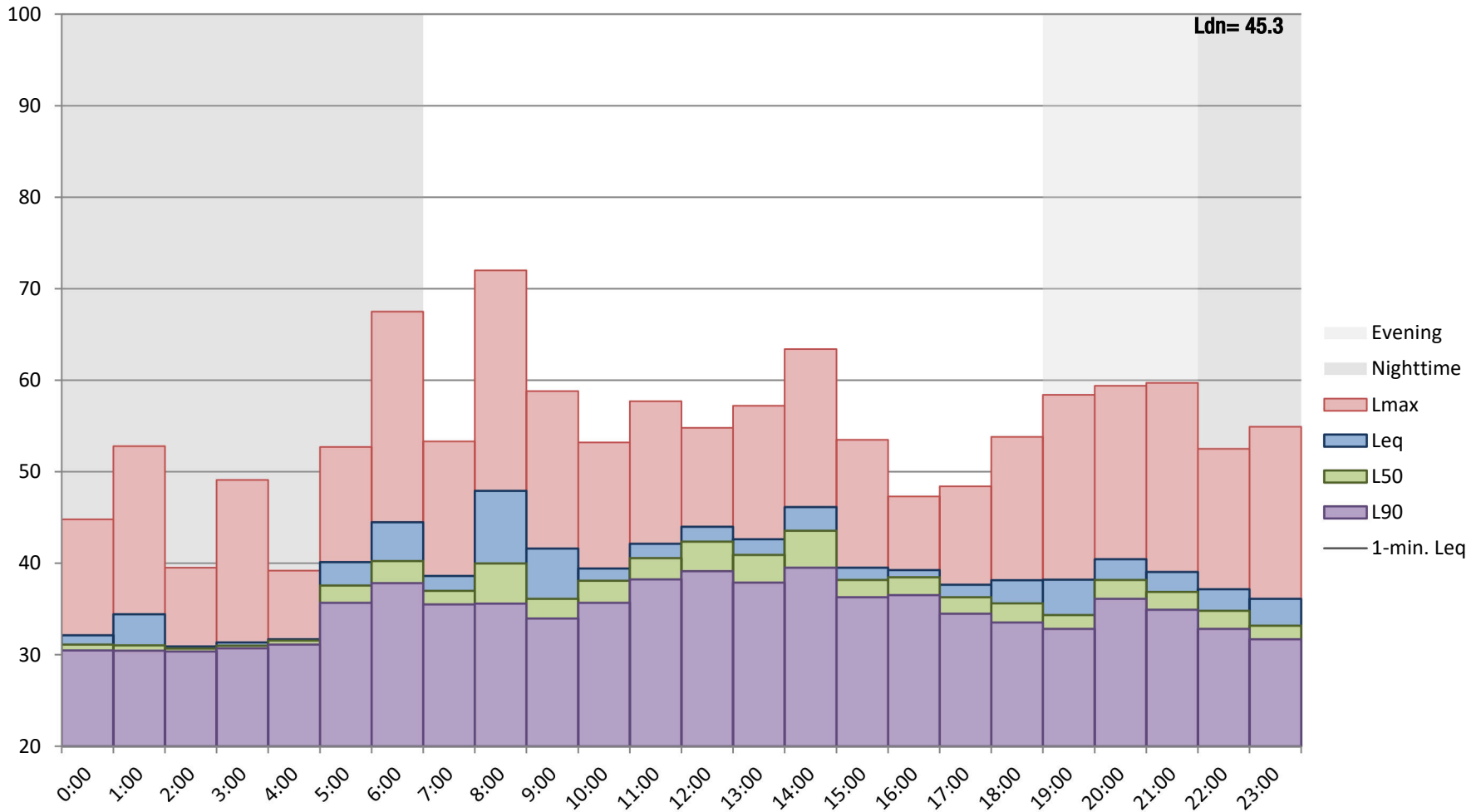
Noise Data

Appendix G-3
Long-Term 24 Hour Continuous Noise Monitoring

Project: Diamond Springs Community Park
Date: May 08, 2023 to May 08, 2023
Site: LT1-A Northern Portion of Community Park Parcels

Hour	Leq	Lmax	L50	L90		Lowermost Level			
						Leq	Lmax	L50	L90
0:00	32.1	44.8	31.1	30.5					
1:00	34.4	52.8	31.0	30.5	Daytime (7 a.m. - 7 p.m.)	37.7	47.3	34.4	32.8
2:00	30.9	39.5	30.7	30.4	Nighttime (10 p.m. - 7 a.m.)	30.9	39.2	30.7	30.4
3:00	31.3	49.1	31.0	30.7					
4:00	31.7	39.2	31.5	31.1					
5:00	40.1	52.7	37.6	35.7					
6:00	44.5	67.5	40.2	37.8					
7:00	38.6	53.3	37.0	35.5	Daytime (7 a.m. - 7 p.m.)	42.2	56.7	38.4	36.0
8:00	47.9	72.0	40.0	35.6	Nighttime (10 p.m. - 7 a.m.)	37.9	50.3	33.5	32.3
9:00	41.6	58.8	36.1	34.0					
10:00	39.4	53.2	38.1	35.7					
11:00	42.1	57.7	40.6	38.2					
12:00	44.0	54.8	42.4	39.1					
13:00	42.6	57.2	40.9	37.9	Daytime (7 a.m. - 7 p.m.)	47.9	72.0	43.5	39.5
14:00	46.1	63.4	43.5	39.5	Nighttime (10 p.m. - 7 a.m.)	44.5	67.5	40.2	37.8
15:00	39.5	53.5	38.2	36.3					
16:00	39.2	47.3	38.5	36.5					
17:00	37.7	48.4	36.3	34.5					
18:00	38.1	53.8	35.6	33.5					
19:00	38.2	58.4	34.4	32.8					
20:00	40.5	59.4	38.2	36.1					
21:00	39.1	59.7	36.9	34.9					
22:00	37.2	52.5	34.8	32.8					
23:00	36.1	54.9	33.2	31.7					
						Energy Distribution			
						Daytime		82%	
						Nighttime		18%	
						Calculated Ldn, dBA			
						45.3			

Appendix G-3
 Diamond Springs Community Park - LT1-A - Northern Portion of Community Park Parcels
 May 08, 2023 to May 08, 2023

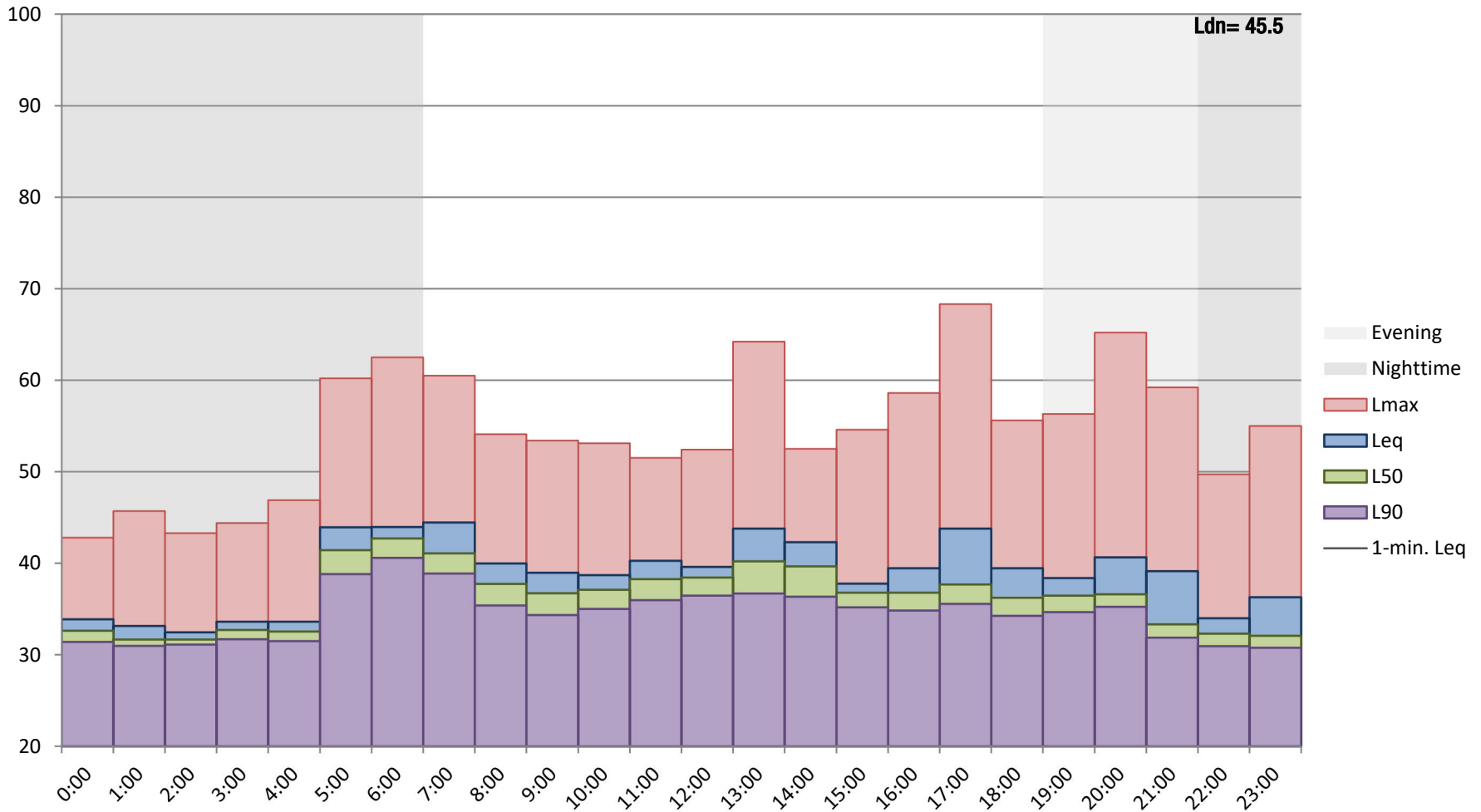


Appendix G-3
Long-Term 24 Hour Continuous Noise Monitoring

Project: Diamond Springs Community Park
Date: May 09, 2023 to May 09, 2023
Site: LT1-B Northern Portion of Community Park Parcels

Hour	Leq	Lmax	L50	L90		Lowermost Level			
						Leq	Lmax	L50	L90
0:00	33.9	42.8	32.6	31.4					
1:00	33.1	45.7	31.7	31.0	Daytime (7 a.m. - 7 p.m.)	37.8	51.5	33.3	31.9
2:00	32.5	43.3	31.7	31.1	Nighttime (10 p.m. - 7 a.m.)	32.5	42.8	31.7	30.8
3:00	33.6	44.4	32.7	31.7					
4:00	33.6	46.9	32.5	31.5					
5:00	43.9	60.2	41.4	38.8					
6:00	44.0	62.5	42.7	40.6					
7:00	44.4	60.5	41.1	38.9	Daytime (7 a.m. - 7 p.m.)	41.0	57.3	37.5	35.4
8:00	40.0	54.1	37.8	35.4	Nighttime (10 p.m. - 7 a.m.)	38.7	50.1	34.4	33.1
9:00	39.0	53.4	36.7	34.3					
10:00	38.7	53.1	37.1	35.0					
11:00	40.3	51.5	38.3	36.0					
12:00	39.6	52.4	38.4	36.5					
13:00	43.8	64.2	40.2	36.7	Daytime (7 a.m. - 7 p.m.)	44.4	68.3	41.1	38.9
14:00	42.3	52.5	39.6	36.3	Nighttime (10 p.m. - 7 a.m.)	44.0	62.5	42.7	40.6
15:00	37.8	54.6	36.8	35.2					
16:00	39.4	58.6	36.8	34.8					
17:00	43.8	68.3	37.7	35.6					
18:00	39.4	55.6	36.2	34.2					
19:00	38.4	56.3	36.5	34.7					
20:00	40.6	65.2	36.6	35.2					
21:00	39.1	59.2	33.3	31.9					
22:00	34.0	49.7	32.3	31.0					
23:00	36.3	55.0	32.1	30.8					
						Energy Distribution			
						Daytime		74%	
						Nighttime		26%	
						Calculated Ldn, dBA			
						45.5			

Appendix G-3
 Diamond Springs Community Park - LT1-B - Northern Portion of Community Park Parcels
 May 09, 2023 to May 09, 2023



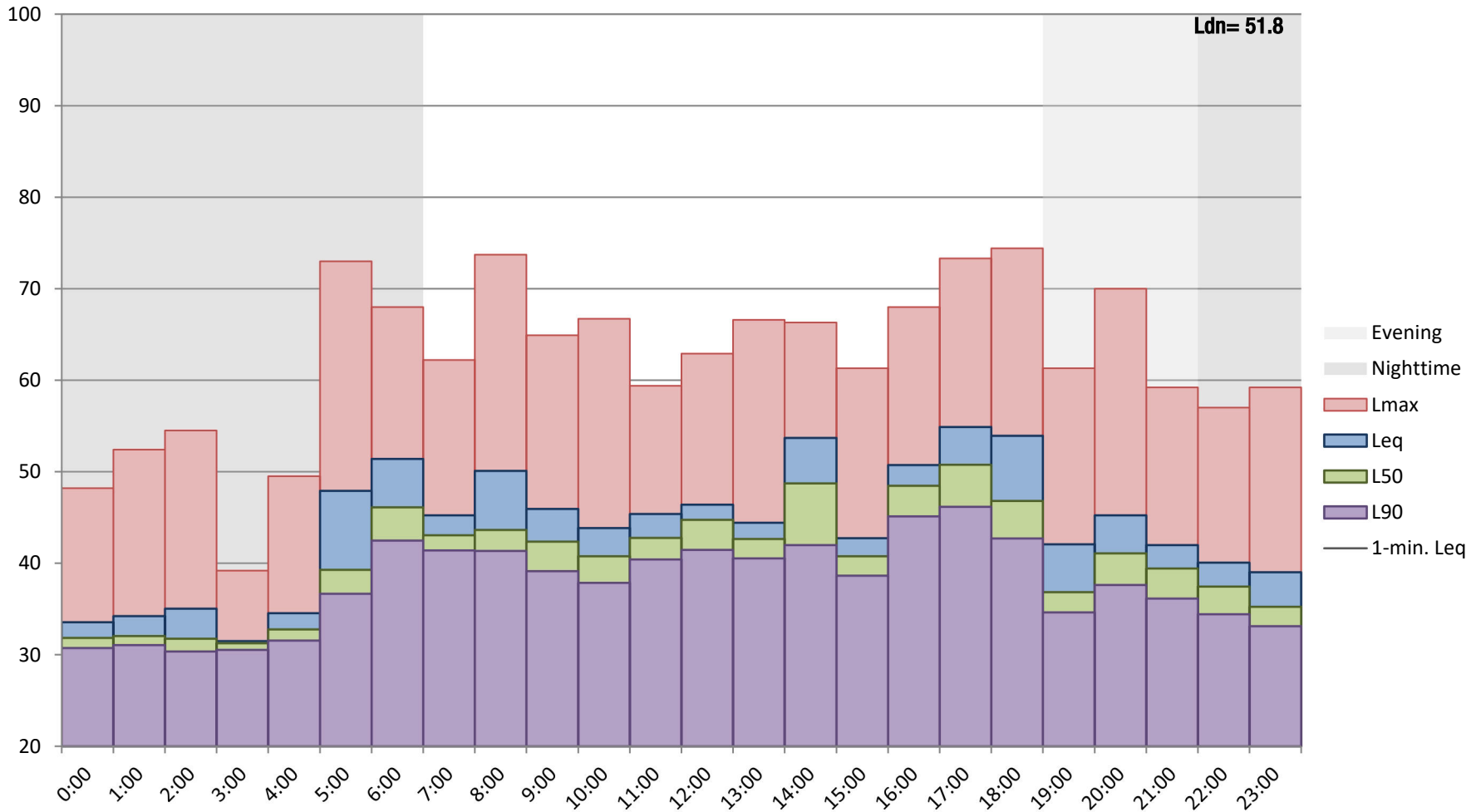
Appendix G-3
Long-Term 24 Hour Continuous Noise Monitoring

Project: Diamond Springs Community Park
Date: May 08, 2023 to May 08, 2023
Site: LT2-A Southwestern Corner of DSCP and Elementary School

Hour	Leq	Lmax	L50	L90		Lowermost Level			
						Leq	Lmax	L50	L90
0:00	33.5	48.2	31.8	30.7					
1:00	34.2	52.4	32.1	31.0	Daytime (7 a.m. - 7 p.m.)	42.0	59.2	36.8	34.6
2:00	35.0	54.5	31.8	30.4	Nighttime (10 p.m. - 7 a.m.)	31.5	39.2	31.3	30.4
3:00	31.5	39.2	31.3	30.5					
4:00	34.6	49.5	32.8	31.5					
5:00	47.9	73.0	39.3	36.7					
6:00	51.4	68.0	46.1	42.5					
7:00	45.2	62.2	43.1	41.4	Daytime (7 a.m. - 7 p.m.)	49.4	66.0	43.5	40.3
8:00	50.1	73.7	43.7	41.3	Nighttime (10 p.m. - 7 a.m.)	44.1	55.7	35.3	33.4
9:00	45.9	64.9	42.4	39.1					
10:00	43.8	66.7	40.8	37.9					
11:00	45.4	59.4	42.8	40.4					
12:00	46.4	62.9	44.8	41.5					
13:00	44.4	66.6	42.7	40.5	Daytime (7 a.m. - 7 p.m.)	54.9	74.4	50.8	46.2
14:00	53.7	66.3	48.7	42.0	Nighttime (10 p.m. - 7 a.m.)	51.4	73.0	46.1	42.5
15:00	42.7	61.3	40.8	38.7					
16:00	50.7	68.0	48.5	45.1					
17:00	54.9	73.3	50.8	46.2					
18:00	53.9	74.4	46.8	42.7					
19:00	42.1	61.3	36.8	34.6					
20:00	45.2	70.0	41.1	37.6					
21:00	42.0	59.2	39.4	36.2					
22:00	40.1	57.0	37.4	34.4					
23:00	39.0	59.2	35.3	33.1					
						Energy Distribution			
						Daytime		85%	
						Nighttime		15%	
						Calculated Ldn, dBA			
						51.8			

Appendix G-3

Diamond Springs Community Park - LT2-A - Southwestern Corner of DSCP and Elementary School
May 08, 2023 to May 08, 2023



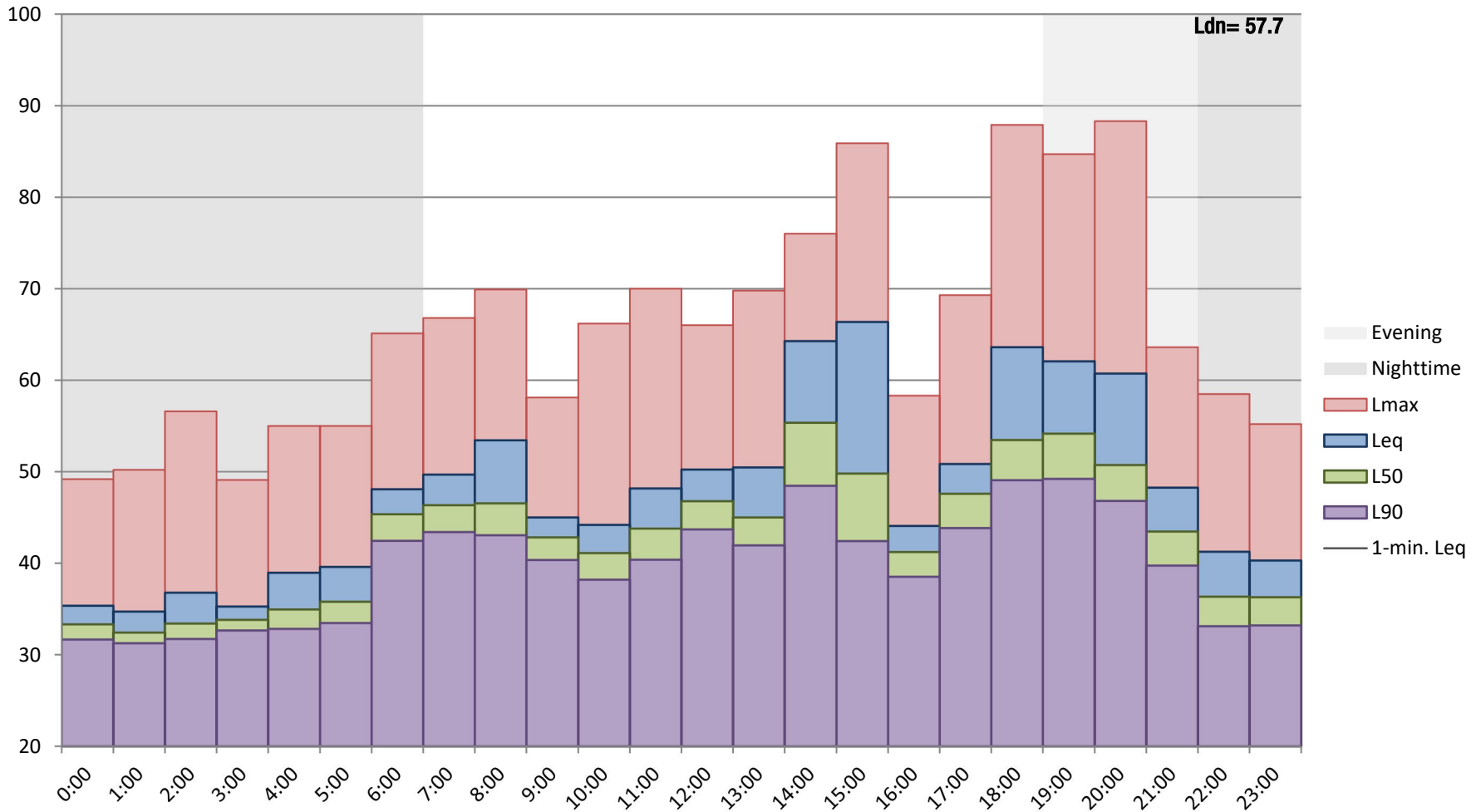
Appendix G-3
Long-Term 24 Hour Continuous Noise Monitoring

Project: Diamond Springs Community Park
Date: May 09, 2023 to May 09, 2023
Site: LT2-B Southwestern Corner of DSCP and Elementary School

Hour	Leq	Lmax	L50	L90	Lowermost Level			
					Leq	Lmax	L50	L90
0:00	35.3	49.2	33.3	31.7				
1:00	34.7	50.2	32.4	31.2				
2:00	36.8	56.6	33.4	31.7				
3:00	35.3	49.1	33.8	32.6				
4:00	39.0	55.0	34.9	32.8				
5:00	39.6	55.0	35.8	33.5				
6:00	48.1	65.1	45.4	42.4				
7:00	49.7	66.8	46.4	43.4				
8:00	53.4	69.9	46.5	43.1				
9:00	45.0	58.1	42.8	40.3				
10:00	44.2	66.2	41.1	38.2				
11:00	48.2	70.0	43.8	40.4				
12:00	50.2	66.0	46.8	43.7				
13:00	50.5	69.8	45.0	42.0				
14:00	64.3	76.0	55.4	48.5				
15:00	66.4	85.9	49.8	42.4				
16:00	44.1	58.3	41.2	38.5				
17:00	50.8	69.3	47.6	43.9				
18:00	63.6	87.9	53.5	49.1				
19:00	62.1	84.7	54.1	49.2				
20:00	60.7	88.3	50.7	46.8				
21:00	48.2	63.6	43.5	39.8				
22:00	41.2	58.5	36.3	33.1				
23:00	40.3	55.2	36.3	33.2				
45058	40.09	54.4	36.26	32.83				
					Lowermost Level			
					Leq	Lmax	L50	L90
				Daytime (7 a.m. - 7 p.m.)	44.1	58.1	41.1	38.2
				Nighttime (10 p.m. - 7 a.m.)	34.7	49.1	32.4	31.2
					Average Level			
					Leq	Lmax	L50	L90
				Daytime (7 a.m. - 7 p.m.)	59.4	72.1	47.2	43.3
				Nighttime (10 p.m. - 7 a.m.)	41.2	54.9	35.7	33.6
					Uppermost-Level			
					Leq	Lmax	L50	L90
				Daytime (7 a.m. - 7 p.m.)	66.4	88.3	55.4	49.2
				Nighttime (10 p.m. - 7 a.m.)	48.1	65.1	45.4	42.4
					Energy Distribution			
				Daytime				99%
				Nighttime				1%
					Calculated Ldn, dBA			
					57.7			

Appendix G-3

Diamond Springs Community Park - LT2-B - Southwestern Corner of DSCP and Elementary School
May 09, 2023 to May 09, 2023



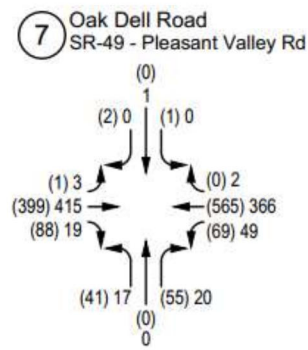
To User: bordered cells are inputs, unbordered cells have formulae

noise level limit for construction phase at residential land use, per FTA guidance = 80
allowable hours over which Leq is to be averaged = 8

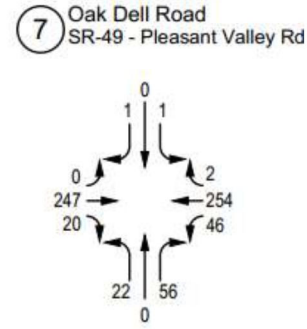
= temporary barrier (TB) of input height inserted between source and receptor

Table with columns: Construction Activity, Equipment, Total Equipment Qty, AUF % (from FHWA RCNM), Reference Lmax @ 50 ft. from FHWA RCNM, Client Equipment Description, Data Source and/or Notes, Source to NSR Distance (ft.), Temporary Barrier Insertion Loss (dB), Additional Noise Reduction, Distance-Adjusted Lmax, Allowable Operation Time (hours), Allowable Operation Time (minutes), Predicted 8-hour Leq, Source Elevation (ft), Receiver Elevation (ft), Barrier Height (ft), Source to Barr. ("A") Horiz. (ft), Rcvr. to Barr. ("B") Horiz. (ft), Source to Rcvr. ("C") Horiz. (ft), "A" (ft), "B" (ft), "C" (ft), Path Length Diff. "P" (ft), Abarr (dB), Heff (with barrier), Heff (w/out barrier), G (with barrier), G (without barrier), ILbarr (dB)

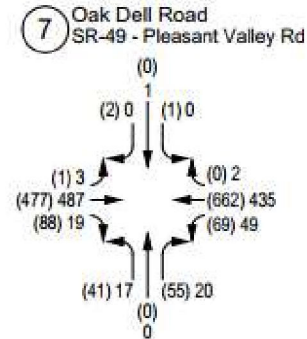
Existing fig 8 from Aug 2023 TIA
weekday



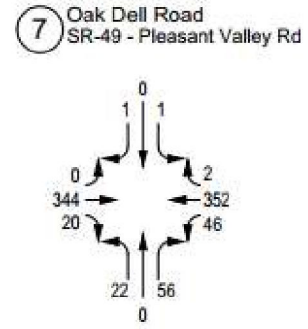
Existing fig 9 from Aug 2023 TIA
Saturday



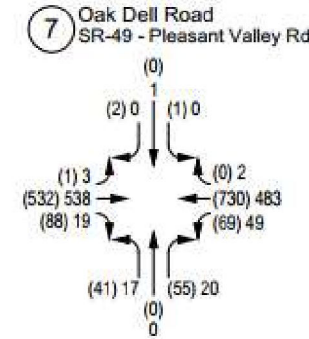
Near T fig 12 from Aug 2023 TIA
weekday



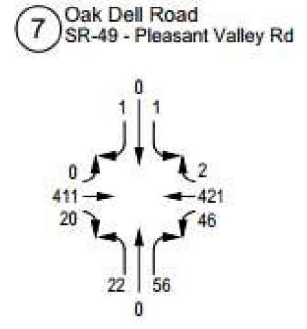
Near T fig 13 from Aug 2023 TIA
Saturday



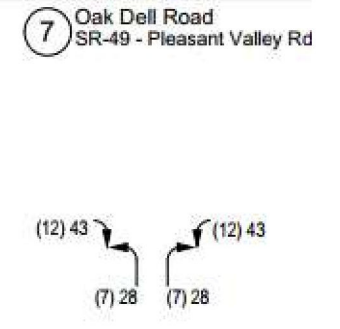
Cumul fig 16 from Aug 2023 TIA
weekday



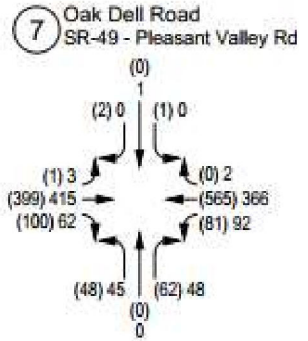
Cumul fig 17 from Aug 2023 TIA
Saturday



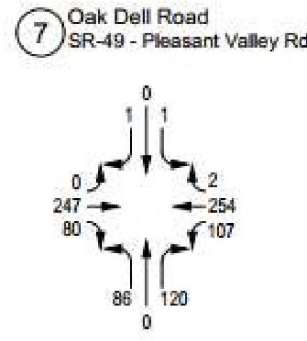
Project fig 6A from Aug 2023 TIA
Weekday



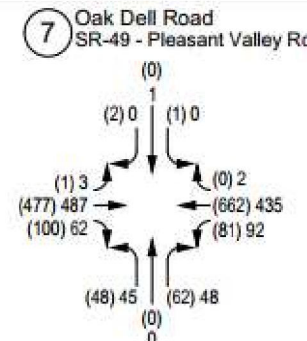
Ex+Proj fig 10 from Aug 2023 TIA
weekday



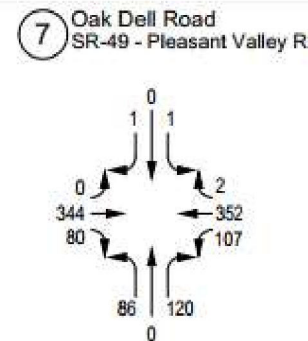
Ex+Proj fig 11 from Aug 2023 TIA
Saturday



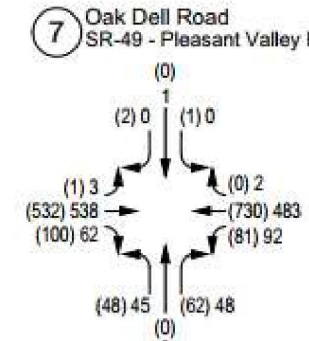
NT+Proj fig 14 from Aug 2023 TIA
weekday



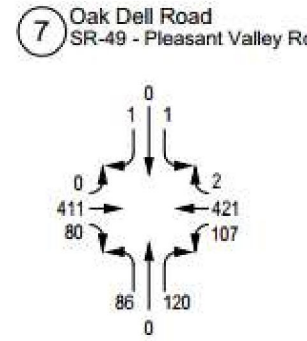
NT+Proj fig 15 from Aug 2023 TIA
Saturday



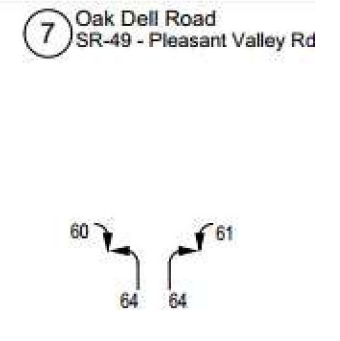
Cumul+P fig 18 from Aug 2023 TIA
weekday



Cumul+P fig 19 from Aug 2023 TIA
Saturday



Project fig 6B from Aug 2023 TIA
Saturday



Dudek Aug. 2023 TIA reference:

Intersection	Fig. 8		Fig. 12		Fig. 16		Fig. 6A		Fig. 10		Fig. 14		Fig. 18	
	Existing Peak Hour (AM)	Existing Peak Hour PM	Near-Term Peak Hour (AM)	Near-Term Peak Hour PM	2040 Peak Hour (AM)	2040 Peak Hour PM	Project Peak Hour (AM)	Project Peak Hour PM	Exist + Proj Peak Hour (AM)	Exist + Proj Peak Hour PM	NT + Proj Peak Hour (AM)	NT + Proj Peak Hour PM	2040 + Proj Peak Hour (AM)	2040 + Proj Peak Hour PM
Intersection 7 (SR-49 and Oak Dell Road)														
SB	0	1	0	1	0	1	0	0	0	1	0	1	0	1
SBL	1	0	1	0	1	0	0	0	1	0	1	0	1	0
SBR	2	0	2	0	2	0	0	0	2	0	2	0	2	0
WB	565	366	662	435	730	483	0	0	565	366	662	435	730	483
WBL	69	49	69	49	69	49	12	43	81	92	81	92	81	92
WBR	0	2	0	2	0	2	0	0	0	2	0	2	0	2
NB	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NBL	41	17	41	17	41	17	7	28	48	45	48	45	48	45
NBR	55	20	55	20	55	20	7	28	62	48	62	48	62	48
EB	399	415	477	487	532	538	0	0	399	415	477	487	532	538
EBL	1	3	1	3	1	3	0	0	1	3	1	3	1	3
EBR	88	19	88	19	88	19	12	43	100	62	100	62	100	62
Studied Segment														
Oak Dell Road North of SR-49	4	6	4	6	4	6	0	0	4	6	4	6	4	6
Oak Dell Road South of SR-49	253	106	253	106	253	141	38	142	291	248	291	248	291	283
SR-49 West of Oak Dell Road	1096	820	1271	961	1394	1060	19	71	1115	891	1290	1032	1413	1131
SR-49 East of Oak Dell Road	1089	852	1264	993	1387	1127	19	71	1108	923	1283	1064	1406	1198

Dudek Aug. 2023 TIA reference:

	Fig. 9 Existing Peak Hour Midday	Fig. 13 Near-Term Peak Hour Midday	Fig. 17 2040 Peak Hour Midday	Fig. 6B Project Peak Hour Midday	Fig. 11 Exist + Proj Peak Hour Midday	Fig. 15 NT + Proj Peak Hour Midday	Fig. 19 2040 + Proj Peak Hour Midday
<u>Intersection</u>							
Intersection 7 (SR-49 and Oak Dell Road)							
SB	0	0	0	0	0	0	0
SBL	1	1	1	0	1	1	1
SBR	1	1	1	0	1	1	1
WB	254	352	421	0	254	352	421
WBL	46	46	46	61	107	107	107
WBR	2	2	2	0	2	2	2
NB	0	0	0	0	0	0	0
NBL	22	22	22	64	86	86	86
NBR	56	56	56	64	120	120	120
EB	247	344	411	0	247	344	411
EBL	0	0	0	0	0	0	0
EBR	20	20	20	60	80	80	80
<u>Studied Segment</u>							
Oak Dell Road North of SR-49	4	4	4	0	4	4	4
Oak Dell Road South of SR-49	144	144	144	249	393	393	393
SR-49 West of Oak Dell Road	544	739	875	124	668	863	999
SR-49 East of Oak Dell Road	606	801	937	125	731	926	1062

**Roadway Traffic Noise Prediction (CNEL)
(FHWA RD-77-108, using Calveno curves)**

Project: Diamond Spring Community Park

Auto %	90.60%	Day	
MT (%)	6.85%	Evening	
HT (%)	2.55%	Nighttime	

80.00%
10.00%
10.00%

Traffic Percentages by Vehicle Type

	Day	Evening	Nighttime	Equivalent
Auto	72.48%	9.06%	9.06%	191.7%
MT	5.48%	0.68%	0.68%	14.5%
HT	2.04%	0.26%	0.26%	5.4%

Study Year or Condition	Roadway Segment and Direction of Traffic	Average Weekday Traffic (AWT)	Speed (mph)	Auto Noise (at 15m)	MT Noise (at 15m)	HT Noise (at 15m)	CNEL Total (at 15m)
Existing	Oak Dell Road North of SR-49	40	20	31.2	32.9	35.4	38.3
	Oak Dell Road South of SR-49	2,530	20	49.2	50.9	53.4	56.3
	SR-49 West of Oak Dell Road	10,960	45	65.7	62.8	63.0	68.8
	SR-49 East of Oak Dell Road	10,890	45	65.7	62.7	63.0	68.8

[data below from 2019 Caltrans truck AADT](#)

Route	District	County	Postmile	Leg	Description of Intersection	Total AADT	Truck AADT	Truck %	Trk 2-axle	Trk 3-axle	Trk 4-axle	Trk 5-axle	Trk 2-axle %	Trk 3-axle %	Trk 4-axle %	Trk 5-axle %
49	3	ED	9.641	A	Pleasant Valley Road	10300	972	9.4	708	84	31	149	72.86	8.63	3.14	15.29

"medium truck" (MT, 2-axle) percentage: 6.84884 "heavy truck" (HT) %: 2.55116

**Roadway Traffic Noise Prediction (CNEL)
(FHWA RD-77-108, using Calveno curves)**

Project: Diamond Spring Community Park

Auto %	90.60%	Day	80.00%
MT (%)	6.85%	Evening	10.00%
HT (%)	2.55%	Nighttime	10.00%

Traffic Percentages by Vehicle Type

	Day	Evening	Nighttime	Equivalent
Auto	72.48%	9.06%	9.06%	191.7%
MT	5.48%	0.68%	0.68%	14.5%
HT	2.04%	0.26%	0.26%	5.4%

Study Year or Condition	Roadway Segment and Direction of Traffic	Average Weekday Traffic (AWT)	Speed (mph)	Auto Noise (at 15m)	MT Noise (at 15m)	HT Noise (at 15m)	CNEL Total (at 15m)
Existing + Project	Oak Dell Road North of SR-49	40	20	31.2	32.9	35.4	38.3
	Oak Dell Road South of SR-49	2,910	20	49.8	51.5	54.0	56.9
	SR-49 West of Oak Dell Road	11,150	45	65.8	62.8	63.1	68.9
	SR-49 East of Oak Dell Road	11,080	45	65.7	62.8	63.0	68.9

[data below from 2019 Caltrans truck AADT](#)

Route	District	County	Postmile	Leg	Description of Intersection	Total AADT	Truck AADT	Truck %	Trk 2-axle	Trk 3-axle	Trk 4-axle	Trk 5-axle	Trk 2-axle %	Trk 3-axle %	Trk 4-axle %	Trk 5-axle %
49	3	ED	9.641	A	Pleasant Valley Road	10300	972	9.4	708	84	31	149	72.86	8.63	3.14	15.29

"medium truck" (MT, 2-axle) percentage: 6.84884 "heavy truck" (HT) %: 2.55116

CNEL differences (with and without Project)

Oak Dell Road North of SR-49	0.0	0.0	0.0	0.0
Oak Dell Road South of SR-49	0.6	0.6	0.6	0.6
SR-49 West of Oak Dell Road	0.1	0.1	0.1	0.1
SR-49 East of Oak Dell Road	0.1	0.1	0.1	0.1

**Roadway Traffic Noise Prediction (CNEL)
(FHWA RD-77-108, using Calveno curves)**

Project: Diamond Spring Community Park

Auto %	90.60%	Day	
MT (%)	6.85%	Evening	
HT (%)	2.55%	Nighttime	

80.00%
10.00%
10.00%

Traffic Percentages by Vehicle Type

	Day	Evening	Nighttime	Equivalent
Auto	72.48%	9.06%	9.06%	191.7%
MT	5.48%	0.68%	0.68%	14.5%
HT	2.04%	0.26%	0.26%	5.4%

Study Year or Condition	Roadway Segment and Direction of Traffic	Average Weekday Traffic (AWT)	Speed (mph)	Auto Noise (at 15m)	MT Noise (at 15m)	HT Noise (at 15m)	CNEL Total (at 15m)
Near Term (2033)	Oak Dell Road North of SR-49	40	20	31.2	32.9	35.4	38.3
	Oak Dell Road South of SR-49	2,530	20	49.2	50.9	53.4	56.3
	SR-49 West of Oak Dell Road	12,710	45	66.3	63.4	63.6	69.4
	SR-49 East of Oak Dell Road	12,640	45	66.3	63.4	63.6	69.4

[data below from 2019 Caltrans truck AADT](#)

Route	District	County	Postmile	Leg	Description of Intersection	Total AADT	Truck AADT	Truck %	Trk 2-axle	Trk 3-axle	Trk 4-axle	Trk 5-axle	Trk 2-axle %	Trk 3-axle %	Trk 4-axle %	Trk 5-axle %
49	3	ED	9.641	A	Pleasant Valley Road	10300	972	9.4	708	84	31	149	72.86	8.63	3.14	15.29
													"medium truck" (MT, 2-axle) percentage:	6.84884	"heavy truck" (HT) %:	2.55116

**Roadway Traffic Noise Prediction (CNEL)
(FHWA RD-77-108, using Calveno curves)**

Project: Diamond Spring Community Park

Auto %	90.60%	Day	80.00%
MT (%)	6.85%	Evening	10.00%
HT (%)	2.55%	Nighttime	10.00%

Traffic Percentages by Vehicle Type

	Day	Evening	Nighttime	Equivalent
Auto	72.48%	9.06%	9.06%	191.7%
MT	5.48%	0.68%	0.68%	14.5%
HT	2.04%	0.26%	0.26%	5.4%

Study Year or Condition	Roadway Segment and Direction of Traffic	Average Weekday Traffic (AWT)	Speed (mph)	Auto Noise (at 15m)	MT Noise (at 15m)	HT Noise (at 15m)	CNEL Total (at 15m)
Near Term (2033) + Project	Oak Dell Road North of SR-49	40	20	31.2	32.9	35.4	38.3
	Oak Dell Road South of SR-49	2,910	20	49.8	51.5	54.0	56.9
	SR-49 West of Oak Dell Road	12,900	45	66.4	63.5	63.7	69.5
	SR-49 East of Oak Dell Road	12,830	45	66.4	63.4	63.7	69.5

[data below from 2019 Caltrans truck AADT](#)

Route	District	County	Postmile	Leg	Description of Intersection	Total AADT	Truck AADT	Truck %	Trk 2-axle	Trk 3-axle	Trk 4-axle	Trk 5-axle	Trk 2-axle %	Trk 3-axle %	Trk 4-axle %	Trk 5-axle %
49	3	ED	9.641	A	Pleasant Valley Road	10300	972	9.4	708	84	31	149	72.86	8.63	3.14	15.29

"medium truck" (MT, 2-axle) percentage: 6.84884 "heavy truck" (HT) %: 2.55116

CNEL differences (with and without Project)

Oak Dell Road North of SR-49	0.0	0.0	0.0	0.0
Oak Dell Road South of SR-49	0.6	0.6	0.6	0.6
SR-49 West of Oak Dell Road	0.1	0.1	0.1	0.1
SR-49 East of Oak Dell Road	0.1	0.1	0.1	0.1

**Roadway Traffic Noise Prediction (CNEL)
(FHWA RD-77-108, using Calveno curves)**

Project: Diamond Spring Community Park

Auto %	90.60%	Day	
MT (%)	6.85%	Evening	
HT (%)	2.55%	Nighttime	

80.00%
10.00%
10.00%

Traffic Percentages by Vehicle Type

	Day	Evening	Nighttime	Equivalent
Auto	72.48%	9.06%	9.06%	191.7%
MT	5.48%	0.68%	0.68%	14.5%
HT	2.04%	0.26%	0.26%	5.4%

Study Year or Condition	Roadway Segment and Direction of Traffic	Average Weekday Traffic (AWT)	Speed (mph)	Auto Noise (at 15m)	MT Noise (at 15m)	HT Noise (at 15m)	CNEL Total (at 15m)
Cumulative (2040)	Oak Dell Road North of SR-49	40	20	31.2	32.9	35.4	38.3
	Oak Dell Road South of SR-49	2,530	20	49.2	50.9	53.4	56.3
	SR-49 West of Oak Dell Road	13,940	45	66.7	63.8	64.0	69.9
	SR-49 East of Oak Dell Road	13,870	45	66.7	63.8	64.0	69.8

[data below from 2019 Caltrans truck AADT](#)

Route	District	County	Postmile	Leg	Description of Intersection	Total AADT	Truck AADT	Truck %	Trk 2-axle	Trk 3-axle	Trk 4-axle	Trk 5-axle	Trk 2-axle %	Trk 3-axle %	Trk 4-axle %	Trk 5-axle %
49	3	ED	9.641	A	Pleasant Valley Road	10300	972	9.4	708	84	31	149	72.86	8.63	3.14	15.29

"medium truck" (MT, 2-axle) percentage: 6.84884 "heavy truck" (HT) %: 2.55116

**Roadway Traffic Noise Prediction (CNEL)
(FHWA RD-77-108, using Calveno curves)**

Project: Diamond Spring Community Park

Auto %	90.60%	Day	80.00%
MT (%)	6.85%	Evening	10.00%
HT (%)	2.55%	Nighttime	10.00%

Traffic Percentages by Vehicle Type

	Day	Evening	Nighttime	Equivalent
Auto	72.48%	9.06%	9.06%	191.7%
MT	5.48%	0.68%	0.68%	14.5%
HT	2.04%	0.26%	0.26%	5.4%

Study Year or Condition	Roadway Segment and Direction of Traffic	Average Weekday Traffic (AWT)	Speed (mph)	Auto Noise (at 15m)	MT Noise (at 15m)	HT Noise (at 15m)	CNEL Total (at 15m)
Cumulative (2040) + Project	Oak Dell Road North of SR-49	40	20	31.2	32.9	35.4	38.3
	Oak Dell Road South of SR-49	2,910	20	49.8	51.5	54.0	56.9
	SR-49 West of Oak Dell Road	14,130	45	66.8	63.9	64.1	69.9
	SR-49 East of Oak Dell Road	14,060	45	66.8	63.8	64.1	69.9

[data below from 2019 Caltrans truck AADT](#)

Route	District	County	Postmile	Leg	Description of Intersection	Total AADT	Truck AADT	Truck %	Trk 2-axle	Trk 3-axle	Trk 4-axle	Trk 5-axle	Trk 2-axle %	Trk 3-axle %	Trk 4-axle %	Trk 5-axle %
49	3	ED	9.641	A	Pleasant Valley Road	10300	972	9.4	708	84	31	149	72.86	8.63	3.14	15.29

"medium truck" (MT, 2-axle) percentage: 6.84884 "heavy truck" (HT) %: 2.55116

CNEL differences (with and without Project)

Oak Dell Road North of SR-49	0.0	0.0	0.0	0.0
Oak Dell Road South of SR-49	0.6	0.6	0.6	0.6
SR-49 West of Oak Dell Road	0.1	0.1	0.1	0.1
SR-49 East of Oak Dell Road	0.1	0.1	0.1	0.1

**Roadway Traffic Noise Prediction (CNEL)
(FHWA RD-77-108, using Calveno curves)**

Project: Diamond Spring Community Park

Auto %	90.60%	Day	
MT (%)	6.85%	Evening	
HT (%)	2.55%	Nighttime	

80.00%
10.00%
10.00%

Traffic Percentages by Vehicle Type

	Day	Evening	Nighttime	Equivalent
Auto	72.48%	9.06%	9.06%	191.7%
MT	5.48%	0.68%	0.68%	14.5%
HT	2.04%	0.26%	0.26%	5.4%

Study Year or Condition	Roadway Segment and Direction of Traffic	Average Saturday Traffic (AST)	Speed (mph)	Auto Noise (at 15m)	MT Noise (at 15m)	HT Noise (at 15m)	CNEL Total (at 15m)
Existing	Oak Dell Road North of SR-49	40	20	31.2	32.9	35.4	38.3
	Oak Dell Road South of SR-49	1,440	20	46.7	48.5	50.9	53.8
	SR-49 West of Oak Dell Road	5,440	45	62.7	59.7	60.0	65.8
	SR-49 East of Oak Dell Road	6,060	45	63.1	60.2	60.4	66.2

[data below from 2019 Caltrans truck AADT](#)

Route	District	County	Postmile	Leg	Description of Intersection	Total AADT	Truck AADT	Truck %	Trk 2-axle	Trk 3-axle	Trk 4-axle	Trk 5-axle	Trk 2-axle %	Trk 3-axle %	Trk 4-axle %	Trk 5-axle %
49	3	ED	9.641	A	Pleasant Valley Road	10300	972	9.4	708	84	31	149	72.86	8.63	3.14	15.29

"medium truck" (MT, 2-axle) percentage: 6.84884 "heavy truck" (HT) %: 2.55116

**Roadway Traffic Noise Prediction (CNEL)
(FHWA RD-77-108, using Calveno curves)**

Project: Diamond Spring Community Park

Auto %	90.60%	Day	80.00%
MT (%)	6.85%	Evening	10.00%
HT (%)	2.55%	Nighttime	10.00%

Traffic Percentages by Vehicle Type

	Day	Evening	Nighttime	Equivalent
Auto	72.48%	9.06%	9.06%	191.7%
MT	5.48%	0.68%	0.68%	14.5%
HT	2.04%	0.26%	0.26%	5.4%

Study Year or Condition	Roadway Segment and Direction of Traffic	Average Saturday Traffic (AST)	Speed (mph)	Auto Noise (at 15m)	MT Noise (at 15m)	HT Noise (at 15m)	CNEL Total (at 15m)
Existing + Project	Oak Dell Road North of SR-49	40	20	31.2	32.9	35.4	38.3
	Oak Dell Road South of SR-49	3,930	20	51.1	52.8	55.3	58.2
	SR-49 West of Oak Dell Road	6,680	45	63.5	60.6	60.8	66.7
	SR-49 East of Oak Dell Road	7,310	45	63.9	61.0	61.2	67.0

[data below from 2019 Caltrans truck AADT](#)

Route	District	County	Postmile	Leg	Description of Intersection	Total AADT	Truck AADT	Truck %	Trk 2-axle	Trk 3-axle	Trk 4-axle	Trk 5-axle	Trk 2-axle %	Trk 3-axle %	Trk 4-axle %	Trk 5-axle %
49	3	ED	9.641	A	Pleasant Valley Road	10300	972	9.4	708	84	31	149	72.86	8.63	3.14	15.29

"medium truck" (MT, 2-axle) percentage: 6.84884 "heavy truck" (HT) %: 2.55116

CNEL differences (with and without Project)

Oak Dell Road North of SR-49	0.0	0.0	0.0	0.0
Oak Dell Road South of SR-49	4.4	4.4	4.4	4.4
SR-49 West of Oak Dell Road	0.9	0.9	0.9	0.9
SR-49 East of Oak Dell Road	0.8	0.8	0.8	0.8

**Roadway Traffic Noise Prediction (CNEL)
(FHWA RD-77-108, using Calveno curves)**

Project: Diamond Spring Community Park

Auto %	90.60%	Day	
MT (%)	6.85%	Evening	
HT (%)	2.55%	Nighttime	

80.00%
10.00%
10.00%

Traffic Percentages by Vehicle Type

	Day	Evening	Nighttime	Equivalent
Auto	72.48%	9.06%	9.06%	191.7%
MT	5.48%	0.68%	0.68%	14.5%
HT	2.04%	0.26%	0.26%	5.4%

Study Year or Condition	Roadway Segment and Direction of Traffic	Average Saturday Traffic (AST)	Speed (mph)	Auto Noise (at 15m)	MT Noise (at 15m)	HT Noise (at 15m)	CNEL Total (at 15m)
Near Term (2033)	Oak Dell Road North of SR-49	40	20	31.2	32.9	35.4	38.3
	Oak Dell Road South of SR-49	1,440	20	46.7	48.5	50.9	53.8
	SR-49 West of Oak Dell Road	7,390	45	64.0	61.1	61.3	67.1
	SR-49 East of Oak Dell Road	8,010	45	64.3	61.4	61.6	67.4

[data below from 2019 Caltrans truck AADT](#)

Route	District	County	Postmile	Leg	Description of Intersection	Total AADT	Truck AADT	Truck %	Trk 2-axle	Trk 3-axle	Trk 4-axle	Trk 5-axle	Trk 2-axle %	Trk 3-axle %	Trk 4-axle %	Trk 5-axle %
49	3	ED	9.641	A	Pleasant Valley Road	10300	972	9.4	708	84	31	149	72.86	8.63	3.14	15.29

"medium truck" (MT, 2-axle) percentage: 6.84884 "heavy truck" (HT) %: 2.55116

**Roadway Traffic Noise Prediction (CNEL)
(FHWA RD-77-108, using Calveno curves)**

Project: Diamond Spring Community Park

Auto %	90.60%	Day	
MT (%)	6.85%	Evening	
HT (%)	2.55%	Nighttime	

80.00%
10.00%
10.00%

Traffic Percentages by Vehicle Type

	Day	Evening	Nighttime	Equivalent
Auto	72.48%	9.06%	9.06%	191.7%
MT	5.48%	0.68%	0.68%	14.5%
HT	2.04%	0.26%	0.26%	5.4%

Study Year or Condition	Roadway Segment and Direction of Traffic	Average Saturday Traffic (AST)	Speed (mph)	Auto Noise (at 15m)	MT Noise (at 15m)	HT Noise (at 15m)	CNEL Total (at 15m)
Near Term (2033) + Project	Oak Dell Road North of SR-49	40	20	31.2	32.9	35.4	38.3
	Oak Dell Road South of SR-49	3,930	20	51.1	52.8	55.3	58.2
	SR-49 West of Oak Dell Road	8,630	45	64.7	61.7	62.0	67.8
	SR-49 East of Oak Dell Road	9,260	45	65.0	62.0	62.3	68.1

[data below from 2019 Caltrans truck AADT](#)

Route	District	County	Postmile	Leg	Description of Intersection	Total AADT	Truck AADT	Truck %	Trk 2-axle	Trk 3-axle	Trk 4-axle	Trk 5-axle	Trk 2-axle %	Trk 3-axle %	Trk 4-axle %	Trk 5-axle %
49	3	ED	9.641	A	Pleasant Valley Road	10300	972	9.4	708	84	31	149	72.86	8.63	3.14	15.29

"medium truck" (MT, 2-axle) percentage: 6.84884 "heavy truck" (HT) %: 2.55116

CNEL differences (with and without Project)

Oak Dell Road North of SR-49	0.0	0.0	0.0	0.0
Oak Dell Road South of SR-49	4.4	4.4	4.4	4.4
SR-49 West of Oak Dell Road	0.7	0.7	0.7	0.7
SR-49 East of Oak Dell Road	0.6	0.6	0.6	0.6

**Roadway Traffic Noise Prediction (CNEL)
(FHWA RD-77-108, using Calveno curves)**

Project: Diamond Spring Community Park

Auto %	90.60%	Day	
MT (%)	6.85%	Evening	
HT (%)	2.55%	Nighttime	

80.00%
10.00%
10.00%

Traffic Percentages by Vehicle Type

	Day	Evening	Nighttime	Equivalent
Auto	72.48%	9.06%	9.06%	191.7%
MT	5.48%	0.68%	0.68%	14.5%
HT	2.04%	0.26%	0.26%	5.4%

Study Year or Condition	Roadway Segment and Direction of Traffic	Average Saturday Traffic (AST)	Speed (mph)	Auto Noise (at 15m)	MT Noise (at 15m)	HT Noise (at 15m)	CNEL Total (at 15m)
Cumulative (2040)	Oak Dell Road North of SR-49	40	20	31.2	32.9	35.4	38.3
	Oak Dell Road South of SR-49	1,440	20	46.7	48.5	50.9	53.8
	SR-49 West of Oak Dell Road	8,750	45	64.7	61.8	62.0	67.8
	SR-49 East of Oak Dell Road	9,370	45	65.0	62.1	62.3	68.1

[data below from 2019 Caltrans truck AADT](#)

Route	District	County	Postmile	Leg	Description of Intersection	Total AADT	Truck AADT	Truck %	Trk 2-axle	Trk 3-axle	Trk 4-axle	Trk 5-axle	Trk 2-axle %	Trk 3-axle %	Trk 4-axle %	Trk 5-axle %
49	3	ED	9.641	A	Pleasant Valley Road	10300	972	9.4	708	84	31	149	72.86	8.63	3.14	15.29
													"medium truck" (MT, 2-axle) percentage:	6.84884	"heavy truck" (HT) %:	2.55116

**Roadway Traffic Noise Prediction (CNEL)
(FHWA RD-77-108, using Calveno curves)**

Project: Diamond Spring Community Park

Auto %	90.60%	Day	
MT (%)	6.85%	Evening	
HT (%)	2.55%	Nighttime	

80.00%
10.00%
10.00%

Traffic Percentages by Vehicle Type

	Day	Evening	Nighttime	Equivalent
Auto	72.48%	9.06%	9.06%	191.7%
MT	5.48%	0.68%	0.68%	14.5%
HT	2.04%	0.26%	0.26%	5.4%

Study Year or Condition	Roadway Segment and Direction of Traffic	Average Saturday Traffic (AST)	Speed (mph)	Auto Noise (at 15m)	MT Noise (at 15m)	HT Noise (at 15m)	CNEL Total (at 15m)
Cumulative (2040) + Project	Oak Dell Road North of SR-49	40	20	31.2	32.9	35.4	38.3
	Oak Dell Road South of SR-49	3,930	20	51.1	52.8	55.3	58.2
	SR-49 West of Oak Dell Road	9,990	45	65.3	62.4	62.6	68.4
	SR-49 East of Oak Dell Road	10,620	45	65.6	62.6	62.9	68.7

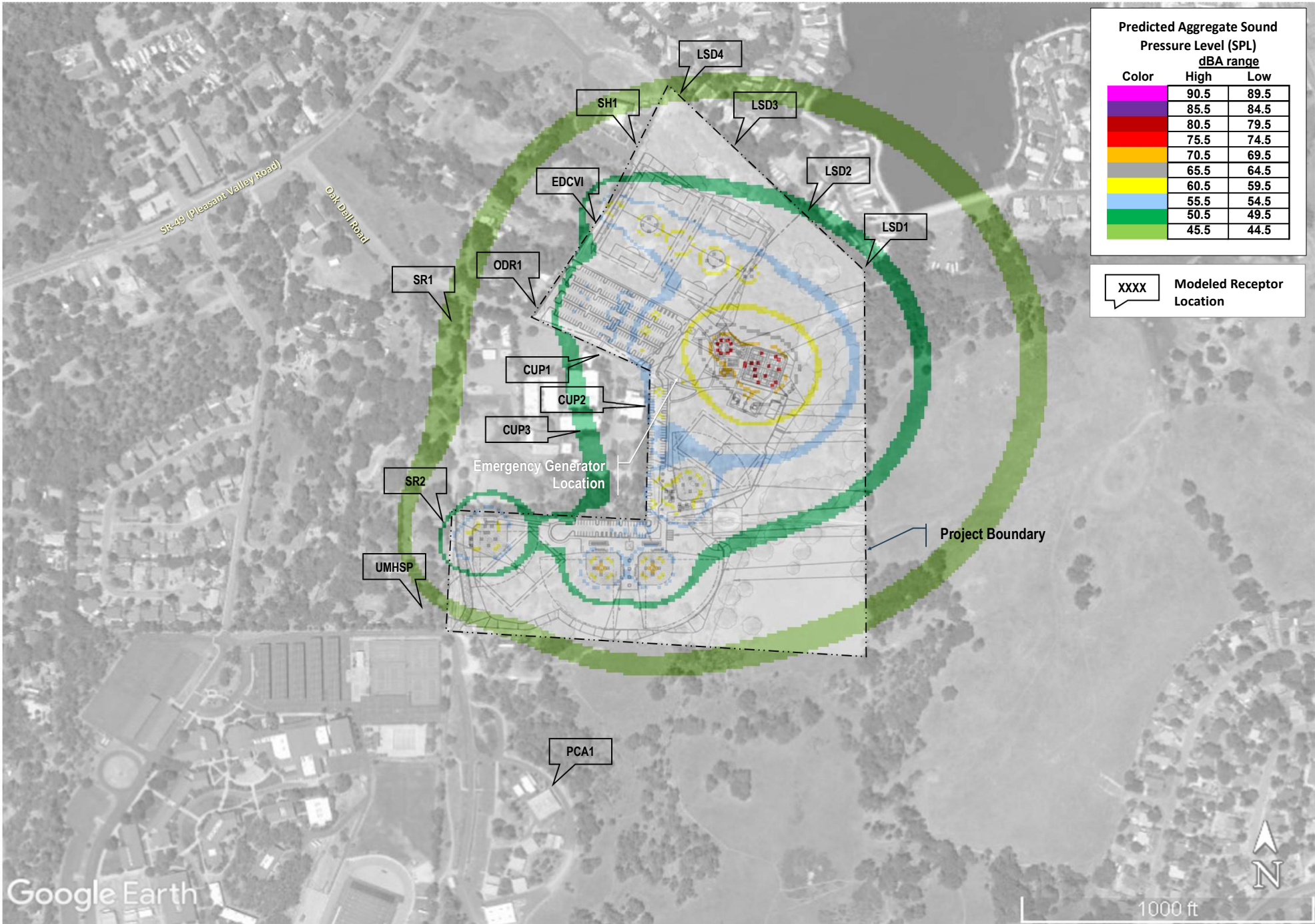
[data below from 2019 Caltrans truck AADT](#)

Route	District	County	Postmile	Leg	Description of Intersection	Total AADT	Truck AADT	Truck %	Trk 2-axle	Trk 3-axle	Trk 4-axle	Trk 5-axle	Trk 2-axle %	Trk 3-axle %	Trk 4-axle %	Trk 5-axle %
49	3	ED	9.641	A	Pleasant Valley Road	10300	972	9.4	708	84	31	149	72.86	8.63	3.14	15.29

"medium truck" (MT, 2-axle) percentage: 6.84884 "heavy truck" (HT) %: 2.55116

CNEL differences (with and without Project)

Oak Dell Road North of SR-49	0.0	0.0	0.0	0.0
Oak Dell Road South of SR-49	4.4	4.4	4.4	4.4
SR-49 West of Oak Dell Road	0.6	0.6	0.6	0.6
SR-49 East of Oak Dell Road	0.5	0.5	0.5	0.5



Google Earth

SOURCE: Google 2023; Dudek 2023

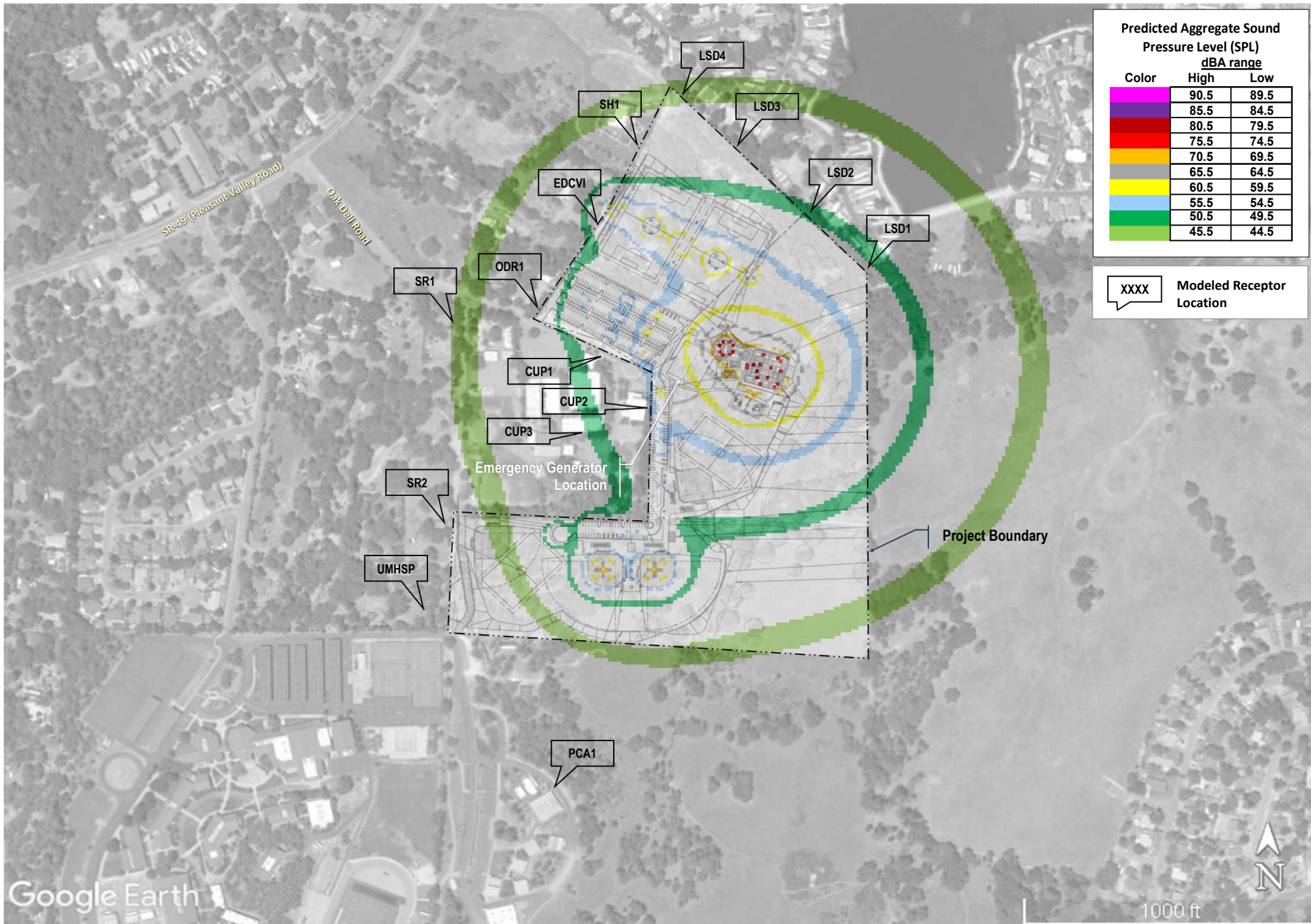
DUDEK



0 117 234 Feet

FIGURE G-1
Predicted Operation Noise - Daytime (7:00 a.m. to 7:00 p.m.) Usage of All Project Facilities Sports Fields

Diamond Springs Community Park (Dudek Project No. 14324)

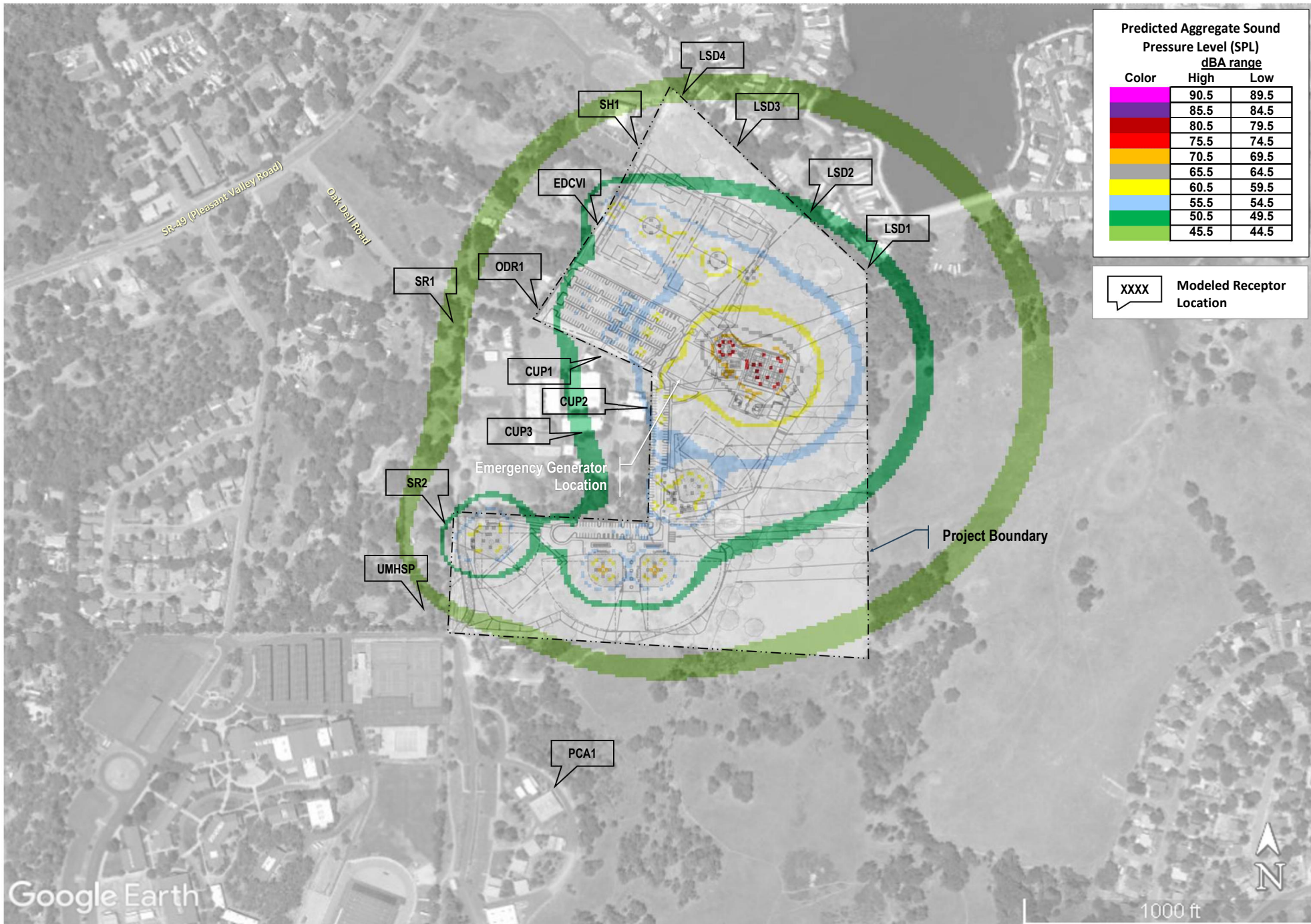


SOURCE: Google 2023; Dudek 2023



FIGURE G-2
Predicted Operation Noise - Evening (7:00 p.m. to 10:00 p.m.) Usage of Project Facilities and Four Lighted Sports Fields

Diamond Springs Community Park (Dudek Project No. 14324)

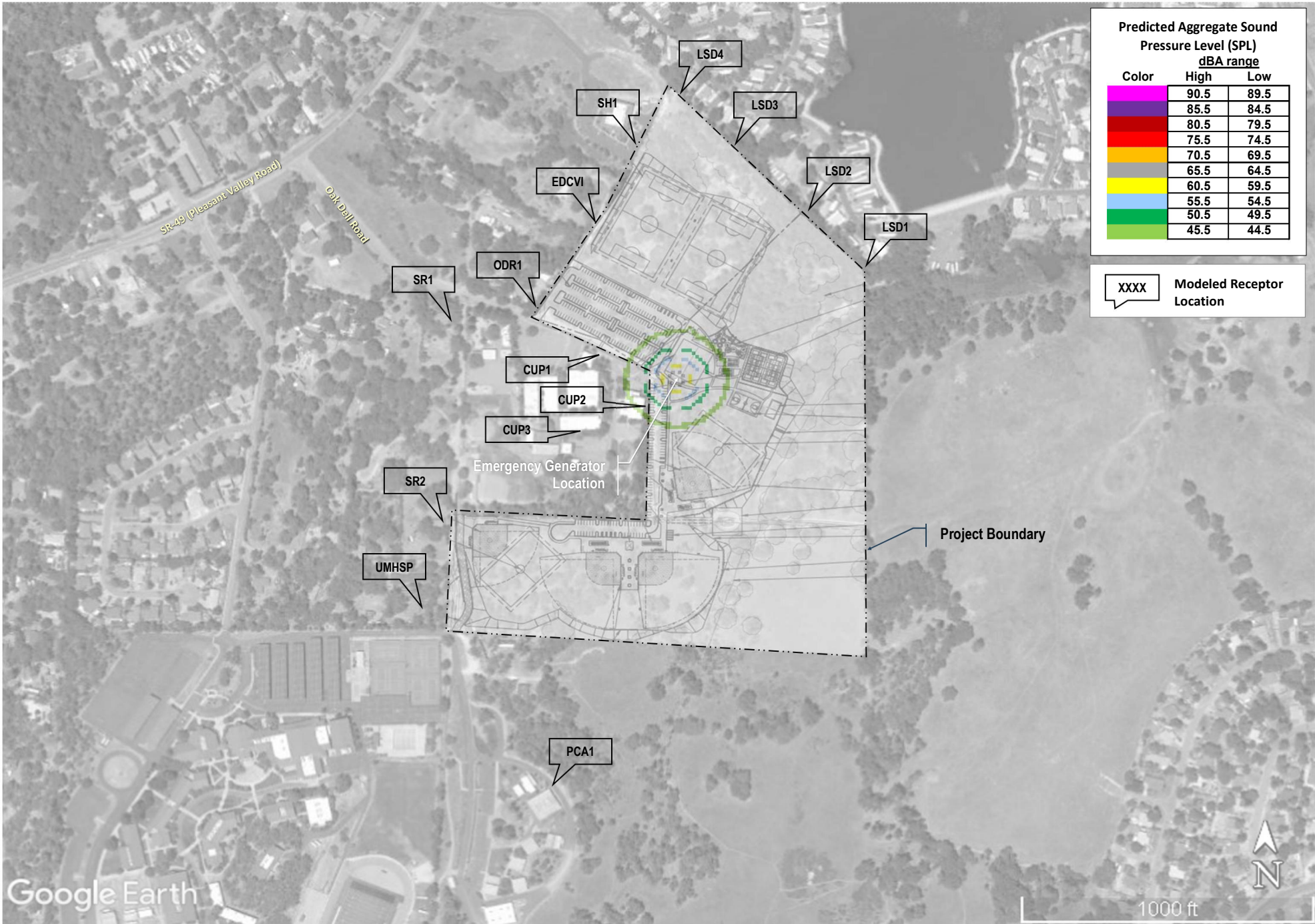


SOURCE: Google 2023; Dudek 2023



FIGURE G-3
 Predicted Operation Noise - Daytime (7:00 a.m. to 7:00 p.m.) Usage of All Project Facilities Sports Fields, includes 20-minute Emergency Generator Test

Diamond Springs Community Park (Dudek Project No. 14324)



SOURCE: Google 2023; Dudek 2023



FIGURE G-4
Predicted Operation Noise - HVAC Systems & Testing of Emergency Generator (test requires 20 minutes, hourly Leq)

Diamond Springs Community Park (Dudek Project No. 14324)

Diamond Springs Community Park Draft EIR

Onsite Stationary Operations Noise Model Input Inventory

grid axis feet To User: enter the Source number in the outlined cells.
 x 11.6959064
 y 11.6959064

Custom Source Description	Tag	SPL(dBA)	Notes
this is intended to "clear" the cumulative+source on a "Reset" click	CLEAR	-40	additional notes below for Custom sources:
youth or adult soccer game or practice L25 at 30m	SOC	52	Hayne (2006), Table 1
youth or adult baseball game or practice L25 at 30m	BAS	52	Hayne (2006), Table 1
eight people (+9 dB) "loud speaking" at 1m (66 dBA), half the time (-3 dB)	8LS	78	Hayne (2006), Table 2
Pickleball Play (one court, at 20 feet)	PKLBL	77	Dudek confidential project
idling passenger vehicle (1m)	IPV	69	CadnaA
5-ton Bryant Air Conditioner	5TON	62	Bryant BH16-060
emer. diesel-fueled generator test at 23 ft, 20-min. duration (-4.8 dB) test	K120	66	Kohler 120REOZT4 (base of 71 dBA at 23 ft.)
restroom exhaust fan at 1m	XFAN	50	ENC 2nd ed. Calcs
eight kids (+9 dB) shouting at 1m (80 dBA) during play, half-time (-3 dB)	PLAY	93	Hayne (2006), Table 2
Custom #10 (user input)	0	0	0
Custom #11 (user input)	0	0	0
Custom #12 (user input)	0	0	0

Source	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Source Tag	ULC	LSF1SW	LSF1SE	LSF2SW	LSF2SE	LSF1	LSF2	PLN1	PLN2	PLN3	PLN4	PLN5	PLN6	PLN7	PLN8	PLN9	PLS1	PLS2	PLS3	PLS4
Source X-coordinate	11.6959064	2105.26316	2327.48538	2327.48538	2561.40351	2222.22222	2444.44444	2011.69591	2140.35088	2245.61404	1988.30409	2105.26316	2210.52632	1964.91228	2081.87135	2187.1345	2257.30994	2257.30994	2257.30994	2245.61404
Source Y-coordinate	11.6959064	760.233918	877.192982	888.888889	994.152047	818.71345	947.368421	1017.54386	1087.7193	1146.19883	1087.7193	1146.19883	1204.67836	1157.89474	1216.37427	1274.8538	1426.90058	1520.46784	1625.73099	1742.69006
Source Z-coordinate	6	6	6	6	6	6	6	3	3	3	3	3	3	3	3	3	3	3	3	3
Source Type (enter abbrev.)	CLEAR	8LS	8LS	8LS	8LS	BAS	BAS	IPV	IPV	IPV	IPV	IPV	IPV	IPV	IPV	IPV	IPV	IPV	IPV	IPV
Source Reference SPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Source Reference Distance (ft.)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Source Height Above Grade (ft.)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Source	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Source Tag	PLS5	PLS6	PLS7	PLS8	PLS9	RX1	RX2	PA1	PN1	PN2	PB1	PB2	PB3	PB4	EG1	BB1	BBS1	USB1	USB2	LSB1
Source X-coordinate	2233.91813	2198.83041	2116.95906	2023.39181	1894.73684	2362.5731	2152.04678	2479.53216	2502.92398	2479.53216	2584.79532	2643.27485	2573.09942	2631.57895	2315.78947	2549.7076	2561.40351	2362.5731	1672.51462	2233.91813
Source Y-coordinate	1836.25731	1929.82456	1929.82456	1918.12865	1941.52047	1204.67836	1988.30409	1263.15789	1321.63743	1356.72515	1309.94152	1321.63743	1356.72515	1380.11696	1380.11696	1473.68421	1438.59649	1766.08187	1964.91228	2070.17544
Source Z-coordinate	3	3	3	3	3	12	12	6	4	4	3.5	3.5	3.5	3.5	6	6	6	6	6	6
Source Type (enter abbrev.)	IPV	IPV	IPV	IPV	IPV	XFAN	XFAN	PLAY	8LS	8LS	PKLBL	PKLBL	PKLBL	PKLBL	K120	8LS	8LS	BAS	BAS	BAS
Source Reference SPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Source Reference Distance (ft.)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Source Height Above Grade (ft.)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Source	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Source Tag	LSB2	USB1SW	USB1SS	USB2SW	USB2SN	IG1	S047	S048	S049	S050	S051	S052	S053	S054	S055	S056	S057	S058	S059	S060
Source X-coordinate	2058.47953	2292.39766	2339.18129	1602.33918	1672.51462	2339.18129	-11.695906	-11.695906	-11.695906	-11.695906	-11.695906	-11.695906	-11.695906	-11.695906	-11.695906	-11.695906	-11.695906	-11.695906	-11.695906	-11.695906
Source Y-coordinate	2070.17544	1801.16959	1847.95322	1976.60819	1906.43275	1391.81287	-11.695906	-11.695906	-11.695906	-11.695906	-11.695906	-11.695906	-11.695906	-11.695906	-11.695906	-11.695906	-11.695906	-11.695906	-11.695906	-11.695906
Source Z-coordinate	6	6	6	6	6	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Source Type (enter abbrev.)	BAS	8LS	8LS	8LS	8LS	5TON	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Source Reference SPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Source Reference Distance (ft.)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Source Height Above Grade (ft.)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

