

* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Exisiting Condition, Broadway between Third and Herrick

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	634.0
Average automobile speed (mph):	30.0
Medium truck volume (v/h):	75.0
Average medium truck speed (mph):	30.0
Heavy truck volume (v/h):	37.0
Average heavy truck speed (mph):	30.0
Bus volume (v/h):	1.0
Average bus speed (mph):	25.0
Motorcycle volume (v/h):	0.0
Average Motorcycle speed (mph):	0.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Residential

Distance from center of 12-ft wide, single lane roadway (ft): 33.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA): 67.1

* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Full Development, Broadway between Third and Herrick

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	1277.0
Average automobile speed (mph):	30.0
Medium truck volume (v/h):	247.0
Average medium truck speed (mph):	30.0
Heavy truck volume (v/h):	123.0
Average heavy truck speed (mph):	30.0
Bus volume (v/h):	1.0
Average bus speed (mph):	25.0
Motorcycle volume (v/h):	0.0
Average Motorcycle speed (mph):	0.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Residential

Distance from center of 12-ft wide, single lane roadway (ft): 33.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA): 71.8

Measurement result information:

Equivalent sound level Leq 71.9 dB Q = 3 ←
Sound exposure level SEL 107.7 dB No threshold; No criterion; Q = 3

Threshold level --
Criterion level 90 dB
Exchange rate Q 3

Exceedance times (from SPL levels):

	hh:mm:ss	for % of run
Time under range	00:00:00.00	0.00 %
Above or equal to 70 dB	00:17:48.09	28.09 %
Above or equal to 85 dB	00:00:08.46	0.22 %
Above or equal to 90 dB	00:00:02.66	0.07 %
Above or equal to 100 dB	00:00:00.81	0.02 %
Above or equal to 115 dB	n.a.	
Above or equal to 140 dB	n.a.	
Time over range	00:00:01.00	0.02 %
Above or equal to user specified level	00:00:22.53	0.59 %
User specified level	80 dB	

Maximum exceedance levels:

RMS maximum level (Fast)	102.7 dB	at mm/dd/yyyy hh:mm:ss
Peak exceedance level	104.7 dB	at 06/04/2009 18:50:11
		at 06/04/2009 18:50:10

Statistical exceedance levels:

L1.0%	78.5 dB
L10.0%	73.5 dB
L50.0%	68.0 dB
L90.0%	62.5 dB
L99.0%	56.0 dB

Time history profile information:

Profiles	On
Profile sample interval	1 min
Profile function 1	Leq
Profile function 2	LINPEAK

- Profile -

Overload occurred	Yes
Low battery occurred	No
Number of pauses	1
Profile sample interval	1 min
First datapoint listed	1 : 65

Datapoint	Flags (OBPZ)	Date and Time	Leq dB, (A)	LINPEAK dB, (L)	
1	O---	06/04/2009 18:06:00	67.3	104.6	
2	O---	06/04/2009 18:07:00	72.0	104.7	<i>Horn.</i>
3	O---	06/04/2009 18:08:00	73.3	104.7	
4	O---	06/04/2009 18:09:00	66.1	103.5	
5	O---	06/04/2009 18:10:00	71.5	104.7	
6	O---	06/04/2009 18:11:00	69.8	104.7	
7	----	06/04/2009 18:12:00	70.4	101.2	
8	----	06/04/2009 18:13:00	66.8	102.2	
9	----	06/04/2009 18:14:00	66.4	98.3	<i>Tram Bell</i>
10	O---	06/04/2009 18:15:00	71.0	104.7	
11	O---	06/04/2009 18:16:00	68.8	103.4	
12	O---	06/04/2009 18:17:00	68.4	103.9	
13	O---	06/04/2009 18:18:00	71.6	104.7	<i>Tram Bell</i>
14	O---	06/04/2009 18:19:00	70.8	104.7	
15	----	06/04/2009 18:20:00	67.5	98.0	
16	----	06/04/2009 18:21:00	67.9	101.3	
17	O---	06/04/2009 18:22:00	72.7	104.7	
18	O---	06/04/2009 18:23:00	69.2	104.7	
19	----	06/04/2009 18:24:00	68.2	100.1	
20	----	06/04/2009 18:25:00	68.6	99.1	
21	----	06/04/2009 18:26:00	68.1	99.3	
22	O---	06/04/2009 18:27:00	66.7	103.7	
23	----	06/04/2009 18:28:00	69.8	100.3	<i>Trailer</i>
24	----	06/04/2009 18:29:00	72.3	101.5	<i>Pepsi truck</i>
25	O---	06/04/2009 18:30:00	74.0	104.7	
26	----	06/04/2009 18:31:00	68.8	98.3	
27	----	06/04/2009 18:32:00	68.9	98.0	
28	----	06/04/2009 18:33:00	64.4	97.3	
29	----	06/04/2009 18:34:00	69.0	98.0	
30	----	06/04/2009 18:35:00	68.4	97.4	
31	----	06/04/2009 18:36:00	67.3	99.5	
32	----	06/04/2009 18:37:00	67.0	97.7	
33	----	06/04/2009 18:38:00	68.1	99.0	
34	----	06/04/2009 18:39:00	67.9	98.9	
35	----	06/04/2009 18:40:00	68.7	100.1	
36	----	06/04/2009 18:41:00	69.7	102.3	
37	----	06/04/2009 18:42:00	70.0	100.3	
38	----	06/04/2009 18:43:00	69.8	101.3	
39	----	06/04/2009 18:44:00	70.3	102.3	<i>Smaller train. (cab)</i>
40	----	06/04/2009 18:45:00	69.9	100.1	
41	----	06/04/2009 18:46:00	70.8	101.0	
42	----	06/04/2009 18:47:00	69.9	100.7	
43	----	06/04/2009 18:48:00	69.6	100.3	
44	----	06/04/2009 18:49:00	70.5	101.3	
45	O---	06/04/2009 18:50:00	85.2	104.7	<i>Police Car Siren</i>
46	O---	06/04/2009 18:51:00	71.7	104.7	<i>People talking</i>
47	----	06/04/2009 18:52:00	70.6	102.4	
48	----	06/04/2009 18:53:00	69.9	101.5	
49	----	06/04/2009 18:54:00	70.8	101.2	

50	----	06/04/2009 18:55:00	70.7	102.7
51	----	06/04/2009 18:56:00	68.3	100.8
52	O--	06/04/2009 18:57:00	74.7	104.7
53	----	06/04/2009 18:58:00	71.4	101.6
54	----	06/04/2009 18:59:00	71.1	101.2
55	----	06/04/2009 19:00:00	71.9	102.9
56	O--	06/04/2009 19:01:00	73.3	103.8
57	----	06/04/2009 19:02:00	70.5	101.7
58	----	06/04/2009 19:03:00	70.7	102.4
59	----	06/04/2009 19:04:00	70.8	101.8
60	----	06/04/2009 19:05:00	71.6	102.9
61	O--	06/04/2009 19:06:00	70.0	104.2
62	----	06/04/2009 19:07:00	67.3	97.8
63	--P-	06/04/2009 19:08:00	68.3	99.8
64	--P-	06/04/2009 19:09:00	67.7	95.0
65	----	06/04/2009 19:10:00	68.3	97.0

Trailer
Fire truck (no Swen)

" "

train depart

end session

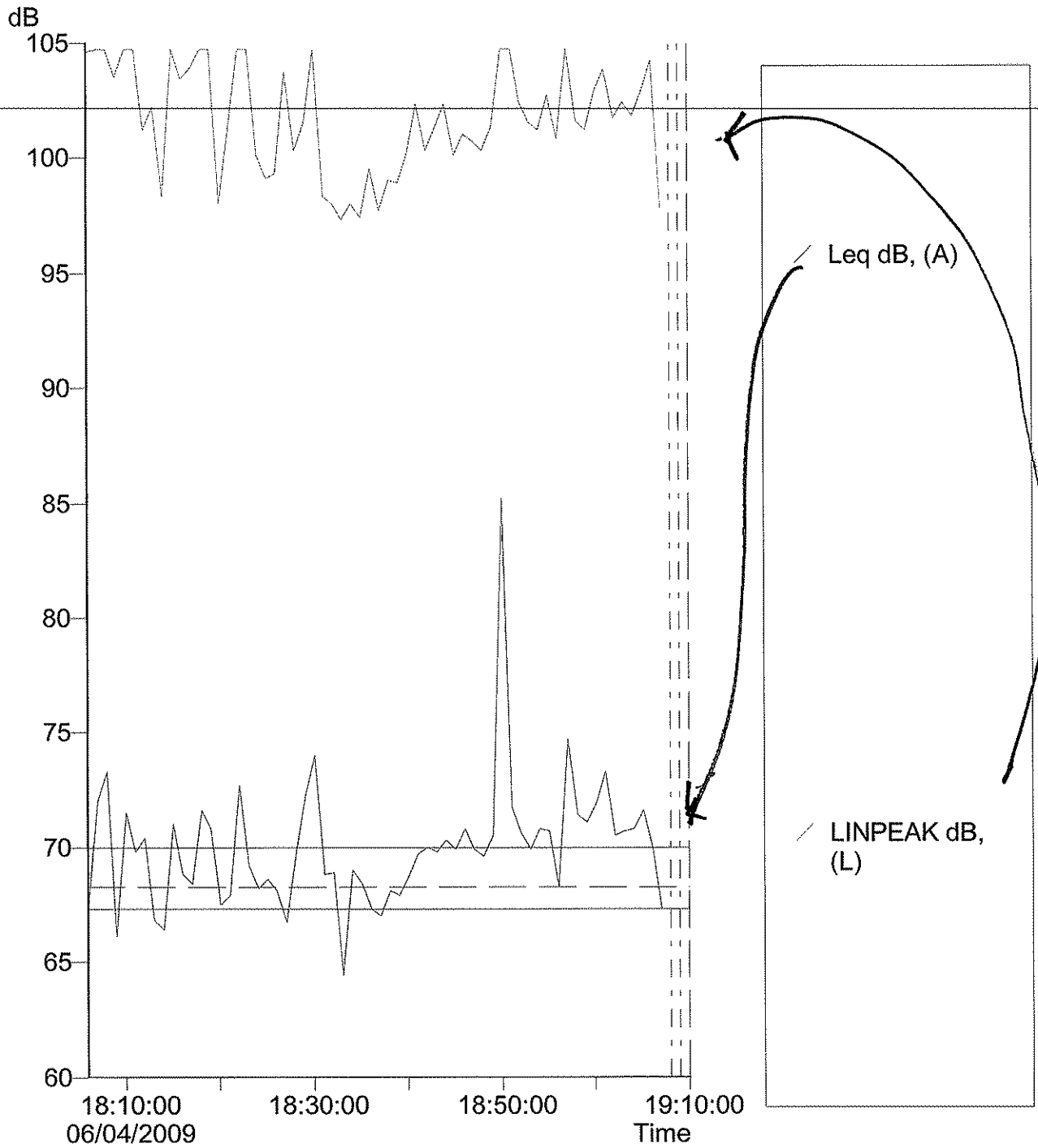
- Statistical information -

Cell width (dB)	0.5
Total count	380256
Duration of pause	00:01:37.44

Cell	dB	Probability %time	Cumulative %time	Exceedance time	Cell count
1	(UR)	0.00	100.00	01:03:23	0
2	30.0	0.00	100.00	01:03:23	0
3	30.5	0.00	100.00	01:03:23	0
4	31.0	0.00	100.00	01:03:23	0
5	31.5	0.00	100.00	01:03:23	0
6	32.0	0.00	100.00	01:03:23	0
7	32.5	0.00	100.00	01:03:23	0
8	33.0	0.00	100.00	01:03:23	0
9	33.5	0.00	100.00	01:03:23	0
10	34.0	0.00	100.00	01:03:23	0
11	34.5	0.00	100.00	01:03:23	0
12	35.0	0.00	100.00	01:03:23	0
13	35.5	0.00	100.00	01:03:23	0
14	36.0	0.00	100.00	01:03:23	0
15	36.5	0.00	100.00	01:03:23	0
16	37.0	0.00	100.00	01:03:23	0
17	37.5	0.00	100.00	01:03:23	0
18	38.0	0.00	100.00	01:03:23	0
19	38.5	0.00	100.00	01:03:23	0
20	39.0	0.00	100.00	01:03:23	0
21	39.5	0.00	100.00	01:03:23	0
22	40.0	0.00	100.00	01:03:23	0
23	40.5	0.00	100.00	01:03:23	0
24	41.0	0.00	100.00	01:03:23	0
25	41.5	0.00	100.00	01:03:23	0
26	42.0	0.00	100.00	01:03:23	0
27	42.5	0.00	100.00	01:03:23	0
28	43.0	0.00	100.00	01:03:23	0
29	43.5	0.00	100.00	01:03:23	0
30	44.0	0.00	100.00	01:03:23	0
31	44.5	0.00	100.00	01:03:23	0
32	45.0	0.00	100.00	01:03:23	0
33	45.5	0.00	100.00	01:03:23	0
34	46.0	0.00	100.00	01:03:23	0
35	46.5	0.00	100.00	01:03:23	0
36	47.0	0.00	100.00	01:03:23	0
37	47.5	0.00	100.00	01:03:23	0
38	48.0	0.00	100.00	01:03:23	0
39	48.5	0.00	100.00	01:03:23	0
40	49.0	0.00	100.00	01:03:23	0
41	49.5	0.00	100.00	01:03:23	0
42	50.0	0.00	100.00	01:03:23	0
43	50.5	0.00	100.00	01:03:23	0
44	51.0	0.01	100.00	01:03:23	43
45	51.5	0.03	99.99	01:03:22	131
46	52.0	0.07	99.95	01:03:21	262
47	52.5	0.09	99.89	01:03:18	347
48	53.0	0.10	99.79	01:03:15	384
49	53.5	0.09	99.69	01:03:11	351
50	54.0	0.09	99.60	01:03:07	348
51	54.5	0.11	99.51	01:03:04	413

52	55.0	0.14	99.40	01:03:00	514
53	55.5	0.17	99.27	01:02:55	656
54	56.0	0.26	99.09	01:02:48	999
55	56.5	0.34	98.83	01:02:38	1300
56	57.0	0.41	98.49	01:02:25	1565
57	57.5	0.41	98.08	01:02:09	1549
58	58.0	0.44	97.67	01:01:54	1683
59	58.5	0.45	97.23	01:01:37	1707
60	59.0	0.62	96.78	01:01:20	2361
61	59.5	0.69	96.16	01:00:56	2613
62	60.0	0.80	95.47	01:00:30	3057
63	60.5	0.94	94.67	01:00:00	3574
64	61.0	1.02	93.73	00:59:24	3895
65	61.5	1.11	92.70	00:58:45	4233
66	62.0	1.20	91.59	00:58:03	4556
67	62.5	1.76	90.39	00:57:17	6680
68	63.0	2.51	88.63	00:56:10	9535
69	63.5	2.74	86.13	00:54:35	10404
70	64.0	3.11	83.39	00:52:51	11841
71	64.5	2.87	80.28	00:50:53	10919
72	65.0	2.74	77.40	00:49:03	10438
73	65.5	2.93	74.66	00:47:19	11141
74	66.0	3.48	71.73	00:45:28	13242
75	66.5	4.74	68.25	00:43:15	18031
76	67.0	5.85	63.51	00:40:15	22226
77	67.5	6.52	57.66	00:36:33	24787
78	68.0	6.33	51.14	00:32:25	24073
79	68.5	6.24	44.81	00:28:24	23728
80	69.0	5.68	38.57	00:24:27	21615
81	69.5	4.80	32.89	00:20:51	18246
82	70.0	4.12	28.09	00:17:48	15680
83	70.5	3.10	23.97	00:15:11	11793
84	71.0	2.65	20.86	00:13:13	10086
85	71.5	2.41	18.21	00:11:33	9150
86	72.0	2.11	15.81	00:10:01	8019
87	72.5	1.90	13.70	00:08:41	7226
88	73.0	1.70	11.80	00:07:29	6480
89	73.5	1.55	10.09	00:06:24	5878
90	74.0	1.33	8.55	00:05:25	5055
91	74.5	1.26	7.22	00:04:34	4783
92	75.0	1.05	5.96	00:03:47	4007
93	75.5	0.81	4.91	00:03:07	3076
94	76.0	0.79	4.10	00:02:36	3023
95	76.5	0.72	3.30	00:02:06	2735
96	77.0	0.54	2.58	00:01:38	2053
97	77.5	0.46	2.04	00:01:18	1761
98	78.0	0.38	1.58	00:01:00	1456
99	78.5	0.30	1.20	00:00:45	1158
100	79.0	0.19	0.89	00:00:34	723
101	79.5	0.11	0.70	00:00:27	414
102	80.0	0.07	0.59	00:00:23	250
103	80.5	0.06	0.53	00:00:20	227
104	81.0	0.05	0.47	00:00:18	172
105	81.5	0.04	0.42	00:00:16	136
106	82.0	0.03	0.39	00:00:15	102
107	82.5	0.02	0.36	00:00:14	80
108	83.0	0.03	0.34	00:00:13	111
109	83.5	0.03	0.31	00:00:12	108
110	84.0	0.02	0.28	00:00:11	93
111	84.5	0.03	0.26	00:00:10	128

112	85.0	0.02	0.22	00:00:08	91
113	85.5	0.02	0.20	00:00:08	86
114	86.0	0.02	0.18	00:00:07	87
115	86.5	0.02	0.15	00:00:06	58
116	87.0	0.02	0.14	00:00:05	60
117	87.5	0.02	0.12	00:00:05	90
118	88.0	0.01	0.10	00:00:04	56
119	88.5	0.00	0.08	00:00:03	19
120	89.0	0.01	0.08	00:00:03	21
121	89.5	0.00	0.07	00:00:03	12
122	90.0	0.00	0.07	00:00:03	16
123	90.5	0.00	0.07	00:00:03	8
124	91.0	0.00	0.06	00:00:02	6
125	91.5	0.00	0.06	00:00:02	3
126	92.0	0.00	0.06	00:00:02	4
127	92.5	0.00	0.06	00:00:02	7
128	93.0	0.00	0.06	00:00:02	12
129	93.5	0.00	0.06	00:00:02	9
130	94.0	0.00	0.05	00:00:02	5
131	94.5	0.00	0.05	00:00:02	4
132	95.0	0.00	0.05	00:00:02	4
133	95.5	0.00	0.05	00:00:02	3
134	96.0	0.00	0.05	00:00:02	9
135	96.5	0.00	0.05	00:00:02	14
136	97.0	0.00	0.04	00:00:02	13
137	97.5	0.01	0.04	00:00:01	20
138	98.0	0.01	0.03	00:00:01	22
139	98.5	0.00	0.03	00:00:01	13
140	99.0	0.00	0.02	00:00:01	2
141	99.5	0.00	0.02	00:00:01	11
142	100.0	0.00	0.02	00:00:01	11
143	(OR)	0.02	0.02	00:00:01	70



E:\design build\drawings\crescent environmental\renns waterfront study\renns intersection study -dose -02.dta
 Overall profile duration = 01:05:00 (65 samples)
 Cursor 1: Time = 06/04/2009 18:06:00, Level = 67.3, 104.6 dB, Flags: 0---
 Cursor 2: Time = 06/04/2009 19:10:00, Level = 68.3, 97.0 dB, Flags: ----
 Duration on / between the cursors = 01:05:00, Flags: 0---, Scale: 1:1, Threshold: 70 dB

Removing the dB's of paused samples: Yes

- Leq -

Time at or above 70 dB = 00:29:00, overall

NOISE DOSIMETER SURVEY REPORT FORM

Report format General Format for Exposure to Noise at Work
Data filename E:\design build\drawings\crescent environmental\renns waterfront study\renns intersection st

.....
User entered information:

Company name
Wearer's name
Location
Department
Job function
Payroll number
Social Security number

User entered notes:

Notes

.....
Setup information:

Setup name TRAFF
Dosimeter model number CEL-460
Dosimeter serial number 101977
Frequency weighting for RMS A
Frequency weighting for Peak Linear
Time weighting Fast
Measurement range 30 - 100 dB

.....
User calibration information:

Instrument last checked on 06/03/2009 13:25:26
Microphone serial number 80002042042

.....
Logging time information:

	mm/dd/yyyy	hh:mm:ss	Duration hh:mm:ss.ss
Start of run	06/04/2009	18:06:00	
End of run	06/04/2009	19:11:00	
Duration of run			01:03:22.56
Duration of pause			00:01:37.44