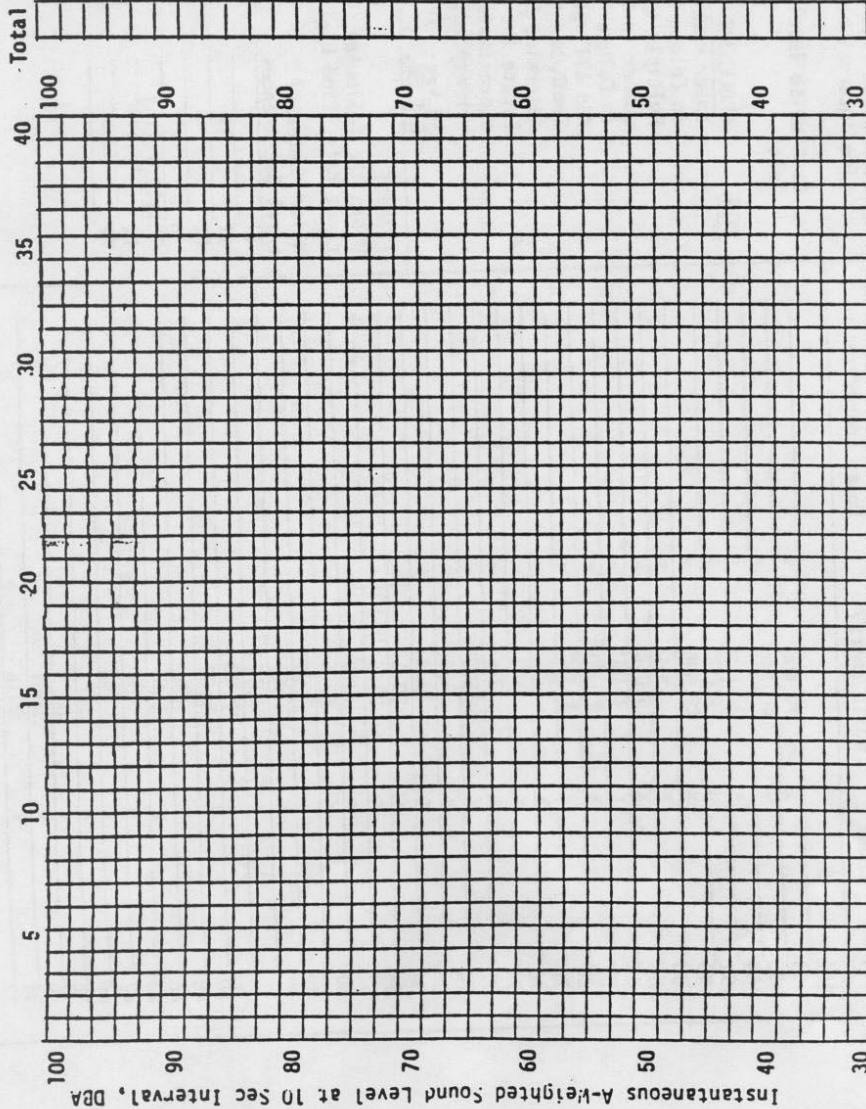


Appendix F- COMMUNITY NOISE MEASUREMENT DATA SHEET

SITE No. _____ PACKET No. _____ CLUSTER _____ AREA _____

Location _____
 Operators _____
 Date DAY M TU W TH F SAT SUN
 TIME AM/PM TO AM/PM
 WIND SPEED KM/H (MPH)
 AIR TEMPERATURE °C (°F)



MASTER CHECK ()
 BATTERY: OK REPLACED
 SETTINGS: A SLOW
 CALIBRATIONS: SET TO DB.END DB

MISCELLANEOUS(After Data Coll.)
 Background Noise Sources
 Unusual Situations or Interferences:
 Comments

DESCRIPTION	EVALUATION
V. QUIET	V. ACCEPT.
QUIET	ACCEPTABLE
M. QUIET	M. ACCEPTABLE
NOISY	UNACCEPTABLE
V. NOISY	V. UNACCEPT.

Code for identifiable Simple noise sources

TRANSPORTATION	MACHINERY
E EMER. VEH.	C CONSTRUCTION
G GEN. AVIA.	Y YARD MAINT.
J JET	F FACTORY
H HELICOPTER	Q HOUSEHOLD
R RAILROAD	OTHER
T TRUCK	D DOOR
A AUTO	P PEOPLE NOISE
B BUS	X UNIDENTIFIABLE
M MOTORCYCLE	
S SERVICE VEH.	
V OFF RD. VEH.	

FURTHER COMMENTS:

Computational Work Sheet to Hand-Calculate L_{eq} from Sound Level Meter Measurements Recorded on Data Log

A	B				
Noise Level Band, dB	Count	Relative Noise Energy	Relative Total Noise Energy		
100					
98	x	79,400	=		
96	x	50,100	=		
94	x	31,600	=		
92	x	20,000	=		
90	x	12,600	=		
88	x	7,910	=		
86	x	5,010	=		
84	x	3,160	=		
82	x	2,000	=		
80	x	1,260	=		
78	x	794	=		
76	x	501	=		
74	x	316	=		
72	x	200	=		
70	x	126	=		
68	x	79.4	=		
66	x	50.1	=		
64	x	31.6	=		
62	x	20.0	=		
60	x	12.6	=		
58	x	7.94	=		
56	x	5.01	=		
54	x	3.16	=		
52	x	2.00	=		
50	x	1.26	=		
48	x	.79	=		
46	x	.501	=		
44	x	.316	=		
42	x	.200	=		
40	x	.126	=		
38	x	.0794	=		
36	x	.0501	=		
34	x	.0316	=		
32	x	.0200	=		
30	x	.0126	=		
SUM B =			SUM D =		
SUM D/SUM B =					

DATA REQUIREMENTS:

- Each noise reading must be taken at a standard time interval between measurements.
- Each noise level recorded is the instantaneous level.

STEP

PROCEDURE

- Enter number of counts per noise level in Column B.
- Multiply the counts in Column B by the number in Column C and enter the result in Column D.
- Add all values in Column B to determine Sum B, add all values in Column D to determine Sum D and divide Sum D by Sum B.
- Locate the value in Column C that is approximately equal Sum D/Sum B. The corresponding value in Column A is equal to L_{eq} . Interpolate to the nearest 0.5 dB.

EXAMPLE

Using Steps 1 through 4 gives the following

count date, find L_{eq}

Noise Level Occurrences

81

82

80

78

76

74

72

70

68

66

64

62

60

58

56

54

52

50

48

46

44

42

40

38

36

34

32

30

28

26

24

22

20

18

16

14

12

10

8

6

4

2

0

-2

-4

-6

-8

-10

-12

-14

-16

-18

-20

-22

-24

-26

-28

-30

-32

-34

-36

-38

-40

-42

-44

-46

-48

-50

-52

-54

-56

-58

-60

-62

-64

-66

-68

-70

-72

-74

-76

-78

-80

-82

-84

-86

-88

-90

-92

-94

-96

-98

-100

-102

-104

-106

-108

-110

-112

-114

-116

-118

-120

-122

-124

-126

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-426