

Parameters

Project	Blackstone Lot 2
Model revision	
# of reflections	
G on-site	
G off-site	
Total exceedances	2728

Sound barrier walls	cost/sf	cost	h (ft)	l (ft)	area (sf)
#DESCRIPTION	\$50	\$0			0
#DESCRIPTION	\$50	\$0			0
#DESCRIPTION	\$50	\$0			0
#DESCRIPTION		\$0			0
#DESCRIPTION		\$0			0
Total	-	\$0	-	-	0

Design goals	Margin	R01	R02	R03	R04	R05	R06	R07
Sound monitor location		SM	SM	SM	SM	SM	SM	SM
Average nighttime L90		29	29	29	29	29	29	29
Average Van Hours L90		33	33	33	33	33	33	33
Design Goal--Continuous	10	39	39	39	39	39	39	39
Design Goal--Impulsive	15	44	44	44	44	44	44	44
Design Goal--Tonal Trucks	5	34	34	34	34	34	34	34
Design Goal--Tonal Vans	5	38	38	38	38	38	38	38
MassDEP, Night, Stationary Continuous		35	35	35	35	35	35	35
Applicable Regulation, Night, Impulsive		100	100	100	100	100	100	100
Applicable Regulation, Night, Tonal		100	100	100	100	100	100	100
Lower Night Limit or Goal-Continuous		35	35	35	35	35	35	35
Lower Night Limit or Goal-Impulsive		44	44	44	44	44	44	44
Lower Night Limit or Goal-Tonal Truck		34	34	34	34	34	34	34
Design Goal-Tonal Van		38	38	38	38	38	38	38

Results

V02-Rec Controls

Source

Partial Level Day

<i>Name</i>	<i>M.</i>	<i>ID</i>	<i>R1</i>	<i>R2</i>	<i>Stab/et Of</i>	<i>R5</i>	<i>R6</i>	<i>R7</i>	
Backup Alarm Tonal		!02!SL01_BAT	30	34	35	44	40	27	33
Trailer Disconnect		!02!SL01_DIS	40	44	45	53	50	39	45
Truck High Idle		!02!SL01_THI	30	34	35	42	40	29	35
Truck Pass-by		!01!SL01_TPB	35	39	39	45	43	33	37
Backup Alarm Tonal		!02!SL02_BAT	30	35	44	44	37	27	32
Trailer Disconnect		!02!SL02_DIS	40	45	53	53	48	38	43
Truck High Idle		!02!SL02_THI	30	34	42	42	38	28	33
Truck Pass-by		!01!SL02_TPB	38	42	47	47	45	34	35
Backup Alarm Tonal		!02!SL03_BAT	30	34	39	44	41	29	36
Trailer Disconnect		!02!SL03_DIS	39	43	48	53	51	40	46

Truck High Idle	!02!SL03_THI	29	33	38	43	41	30	36
Truck Pass-by	!01!SL03_TPB	32	37	43	48	48	37	43
Backup Alarm Tonal	!02!SL04_BAT	31	38	44	45	41	33	37
Trailer Disconnect	!02!SL04_DIS	41	47	54	54	51	42	47
Truck High Idle	!02!SL04_THI	31	37	44	43	41	32	37
Truck Pass-by	!01!SL04_TPB	36	35	49	51	47	38	42
Truck Pass-by	!01!SL05_TPB	31	38	44	41	44	35	43
Backup Alarm Tonal	!01!SL06_BAT	24	30	38	36	40	28	37
Conveyor	!01!SL06_CON	18	25	29	24	12	6	4
Trailer Disconnect	!01!SL06_DIS	36	45	49	48	48	40	46
Fork Lift in Trailer	!01!SL06_FKLFT	26	35	38	36	34	27	21
Truck High Idle	!01!SL06_THI	26	35	40	38	38	30	35
Truck Pass-by	!01!SL06_TPB	27	36	42	42	43	31	40
Backup Alarm Tonal	!01!SL07_BAT	30	37	45	40	23	20	18
Conveyor	!01!SL07_CON	19	24	33	29	6	2	2
Trailer Disconnect	!01!SL07_DIS	41	47	54	49	34	31	30
Fork Lift in Trailer	!01!SL07_FKLFT	28	33	40	36	21	18	18
Truck High Idle	!01!SL07_THI	31	37	44	39	24	21	20
Truck Pass-by	!01!SL07_TPB	36	41	47	45	31	27	27
Backup Alarm Tonal	!01!SL08_BAT	29	34	45	42	22	23	19
Conveyor	!01!SL08_CON	18	22	29	27	5	2	2
Trailer Disconnect	!01!SL08_DIS	39	44	52	50	33	33	30
Fork Lift in Trailer	!01!SL08_FKLFT	26	31	37	35	22	18	21
Truck High Idle	!01!SL08_THI	29	33	41	40	23	23	21
Truck Pass-by	!01!SL08_TPB	34	38	45	42	30	25	27
Backup Alarm Tonal	!01!SL09_BAT	28	36	40	40	21	17	18
Conveyor	!01!SL09_CON	13	18	25	25	4	1	1
Trailer Disconnect	!01!SL09_DIS	37	42	49	48	33	28	30
Fork Lift in Trailer	!01!SL09_FKLFT	24	28	34	33	20	16	17
Truck High Idle	!01!SL09_THI	27	31	38	37	22	18	19
Truck Pass-by	!01!SL09_TPB	31	35	42	43	30	25	27
Truck Pass-by	!01!SL10_TPB	32	34	40	41	28	24	25
Truck Pass-by	!01!SL11_TPB	33	31	34	36	23	20	23
Truck Pass-by	!01!SL12_TPB	32	38	46	44	43	35	39
MAU	!01!SL201_MAU	22	27	31	31	30	23	29
MAU	!01!SL202_MAU	21	26	29	26	25	21	23
Exhaust Fan	!01!SL203_EXFAN	23	27	31	27	23	19	21
Exhaust Fan	!01!SL204_EXFAN	20	23	27	26	25	19	23
Emergency Generator	!01!SL301_Em_Gen	23	28	35	34	18	14	15

R08	R09	R10	R11	R12	R13	R14	R15	R16	R17	R18	R19	R20
SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM	SM
29	31	31	31	31	31	31	31	31	31	31		
33	36	36	36	36	36	36	36	36	36	36		
39	41	41	41	41	41	41	41	41	41	41	10	10
44	46	46	46	46	46	46	46	46	46	46	15	15
34	36	36	36	36	36	36	36	36	36	36	5	5
38	41	41	41	41	41	41	41	41	41	41	5	5
35	39	39	39	39	39	39	39	39	39	39		
100	100	100	100	100	100	100	100	100	100	100		
100	100	100	100	100	100	100	100	100	100	100		

35	39	39	39	39	39	39	39	39	39	39	Lower Night Limit or Goal-Continuous
44	46	46	46	46	46	46	46	46	46	46	Lower Night Limit or Goal-Impulsive
34	36	36	36	36	36	36	36	36	36	36	Lower Night Limit or Goal-Tonal Truck
38	41	41	41	41	41	41	41	41	41	41	<u>Design Goal-Tonal Van</u>
MassDEP, Night, Stationary Continuous											

R8	R9	R10	R11	R12	R13	R14	R15	R16	R17	R18	R19	Name
32	28	28	30	31	31	37	39	40	24	24	22	Backup Alarm Tonal
43	39	40	41	42	43	47	48	47	34	34	33	Trailer Disconnect
33	29	30	32	32	33	37	38	36	24	24	23	Truck High Idle
35	31	32	33	35	35	37	39	43	30	29	30	Truck Pass-by
30	26	29	31	32	33	35	41	32	25	23	22	Backup Alarm Tonal
41	37	41	42	43	44	46	50	44	35	34	33	Trailer Disconnect
31	27	31	32	33	34	36	39	37	24	23	23	Truck High Idle
33	29	33	34	36	37	39	41	46	30	29	29	Truck Pass-by
34	31	31	35	35	36	39	42	28	23	21	21	Backup Alarm Tonal
44	41	42	45	46	46	48	49	40	34	32	32	Trailer Disconnect

[illegible]

Row Labels

0
Backup Alarm Tonal
Conveyor
Emergency Generator
Exhaust Fan
Fork Lift in Trailer
MAU
Trailer Disconnect
Truck High Idle
Truck Pass-by

Source

Stationary Source Sound

Conveyor
Emergency Generator*
Exhaust Fan
MAU

Mobile Source Sound***

Backup Alarm Tonal
Fork Lift in Trailer
Trailer Disconnect
Truck High Idle
Truck Pass-by

* Typically operated for o
Levels meet both day and
**Not residential
***Not subject to MassDI

Source

Stationary Source Sound

Conveyor
Emergency Generator*
Exhaust Fan

MAU

Mobile Source Sound***

- Backup Alarm Tonal
- Fork Lift in Trailer
- Trailer Disconnect
- Truck High Idle
- Truck Pass-by

* Typically operated for o
Levels meet both day and
***Not subject to MassDI

DIFFERENCES

Source

Stationary Source Sound

- Conveyor
- Emergency Generator**
- Exhaust Fan
- MAU

Mobile Source Sound***

- Backup Alarm Tonal
- Fork Lift in Trailer
- Trailer Disconnect
- Truck High Idle
- Truck Pass-by

Total Exceeded
* Typically operated for o
Levels meet both day and
**Not residential
***Not subject to MassDI

Source

Stationary Source Sound

- Conveyor
- Emergency Generator*
- Exhaust Fan
- MAU

Mobile Source Sound***

- Backup Alarm Tonal
- Fork Lift in Trailer
- Trailer Disconnect
- Truck High Idle

Truck Pass-by
Total Exceeded

*** Typically operated for c**
Levels meet both day and
*****Not subject to MassD**

<i>R01</i>	<i>R02</i>	<i>R03</i>	<i>R04</i>	<i>R05</i>	<i>R06</i>	<i>R07</i>	<i>R08</i>	<i>R09</i>	<i>R10</i>	<i>R11</i>	<i>R12</i>	<i>R13</i>
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35	35	35	35	35	35	35	35	39	39	39	39	39
44	44	44	44	44	44	44	44	46	46	46	46	46
34	34	34	34	34	34	34	34	36	36	36	36	36
38	38	38	38	38	38	38	38	41	41	41	41	41
35	35	35	35	35	35	35	35	39	39	39	39	39

<i>SL</i>	<i>R1</i>	<i>R2</i>	<i>R3</i>	<i>R4</i>	<i>R5</i>	<i>R6</i>	<i>R7</i>	<i>R8</i>	<i>R9</i>	<i>R10</i>	<i>R11</i>	<i>R12</i>	<i>R13</i>
SL01	30	34	35	44	40	27	33	32	28	28	30	31	31
SL01	40	44	45	53	50	39	45	43	39	40	41	42	43
SL01	30	34	35	42	40	29	35	33	29	30	32	32	33
SL01	35	39	39	45	43	33	37	35	31	32	33	35	35
SL02	30	35	44	44	37	27	32	30	26	29	31	32	33
SL02	40	45	53	53	48	38	43	41	37	41	42	43	44
SL02	30	34	42	42	38	28	33	31	27	31	32	33	34
SL02	38	42	47	47	45	34	35	33	29	33	34	36	37
SL03	30	34	39	44	41	29	36	34	31	31	35	35	36
SL03	39	43	48	53	51	40	46	44	41	42	45	46	46

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Max of SL	Max of R1	Max of R2	Max of R3	Max of R4	Max of R5	Max of R6	Max of R7	Max of R8	Max of R9	Max of R10	Max of R11	Max of R12	Max of R13
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	31	38	45	45	41	33	37	35	32	33	37	36	41
0	19	25	33	29	12	6	4	4	1	2	3	5	6
0	23	28	35	34	18	14	15	14	12	13	14	15	15
0	23	27	31	27	25	19	23	23	21	23	25	26	28
0	28	35	40	36	34	27	21	18	15	16	17	18	19
0	22	27	31	31	30	23	29	28	25	27	29	31	31
0	41	47	54	54	51	42	47	45	42	43	45	46	48
0	31	37	44	43	41	32	37	35	32	33	36	36	38
0	38	42	49	51	48	38	43	43	39	41	43	42	44

R1	R2	R3**	R4**	R5	R6	R7	R8	R9		R10	R11	R12	
Subject to MassDEP Noise Policy Limits													
MassDEP Limit									MassDEP Limit				
35	19	25	33	29	12	6	4	4	1	39	2	3	5
38	23	28	35	34	18	14	15	14	12	41	13	14	15
35	23	27	31	27	25	19	23	23	21	39	23	25	26
35	22	27	31	31	30	23	29	28	25	39	27	29	31
and Recommended Design Goals													
Design Goals									Design Goals				
34	31	38	45	45	41	33	37	35	32	36	33	37	36
44	28	35	40	36	34	27	21	18	15	46	16	17	18
44	41	47	54	54	51	42	47	45	42	46	43	45	46
39	31	37	44	43	41	32	37	35	32	41	33	36	36
39	38	42	49	51	48	38	43	43	39	41	41	43	42

one hour/week during daytime hours for maintenance purposes.

l night MassDEP noise policy limits.

EP Noise Policy

MassDEP Limit/	R10	R11	R12	R13	R14	R15	R16	R17	R18	R19
Subject to MassDEP Noise Policy Limits										
39	2	3	5	6	9	12	14	32	31	30
41	13	14	15	15	17	19	19	21	23	31
39	23	25	26	28	32	32	28	24	24	24

39 27 29 31 31 31 30 27 29 29 28

and Recommended Design Goals										
40	33	37	36	41	42	43	43	43	43	48
50	16	17	18	19	21	23	31	40	40	39
50	43	45	46	48	51	51	47	54	53	55
45	33	36	36	38	40	40	38	44	43	44
45	41	43	42	44	48	47	50	51	55	64

one hour/week during daytime hours for maintenance purposes.

l night MassDEP noise policy limits.

EP Noise Policy

R1	R2	R3**	R4**	R5	R6	R7	R8	R9	Min	Ave	Max
Subject to MassDEP Noise Policy Limits									0		0
									0		0
									0		0
									0		0
and Recommended Design Goals											
	4	11	11	7		3	1		1	6	11
									0		0
	3	10	10	7		3	1		1	6	10
		5	4	2					2	4	5
	3	10	12	9		4	4	0	0	6	12
0	10	36	37	25	0	10	6	0			

one hour/week during daytime hours for maintenance purposes.

l night MassDEP noise policy limits.

EP Noise Policy

R10	R11	R12	R13	R14	R15	R16	R17	R18	R19	Min	Ave	Max
Subject to MassDEP Noise Policy Limits										0		0
										0		0
										0		0
and Recommended Design Goals												
			1	2	3	3	3	3	8	1	3	8
										0		0
			1	1			4	3	5	1	3	5
										0	#####	0

				3	2	5	6	10	19		2	8	19
	0	0	0	1	6	6	8	13	16	32			
Sum of all goals/limits exceeded by all sources at all receptors										206			

one hour/week during daytime hours for maintenance purposes.

d night MassDEP noise policy limits.

DEP Noise Policy

<i>R14</i>	<i>R15</i>	<i>R16</i>	<i>R17</i>	<i>R18</i>	<i>R19</i>	<i>R20</i>	<i>R21</i>	<i>R22</i>	<i>R23</i>	<i>R24</i>	<i>R25</i>	<i>R26</i>	<i>R27</i>
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39	39	39	39	39	0	0	0	0	0	0	0	0	0
46	46	46	46	46	0	0	0	0	0	0	0	0	0
36	36	36	36	36	0	0	0	0	0	0	0	0	0
41	41	41	41	41	0	0	0	0	0	0	0	0	0
39	39	39	39	39	0	0	0	0	0	0	0	0	0

<i>R14</i>	<i>R15</i>	<i>R16</i>	<i>R17</i>	<i>R18</i>	<i>R19</i>	<i>R20</i>	<i>R21</i>	<i>R22</i>	<i>R23</i>	<i>R24</i>	<i>R25</i>	<i>R26</i>	<i>R27</i>
37	39	40	24	24	22	0	0	0	0	0	0	0	0
47	48	47	34	34	33	0	0	0	0	0	0	0	0
37	38	36	24	24	23	0	0	0	0	0	0	0	0
37	39	43	30	29	30	0	0	0	0	0	0	0	0
35	41	32	25	23	22	0	0	0	0	0	0	0	0
46	50	44	35	34	33	0	0	0	0	0	0	0	0
36	39	37	24	23	23	0	0	0	0	0	0	0	0
39	41	46	30	29	29	0	0	0	0	0	0	0	0
39	42	28	23	21	21	0	0	0	0	0	0	0	0
48	49	40	34	32	32	0	0	0	0	0	0	0	0

[illegible]

Max of R14	Max of R15	Max of R16	Max of R17	Max of R18	Max of R19	Max of R20	Max of R21	Max of R22	Max of R23	Max of R24	Max of R25	Max of R26	Max of R27
0	0	0	0	0	0	0	0	0	0	0	0	0	0
42	43	43	43	43	48	0	0	0	0	0	0	0	0
9	12	14	32	31	30	0	0	0	0	0	0	0	0
17	19	19	21	23	31	0	0	0	0	0	0	0	0
32	32	28	24	24	24	0	0	0	0	0	0	0	0
21	23	31	40	40	39	0	0	0	0	0	0	0	0
31	30	27	29	29	28	0	0	0	0	0	0	0	0
51	51	47	54	53	55	0	0	0	0	0	0	0	0
40	40	38	44	43	44	0	0	0	0	0	0	0	0
48	47	50	51	55	64	0	0	0	0	0	0	0	0

R13	R14	R15	R16	R17	R18	R19	R20	R21	R22	R23	R24	R25	R26
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6	9	12	14	32	31	30	0	0	0	0	0	0	0
15	17	19	19	21	23	31	0	0	0	0	0	0	0
28	32	32	28	24	24	24	0	0	0	0	0	0	0
31	31	30	27	29	29	28	0	0	0	0	0	0	0

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41	42	43	43	43	43	48	0	0	0	0	0	0	0
19	21	23	31	40	40	39	0	0	0	0	0	0	0
48	51	51	47	54	53	55	0	0	0	0	0	0	0
38	40	40	38	44	43	44	0	0	0	0	0	0	0
44	48	47	50	51	55	64	0	0	0	0	0	0	0

<i>R28</i>	<i>R29</i>	<i>R30</i>
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0	0	0
0	0	0
0	0	0
0	0	0
0	0	0

			Amount Limit/Design Goals are exceeded										
R28	R29	R30	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11
0	0	0	0	0	0	9	5	0	0	0	0	0	0
0	0	0	0	0	1	9	6	0	1	0	0	0	0
0	0	0	0	0	0	7	5	0	0	0	0	0	0
0	0	0	0	4	4	10	8	0	2	0	0	0	0
0	0	0	0	0	9	9	2	0	0	0	0	0	0
0	0	0	0	1	9	9	4	0	0	0	0	0	0
0	0	0	0	0	7	7	3	0	0	0	0	0	0
0	0	0	3	7	12	12	10	0	0	0	0	0	0
0	0	0	0	0	4	9	6	0	1	0	0	0	0
0	0	0	0	0	4	9	7	0	2	0	0	0	0

[illegible]

Max of R28	Max of R29	Max of R30
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0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0

R27	R28	R29	R30
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0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

<i>R12</i>	<i>R13</i>	<i>R14</i>	<i>R15</i>	<i>R16</i>	<i>R17</i>	<i>R18</i>	<i>R19</i>	<i>R20</i>	<i>R21</i>	<i>R22</i>	<i>R23</i>	<i>R24</i>	<i>R25</i>	<i>R26</i>
0	0	0	0	1	0	0	22	0	0	0	0	0	0	0
0	0	1	2	1	0	0	33	0	0	0	0	0	0	0
0	0	0	0	0	0	0	23	0	0	0	0	0	0	0
0	0	0	0	4	0	0	30	0	0	0	0	0	0	0
0	0	0	2	0	0	0	22	0	0	0	0	0	0	0
0	0	0	4	0	0	0	33	0	0	0	0	0	0	0
0	0	0	0	0	0	0	23	0	0	0	0	0	0	0
0	0	0	2	7	0	0	29	0	0	0	0	0	0	0
0	0	0	3	0	0	0	21	0	0	0	0	0	0	0
0	0	2	3	0	0	0	32	0	0	0	0	0	0	0

[illegible]

<i>R27</i>	<i>R28</i>	<i>R29</i>	<i>R30</i>	<i>Total</i>	<i>Max. tonal level</i>
0	0	0	0	37	
0	0	0	0	54	
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0	0	0	0	62	
0	0	0	0	44	
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0	0	0	0	44	
0	0	0	0	59	

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0	0	0	0	75				
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0	0	0	0	106				
0	0	0	0	79				
0	0	0	0	49				
0	0	0	0	15				
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0	0	0	0	48				
0	0	0	0	73				
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0	0	0	0	62				
0	0	0	0	27				
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0	0	0	0	41				
0	0	0	0	53				
0	0	0	0	73				
0	0	0	0	71				
0	0	0	0	30				
0	0	0	0	79				
0	0	0	0	41				
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0	0	0	0	99				
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0	0	0	0	101				
0	0	0	0	91				
0	0	0	0	23				
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0	0	0	0	24				
0	0	0	0	23				
0	0	0	0	31				
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0	0	0	0	0				
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0	0	0	0	0				
0	0	0	0	0				
0	0	0	0	0	2728	0	0	0
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