
APPENDIX F
PRELIMINARY NOISE BARRIER ANALYSIS

Table
Preliminary Noise Barrier Analysis
Neighborhood Represented by Site M2-M.P. 54.6 Southbound
New Jersey Turnpike Interchange 6-8A Widening

Noise Source Receiver Type Height (meter)	No Barrier Number of Receptacles Represented	Non-Abated Leq(dBA)	2.4			3.0			3.7			4.3			4.9			5.5			6.1					
			Abated I.L.	Abated dBA	Change in I.L.	Abated I.L.	Abated dBA	Change in I.L.	Abated I.L.	Abated dBA	Change in I.L.	Abated I.L.	Abated dBA	Change in I.L.	Abated I.L.	Abated dBA	Change in I.L.	Abated I.L.	Abated dBA	Change in I.L.	Abated I.L.	Abated dBA	Change in I.L.			
RS1 Residential	1	64.5	40.5	4.0	60.4	4.1	0.1	60.3	4.2	0.1	58.9	5.6	1.4	58.5	6.0	0.4	58.3	6.2	0.2	58.2	6.3	0.1				
RS2 Residential	1	65.5	41.5	4.0	61.4	4.1	0.1	61.3	4.2	0.1	59.6	5.9	1.7	59.1	6.4	0.5	58.9	6.6	0.2	58.7	6.8	0.2				
RS3 Residential	1	66.6	42.8	3.8	62.6	4.0	0.2	62.5	4.1	0.1	60.4	6.2	2.1	59.9	6.7	0.5	59.6	7.0	0.3	59.5	7.1	0.1				
RS4 Residential	1	68.7	45.0	3.7	64.7	4.0	0.3	64.5	4.2	0.2	62.6	7.1	2.9	60.9	7.8	0.7	60.4	8.3	0.5	60.1	8.6	0.3				
RS5 Residential	1	69.6	45.8	3.8	65.5	4.1	0.3	65.2	4.4	0.2	62.0	7.6	1.2	61.2	8.4	0.8	60.6	9.0	0.6	60.2	9.4	0.4				
RS6 Residential	1	68.6	44.2	4.1	64.2	4.4	0.4	64.1	4.2	0.3	61.1	6.1	1.0	60.3	8.3	0.8	59.8	8.8	0.5	59.4	9.2	0.4				
RS7 Residential	1	66.9	42.1	4.5	61.9	4.2	0.2	60.2	4.2	1.2	59.4	7.2	0.8	58.7	7.9	0.7	58.3	8.3	0.4	58.1	8.5	0.2				
RS8 Residential	1	65.3	40.2	4.6	60.6	4.0	0.1	59.1	6.2	1.5	58.4	6.9	0.7	57.9	7.4	0.5	57.5	7.8	0.4	57.5	8.0	0.2				
RS9 Residential	1	64.4	39.9	4.5	59.8	4.6	0.1	58.5	4.9	1.3	57.0	6.5	0.6	57.4	7.0	0.5	57.1	7.3	0.3	56.9	7.5	0.2				
RS10 Residential	1	62.6	38.5	4.1	58.3	4.8	0.2	58.0	4.6	0.3	57.0	5.6	1.0	56.6	6.0	0.4	56.4	6.2	0.2	56.5	6.3	0.1				
RS11 Residential	1	62.4	37.2	4.7	57.6	4.8	0.1	56.6	5.8	1.0	56.1	5.8	0.5	55.6	6.8	0.5	55.4	7.0	0.3	55.1	7.1	0.1				
RS12 Residential	1	64.1	39.3	4.9	57.4	5.0	0.1	56.4	6.0	1.0	55.9	6.5	0.5	55.5	6.9	0.4	55.2	7.2	0.3	55.1	7.3	0.1				
RS13 Residential	1	65.3	40.5	4.8	60.4	4.9	0.1	59.1	6.3	1.4	58.2	7.1	0.8	57.6	7.7	0.6	57.3	8.0	0.3	57.1	8.2	0.2				
RS14 Residential	1	66.5	41.9	4.6	61.7	4.8	0.2	60.0	6.5	1.7	59.2	7.3	0.8	58.5	8.0	0.7	58.1	8.4	0.4	57.8	8.7	0.3				
RS15 Residential	1	67.7	43.3	4.4	62.2	4.5	0.1	61.2	6.5	2.0	60.3	7.4	0.9	59.5	8.2	0.8	59.0	8.7	0.5	58.7	9.0	0.3				
RS16 Residential	1	69.2	45.0	4.2	64.8	4.7	0.4	62.6	6.6	2.2	61.5	7.7	1.1	60.6	8.6	0.9	60.0	9.1	0.5	59.6	9.6	0.5				
RS17 Residential	1	69.0	44.7	4.3	64.3	4.7	0.4	62.4	6.6	1.9	61.3	60.5	7.2	1.1	60.6	8.6	0.9	60.0	9.0	0.5	59.6	9.4	0.4			
RS18 Residential	1	69.0	44.4	4.4	63.2	4.6	0.2	61.6	6.2	1.6	60.4	7.4	1.2	59.7	8.1	0.7	59.2	8.6	0.5	58.9	8.9	0.3				
RS19 Residential	1	66.4	41.7	4.7	61.5	4.9	0.2	60.2	6.2	1.3	59.1	7.3	1.1	58.5	7.9	0.6	58.1	8.3	0.4	57.9	8.5	0.2				
RS20 Residential	1	65.2	40.2	5.0	60.1	5.1	0.1	58.9	6.3	1.2	58.0	7.2	0.9	57.5	7.7	0.5	57.2	8.0	0.3	57.0	8.2	0.2				
RS21 Residential	1	64.6	39.6	5.0	59.4	5.2	0.2	58.3	6.3	1.1	57.4	7.2	0.9	57.0	7.6	0.4	56.7	7.9	0.3	56.5	8.1	0.2				
RS22 Residential	1	63.3	38.7	4.8	58.5	5.0	0.2	57.4	6.1	1.1	56.9	6.6	0.5	56.3	7.2	0.6	56.1	7.4	0.2	55.9	7.6	0.2				
RS23 Residential	1	63.3	38.5	4.8	58.4	4.9	0.1	57.4	5.9	1.0	56.7	6.6	0.7	56.2	7.1	0.5	56.0	7.3	0.2	55.8	7.5	0.2				
RS24 Residential	1	63.3	38.5	4.8	58.4	4.9	0.2	57.4	5.9	1.0	56.7	6.6	0.7	56.2	7.1	0.5	56.0	7.3	0.2	55.8	7.5	0.2				
RS25 Residential	1	63.9	39.1	4.7	58.9	5.0	0.2	57.9	6.0	1.0	57.2	6.7	0.7	56.7	7.2	0.5	56.4	7.5	0.3	56.2	7.7	0.2				
RS26 Residential	1	64.8	40.1	4.7	59.9	4.9	0.2	58.9	5.9	1.0	58.0	6.8	0.9	57.5	7.3	0.5	57.2	7.6	0.3	56.9	7.9	0.3				
RS27 Residential	1	65.5	41.1	4.6	60.9	4.6	0.2	59.8	5.7	1.1	59.0	6.5	0.8	58.3	7.2	0.7	57.9	7.6	0.4	57.6	7.9	0.3				
RS28 Residential	1	62.1	37.5	4.4	57.0	5.1	0.5	56.1	6.0	0.9	55.6	6.5	0.5	55.4	6.7	0.2	55.1	7.0	0.4	54.9	7.2	0.2				
RS29 Residential	1	67.2	43.6	3.6	63.0	4.2	0.6	61.8	5.4	1.2	60.8	6.4	1.0	60.3	6.9	0.5	59.8	7.4	0.5	59.4	7.8	0.4				
RS30 Residential	1	67.2	43.6	3.6	62.8	4.4	0.8	61.6	5.6	1.2	60.8	6.4	0.8	60.3	6.9	0.5	59.7	7.5	0.6	59.3	7.9	0.4				
RS31 Residential	1	66.5	42.8	3.7	62.1	4.4	0.7	60.8	5.7	1.3	60.1	6.4	0.7	59.6	6.9	0.5	59.1	7.4	0.5	58.6	7.9	0.5				
RS32 Residential	1	66.0	42.3	3.7	61.6	4.4	0.7	60.2	5.8	1.4	59.6	6.4	0.6	59.0	7.0	0.6	58.6	7.4	0.4	58.2	7.8	0.4				
RS33 Residential	1	65.1	42.3	3.0	61.5	3.6	0.6	60.6	4.5	0.9	60.0	5.1	0.6	59.3	5.5	0.4	59.3	5.8	0.3	59.1	6.0	0.2				
RS34 Residential	1	64.8	41.3	3.5	60.8	4.0	0.5	59.9	4.9	0.9	59.3	5.5	0.6	58.9	5.9	0.4	58.6	6.2	0.3	58.4	6.4	0.2				
RS35 Residential	1	64.2	40.5	3.7	60.0	4.2	0.5	59.0	5.2	1.0	58.5	5.7	0.5	58.2	6.0	0.3	57.9	6.3	0.3	57.7	6.5	0.2				
RS36 Residential	1	63.3	39.6	3.2	59.1	4.2	0.5	58.3	5.0	0.8	57.8	5.5	0.5	57.5	5.8	0.3	57.2	6.1	0.3	57.1	6.2	0.1				
RS37 Residential	1	61.3	36.7	3.8	56.3	5.0	0.4	55.4	5.9	0.9	55.1	6.2	0.3	54.9	6.4	0.2	54.8	6.5	0.1	54.6	6.7	0.2				
RS38 Residential	1	61.1	37.3	3.8	57.0	4.1	0.3	56.0	5.1	1.0	55.7	5.4	0.3	55.4	5.7	0.3	55.1	6.0	0.3	54.9	6.2	0.2				
RS39 Residential	1	62.0	37.8	4.2	57.2	4.8	0.6	56.0	6.0	1.2	55.8	6.2	0.2	55.4	6.6	0.4	55.2	6.8	0.2	55.0	7.0	0.2				
RS40 Residential	1	62.7	38.6	4.1	57.9	4.8	0.7	56.6	6.1	1.2	56.3	6.4	0.3	55.9	6.8	0.4	55.7	7.0	0.2	55.4	7.3	0.3				
RS41 Residential	1	63.4	39.2	4.1	58.6	4.8	0.7	57.4	6.0	1.2	57.0	6.4	0.4	56.6	6.8	0.4	56.3	7.1	0.2	56.0	7.4	0.3				
RS42 Residential	1	64.8	40.2	4.1	60.0	4.2	0.6	59.0	5.9	1.2	58.5	6.5	0.6	57.9	6.9	0.4	57.5	7.2	0.2	57.2	7.6	0.3				
RS43 Residential	1	65.8	40.2	4.1	59.0	4.2	0.6	57.9	5.9	1.2	58.5	6.5	0.6	57.9	6.9	0.4	57.5	7.2	0.2	57.2	7.6	0.3				
RS44 Residential	1	65.3	40.2	4.0	58.9	4.4	0.4	57.8	5.9	1.1	57.4	6.9	0.4	57.0	6.9	0.4	56.7	6.9	0.2	56.5	6.9	0.3				
RS45 Residential	1	62.8	38.5	4.3	58.1	4.2	0.4	57.2	5.5	0.8	56.8	6.0	0.2	56.4	6.4	0.4	56.1	6.7	0.3	55.8	7.0	0.5				
RS46 Residential	1	61.9	37.8	4.1	57.5	4.4	0.5	56.6	5.3	0.9	56.1	5.8	0.5	55.8	6.1	0.3	55.4	6.3	0.2	55.3	6.6	0.3				
RS47 Residential	1	61.5	37.2	4.1	57.2	4.3	0.2	56.4	5.1	0.8	55.8	5.7	0.6	55.6	5.9	0.2	55.4	6.1	0.2	55.1	6.4	0.3				
Average		64.9	40.7	4.2	60.3	4.6	0.3	59.2	5.7	1.1	58.4	6.5	0.7	57.9	7.0	0.5	57.5	7.4	0.3	57.3	7.6	0.3				
Min		60.6	35.8	3.0	56.3	3.6	0.8	54.3	6.6	2.3	52.0	62.0	7.7	2.9	61.2	8.6	0.9	60.6	9.1	0.6	60.2	6.0	0.5			
Max		69.6	56.7	5.0	65.3	3.2	0.1	65.4	4.1	0.1	65.1	55.1	5.1	64.9	5.5	0.2	64.8	5.8	0.1	64.6	6.0	0.1				
Number of Impacted Residences			150			150			150			150			150			150			150			150		
Number of Benefited Residences			30.5			30.5			30.5			30.5			30.5			30.5			30.5			30.5		
Total Cost			\$885,440			\$1,100,800			\$1,238,160			\$1,349,520			\$1,770,880			\$1,992,240			\$1,992,240			\$5,221,000		
Cost per benefited residence			\$29,011			\$73,387			\$81,546			\$90,948			\$115,280			\$131,152			\$131,152			\$34,360		

Note: Total barrier cost is calculated based on a factor of \$40.00 per square foot of barrier surface area according to NJ Turnpike Noise Policy.
Cost per residence is calculated based on total cost divided by the number of impacted and benefited residences according to NJ Turnpike Noise Policy.
Impacted residence with 3 dBA or more noise level reduction will be considered as benefited and counted as one residence in the cost-per-residence calculation.
Residences with 3 dBA or more noise level reduction that not impacted will also be considered as benefited but counted as one-half residence in the cost-per-residence calculation.
Represents impacted receptors.
Source: The Louis Berger Group, Inc., June 2006.

Table

Preliminary Noise Barrier Analysis

Neighborhood Represented by Site M3-M.P. 55.2 Northbound New Jersey Turnpike Interchange 6-8A Widening

Noise Sensitive Site	Receptor Type	No Barrier			With Barrier																				
		Number of Residences Represented	Non-Abated Leq (dBA)	Abated Leq (dBA)	I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.		
Height (meter)		0.0			2.4			3.0			3.7			4.3			4.9			5.5			6.1		
Height (ft)		0.0			8			10			12			14			16			18			20		
RN1	Residential	1	75.6	69.9	5.7	69.6	6.0	0.3	66.6	9.0	3.0	65.8	9.8	0.8	65.2	10.4	0.6	64.8	10.8	0.4	64.4	11.2	0.4		
RN2	Residential	1	76.6	71.5	5.1	70.7	5.9	0.8	67.7	8.9	3.0	66.5	10.1	1.2	65.5	11.1	1.0	64.9	11.7	0.6	64.4	12.2	0.5		
RN3	Residential	1	74.5	69.2	5.3	68.5	6.0	0.7	65.6	8.9	2.9	64.4	10.1	1.2	63.6	10.9	0.8	63.1	11.4	0.5	62.6	11.9	0.5		
RN4	Residential	1	76.1	70.8	5.3	70.0	6.1	0.8	66.9	9.2	3.1	65.6	10.5	1.3	64.7	11.4	0.9	64.0	12.1	0.7	63.4	12.7	0.6		
RN5	Residential	1	77.2	71.6	5.6	70.8	6.4	0.8	67.0	10.2	3.8	65.7	11.5	1.3	64.7	12.5	1.0	64.0	13.2	0.7	63.3	13.9	0.7		
RN6	Residential	1	77.8	71.1	6.7	67.7	10.1	3.4	66.1	11.7	1.6	65.0	12.8	1.1	64.1	13.7	0.9	63.4	14.4	0.7	62.8	15.0	0.6		
Average			76.3	70.7	5.6	69.6	6.8	1.1	66.7	9.7	2.9	65.5	10.8	1.2	64.6	11.7	0.9	64.0	12.3	0.6	63.5	12.8	0.5		
Max			77.8	71.6	6.7	70.8	10.1	3.4	67.7	11.7	3.8	66.5	12.8	1.3	65.5	13.7	1.0	64.9	14.4	0.7	64.4	15.0	0.7		
Min			74.5	69.2	5.1	67.7	5.9	0.3	65.6	8.9	1.6	64.4	9.8	0.8	63.6	10.4	0.6	63.1	10.8	0.4	62.6	11.2	0.4		
Number of Impacted Residences			6.0			6.0			6.0			6.0			6.0			6.0			6.0				
Number of Benefited Residences			6.0			6.0			6.0			6.0			6.0			6.0			6.0				
Total Cost			\$516,480			\$645,600			\$774,720			\$903,840			\$1,032,960			\$1,162,080			\$1,291,200				
Cost per benefited residence			\$86,080			\$107,600			\$129,120			\$150,640			\$172,160			\$193,680			\$215,200				

Note: Total barrier cost is calculated based on a factor of \$40.00 per square foot of barrier surface area according to NJ Turnpike Noise Policy.
 Cost per residence is calculated based on total cost divided by the number of impacted and benefited receptors according to NJ Turnpike Noise Policy.
 Impacted residence with 3 dBA or more noise level reduction will be considered as benefited and counted as one residence in the cost-per-residence calculation.
 Residences with 3 dBA or more noise level reduction but not impacted will also be counted as benefited but counted as one-half residence in the cost-per-residence calculation.
 Represents impacted receptors.
 Source: The Louis Berger Group, Inc., June 2006.

Table

Preliminary Noise Barrier Analysis

Neighborhood Represented by Site M4-M.P. 55.7 Northbound New Jersey Turnpike Interchange 6-8A Widening

Noise Sensitive Site	Receptor Type	No Barrier			With Barrier																		
		Number of Residences Represented	Non-Abated Leq (dBA)	Abated Leq (dBA)	I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.
Height (meter)		0.0		2.4		3.0			3.7			4.3			4.9			5.5			6.1		
Height (ft)		0.0		8		10			12			14			16			18			20		
RN7	Residential	1	68.5	63.9	4.6	63.7	4.8	0.2	60.9	7.6	2.8	60.0	8.5	0.9	59.4	9.1	0.6	58.9	9.6	0.5	58.5	10.0	0.4
RN8	Residential	1	69.9	65.3	4.6	65.1	4.8	0.2	61.9	8.0	3.2	60.9	9.0	1.0	60.2	9.7	0.7	59.7	10.2	0.5	59.3	10.6	0.4
RN9	Residential	1	71.1	65.7	5.4	65.4	5.7	0.3	62.4	8.7	3.0	61.5	9.6	0.9	60.7	10.4	0.8	60.2	10.9	0.5	59.8	11.3	0.4
RN10	Residential	1	72.6	66.9	5.7	66.6	6.0	0.3	63.3	9.3	3.3	62.3	10.3	1.0	61.5	11.1	0.8	60.9	11.7	0.6	60.5	12.1	0.4
RN11	Residential	1	73.0	67.3	5.7	67.0	6.0	0.3	63.9	9.1	3.1	62.9	10.1	1.0	62.1	10.9	0.8	61.6	11.4	0.5	61.2	11.8	0.4
RN12	Residential	1	77.8	71.1	6.7	67.0	10.8	4.1	65.6	12.2	1.4	64.5	13.3	1.1	63.7	14.1	0.8	63.0	14.8	0.7	62.3	15.5	0.7
RN13	Residential	1	73.6	68.3	5.3	67.9	5.7	0.4	64.5	9.1	3.4	63.6	10.0	0.9	63.0	10.6	0.6	62.5	11.1	0.5	62.2	11.4	0.3
Average			72.4	66.9	5.4	66.1	6.3	0.8	63.2	9.1	2.9	62.2	10.1	1.0	61.5	10.8	0.7	61.0	11.4	0.5	60.5	11.8	0.4
Max			77.8	71.1	6.7	67.9	10.8	4.1	65.6	12.2	3.4	64.5	13.3	1.1	63.7	14.1	0.8	63.0	14.8	0.7	62.3	15.5	0.7
Min			68.5	63.9	4.6	63.7	4.8	0.2	60.9	7.6	1.4	60.0	8.5	0.9	59.4	9.1	0.6	58.9	9.6	0.5	58.5	10.0	0.3
Number of Impacted Residences				7.0		7.0			7.0			7.0			7.0			7.0			7.0		
Number of Benefited Residences				7.0		7.0			7.0			7.0			7.0			7.0			7.0		
Total Cost				\$640,640		\$800,800			\$960,960			\$1,121,120			\$1,281,280			\$1,441,440			\$1,601,600		
Cost per benefited residence				\$91,520		\$114,400			\$137,280			\$160,160			\$183,040			\$205,920			\$228,800		

Note: Total barrier cost is calculated based on a factor of \$40.00 per square foot of barrier surface area according to NJ Turnpike Noise Policy.
 Cost per residence is calculated based on total cost divided by the number of impacted and benefited receptors according to NJ Turnpike Noise Policy.
 Impacted residence with 3 dBA or more noise level reduction will be considered as benefited and counted as one residence in the cost-per-residence calculation.
 Residences with 3 dBA or more noise level reduction but not impacted will also be counted as benefited but counted as one-half residence in the cost-per-residence calculation.
 Represents impacted receptors.

Source: The Louis Berger Group, Inc., June 2006.

Table

Preliminary Noise Barrier Analysis

Neighborhood Represented by Site M5-M.P. 57.4 Northbound New Jersey Turnpike Interchange 6-8A Widening

Noise Sensitive Site	Receptor Type	No Barrier			With Barrier																				
		Number of Residences Represented	Non-Abated Leq (dBA)	Abated Leq (dBA)	I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.		
Height (meter)		0.0			2.4			3.0			3.7			4.3			4.9			5.5			6.1		
Height (ft)		0.0			8			10			12			14			16			18			20		
RN14	Residential	1	62.2	59.5	2.7	59.3	2.9	0.2	58.1	4.1	1.2	57.6	4.6	0.5	57.3	4.9	0.3	56.9	5.3	0.4	56.7	5.5	0.2		
RN15	Residential	1	64.0	61.2	2.8	60.9	3.1	0.3	59.6	4.4	1.3	59.1	4.9	0.5	58.6	5.4	0.5	58.2	5.8	0.4	58.0	6.0	0.2		
RN16	Residential	1	65.5	62.7	2.8	62.3	3.2	0.4	60.9	4.6	1.4	60.3	5.2	0.6	59.8	5.7	0.5	59.3	6.2	0.5	59.1	6.4	0.2		
RN17	Residential	1	66.7	64.0	2.7	63.6	3.1	0.4	62.2	4.5	1.4	61.5	5.2	0.7	60.9	5.8	0.6	60.4	6.3	0.5	60.2	6.5	0.2		
RN18	Residential	1	68.4	65.9	2.5	65.4	3.0	0.5	63.9	4.5	1.5	63.2	5.2	0.7	62.4	6.0	0.8	62.1	6.3	0.3	61.8	6.6	0.3		
Average			65.4	62.7	2.7	62.3	3.1	0.4	60.9	4.4	1.4	60.3	5.0	0.6	59.8	5.6	0.5	59.4	6.0	0.4	59.2	6.2	0.2		
Max			68.4	65.9	2.8	65.4	3.2	0.5	63.9	4.6	1.5	63.2	5.2	0.7	62.4	6.0	0.8	62.1	6.3	0.5	61.8	6.6	0.3		
Min			62.2	59.5	2.5	59.3	2.9	0.2	58.1	4.1	1.2	57.6	4.6	0.5	57.3	4.9	0.3	56.9	5.3	0.3	56.7	5.5	0.2		
Number of Impacted Residences			2.0			2.0			2.0			2.0			2.0			2.0			2.0				
Number of Benefited Residences			0.0			3.0			3.5			3.5			3.5			3.5			3.5				
Total Cost			\$587,520			\$734,400			\$881,280			\$1,028,160			\$1,175,040			\$1,321,920			\$1,468,800				
Cost per benefited residence			N/A			\$244,800			\$251,794			\$293,760			\$335,726			\$377,691			\$419,657				

Note: Total barrier cost is calculated based on a factor of \$40.00 per square foot of barrier surface area according to NJ Turnpike Noise Policy.
 Cost per residence is calculated based on total cost divided by the number of impacted and benefited receptors according to NJ Turnpike Noise Policy.
 Impacted residence with 3 dBA or more noise level reduction will be considered as benefited and counted as one residence in the cost-per-residence calculation.
 Residences with 3 dBA or more noise level reduction but not impacted will also be counted as benefited but counted as one-half residence in the cost-per-residence calculation.
 [Yellow Box] Represents impacted receptors.

Source: The Louis Berger Group, Inc., June 2006.

Table

Preliminary Noise Barrier Analysis

Neighborhood Represented by Site M6 & M7-M.P. 57.5 & 57.6 Southbound New Jersey Turnpike Interchange 6-8A Widening

Noise Sensitive Site	Receptor Type	No Barrier			With Barrier																								
		Number of Residences Represented	Non-Abated Leq (dBA)	Abated Leq (dBA)	I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.						
Height (meter)		0.0		2.4		3.0				3.7				4.3				4.9				5.5				6.1			
Height (ft)		0.0		8		10				12				14				16				18				20			
RS48	Residential	1	62.2	60.8	1.4	60.1	2.1	0.7	58.9	3.3	1.2	58.7	3.5	0.2	58.5	3.7	0.2	58.3	3.9	0.2	58.2	4.0	0.1						
RS49	Residential	1	60.0	58.6	1.4	58.5	1.5	0.1	57.1	2.9	1.4	56.8	3.2	0.3	56.7	3.3	0.1	56.5	3.5	0.2	56.4	3.6	0.1						
RS50	Residential	1	58.6	57.3	1.3	57.1	1.5	0.2	56.0	2.6	1.1	55.7	2.9	0.3	55.5	3.1	0.2	55.4	3.2	0.1	55.3	3.3	0.1						
RS51	Residential	1	57.4	56.0	1.4	55.9	1.5	0.1	54.9	2.5	1.0	54.6	2.8	0.3	54.4	3.0	0.2	54.3	3.1	0.1	54.1	3.3	0.2						
RS52	Residential	1	58.8	57.6	1.2	57.5	1.3	0.1	56.5	2.3	1.0	56.2	2.6	0.3	56.1	2.7	0.1	55.9	2.9	0.2	55.8	3.0	0.1						
RS53	Residential	1	60.9	59.7	1.2	59.5	1.4	0.2	58.5	2.4	1.0	58.2	2.7	0.3	58.0	2.9	0.2	57.9	3.0	0.1	57.8	3.1	0.1						
RS54	Residential	1	66.7	64.5	2.2	64.3	2.4	0.2	63.5	3.2	0.8	63.3	3.4	0.2	63.1	3.6	0.2	63.0	3.7	0.1	62.9	3.8	0.1						
RS55	Residential	1	64.3	62.4	1.9	62.1	2.2	0.3	61.4	2.9	0.7	61.1	3.2	0.3	60.9	3.4	0.2	60.8	3.5	0.1	60.7	3.6	0.1						
RS56	Residential	1	61.1	59.4	1.7	59.1	2.0	0.3	58.4	2.7	0.7	58.0	3.1	0.4	57.8	3.3	0.2	57.6	3.5	0.2	57.5	3.6	0.1						
RS57	Residential	1	58.4	56.8	1.6	56.7	1.7	0.1	56.3	2.1	0.4	55.9	2.5	0.4	55.8	2.6	0.1	55.7	2.7	0.1	55.5	2.9	0.2						
RS58	Residential	1	57.9	55.9	2.0	55.5	2.4	0.4	55.1	2.8	0.4	54.6	3.3	0.5	54.3	3.6	0.3	54.2	3.7	0.1	54.0	3.9	0.2						
RS59	Residential	1	63.6	61.4	2.2	60.9	2.7	0.5	60.2	3.4	0.7	59.8	3.8	0.4	59.6	4.0	0.2	59.4	4.2	0.2	59.3	4.3	0.1						
RS60	Residential	1	68.3	65.2	3.1	64.5	3.8	0.7	63.4	4.9	1.1	62.9	5.4	0.5	62.6	5.7	0.3	62.4	5.9	0.2	62.2	6.1	0.2						
RS61	Residential	1	72.1	68.2	3.9	67.2	4.9	1.0	66.0	6.1	1.2	65.5	6.6	0.5	65.2	6.9	0.3	65.0	7.1	0.2	64.8	7.3	0.2						
RS64	Residential	1	61.2	58.8	2.4	58.2	3.0	0.6	57.7	3.5	0.5	57.2	4.0	0.5	57.0	4.2	0.2	56.8	4.4	0.2	56.6	4.6	0.2						
RS65	Residential	1	59.9	57.4	2.5	57.0	2.9	0.4	56.5	3.4	0.5	56.1	3.8	0.4	55.8	4.1	0.3	55.6	4.3	0.2	55.5	4.4	0.1						
Average			62.0	60.0	2.0	59.6	2.3	0.4	58.8	3.2	0.9	58.4	3.6	0.4	58.2	3.8	0.2	58.1	3.9	0.2	57.9	4.1	0.1						
Max			72.1	68.2	3.9	67.2	4.9	1.0	66.0	6.1	1.4	65.5	6.6	0.5	65.2	6.9	0.3	65.0	7.1	0.2	64.8	7.3	0.2						
Min			57.4	55.9	1.2	55.5	1.3	0.1	54.9	2.1	0.4	54.6	2.5	0.2	54.3	2.6	0.1	54.2	2.7	0.1	54.0	2.9	0.1						
Number of Impacted Residences				3.0		3.0			3.0			3.0			3.0			3.0			3.0								
Number of Benefited Residences				2.0		2.5			5.0			7.0			8.0			8.5			9.0								
Total Cost				\$576,000		\$720,000			\$864,000			\$1,008,000			\$1,152,000			\$1,296,000			\$1,440,000								
Cost per benefited residence				\$288,000		\$288,000			\$172,800			\$144,000			\$144,000			\$152,471			\$160,000								

Note: Total barrier cost is calculated based on a factor of \$40.00 per square foot of barrier surface area according to NJ Turnpike Noise Policy.
 Cost per residence is calculated based on total cost divided by the number of impacted and benefited receptors according to NJ Turnpike Noise Policy.
 Impacted residence with 3 dBA or more noise level reduction will be considered as benefited and counted as one residence in the cost-per-residence calculation.
 Residences with 3 dBA or more noise level reduction but not impacted will also be counted as benefited but counted as one-half residence in the cost-per-residence calculation.
 Represents Impacted Receptors.

Source: The Louis Berger Group, Inc., June 2006.

Table Preliminary Noise Barrier Analysis Neighborhood Noise Barrier Represented by Site M8-M.P. 60.8 Southbound New Jersey Turnpike Interchange 6-8A Widening

Noise Barrier Site	Resceptor Type	Type Represented	No Barrier			With Barrier																
			Non-Abated Leq (dba)	Abated Leq (dba)	LL	LL	LL	LL	LL	LL	LL	LL	LL									
														Change in LL	Change in LL	Change in LL	Change in LL	Change in LL	Change in LL			
	Height (feet)	0.0	2.4	3.0	3.0	3.7	3.7	4.3	4.3	4.9	4.9	5.5	5.5	6.1	6.1							
RS1	Residential	1	66.7	67.8	0.9	0.1	67.7	1.0	0.1	67.6	1.1	0.1	67.5	1.2	0.1	67.4	1.3	0.1	67.4	1.3	0.0	
RS2	Residential	1	69.8	68.7	1.1	0.1	68.4	1.4	0.1	68.3	1.5	0.1	68.2	1.6	0.1	68.1	1.7	0.1	67.9	1.9	0.2	
RS3	Residential	1	71.0	69.6	1.4	0.1	69.5	1.5	0.1	68.8	2.2	0.5	68.7	2.3	0.1	68.4	2.6	0.3	68.2	2.8	0.2	
RS4	Residential	1	72.2	70.2	2.0	0.3	69.9	2.0	0.3	69.2	3.0	0.7	68.8	3.4	0.4	68.6	3.6	0.2	68.2	4.0	0.4	
RS5	Residential	1	73.2	70.3	2.9	0.2	69.9	2.0	0.1	68.6	4.6	0.6	68.1	5.1	0.5	67.6	5.6	0.5	67.3	5.9	0.3	
RS6	Residential	1	69.4	67.5	1.9	0.7	67.4	2.0	0.1	66.8	2.6	0.3	66.5	2.9	0.2	66.2	3.2	0.1	65.9	3.5	0.3	
RS7	Residential	1	67.8	66.5	1.3	0.6	64.4	1.4	0.1	66.0	1.8	0.4	66.8	2.0	0.2	66.6	2.2	0.2	65.5	2.3	0.1	
RS8	Residential	1	66.2	65.0	1.2	0.9	64.9	1.3	0.1	64.7	1.5	0.2	64.5	1.7	0.2	64.4	1.8	0.1	64.3	1.9	0.1	
RS9	Residential	1	66.5	65.6	0.9	0.6	65.6	0.9	0.1	65.4	1.1	0.2	66.3	1.2	0.1	65.1	1.4	0.0	65.0	1.5	0.1	
RS10	Residential	1	73.3	70.3	3.0	0.9	69.5	2.8	0.8	68.2	3.1	1.3	67.7	3.6	0.5	67.1	4.2	0.6	66.7	4.6	0.4	
RS11	Residential	1	69.4	67.0	2.4	0.6	67.7	2.7	0.3	68.8	3.6	0.9	68.5	3.9	0.3	68.1	4.3	0.4	64.9	4.5	0.2	
RS12	Residential	1	65.9	64.3	1.6	0.5	2.0	0.1	64.8	2.7	0.2	64.6	2.9	0.2	64.3	3.2	0.3	64.1	3.4	0.2		
RS13	Residential	1	63.2	62.0	1.3	0.6	1.3	0.0	61.7	1.6	0.3	61.4	1.9	0.2	61.3	2.0	0.1	61.2	2.1	0.1		
RS14	Residential	1	61.9	60.7	1.2	0.6	7.2	0.1	60.4	1.7	0.4	60.2	1.7	0.2	60.1	1.8	0.1	60.0	1.9	0.1		
RS15	Residential	1	61.9	60.7	1.2	0.6	7.2	0.1	60.4	1.7	0.4	60.2	1.7	0.2	60.1	1.8	0.1	60.0	1.9	0.1		
RS16	Residential	1	72.9	69.6	3.3	0.8	4.8	1.5	67.1	5.8	1.0	66.5	6.4	0.6	65.9	7.0	0.6	65.4	7.5	0.5		
RS17	Residential	1	72.7	69.2	3.5	0.8	4.2	0.7	66.6	6.1	1.0	66.0	6.8	0.7	65.4	7.3	0.5	64.7	8.0	0.7		
RS18	Residential	1	68.8	66.1	2.7	0.6	65.7	3.1	0.4	64.5	4.3	1.2	64.0	4.8	0.5	63.7	5.1	0.3	63.4	5.4	0.3	
RS19	Residential	1	66.9	64.6	2.3	0.4	64.5	2.4	0.1	63.5	3.4	1.0	63.2	3.7	0.3	62.9	4.0	0.3	62.7	4.2	0.2	
RS20	Residential	1	65.4	63.4	2.0	0.3	63.3	2.1	0.1	62.6	2.8	0.7	62.3	3.1	0.3	62.1	3.3	0.2	61.9	3.5	0.2	
RS21	Residential	1	64.1	62.3	1.8	0.2	62.2	1.9	0.1	61.7	2.4	0.5	61.4	2.7	0.3	61.2	2.9	0.2	61.1	3.0	0.1	
RS22	Residential	1	62.7	61.2	1.5	0.1	61.1	1.6	0.1	60.9	1.8	0.2	60.5	2.2	0.4	60.4	2.3	0.1	60.3	2.4	0.1	
RS23	Residential	1	61.4	60.1	1.3	0.0	60.1	1.3	0.0	59.8	1.6	0.3	59.6	1.8	0.2	59.4	2.0	0.2	59.3	2.1	0.1	
RS24	Residential	1	72.4	68.6	3.8	0.7	67.0	5.4	1.6	65.8	6.6	1.2	65.0	7.4	0.8	64.4	8.0	0.6	63.8	8.6	0.6	
RS25	Residential	1	68.3	65.4	2.9	0.5	65.0	3.3	0.4	63.6	4.7	1.4	63.1	5.2	0.5	62.8	5.5	0.3	62.4	5.9	0.4	
RS26	Residential	1	66.3	63.9	2.4	0.8	2.5	0.1	62.6	3.7	1.2	62.2	4.1	0.4	61.9	4.4	0.3	61.7	4.6	0.2		
RS27	Residential	1	64.7	62.7	2.0	0.2	62.6	2.1	0.1	61.8	2.9	0.8	61.5	3.2	0.3	61.2	3.5	0.3	61.0	3.7	0.2	
RS28	Residential	1	63.5	61.7	1.8	0.6	1.9	0.1	61.0	2.5	0.6	60.8	2.7	0.2	60.5	3.0	0.3	60.3	3.2	0.2		
RS29	Residential	1	62.3	60.7	1.6	0.6	1.7	0.1	60.3	2.0	0.6	60.0	2.3	0.3	59.7	2.6	0.3	59.6	2.7	0.1		
RS30	Residential	1	61.1	59.7	1.4	0.0	59.7	1.4	0.0	59.5	1.6	0.2	59.2	1.9	0.3	59.0	2.1	0.2	58.7	2.4	0.2	
RS31	Residential	1	71.1	67.5	3.6	0.5	5.2	1.6	64.7	6.4	1.2	64.0	7.1	0.7	63.4	7.7	0.6	62.9	8.2	0.5		
RS32	Residential	1	69.1	65.9	3.2	0.4	3.7	0.5	63.8	5.3	1.6	63.3	5.8	0.5	62.7	6.4	0.6	62.3	6.8	0.4		
RS33	Residential	1	66.8	64.1	2.7	0.3	63.9	2.9	0.2	62.6	4.2	1.3	62.2	4.6	0.4	61.8	5.0	0.4	61.4	5.4	0.4	
RS34	Residential	1	60.5	59.1	1.4	0.1	59.1	1.4	0.0	58.8	1.7	0.3	58.6	1.9	0.2	58.4	2.1	0.2	58.3	2.2	0.1	
Average			67.2	65.2	2.1	0.4	64.9	2.4	0.3	64.2	3.1	0.7	63.8	3.4	0.3	63.5	3.7	0.3	63.3	4.0	0.2	
Min			73.3	70.3	3.8	0.9	5.4	1.6	60.2	6.6	1.9	68.8	7.4	0.8	68.7	8.0	0.6	68.4	8.6	0.7		
Max			60.5	59.1	1.8	0.8	59.1	0.9	58.8	1.0	0.1	58.6	1.1	0.1	58.4	1.2	0.1	58.3	1.3	0.0		
Number of Impacted Residences			220	220		220		220		220		220		220		220		220		220		220
Total Cost			\$433,440	\$565,880		\$166,800		\$680,160		\$1,013,520		\$44,084		\$906,890		\$41,185		\$1,007,240		\$46,375		\$1,133,600
Cost per benefited residence			\$1,970	\$2,572		\$760		\$4,637		\$4,608		\$200		\$4,622		\$192		\$4,579		\$211		\$515

Notes: Total barrier cost is calculated based on a factor of \$40.00 per square foot of barrier surface area according to NJ Turnpike Noise Policy.
 Cost per residence is calculated based on total cost divided by the number of impacted and benefited receptors according to NJ Turnpike Noise Policy.
 Impacted receptors with 3 dBA or more noise level reduction will be counted as benefited and counted as one residence in the cost-per-residence calculation.
 Residents with 3 dBA or more noise level reduction but not impacted will also be counted as benefited but counted as one-half residence in the cost-per-residence calculation.
 * Represents Impacted Receptors.
 Source: The Loudberger Group, Inc., June 2006.

Table

Preliminary Noise Barrier Analysis

Neighborhood Represented by Site M10-M.P. 61.8 Southbound New Jersey Turnpike Interchange 6-8A Widening

Noise Sensitive Site	Receptor Type	No Barrier						With Barrier															
		Number of Residences Represented	Non-Abated Leq (dBA)	Abated Leq (dBA)	I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.
Height (meter)		0.0	2.4			3.0			3.7			4.3			4.9			5.5			6.1		
Height (ft)		0.0	8			10			12			14			16			18			20		
M10	Residential		67.6	63.2	4.4	62.6	5.0	0.6	61.0	6.6	1.6	60.3	7.3	0.7	59.9	7.7	0.4	59.5	8.1	0.4	59.3	8.3	0.2
RS50"	Residential	1	61.9	58.5	3.4	57.6	4.3	0.9	57.4	4.5	0.2	56.4	5.5	1.0	55.8	6.1	0.6	55.3	6.6	0.5	54.9	7.0	0.4
RS51"	Residential	1	62.6	59.3	3.3	58.5	4.1	0.8	58.1	4.5	0.4	57.1	5.5	1.0	56.4	6.2	0.7	55.9	6.7	0.5	55.4	7.2	0.5
RS52"	Residential	1	63.5	60.1	3.4	59.4	4.1	0.7	59.0	4.5	0.4	57.9	5.6	1.1	57.1	6.4	0.8	56.5	7.0	0.6	56.0	7.5	0.5
RS53"	Residential	1	64.2	60.6	3.6	60.0	4.2	0.6	59.7	4.5	0.3	58.4	5.8	1.3	57.5	6.7	0.9	56.9	7.3	0.6	56.4	7.8	0.5
RS54"	Residential	1	64.6	60.8	3.8	60.3	4.3	0.5	59.5	5.1	0.8	58.7	5.9	0.8	57.7	6.9	1.0	57.1	7.5	0.6	56.7	7.9	0.4
RS55"	Residential	1	62.4	58.7	3.7	58.0	4.4	0.7	57.5	4.9	0.5	56.7	5.7	0.8	55.9	6.5	0.8	55.5	6.9	0.4	55.1	7.3	0.4
RS56"	Residential	1	62.4	58.5	3.9	57.9	4.5	0.6	57.1	5.3	0.8	56.5	5.9	0.6	55.7	6.7	0.8	55.3	7.1	0.4	55.0	7.4	0.3
RS57"	Residential	1	64.4	60.6	3.8	60.1	4.3	0.5	59.2	5.2	0.9	58.5	5.9	0.7	57.4	7.0	1.1	57.0	7.4	0.4	56.6	7.8	0.4
RS58"	Residential	1	63.8	59.7	4.1	59.2	4.6	0.5	58.2	5.6	1.0	57.6	6.2	0.6	56.8	7.0	0.8	56.4	7.4	0.4	56.0	7.8	0.4
RS59"	Residential	1	62.9	58.6	4.3	58.2	4.7	0.4	57.2	5.7	1.0	56.7	6.2	0.5	56.0	6.9	0.7	55.6	7.3	0.4	55.3	7.6	0.3
RS60"	Residential	1	62.8	58.5	4.3	58.1	4.7	0.4	57.1	5.7	1.0	56.6	6.2	0.5	55.9	6.9	0.7	55.6	7.2	0.3	55.3	7.5	0.3
RS61"	Residential	1	64.0	59.7	4.3	59.4	4.6	0.3	58.2	5.8	1.2	57.6	6.4	0.6	56.8	7.2	0.8	56.4	7.6	0.4	56.1	7.9	0.3
RS62"	Residential	1	64.7	60.3	4.4	60.0	4.7	0.3	58.8	5.9	1.2	58.1	6.6	0.7	57.3	7.4	0.8	56.9	7.8	0.4	56.6	8.1	0.3
RS63"	Residential	1	65.7	61.3	4.4	61.0	4.7	0.3	59.6	6.1	1.4	58.6	7.1	1.0	58.1	7.6	0.5	57.7	8.0	0.4	57.4	8.3	0.3
RS64"	Residential	1	66.6	62.1	4.5	61.7	4.9	0.4	60.2	6.4	1.5	59.3	7.3	0.9	58.8	7.8	0.5	58.4	8.2	0.4	58.1	8.5	0.3
RS65"	Residential	1	67.6	63.1	4.5	62.6	5.0	0.5	60.9	6.7	1.7	60.0	7.6	0.9	59.5	8.1	0.5	59.1	8.5	0.4	58.8	8.8	0.3
RS66"	Residential	1	67.7	63.2	4.5	62.7	5.0	0.5	61.0	6.7	1.7	60.3	7.4	0.7	59.8	7.9	0.5	59.4	8.3	0.4	59.2	8.5	0.2
RS67"	Residential	1	64.1	59.6	4.5	59.3	4.8	0.3	58.2	5.9	1.1	57.6	6.5	0.6	57.3	6.8	0.3	57.0	7.1	0.3	56.8	7.3	0.2
RS68"	Residential	1	63.3	58.9	4.4	58.6	4.7	0.3	57.5	5.8	1.1	56.9	6.4	0.6	56.5	6.8	0.4	56.3	7.0	0.2	56.1	7.2	0.2
RS69"	Residential	1	62.5	58.2	4.3	57.9	4.6	0.3	56.9	5.6	1.0	56.4	6.1	0.5	56.0	6.5	0.4	55.7	6.8	0.3	55.5	7.0	0.2
RS70"	Residential	1	63.3	58.8	4.5	58.5	4.8	0.3	57.4	5.9	1.1	56.9	6.4	0.5	56.3	7.0	0.6	56.0	7.3	0.3	55.8	7.5	0.2
RS71"	Residential	1	62.4	58.0	4.4	57.7	4.7	0.3	56.7	5.7	1.0	56.2	6.2	0.5	55.6	6.8	0.6	55.4	7.0	0.2	55.1	7.3	0.3
RS72"	Residential	1	61.9	58.0	3.9	57.7	4.2	0.3	56.9	5.0	0.8	56.5	5.4	0.4	56.3	5.6	0.2	56.1	5.8	0.2	55.9	6.0	0.2
RS73"	Residential	1	62.4	58.5	3.9	58.2	4.2	0.3	57.4	5.0	0.8	57.0	5.4	0.4	56.7	5.7	0.3	56.6	5.8	0.1	56.4	6.0	0.2
RS74"	Residential	1	63.5	59.4	4.1	59.0	4.5	0.4	58.1	5.4	0.9	57.6	5.9	0.5	57.4	6.1	0.2	57.2	6.3	0.2	57.0	6.5	0.2
Average			63.8	59.7	4.1	59.3	4.5	0.5	58.3	5.5	1.0	57.6	6.2	0.7	57.0	6.8	0.6	56.6	7.2	0.4	56.3	7.5	0.3
Max			67.7	63.2	4.5	62.7	5.0	0.9	61.0	6.7	1.7	60.3	7.6	1.3	59.8	8.1	1.1	59.4	8.5	0.6	59.2	8.8	0.5
Min			61.9	58.0	3.3	57.6	4.1	0.3	56.7	4.5	0.2	56.2	5.4	0.4	55.6	5.6	0.2	55.3	5.8	0.1	54.9	6.0	0.2
Number of Impacted Residences			3.0			3.0			3.0			3.0			3.0			3.0			3.0		
Number of Benefited Residences			14.0			14.0			14.0			14.0			14.0			14.0			14.0		
Total Cost			\$689,280			\$861,600			\$1,033,920			\$1,206,240			\$1,378,560			\$1,550,880			\$1,723,200		
Cost per benefited residence			\$49,234			\$61,543			\$73,851			\$86,160			\$98,469			\$110,777			\$123,086		

Note: Total barrier cost is calculated based on a factor of \$40.00 per square foot of barrier surface area according to NJ Turnpike Noise Policy.

Cost per residence is calculated based on total cost divided by the number of impacted and benefited receptors according to NJ Turnpike Noise Policy.

Impacted residence with 3 dBA or more noise level reduction will be considered as benefited and counted as one residence in the cost-per-residence calculation.

Residences with 3 dBA or more noise level reduction but not impacted will also be counted as benefited but counted as one-half residence in the cost-per-residence calculation.

Represents Impacted Receptors.

Source: The Louis Berger Group, Inc., June 2006.

Table
Preliminary Noise Barrier Analysis
Neighborhood Represented by Site M11-M.P. 63.1 Northbound
New Jersey Turnpike Interchange 6-8A Widening

Noise Sensitive Site	Receptor Type	No Barrier		With Barrier																			
		Number of Residences Represented	Non-Abated Leq (dBA)	Abated Leq (dBA)	I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.
Height (meter)		0.0		2.4		3.0			3.7			4.3			4.9			5.5			6.1		
Height (ft)		0.0		8		10			12			14			16			18			20		
RN1	Residential	1	66.3	62.8	3.5	62.5	3.8	0.3	61.2	5.1	1.3	60.8	5.5	0.4	60.5	5.8	0.3	60.4	5.9	0.1	60.2	6.1	0.2
RN2	Residential	1	64.2	61.1	3.1	60.8	3.4	0.3	59.8	4.4	1.0	59.5	4.7	0.3	59.3	4.9	0.2	59.2	5.0	0.1	59.1	5.1	0.1
RN3	Residential	1	62.9	59.7	3.2	59.5	3.4	0.2	58.6	4.3	0.9	58.4	4.5	0.2	58.2	4.7	0.2	58.0	4.9	0.2	57.9	5.0	0.1
RN4	Residential	1	62.9	59.9	3.0	59.7	3.2	0.2	58.9	4.0	0.8	58.7	4.2	0.2	58.5	4.4	0.2	58.4	4.5	0.1	58.3	4.6	0.1
RN5	Residential	1	63.8	60.8	3.0	60.6	3.2	0.2	59.7	4.1	0.9	59.4	4.4	0.3	59.2	4.6	0.2	59.1	4.7	0.1	59.0	4.8	0.1
RN6	Residential	1	63.1	60.2	2.9	60.2	2.9	0.0	59.3	3.8	0.9	59.1	4.0	0.2	58.9	4.2	0.2	58.8	4.3	0.1	58.7	4.4	0.1
Average			63.9	60.8	3.1	60.6	3.3	0.2	59.6	4.3	1.0	59.3	4.6	0.3	59.1	4.8	0.2	59.0	4.9	0.1	58.9	5.0	0.1
Max			66.3	62.8	3.5	62.5	3.8	0.3	61.2	5.1	1.3	60.8	5.5	0.4	60.5	5.8	0.3	60.4	5.9	0.2	60.2	6.1	0.2
Min			62.9	59.7	2.9	59.5	2.9	0.0	58.6	3.8	0.8	58.4	4.0	0.2	58.2	4.2	0.2	58.0	4.3	0.1	57.9	4.4	0.1
Number of Impacted Residences				1.0		1.0			1.0			1.0			1.0			1.0			1.0		
Number of Benefited Residences				3.0		3.0			3.5			3.5			3.5			3.5			3.5		
Total Cost				\$578,560		\$723,200			\$867,840			\$1,012,480			\$1,157,120			\$1,301,760			\$1,446,400		
Cost per benefited residence				\$192,853		\$241,067			\$247,954			\$289,280			\$330,606			\$371,931			\$413,257		

Note: Total barrier cost is calculated based on a factor of \$40.00 per square foot of barrier surface area according to NJ Turnpike Noise Policy.
Cost per residence is calculated based on total cost divided by the number of impacted and benefited receptors according to NJ Turnpike Noise Policy.
Impacted residence with 3 dBA or more noise level reduction will be considered as benefited and counted as one residence in the cost-per-residence calculation.
Residences with 3 dBA or more noise level reduction but not impacted will also be counted as benefited but counted as one-half residence in the cost-per-residence calculation.
Represents impacted receptors.

Source: The Louis Berger Group, Inc., June 2006.

Table

Preliminary Noise Barrier Analysis

Neighborhood Represented by Site M12-M.P. 63.8 Northbound New Jersey Turnpike Interchange 6-8A Widening

Noise Sensitive Site	Receptor Type	No Barrier			With Barrier																			
		Number of Residences Represented	Non-Abated Leq (dBA)	Abated Leq (dBA)	I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	
Height (meter)		0.0		2.4		3.0		3.7		4.3		4.9		5.5		6.1								
Height (ft)		0.0		8		10		12		14		16		18		20								
RN7	Residential	1	68.1	64.3	3.8	64.1	4.0	0.2	62.4	5.7	1.7	62.0	6.1	0.4	61.7	6.4	0.3	61.4	6.7	0.3	61.3	6.8	0.1	
RN8	Residential	1	65.3	61.6	3.7	61.3	4.0	0.3	60.1	5.2	1.2	59.7	5.6	0.4	59.5	5.8	0.2	59.3	6.0	0.2	59.2	6.1	0.1	
RN9	Residential	1	65.2	60.7	4.5	60.4	4.8	0.3	58.8	6.4	1.6	58.3	6.9	0.5	57.9	7.3	0.4	57.7	7.5	0.2	57.5	7.7	0.2	
RN10	Residential	1	70.3	65.8	4.5	65.7	4.6	0.1	63.1	7.2	2.6	62.1	8.2	1.0	61.4	8.9	0.7	60.8	9.5	0.6	60.4	9.9	0.4	
RN11	Residential	1	68.8	64.3	4.5	64.2	4.6	0.1	61.8	7.0	2.4	60.9	7.9	0.9	60.3	8.5	0.6	59.8	9.0	0.5	59.5	9.3	0.3	
RN12	Residential	1	65.4	61.2	4.2	61.0	4.4	0.2	59.5	5.9	1.5	58.8	6.6	0.7	58.5	6.9	0.3	58.2	7.2	0.3	58.0	7.4	0.2	
RN13	Residential	1	69.7	65.1	4.6	64.6	5.1	0.5	62.4	7.3	2.2	61.6	8.1	0.8	61.0	8.7	0.6	60.6	9.1	0.4	60.3	9.4	0.3	
RN14	Residential	1	62.8	58.7	4.1	58.6	4.2	0.1	57.3	5.5	1.3	56.9	5.9	0.4	56.6	6.2	0.3	56.4	6.4	0.2	56.3	6.5	0.1	
RN15	Residential	1	62.7	58.7	4.0	58.6	4.1	0.1	57.4	5.3	1.2	57.1	5.6	0.3	56.8	5.9	0.3	56.6	6.1	0.2	56.5	6.2	0.1	
RN16	Residential	1	61.2	57.5	3.7	57.4	3.8	0.1	56.4	4.8	1.0	56.0	5.2	0.4	55.8	5.4	0.2	55.6	5.6	0.2	55.5	5.7	0.1	
Average			66.0	61.8	4.2	61.6	4.4	0.2	59.9	6.0	1.7	59.3	6.6	0.6	59.0	7.0	0.4	58.6	7.3	0.3	58.5	7.5	0.2	
Max			70.3	65.8	4.6	65.7	5.1	0.5	63.1	7.3	2.6	62.1	8.2	1.0	61.7	8.9	0.7	61.4	9.5	0.6	61.3	9.9	0.4	
Min			61.2	57.5	3.7	57.4	3.8	0.1	56.4	4.8	1.0	56.0	5.2	0.3	55.8	5.4	0.2	55.6	5.6	0.2	55.5	5.7	0.1	
Number of Impacted Residences				4.0		4.0		4.0		4.0		4.0		4.0		4.0		4.0		4.0		4.0		
Number of Benefited Residences				7.0		7.0		7.0		7.0		7.0		7.0		7.0		7.0		7.0		7.0		
Total Cost				\$800,000		\$1,000,000		\$1,200,000		\$1,400,000		\$1,600,000		\$1,800,000		\$2,000,000		\$2,200,000		\$2,400,000		\$2,600,000		
Cost per benefited residence				\$114,286		\$142,857		\$171,429		\$200,000		\$228,571		\$257,143		\$285,714		\$314,286		\$342,857		\$371,429		

Note: Total barrier cost is calculated based on a factor of \$40.00 per square foot of barrier surface area according to NJ Turnpike Noise Policy.

Cost per residence is calculated based on total cost divided by the number of impacted and benefited receptors according to NJ Turnpike Noise Policy.

Impacted residence with 3 dBA or more noise level reduction will be considered as benefited and counted as one residence in the cost-per-residence calculation.

Residences with 3 dBA or more noise level reduction but not impacted will also be counted as benefited but counted as one-half residence in the cost-per-residence calculation.

Represents impacted receptors.

Source: The Louis Berger Group, Inc., June 2006.

Table
Preliminary Noise Barrier Analysis
Neighborhood Represented by Site M13-M.P. 65.5 Southbound
New Jersey Turnpike Interchange 6-8A Widening

Noise Sensitive Site	Receptor Type	No Barrier				With Barrier																	
		Number of Residences Represented	Non-Ambient Leq (dBA)	Ambient Leq (dBA)	TL, in LL	Ambient Leq (dBA)	Change in LL	Ambient Leq (dBA)	Change in LL														
Height (ft)		0.0	8	24	30	3.7	4.3	4.9	18	5.5	6.1												
RS75	Residential	1	79.9	74.7	5.2	72.7	7.2	2.0	71.6	8.3	1.1	71.0	8.9	0.6	70.6	9.3	0.4	70.3	9.6	0.3	70.1	9.8	0.2
RS76	Residential	1	74.5	71.2	3.3	70.7	3.8	0.5	69.5	5.0	1.2	69.2	5.3	0.3	68.9	5.6	0.3	68.9	5.7	0.1	68.8	5.7	0.1
RS77	Residential	1	71.2	68.5	2.7	68.3	2.9	0.2	66.9	4.3	1.4	66.4	4.8	0.5	66.1	5.1	0.3	65.9	5.3	0.2	65.8	5.4	0.1
RS78	Residential	1	70.8	66.8	4.0	65.9	4.9	0.9	63.6	7.2	2.3	62.7	8.1	0.9	62.0	8.8	0.7	61.6	9.2	0.4	61.2	9.6	0.4
RS79	Residential	1	67.0	63.8	3.2	63.4	3.6	0.4	62.3	4.7	1.1	61.9	5.1	0.4	61.7	5.3	0.2	61.6	5.4	0.1	61.5	5.5	0.1
RS80	Residential	1	67.1	63.7	3.4	63.3	3.8	0.4	62.1	5.0	1.2	61.7	5.4	0.4	61.5	5.6	0.2	61.3	5.8	0.2	61.2	5.9	0.1
RS81	Residential	1	66.9	63.3	3.6	62.9	4.0	0.4	61.7	5.2	1.2	61.2	5.7	0.5	61.0	5.9	0.2	60.8	6.1	0.2	60.7	6.2	0.1
RS82	Residential	1	66.4	62.8	3.6	62.4	4.0	0.4	61.2	5.2	1.2	60.7	5.7	0.5	60.5	5.9	0.2	60.3	6.1	0.2	60.2	6.2	0.1
RS83	Residential	1	66.0	62.4	3.6	62.3	3.7	0.1	60.8	5.2	1.5	60.3	5.7	0.5	60.0	6.0	0.3	59.8	6.2	0.2	59.7	6.3	0.1
RS84	Residential	1	64.9	61.5	3.4	61.4	3.5	0.1	60.1	4.8	1.3	59.6	5.3	0.5	59.4	5.5	0.2	59.3	5.6	0.1	59.2	5.7	0.1
RS85	Residential	1	64.2	60.9	3.3	60.8	3.4	0.1	59.7	4.5	1.1	59.3	4.9	0.4	59.1	5.1	0.2	59.0	5.2	0.1	58.9	5.3	0.1
RS86	Residential	1	63.3	60.2	3.1	60.1	3.2	0.1	59.3	4.0	0.8	59.1	4.2	0.2	59.0	4.3	0.1	58.9	4.4	0.1	58.8	4.5	0.1
RS87	Residential	1	62.6	59.5	3.1	59.4	3.2	0.1	58.7	3.9	0.7	58.4	4.2	0.3	58.3	4.3	0.1	58.2	4.4	0.1	58.1	4.5	0.1
RS88	Residential	1	61.9	58.8	3.1	58.8	3.1	0.0	58.1	3.8	0.7	57.8	4.1	0.3	57.7	4.2	0.1	57.6	4.3	0.1	57.6	4.3	0.0
RS89	Residential	1	65.2	62.1	3.1	61.8	3.4	0.3	60.7	4.5	1.1	60.3	4.9	0.4	60.1	5.1	0.2	60.0	5.2	0.1	59.9	5.3	0.1
RS90	Residential	1	64.9	61.8	3.1	61.5	3.4	0.3	60.5	4.4	1.0	60.1	4.8	0.4	60.0	4.9	0.1	59.9	5.0	0.1	59.8	5.1	0.1
RS91	Residential	1	64.8	61.6	3.2	61.3	3.5	0.3	60.3	4.5	1.0	60.0	4.8	0.3	59.8	5.0	0.2	59.7	5.1	0.1	59.6	5.2	0.1
RS92	Residential	1	64.6	61.4	3.2	61.1	3.5	0.3	60.1	4.5	1.0	59.7	4.9	0.4	59.6	5.0	0.1	59.5	5.1	0.1	59.4	5.2	0.1
RS93	Residential	1	64.3	61.1	3.2	61.0	3.3	0.2	60.0	4.3	1.0	59.6	4.7	0.4	59.5	4.8	0.1	59.5	4.8	0.0	59.4	4.9	0.1
RS94	Residential	1	63.0	59.9	3.1	59.7	3.3	0.2	58.9	4.1	0.8	58.6	4.4	0.3	58.5	4.5	0.1	58.3	4.7	0.2	58.2	4.8	0.1
RS95	Residential	1	62.3	59.1	3.2	59.1	3.2	0.0	58.3	4.0	0.8	58.0	4.3	0.3	57.9	4.4	0.1	57.8	4.5	0.1	57.7	4.6	0.1
RS96	Residential	1	61.8	58.6	3.2	58.5	3.3	0.1	57.8	4.0	0.7	57.5	4.3	0.3	57.3	4.5	0.2	57.2	4.6	0.1	57.1	4.7	0.1
RS97	Residential	1	62.0	58.7	3.3	58.7	3.3	0.0	57.9	4.1	0.8	57.7	4.3	0.2	57.4	4.6	0.3	57.3	4.7	0.1	57.2	4.8	0.1
RS98	Residential	1	64.0	60.9	3.1	60.8	3.2	0.1	60.0	4.0	0.8	59.6	4.4	0.4	59.3	4.7	0.3	59.1	4.9	0.2	59.0	5.0	0.1
RS99	Residential	1	63.0	60.4	2.6	60.1	2.9	0.3	59.4	3.6	0.7	59.0	4.0	0.4	58.8	4.2	0.2	58.6	4.4	0.2	58.4	4.6	0.2
RS100	Residential	1	63.3	60.2	3.1	60.2	3.1	0.0	59.7	3.6	0.5	59.3	4.0	0.4	59.0	4.3	0.3	58.9	4.4	0.1	58.8	4.5	0.1
RS101	Residential	1	62.6	59.4	3.1	59.4	3.2	0.1	58.8	3.8	0.6	58.4	4.2	0.4	58.1	4.5	0.3	58.0	4.6	0.1	57.9	4.7	0.1
RS102	Residential	1	62.2	59.0	3.2	58.9	3.3	0.1	58.4	3.8	0.5	58.0	4.2	0.4	57.7	4.5	0.3	57.5	4.7	0.2	57.4	4.8	0.1
RS103	Residential	1	62.0	58.8	3.2	58.7	3.3	0.1	58.2	3.8	0.5	57.8	4.2	0.4	57.6	4.4	0.2	57.4	4.6	0.2	57.3	4.7	0.1
RS104	Residential	1	63.1	60.0	3.1	59.8	3.3	0.2	59.1	4.0	0.7	58.8	4.3	0.3	58.6	4.5	0.2	58.5	4.6	0.1	58.4	4.7	0.1
RS105	Residential	1	62.6	59.4	3.2	59.2	3.4	0.2	58.6	4.0	0.6	58.3	4.3	0.3	58.1	4.5	0.2	58.0	4.6	0.1	57.9	4.7	0.1
RS106	Residential	1	61.7	58.7	3.0	58.5	3.2	0.2	58.0	3.7	0.5	57.7	4.0	0.3	57.5	4.2	0.2	57.3	4.4	0.2	57.3	4.4	0.0
Average			65.1	61.9	3.3	61.6	3.5	0.3	60.6	4.5	1.0	60.2	4.9	0.4	60.0	5.1	0.2	59.9	5.3	0.1	59.8	5.4	0.1
Max			79.9	74.7	5.2	72.7	7.2	2.0	71.6	8.3	2.3	71.0	8.9	0.9	70.6	9.3	0.7	70.3	9.6	0.4	70.1	9.8	0.4
Min			61.7	58.6	2.6	58.5	2.9	0.0	57.8	3.6	0.5	57.3	4.0	0.2	57.3	4.2	0.1	57.2	4.3	0.0	57.1	4.3	0.0
Number of Impacted Residences			9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
Number of Beneficial Residences																							
Total Cost			\$608,640	\$760,800	\$760,800	\$760,800	\$760,800	\$760,800	\$912,960	\$912,960	\$912,960	\$1,065,120	\$1,065,120	\$1,065,120	\$1,217,280	\$1,217,280	\$1,217,280	\$1,369,440	\$1,369,440	\$1,369,440	\$1,521,600	\$1,521,600	
Cost per Beneficial Residence			33,034	40,042	40,042	40,042	40,042	40,042	44,335	44,335	44,335	51,957	51,957	51,957	59,380	59,380	59,380	66,802	66,802	66,802	74,224	74,224	

Note: Total barrier cost is calculated based on a factor of \$40.00 per square foot of barrier surface area according to NJ Turnpike Noise Policy.
Cost per residence is calculated based on total cost divided by the number of impacted and benefited receptors according to NJ Turnpike Noise Policy.
Impacted residence with 3 dBA or more noise level reduction will be considered as benefited and counted as one residence in the cost-per-residence calculation.
Residences with 3 dBA or more noise level reduction but not impacted will also be counted as benefited but counted as one-half residence in the cost-per-residence calculation.
Represents impacted receptors.

Source: The Louis Berger Group, Inc., June 2006.

Table Preliminary Noise Barrier Analysis Neighborhood Represented by Site M14-M.P. 67.0 Southbound New Jersey Turnpike Interchange 6-8A Widening

Noise Sensitive Site	Receptor Type	No Barrier			With Barrier																				
		Number of Residences Represented	Non-Abated Leq (dBA)	Abated Leq (dBA)	I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.		
Height (meter)		0.0			2.4			3.0			3.7			4.3			4.9			5.5			6.1		
Height (ft)		0.0			8			10			12			14			16			18			20		
RS107	Residential	6	70.6	66.9	3.7	65.1	5.5	1.8	63.7	6.9	1.4	62.8	7.8	0.9	61.9	8.7	0.9	61.2	9.4	0.7	60.7	9.9	0.5		
RS108	Residential	6	69.1	66.6	2.5	65.8	3.3	0.8	63.8	5.3	2.0	62.7	6.4	1.1	61.7	7.4	1.0	60.9	8.2	0.8	60.2	8.9	0.7		
RS109	Residential	6	63.2	60.2	3.0	59.8	3.4	0.4	59.2	4.0	0.6	58.4	4.8	0.8	58.0	5.2	0.4	57.9	5.3	0.1	57.6	5.6	0.3		
RS110	Residential	6	60.1	57.8	2.3	57.6	2.5	0.2	57.0	3.1	0.6	56.7	3.4	0.3	56.3	3.8	0.4	56.1	4.0	0.2	56.0	4.1	0.1		
RS111	Residential	6	66.8	64.4	2.4	63.7	3.1	0.7	62.0	4.8	1.7	61.0	5.8	1.0	60.2	6.6	0.8	59.7	7.1	0.5	59.1	7.7	0.6		
RS112	Residential	6	62.5	60.6	1.9	60.1	2.4	0.5	59.5	3.0	0.6	58.3	4.2	1.2	57.7	4.8	0.6	57.2	5.3	0.5	56.9	5.6	0.3		
RS113	Residential	6	60.4	58.2	2.2	57.8	2.6	0.4	57.2	3.2	0.6	56.5	3.9	0.7	55.7	4.7	0.8	55.6	4.8	0.1	55.9	4.5	-0.3		
RS114	Residential	6	61.4	58.7	2.7	58.4	3.0	0.3	57.8	3.6	0.6	57.0	4.4	0.8	56.5	4.9	0.5	56.7	4.7	-0.2	56.6	4.8	0.1		
RS115	Residential	6	60.0	57.3	2.7	57.1	2.9	0.2	56.6	3.4	0.5	56.0	4.0	0.6	55.7	4.3	0.3	55.5	4.5	0.2	55.3	4.7	0.2		
RS116	Residential	6	56.5	56.1	0.4	55.9	0.6	0.2	55.4	1.1	0.5	55.2	1.3	0.2	54.7	1.8	0.5	54.5	2.0	0.2	54.3	2.2	0.2		
RS117	Residential	6	56.8	56.3	0.5	56.1	0.7	0.2	55.6	1.2	0.5	55.4	1.4	0.2	54.9	1.9	0.5	54.8	2.0	0.1	54.6	2.2	0.2		
RS118	Residential	6	55.9	55.5	0.4	55.2	0.7	0.3	54.5	1.4	0.7	54.4	1.5	0.1	54.0	1.9	0.4	53.8	2.1	0.2	53.6	2.3	0.2		
RS119	Residential	6	67.5	64.6	2.9	63.9	3.6	0.7	62.2	5.3	1.7	61.4	6.1	0.8	60.7	6.8	0.7	60.2	7.3	0.5	60.0	7.5	0.2		
RS120	Residential	6	62.6	60.6	2.0	60.0	2.6	0.6	59.1	3.5	0.9	57.6	5.0	1.5	58.0	4.6	-0.4	57.4	5.2	0.6	57.1	5.5	0.3		
RS121	Residential	6	59.2	57.6	1.6	57.1	2.1	0.5	56.5	2.7	0.6	55.6	3.6	0.9	54.9	4.3	0.7	54.7	4.5	0.2	54.6	4.6	0.1		
RS122	Residential	6	58.2	56.2	2.0	56.0	2.2	0.2	55.6	2.6	0.4	55.1	3.1	0.5	54.6	3.6	0.5	54.3	3.9	0.3	54.1	4.1	0.2		
RS123	Residential	6	58.8	57.3	1.5	57.0	1.8	0.3	56.2	2.6	0.8	55.7	3.1	0.5	55.4	3.4	0.3	55.5	3.3	-0.1	55.2	3.6	0.3		
RS124	Residential	6	57.3	55.4	1.9	55.7	1.6	-0.3	55.0	2.3	0.7	54.2	3.1	0.8	53.6	3.7	0.6	53.3	4.0	0.3	53.4	3.9	-0.1		
RS125	Residential	6	57.6	55.5	2.1	55.3	2.3	0.2	54.7	2.9	0.6	54.6	3.0	0.1	54.2	3.4	0.4	54.1	3.5	0.1	53.8	3.8	0.3		
RS126	Residential	6	61.4	58.6	2.8	58.2	3.2	0.4	57.4	4.0	0.8	56.6	4.8	0.8	56.0	5.4	0.6	55.8	5.6	0.2	55.4	6.0	0.4		
RS127	Residential	6	60.2	57.4	2.8	57.1	3.1	0.3	56.4	3.8	0.7	55.5	4.7	0.9	55.3	4.9	0.2	54.9	5.3	0.4	54.6	5.6	0.3		
RS128	Residential	6	59.0	56.3	2.7	56.1	2.9	0.2	55.4	3.6	0.7	54.6	4.4	0.8	54.4	4.6	0.2	54.5	4.5	-0.1	54.2	4.8	0.3		
Average			61.1	59.0	2.1	58.6	2.6	0.4	57.8	3.4	0.8	57.1	4.1	0.7	56.6	4.6	0.5	56.3	4.8	0.3	56.1	5.1	0.2		
Max			70.6	66.9	3.7	65.8	5.5	1.8	63.8	6.9	2.0	62.8	7.8	1.5	61.9	8.7	1.0	61.2	9.4	0.8	60.7	9.9	0.7		
Min			55.9	55.4	0.4	55.2	0.6	-0.3	54.5	1.1	0.4	54.2	1.3	0.1	53.6	1.8	-0.4	53.3	2.0	-0.2	53.4	2.2	-0.3		
Number of Impacted Residences			24			24			24			24			24			24			24				
Number of Benefited Residences			9.0			36.0			54.0			63.0			63.0			63.0			63.0				
Total Cost			\$1,008,960			\$1,261,200			\$1,513,440			\$1,765,680			\$2,017,920			\$2,270,160			\$2,522,400				
Cost per benefited residence			\$112,107			\$35,033			\$28,027			\$28,027			\$32,030			\$36,034			\$40,038				

Note: Total barrier cost is calculated based on a factor of \$40.00 per square foot of barrier surface area according to NJ Turnpike Noise Policy.
 Cost per residence is calculated based on total cost divided by the number of impacted and benefited receptors according to NJ Turnpike Noise Policy.
 Impacted residence with 3 dBA or more noise level reduction will be considered as benefited and counted as one residence in the cost-per-residence calculation.
 Residences with 3 dBA or more noise level reduction but not impacted will also be counted as benefited but counted as one-half residence in the cost-per-residence calculation.
 Represents impacted receptors.

Source: The Louis Berger Group, Inc., June 2006.

Table

Preliminary Noise Barrier Analysis

Neighborhood Represented by Site M15-M.P. 67.0 Northbound New Jersey Turnpike Interchange 6-8A Widening

		No Barrier		With Barrier																			
Noise Sensitive Site	Receptor Type	Number of Residences Represented	Non-Abated Leq (dBA)	Abated Leq (dBA)	I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.
Height (meter)		0.0		2.4		3.0			3.7			4.3			4.9			5.5			6.1		
Height (ft)		0.0		8		10			12			14			16			18			20		
RN17	Residential	1	77.6	73.4	4.2	72.8	4.8	0.6	71.0	6.6	1.8	70.4	7.2	0.6	70.0	7.6	0.4	69.8	7.8	0.2	69.6	8.0	0.2
RN18	Residential	1	68.9	65.9	3.0	65.6	3.3	0.3	64.5	4.4	1.1	64.0	4.9	0.5	63.7	5.2	0.3	63.5	5.4	0.2	63.3	5.6	0.2
RN19	Residential	1	69.6	66.2	3.4	65.7	3.9	0.5	64.7	4.9	1.0	64.2	5.4	0.5	63.8	5.8	0.4	63.6	6.0	0.2	63.3	6.3	0.3
RN20	Residential	1	70.0	66.5	3.5	65.8	4.2	0.7	65.1	4.9	0.7	64.5	5.5	0.6	64.2	5.8	0.3	63.9	6.1	0.3	63.7	6.3	0.2
RN21	Residential	1	70.6	67.1	3.5	66.1	4.5	1.0	65.5	5.1	0.6	64.9	5.7	0.6	64.5	6.1	0.4	64.2	6.4	0.3	64.0	6.6	0.2
RN22	Residential	1	70.8	67.4	3.4	66.2	4.6	1.2	65.4	5.4	0.8	64.9	5.9	0.5	64.5	6.3	0.4	64.1	6.7	0.4	63.9	6.9	0.2
RN23	Residential	1	67.1	64.3	2.8	64.1	3.0	0.2	63.4	3.7	0.7	63.1	4.0	0.3	62.9	4.2	0.2	62.7	4.4	0.2	62.6	4.5	0.1
RN24	Residential	1	67.7	65.0	2.7	64.6	3.1	0.4	64.0	3.7	0.6	63.4	4.3	0.6	63.1	4.6	0.3	62.9	4.8	0.2	62.7	5.0	0.2
RN25	Residential	1	68.0	65.7	2.3	65.1	2.9	0.6	64.3	3.7	0.8	63.9	4.1	0.4	63.5	4.5	0.4	63.3	4.7	0.2	63.1	4.9	0.2
RN26	Residential	1	68.4	66.4	2.0	65.8	2.6	0.6	64.8	3.6	1.0	64.4	4.0	0.4	64.0	4.4	0.4	63.7	4.7	0.3	63.5	4.9	0.2
Average			69.9	66.8	3.1	66.2	3.7	0.6	65.3	4.6	0.9	64.8	5.1	0.5	64.4	5.5	0.4	64.2	5.7	0.3	64.0	5.9	0.2
Max			77.6	73.4	4.2	72.8	4.8	1.2	71.0	6.6	1.8	70.4	7.2	0.6	70.0	7.6	0.4	69.8	7.8	0.4	69.6	8.0	0.3
Min			67.1	64.3	2.0	64.1	2.6	0.2	63.4	3.6	0.6	63.1	4.0	0.3	62.9	4.2	0.2	62.7	4.4	0.2	62.6	4.5	0.1
Number of Impacted Residences				10		10			10			10			10			10			10		
Number of Benefited Residences				6.0		8.0			10.0			10.0			10.0			10.0			10.0		
Total Cost				\$354,560		\$443,200			\$531,840			\$620,480			\$709,120			\$797,760			\$886,400		
Cost per benefited residence				\$59,093		\$55,400			\$53,184			\$62,048			\$70,912			\$79,776			\$88,640		

Note: Total barrier cost is calculated based on a factor of \$40.00 per square foot of barrier surface area according to NJ Turnpike Noise Policy.

Cost per residence is calculated based on total cost divided by the number of impacted and benefited receptors according to NJ Turnpike Noise Policy.

Impacted residence with 3 dBA or more noise level reduction will be considered as benefited and counted as one residence in the cost-per-residence calculation.

Residences with 3 dBA or more noise level reduction but not impacted will also be counted as benefited but counted as one-half residence in the cost-per-residence calculation.

Represents impacted receptors.

Source: The Louis Berger Group, Inc., June 2006.

Table

Preliminary Noise Barrier Analysis

Neighborhood Represented by Site M16-M.P. 70.0 Northbound New Jersey Turnpike Interchange 6-8A Widening

Noise Sensitive Site	Receptor Type	No Barrier			With Barrier																		
		Number of Residences Represented	Non-Abated Leq (dBA)	Abated Leq (dBA)	I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.
Height (meter)		0.0		2.4		3.0			3.7			4.3			4.9			5.5			6.1		
Height (ft)		0.0		8		10			12			14			16			18			20		
RN3	Residential	1	73.6	71.0	2.6	68.2	5.4	2.8	67.3	6.3	0.9	66.8	6.8	0.5	66.4	7.2	0.4	66.1	7.5	0.3	65.9	7.7	0.2
RN4	Residential	1	69.9	67.9	2.0	66.9	3.0	1.0	66.0	3.9	0.9	65.7	4.2	0.3	65.4	4.5	0.3	65.3	4.6	0.1	65.2	4.7	0.1
RN5	Residential	1	69.5	67.1	2.4	66.9	2.6	0.2	65.2	4.3	1.7	64.8	4.7	0.4	64.5	5.0	0.3	64.3	5.2	0.2	64.2	5.3	0.1
RN6	Residential	1	62.7	62.4	0.3	62.4	0.3	0.0	62.3	0.4	0.1	62.1	0.6	0.2	62.1	0.6	0.0	62.1	0.6	0.0	62.0	0.7	0.1
RN7	Residential	1	63.2	63.0	0.2	63.0	0.2	0.0	63.0	0.2	0.0	62.9	0.3	0.1	62.9	0.3	0.0	62.8	0.4	0.1	62.8	0.4	0.0
RN8	Residential	1	64.4	64.3	0.1	64.2	0.2	0.1	64.2	0.2	0.0	64.2	0.2	0.0	64.1	0.3	0.1	64.1	0.3	0.0	64.1	0.3	0.0
RN9	Residential	1	63.6	63.4	0.2	63.4	0.2	0.0	63.4	0.2	0.0	63.3	0.3	0.1	63.3	0.3	0.0	63.3	0.3	0.0	63.3	0.3	0.0
RN10	Residential	1	62.3	62.1	0.2	62.0	0.3	0.1	62.0	0.3	0.0	61.9	0.4	0.1	61.8	0.5	0.1	61.8	0.5	0.0	61.8	0.5	0.0
RN11	Residential	1	62.5	62.3	0.2	62.3	0.2	0.0	62.3	0.2	0.0	62.2	0.3	0.1	62.1	0.4	0.1	62.1	0.4	0.0	62.1	0.4	0.0
RN12	Residential	1	62.9	62.8	0.1	62.8	0.1	0.0	62.8	0.1	0.0	62.7	0.2	0.1	62.7	0.2	0.0	62.7	0.2	0.0	62.6	0.3	0.1
Average			65.5	64.6	0.8	64.2	1.3	0.4	63.9	1.6	0.4	63.7	1.8	0.2	63.5	1.9	0.1	63.5	2.0	0.1	63.4	2.1	0.1
Max			73.6	71.0	2.6	68.2	5.4	2.8	67.3	6.3	1.7	66.8	6.8	0.5	66.4	7.2	0.4	66.1	7.5	0.3	65.9	7.7	0.2
Min			62.3	62.1	0.1	62.0	0.1	0.0	62.0	0.1	0.0	61.9	0.2	0.0	61.8	0.2	0.0	61.8	0.2	0.0	61.8	0.3	0.0
Number of Impacted Residences				3		3			3			3			3			3			3		
Number of Benefited Residences				0.0		2.0			3.0			3.0			3.0			3.0			3.0		
Total Cost				\$316,800		\$396,000			\$475,200			\$554,400			\$633,600			\$712,800			\$792,000		
Cost per benefited residence				#DIV/0!		\$198,000			\$158,400			\$184,800			\$211,200			\$237,600			\$264,000		

Note: Total barrier cost is calculated based on a factor of \$40.00 per square foot of barrier surface area according to NJ Turnpike Noise Policy.

Cost per residence is calculated based on total cost divided by the number of impacted and benefited receptors according to NJ Turnpike Noise Policy.

Impacted residence with 3 dBA or more noise level reduction will be considered as benefited and counted as one residence in the cost-per-residence calculation.

Residences with 3 dBA or more noise level reduction but not impacted will also be counted as benefited but counted as one-half residence in the cost-per-residence calculation.

Represents impacted receptors.

Source: The Louis Berger Group, Inc., June 2006.

Table

Preliminary Noise Barrier Analysis

Neighborhood Represented by Site M17-M.P. 67.7 Northbound New Jersey Turnpike Interchange 6-8A Widening

Noise Sensitive Site	Receptor Type	No Barrier						With Barrier																
		Number of Residences Represented	Non-Abated Leq (dBA)	Abated Leq (dBA)	I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	Abated Leq (dBA)	I.L.	Change in I.L.	
Height (meter)		0.0		2.4		3.0		3.7		4.3		4.9		5.5		6.1								
Height (ft)		0.0		8		10		12		14		16		18		20								
RN47	Residential	1	61.6	58.7	2.9	58.5	3.1	0.2	56.7	4.9	1.8	56.1	5.5	0.6	55.7	5.9	0.4	55.4	6.2	0.3	55.1	6.5	0.3	
RN48	Residential	1	68.5	63.6	4.9	62.7	5.8	0.9	59.7	8.8	3.0	58.8	9.7	0.9	58.2	10.3	0.6	57.7	10.8	0.5	57.3	11.2	0.4	
RN49	Residential	1	63.3	59.9	3.4	59.7	3.6	0.2	57.5	5.8	2.2	56.7	6.6	0.8	56.2	7.1	0.5	55.8	7.5	0.4	55.5	7.8	0.3	
RN50	Residential	1	60.1	57.4	2.7	57.3	2.8	0.1	55.7	4.4	1.6	55.1	5.0	0.6	54.8	5.3	0.3	54.5	5.6	0.3	54.3	5.8	0.2	
RN51	Residential	1	58.7	56.4	2.3	56.1	2.6	0.3	54.7	4.0	1.4	54.2	4.5	0.5	53.9	4.8	0.3	53.7	5.0	0.2	53.5	5.2	0.2	
RN52	Residential	1	58.2	56.1	2.1	55.9	2.3	0.2	54.6	3.6	1.3	54.0	4.2	0.6	53.8	4.4	0.2	53.6	4.6	0.2	53.4	4.8	0.2	
RN53	Residential	1	57.0	55.3	1.7	55.1	1.9	0.2	54.0	3.0	1.1	53.5	3.5	0.5	53.2	3.8	0.3	53.0	4.0	0.2	52.8	4.2	0.2	
RN54	Residential	1	57.7	56.0	1.7	55.6	2.1	0.4	54.8	2.9	0.8	54.0	3.7	0.8	53.7	4.0	0.3	53.5	4.2	0.2	53.3	4.4	0.2	
RN55	Residential	1	58.0	55.9	2.1	55.6	2.4	0.3	54.2	3.8	1.4	53.7	4.3	0.5	53.4	4.6	0.3	53.2	4.8	0.2	53.0	5.0	0.2	
RN56	Residential	1	58.5	56.4	2.1	55.9	2.6	0.5	54.6	3.9	1.3	54.1	4.4	0.5	53.7	4.8	0.4	53.5	5.0	0.2	53.3	5.2	0.2	
RN57	Residential	1	58.8	56.6	2.2	55.8	3.0	0.8	55.0	3.8	0.8	54.6	4.2	0.4	54.0	4.8	0.6	53.6	5.2	0.4	53.4	5.4	0.2	
Average			60.0	57.5	2.6	57.1	2.9	0.4	55.6	4.4	1.5	55.0	5.1	0.6	54.6	5.4	0.4	54.3	5.7	0.3	54.1	6.0	0.2	
Max			68.5	63.6	4.9	62.7	5.8	0.9	59.7	8.8	3.0	58.8	9.7	0.9	58.2	10.3	0.6	57.7	10.8	0.5	57.3	11.2	0.4	
Min			57.0	55.3	1.7	55.1	1.9	0.1	54.0	2.9	0.8	53.5	3.5	0.4	53.2	3.8	0.2	53.0	4.0	0.2	52.8	4.2	0.2	
Number of Impacted Residences				1		1		1		1		1		1		1		1		1		1		
Number of Benefited Residences				1.5		2.5		5.5		6.0		6.0		6.0		6.0		6.0		6.0		6.0		
Total Cost				\$1,108,480		\$1,385,600		\$1,662,720		\$1,939,840		\$2,216,960		\$2,494,080		\$2,771,200								
Cost per benefited residence				738,987		554,240		302,313		323,307		369,493		415,680		461,867								

Note: Total barrier cost is calculated based on a factor of \$40.00 per square foot of barrier surface area according to NJ Turnpike Noise Policy.
 Cost per residence is calculated based on total cost divided by the number of impacted and benefited receptors according to NJ Turnpike Noise Policy.
 Impacted residence with 3 dBA or more noise level reduction will be considered as benefited and counted as one residence in the cost-per-residence calculation.
 Residences with 3 dBA or more noise level reduction but not impacted will also be counted as benefited but counted as one-half residence in the cost-per-residence calculation.

Represents impacted receptors.

Source: The Louis Berger Group, Inc., June 2006.

Table
Preliminary Noise Barrier Analysis
Neighborhood Represented by Forgyse Communities-M.P. 73.5 Northbound
New Jersey Turnpike Interchange 6-8A Widening

Noise Sensitive Site	Receptor Type	No Barrier				With Barrier								
		Number of Receptors Represented	Non-Absorbed Leq (dBA)	Absorbed Insertion Loss (dBA)	Absorbed Leq (dBA)	Change In Insertion Loss	Absorbed Leq (dBA)	Change In Insertion Loss	Absorbed Leq (dBA)	Change In Insertion Loss				
Height (ft)			8		10		12		14		16			
R1	Residential	1	65	59	6	38	7	1	58	7	0	57	8	0
R2	Residential	1	65	59	6	38	7	1	58	7	0	57	8	0
R3	Residential	1	64	60	4	59	5	1	58	6	1	57	7	0
R4	Residential	1	64	60	4	59	5	1	58	6	1	57	7	0
R5	Residential	1	64	60	4	59	5	1	58	6	1	57	7	0
R6	Residential	1	64	59	5	38	6	1	57	7	0	56	8	0
R7	Residential	1	64	59	5	38	6	1	57	7	0	56	8	0
R8	Residential	1	64	59	5	38	6	1	57	7	0	56	8	0
R9	Residential	1	65	60	5	38	6	1	58	7	1	57	8	0
R10	Residential	1	65	61	4	60	5	1	59	6	1	58	7	0
R11	Residential	1	66	61	5	60	6	2	59	7	1	58	8	0
R12	Residential	1	66	62	4	60	6	2	59	7	1	58	8	0
R13	Residential	1	66	61	5	60	6	1	59	7	1	58	8	0
R14	Residential	1	65	60	5	59	6	1	58	7	1	57	8	0
R15	Residential	1	65	60	5	59	6	1	58	7	1	57	8	0
R16	Residential	1	67	62	5	61	6	2	59	8	2	59	9	0
R17	Residential	1	68	63	5	61	7	2	60	8	1	59	9	0
R18	Residential	1	69	63	6	62	7	2	61	8	1	60	9	0
R19	Residential	1	69	64	5	62	7	2	61	8	1	60	9	0
R20	Residential	1	69	64	5	62	7	2	61	8	1	60	9	0
US1	Residential	0	69	64	5	62	7	2	61	8	1	60	9	1
R21	Residential	1	69	64	5	63	6	1	61	8	2	61	8	0
R22	Residential	1	70	64	6	63	6	1	62	8	1	60	10	1
R23	Residential	1	69	65	6	62	7	1	61	8	1	59	10	1
R24	Residential	1	67	61	6	60	7	1	59	8	1	58	9	0
R25	Residential	1	69	63	6	62	7	1	61	8	1	60	9	0
R26	Residential	1	69	63	6	62	7	1	61	8	1	60	9	0
R27	Residential	1	68	62	6	61	7	1	60	8	1	59	8	0
R28	Residential	2	67	62	5	61	6	1	60	7	1	59	8	0
R29	Residential	2	67	61	6	60	7	1	59	8	1	58	8	0
R30	Residential	2	66	61	6	59	7	1	58	7	1	57	8	0
R31	Residential	1	66	61	6	59	7	2	58	7	1	57	8	0
R32	Residential	1	65	60	5	59	6	1	58	7	0	57	8	1
R33	Residential	3	67	60	7	57	8	1	56	9	1	55	10	1
R34	Residential	3	64	58	6	53	7	1	52	8	1	51	9	0
R35	Residential	3	66	61	6	55	7	1	54	8	1	53	9	0
R36	Residential	3	63	59	5	52	6	0	51	7	0	50	8	0
R37	Residential	3	63	59	5	52	6	0	51	7	1	50	8	0
R38	Residential	3	64	59	5	53	6	1	52	7	1	51	8	0
Average			67	61	6	60	7	1	59	8	1	58	9	0
Min			63	58	4	57	5	1	56	6	0	55	7	0
Max			63	58	4	57	5	1	56	6	0	55	7	0
Number of Impacted Residences			49	65	4	49	65	1	49	65	0	49	65	0
Number of beneficial residences			65			65			65			65		
Total Cost			\$24,118	\$1,567,680		\$30,148	\$1,939,600		\$36,177	\$2,743,440		\$42,207	\$3,135,360	
Cost per residence														

Note:
 Total barrier cost is calculated based on a factor of \$40.00 per square foot of barrier surface area according to NJ Turnpike Noise Policy.
 Cost per residence is calculated based on total cost divided by the number of impacted and beneficial receptors according to NJ Turnpike Noise Policy.
 Impacted residence with 3 dBA or more noise level reduction will be considered as benefited and counted as one residence in the cost-per-residence calculation.
 Residences with 3 dBA or more noise level reduction but not impacted will also be counted as benefited but counted as one-half residence in the cost-per-residence calculation.
 Represents impacted receptors.
 The Louis Berger Group, Inc., June 2006.

Table
Preliminary Noise Barrier Analysis
Neighborhood Represented by Pulte Homes Development-M.P. 79.1 Northbound
New Jersey Turnpike Interchange 6-8A Widening

Noise Sensitive Site	Receiver Type	No Barrier Number of Represented Receivers	Non-Abated Leq (dBA)	Abated Leq (dBA)	With Barrier				Abated Leq (dBA)	Insertion Loss	Change in Insertion Loss
					Insertion Loss	Abated Leq (dBA)	Insertion Loss	Change in Insertion Loss			
Height (ft)					16	18			20		
R1	Residential	1	75	70	5	69	6	68	7	1	
R2	Residential	1	74	69	5	68	7	67	7	1	
R3	Residential	1	73	68	5	66	7	65	8	1	
R4	Residential	1	73	67	6	66	7	64	9	2	
R5	Residential	1	72	65	8	65	9	63	10	1	
R6	Residential	1	71	66	5	65	6	64	7	1	
R7	Residential	1	71	66	5	65	6	64	7	0	
R8	Residential	1	71	65	6	64	7	64	7	0	
R9	Residential	1	70	65	5	64	6	63	7	1	
R10	Residential	1	69	63	6	63	6	62	7	1	
R11	Residential	1	71	63	8	63	8	62	9	1	
R12	Residential	1	69	61	8	60	9	60	9	0	
R13	Residential	1	67	60	8	60	7	60	7	0	
R14	Residential	1	67	60	7	61	6	61	7	1	
R15	Residential	1	69	63	6	62	7	61	8	1	
R16	Residential	1	67	62	5	61	6	61	6	0	
R17	Residential	1	68	63	5	62	6	62	6	0	
R18	Residential	1	69	63	6	62	7	62	7	0	
R19	Residential	1	68	63	5	62	6	62	6	0	
R20	Residential	1	67	62	5	62	5	61	6	1	
R21	Residential	1	66	61	5	60	6	60	6	0	
R22	Residential	1	67	61	6	60	7	60	7	0	
R23	Residential	1	65	59	6	59	6	59	6	0	
R24	Residential	1	66	60	6	59	7	59	7	0	
TS1	Residential	0	74	66	8	65	9	64	10	1	
AR1	Residential	1	64	59	5	58	6	58	7	0	
AR2	Residential	1	64	58	6	58	6	57	7	1	
AR3	Residential	1	65	60	5	59	6	59	7	0	
AR4	Residential	1	65	60	5	59	6	59	7	0	
AR5	Residential	1	65	58	7	58	7	57	8	1	
AR6	Residential	1	66	60	6	59	7	59	7	0	
AR7	Residential	1	67	59	8	59	8	58	9	1	
AR8	Residential	1	65	58	7	58	7	57	8	1	
AR9	Residential	1	65	58	7	58	7	57	8	1	
AR10	Residential	1	65	58	7	58	7	57	8	1	
AR11	Residential	1	68	60	8	60	8	59	9	1	
AR12	Residential	1	67	60	7	59	8	59	8	0	
AR13	Residential	1	66	60	6	59	7	59	7	0	
AR14	Residential	1	66	59	7	59	7	58	8	1	
AR15	Residential	1	66	59	7	59	7	58	8	1	
AR16	Residential	1	66	60	6	60	6	59	7	1	
AR17	Residential	1	67	60	7	60	7	59	8	1	
AR18	Residential	1	67	60	7	59	8	59	8	0	
AR19	Residential	1	66	59	7	59	7	58	8	1	
AR20	Residential	1	64	58	6	58	6	57	7	1	
AR21	Residential	1	64	58	6	57	7	57	7	0	
AR22	Residential	1	67	61	6	61	6	60	7	1	
AR23	Residential	1	68	63	5	62	6	61	7	1	
AR24	Residential	1	68	63	5	62	6	62	6	0	
AR25	Residential	1	68	62	6	61	7	60	8	1	
AR26	Residential	1	67	61	6	60	7	60	7	0	
AR27	Residential	1	66	60	6	59	7	59	7	0	
AR28	Residential	1	65	59	6	58	7	58	7	0	
Average			68	62	6	61	7	60	7	1	
Min			75	70	8	69	9	68	10	2	
Max			64	58	5	57	6	57	6	0	
Number of Impacted Residences		40								40	
Number of Benefited Residences		46								46	
Total Cost			\$769,920			\$866,160		\$962,400		\$20,922	
Cost per residence			\$16,737			\$18,830		\$20,922			

Note: Total barrier cost is calculated based on a factor of \$40.00 per square foot of barrier surface area according to NJ Turnpike Noise Policy.
Cost per residence is calculated based on total cost divided by the number of impacted and benefited receptors according to NJ Turnpike Noise Policy.
Impacted residence with 3 dBA or more noise level reduction will be considered as benefited and counted as one residence in the cost-per-residence calculation.
Residences with 3 dBA or more noise level reduction but not impacted will also be counted as benefited but counted as one-half residence in the cost-per-residence calculation.
Represents impacted receptors.

Source: The Louis Berger Group, Inc., June 2006.