

“Pierce’s Woods” - West of Nolan Avenue

Berkeley Township, NJ

### **HUD Noise Screening Analysis**

The project does not involve new stationary noise sources and the effect of six single-family residences on mobile source noise generation is negligible. The project would generate noise temporarily during construction, but no significant construction noise impacts are anticipated because of the scale and type of construction involved.

The following sections assess the existing noise exposure of the project sites for comparison to the HUD criterion for outdoor noise at residential buildings. The analysis is consistent with 24 CFR Part 51 and the HUD Noise Guidebook.

### **Airports**

There are no major commercial airports in the vicinity of the project site. The Ocean County Airport is located approximately 6.6 miles northwest, but involves limited operations of small aircraft<sup>1</sup> and thus is not a major noise generator for the project site.

### **Railroads**

There are no active railroads within the vicinity of the project site, no analysis of railroad noise is necessary.

### **Roadway Traffic**

The project site is located far from major roadways that would generate high levels of traffic noise:

- 1.5 miles from the Garden State Parkway
- 1.1 miles from U.S. 9

The contribution of these major roadways to sound levels at the project site would be negligible given these distances.

Two minor urban arterials are located within 0.4 miles of the project site: Veterans Blvd. to the north and Western Blvd. to the west. NJDOT traffic counts show an AADT of 9,573 on Veterans Blvd. in 2011. No NJDOT traffic data is available for Western Blvd., but volumes on Western Blvd. are anticipated to be less than those on Veterans Blvd. because Veterans Blvd. becomes Forest Hills Parkway which has an interchange with the northbound portion of the Garden State Parkway. Vehicle classification data is not available, but for screening purposes is conservatively assumed to consist of 89% autos, 10% medium trucks, and 1% heavy trucks.

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<sup>1</sup> [http://www.planning.co.ocean.nj.us/airport/01\\_home.htm](http://www.planning.co.ocean.nj.us/airport/01_home.htm)

The figure below shows the input and output from HUD's "Site DNL Calculator" for the traffic noise analysis of Veterans Blvd. and Western Blvd. (assuming the volumes of both roads are identical). The predicted combined DNL of 44.1 dBA is well within the "acceptable" range per the HUD noise criteria.

Road # 1 Name:

Road #1			
Vehicle Type	Cars <input checked="" type="checkbox"/>	Medium Trucks <input checked="" type="checkbox"/>	Heavy Trucks <input checked="" type="checkbox"/>
Effective Distance	<input type="text" value="1953"/>	<input type="text" value="1953"/>	<input type="text" value="1953"/>
Distance to Stop Sign	<input type="text"/>	<input type="text"/>	<input type="text"/>
Average Speed	<input type="text" value="45"/>	<input type="text" value="45"/>	<input type="text" value="45"/>
Average Daily Trips (ADT)	<input type="text" value="8520"/>	<input type="text" value="957"/>	<input type="text" value="96"/>
Night Fraction of ADT	<input type="text" value="15"/>	<input type="text" value="15"/>	<input type="text" value="15"/>
Road Gradient (%)	<input type="text"/>	<input type="text"/>	<input type="text" value="0"/>
<b>Vehicle DNL</b>	<b>41.9188</b>	<b>32.4235</b>	<b>39.2725</b>
Calculate Road #1 DNL	<b>44.1403</b>	<input type="button" value="Reset"/>	

Road # 2 Name:

Road #2			
Vehicle Type	Cars <input checked="" type="checkbox"/>	Medium Trucks <input checked="" type="checkbox"/>	Heavy Trucks <input checked="" type="checkbox"/>
Effective Distance	<input type="text" value="1953"/>	<input type="text" value="1953"/>	<input type="text" value="1953"/>
Distance to Stop Sign	<input type="text"/>	<input type="text"/>	<input type="text"/>
Average Speed	<input type="text" value="45"/>	<input type="text" value="45"/>	<input type="text" value="45"/>
Average Daily Trips (ADT)	<input type="text" value="8520"/>	<input type="text" value="957"/>	<input type="text" value="96"/>
Night Fraction of ADT	<input type="text" value="15"/>	<input type="text" value="15"/>	<input type="text" value="15"/>
Road Gradient (%)	<input type="text"/>	<input type="text"/>	<input type="text" value="0"/>
<b>Vehicle DNL</b>	<b>41.9188</b>	<b>32.4235</b>	<b>39.2725</b>
Calculate Road #2 DNL	<b>44.1403</b>	<input type="button" value="Reset"/>	

Airport Noise Level

Loud Impulse Sounds?  Yes  No

Combined DNL for all Road and Rail sources

**Mitigation**

As discussed above, the noise screening analysis shows the 65 DNL criterion for acceptable noise would not be exceeded. Therefore, no significant impacts would occur and no mitigation is required.

# New Jersey Department of Transportation

## Daily Volume from 10/10/2011 through 10/12/2011

Site Names: 111519, , VETERANS BLVD-8.58, 15000618\_\_, Berkeley Twp  
 County: OCEAN  
 Funct. Urban Minor Arterial  
 Location: BET NIXON AVE HARDING AVE

Seasonal Factor Type: 2 Urban Other Roadways  
 Daily Factor Type: 2 Urban Other Roadways  
 Axle Factor Type: 16  
 Growth Factor Type:

	Sun 10/09/2011			Mon 10/10/2011			Tue 10/11/2011			Wed 10/12/2011			Thu 10/13/2011			Fri 10/14/2011			Sat 10/15/2011		
	ROAD	W	E	ROAD	W	E	ROAD	W	E	ROAD	W	E	ROAD	W	E	ROAD	W	E	ROAD	W	E
00:00							49	15	34	40	11	29									
01:00							34	15	19	36	14	22									
02:00							39	15	24	22	8	14									
03:00							31	23	8	33	24	9									
04:00							76	61	15	76	60	16									
05:00							232	196	36	231	201	30									
06:00							655	487	168	635	492	143									
07:00							873	588	285	850	559	291									
08:00							732	470	262	697	438	259									
09:00							502	285	217	465	251	214									
10:00							518	278	240	480	242	238									
11:00							439	193	246	437	193	244									
12:00				494	236	258	498	259	239												
13:00				557	244	313	596	240	356												
14:00				669	285	384	709	298	411												
15:00				740	288	452	779	322	457												
16:00				794	303	491	904	302	602												
17:00				857	264	593	1,008	336	672												
18:00				652	214	438	676	249	427												
19:00				447	192	255	490	163	327												
20:00				265	95	170	382	113	269												
21:00				213	66	147	214	56	158												
22:00				156	55	101	169	52	117												
23:00				89	19	70	82	22	60												
<b>Volume</b>				5,933	2,261	3,672	10,687	5,038	5,649	4,002	2,493	1,509									
<b>AM Peak Vol</b>							892	602	310	879	585	301									
<b>AM Peak Fct</b>							0.79	0.84	0.76	0.76	0.78	0.75									
<b>AM Peak Hr</b>							7:15	7:15	7:30	7:30	7:15	7:30									
<b>PM Peak Vol</b>				866	311	593	1,008	347	672												
<b>PM Peak Fct</b>				0.86	0.92	0.86	0.90	0.87	0.88												
<b>PM Peak Hr</b>				16:30	14:45	17:00	17:00	14:45	17:00												
<b>Seasonal Fct</b>				0.990	0.990	0.990	0.990	0.990	0.990	0.990	0.990	0.990									
<b>Daily Fct</b>				0.972	0.972	0.972	0.955	0.955	0.955	0.950	0.950	0.950									
<b>Axle Fct</b>				0.489	0.489	0.489	0.489	0.489	0.489	0.489	0.489	0.489									
<b>Pulse Fct</b>				2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000									