



## The North Shore Marine Transfer Station: A Case Study

Presented to:  
The 2011 North America Bird Strike Conference



1,000 Ft.

Fence - 21' AMSL

LOC - 19' AMSL

Proposed Transfer Station High Point - 100.06' AMSL

Existing Transfer Station - 69' AMSL

Cement Stack - 108' AMSL

Building - 97' AMSL

2,500 Ft.

1,750 Ft.

# Washburn Report

Table 3. Mean Number of Birds Using Trash-Transfer Facilities and Control Sites

Building Type	All Birds <sup>a</sup> Mean ±SE	Gulls <sup>b, c</sup> Mean ±SE	European Starlings Mean ±SE
Control	22.1 ±3.2 A <sup>d</sup>	1.2 ±0.2 A	0.6 ±0.1 A
Completely open	89.0 ±6.7 C	26.9 ±3.5 B	46.3 ±5.3 D
Three-sided, open	58.0 ±4.5 B	37.7 ±4.6 C	9.5 ±1.7 B
Three-sided, bays	85.1 ±5.1 C	60.2 ±5.7 D	26.1 ±2.4 C
Semi-enclosed	120.0 ±13.1 C	69.7 ±11.4 D	12.7 ±1.1 B
Fully enclosed <sup>e</sup>	85.2 ±8.3 C	61.1 ±9.4 D	20.3 ±4.3 C

<sup>a</sup> Consists of the total number of birds of all species.

<sup>b</sup> Consists of the total number of gulls from 8 species.


<sup>c</sup> For analyses of gulls, trash-transfer stations in Arizona and Missouri were excluded as gulls were not observed at facilities in these states.

<sup>d</sup> Means within the same column with the same letter are not different ( $P > 0.05$ ) according to a Kruskal-Wallis test.

<sup>e</sup> One fully enclosed trash-transfer facility was excluded from these analyses due to its overwhelming influence on the data.

SE = Standard error of the mean.

# RISK MATRIX

		<u>Alternative 1<sup>a</sup></u> No facility (present situation)	<u>Alternative 2<sup>b</sup></u> Proposed facility	<u>Alternative 3<sup>c</sup></u> Proposed facility with modifications and wildlife hazard management plan
Hazardous Bird Activity 		<i>High</i>	<i>High</i>	<i>Low</i>
		<i>Medium</i>	<i>Medium</i>	<i>Low</i>
		<i>Low</i>	<i>Low</i>	<i>Low</i>
		<b>Risk Levels</b>		

<sup>a</sup> Alternative 1: present situation (no MTS facility)

<sup>b</sup> Alternative 2: MTS as proposed under the Part 360 application

<sup>c</sup> Alternative 3: MTS with (1) changes to building design and operational procedures and (2) the implementation of a wildlife hazard management plan