

**New NY Bridge
Sturgeon Acoustic Telemetry
60-day Summary**



Deployment 1 Summary

Period: May 24 to June 24, 2013

Regulatory Requirements

Condition 40A of the NYSDEC Permit ID 3-9903-00043/00012 requires that the Project install stationary receivers capable of detecting sonic tags in the vicinity of any Authorized Activities. Data downloads shall occur every 60 days at minimum. "Following each data download, a report shall be submitted with data files, and a summary of fish present and/or moving through the construction zone."

The Endangered Species Act Section 7 Consultation Biological Opinion dated April 10, 2013, Term and Condition #10 to implement Reasonable and Prudent Measure #4, requires that "Information collected from any stationary receivers must be downloaded at least every 60 days. Preliminary reports containing information on the number of tagged sturgeon detected must be provided to NMFS on a regular basis, but no less frequently than every 60 days. If reports cannot be provided on that frequency, FHWA must provide an explanation to NMFS within the 60 day period and provide the report as soon as possible."

The following is the summary of detections between May 24, 2013 and June 24, 2013. As discussed with NMFS and NYSDEC, the formal submittal of this information was delayed until permissions and tag information were obtained.

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Equipment and Location

Station	Deployment Location		Deployment Date and Time		Equipment Serial Numbers	
	Latitude	Longitude	Date	Time	Vemco Receiver	Lotek Receiver
1 (North)	41.06662	-73.87343	24-May-13	1:15 PM	122372	265119
2 (South)	41.07517	-73.87434	24-May-13	12:25 PM	122371	265121

Vemco Test Tags = A69-1601-28097, A69-1601-28098

Numbers of Fish Detected by Species

Species	Number Detected
Atlantic sturgeon	■
Shortnose sturgeon	16
American shad	--
Blueback herring	1
Species unknown	18
Total	■

*Does not include Tag IDs with single detections. Fish tagged with Lotek dual-mode tags that were detected on both Vemco and Lotek receivers are counted once.

False detections (i.e. detections of transmitter codes that aren't actually present) are inherent in all telemetry systems. Vemco outlines a methodology to filter the data further for Tag IDs that may not be legitimate fish detections (VEMCO Application Note DOC-004691 2012). This methodology involves filtering based on intervals between successive detections, the programmed average transmission rate of the tags, and anticipated maximum residency.

At present, all of the information is not available to accurately conduct this analysis. However, Tag IDs with only a single detection are very likely false detections. Additionally, some Tag IDs with multiple detections can also be false detections. Therefore, data presented in the 60-day reports will be filtered prior to further analysis in the quarterly reports. Tag IDs that have fewer than three detections will be considered false detections and will be removed.

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Shortnose sturgeon

<u>Vemco Tag ID</u>	<u>Lotek Tag ID</u>
A69-1303-10447	10447
A69-1303-10455	10455
A69-1303-10461	10459
A69-1303-10465	10461
A69-1303-10467	10465
A69-1303-10469	10467
A69-1303-10475	10469
A69-1303-10773	10475
A69-1303-10774	10773
A69-1303-10780	10774
A69-1303-10787	10780
A69-1303-10789	10787
A69-1303-10793	10789
A69-1303-10801	10793
A69-1303-10810	10801
	10810

Blueback herring

Vemco Tag ID*

A69-1601-8080

A69-1601-8089

* Shaded Tag IDs were false detections.

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Unknown species

<u>Vemco Tag ID</u>	<u>Lotek Tag ID</u>
[REDACTED]	1012
[REDACTED]	1017
[REDACTED]	10477
[REDACTED]	60700
[REDACTED]	
[REDACTED]	
[REDACTED]	
[REDACTED]	
[REDACTED]	
[REDACTED]	
[REDACTED]	
[REDACTED]	
[REDACTED]	
[REDACTED]	
[REDACTED]	

* Shaded Tag IDs were false detections.