

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



Deployment 2 Summary

Period: June 25 to August 10, 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 June 25, 2013 and August 10, 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 Information			
	Latitude	Longitude	Date	Time	Vemco Receiver	Sync Tag*	Temp Tag	Lotek Receiver
St01	41.07436	-73.91013	25-Jun-13	04:38:33pm	122371	--	--	--
St02	41.07468	-73.89878	25-Jun-13	04:26:19pm	122372	--	--	--
St03	41.06602	-73.91077	25-Jun-13	04:03:12pm	122373	--	--	--
St04	41.06602	-73.89928	25-Jun-13	04:14:13pm	122888	--	--	--
St05	41.07370	-73.89340	2-Jul-13	02:39:37pm	122891	65002	--	--
St06	41.07420	-73.88837	2-Jul-13	12:47:08pm	122892	65014	--	265126
St07	41.07517	-73.87436	2-Jul-13	01:23:14pm	122887	65012	--	265127
St08	41.07137	-73.87563	1-Jul-13	01:33:57pm	122890	65013	--	--
St09	41.06903	-73.89211	2-Jul-13	03:21:13pm	122893	65001	--	--
St10	41.06464	-73.89170	2-Jul-13	01:44:01pm	122894	65003	--	265121
St11	41.06665	-73.87348	2-Jul-13	01:12:09pm	122889	65015	--	265119
St12	41.07461	-73.88423	1-Jul-13	02:51:44pm	122884	65016	--	--
St13	41.07452	-73.88073	2-Jul-13	02:53:52pm	122885	65017	--	--
St14	41.07204	-73.88548	2-Jul-13	03:09:32pm	122886	65019	13339	--
St15	41.07214	-73.88207	1-Jul-13	02:38:27pm	122883	65018	--	--
St16**	41.07218	-73.87873	1-Jul-13	01:40:51pm	122879	65020	--	--
St17	41.06896	-73.88769	2-Jul-13	01:53:14pm	122881	65021	--	--
St18	41.06901	-73.88328	1-Jul-13	01:50:45pm	122880	65022	--	--
St19	41.06858	-73.87791	1-Jul-13	12:40:19pm	122876	65023	--	--
St20	41.06678	-73.88066	1-Jul-13	12:21:09pm	122882	65005	13338	--
St21	41.06599	-73.88499	1-Jul-13	12:29:02pm	122877	65004	--	--
St22	41.06577	-73.87697	1-Jul-13	12:47:07pm	122878	65007	--	--
Vemco Test Tags = A69-1601-28097, A69-1601-28098; Lotek Test Tag Number = 1								

*The prefix for all sync tag codes is "A69-1601-" and the prefix for temperature tags is "A69-9002-"

** Station 16 was unable to be retrieved due to the presence of a barge over top of its position.

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Numbers of Fish Detected by Species

Species	Number Detected
Atlantic sturgeon	█
Shortnose sturgeon	20
American shad	1
Blueback herring	--
Species unknown	68
Total	█

Summary does not include Tag IDs with fewer than three 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.

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Atlantic sturgeon

<u>Vemco Tag ID</u>	<u>Vemco Tag ID*</u>	<u>Lotek Tag ID</u>
A69-1303-10468	[Redacted]	10468
A69-1303-10470	[Redacted]	10470
A69-1303-10471	[Redacted]	10471
A69-1303-10472	[Redacted]	10472
A69-1303-61436	[Redacted]	
[Redacted]	[Redacted]	
[Redacted]	[Redacted]	
[Redacted]	[Redacted]	
[Redacted]	[Redacted]	
[Redacted]	[Redacted]	
[Redacted]	[Redacted]	
[Redacted]	[Redacted]	
[Redacted]	[Redacted]	
[Redacted]	[Redacted]	
[Redacted]	[Redacted]	
[Redacted]	[Redacted]	
[Redacted]	[Redacted]	
[Redacted]	[Redacted]	
[Redacted]	[Redacted]	
[Redacted]	[Redacted]	
[Redacted]	[Redacted]	
[Redacted]	[Redacted]	
[Redacted]	[Redacted]	
[Redacted]	[Redacted]	
[Redacted]	[Redacted]	
[Redacted]	[Redacted]	
[Redacted]	[Redacted]	

* Shaded Tag IDs were false detections.

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Shortnose sturgeon

<u>Vemco Tag ID</u>	<u>Lotek Tag ID</u>
A69-1303-10447	10447
A69-1303-10455	10461
A69-1303-10456	10465
A69-1303-10459	10473
A69-1303-10461	10773
A69-1303-10465	10774
A69-1303-10467	10787
A69-1303-10473	10793
A69-1303-10475	10797
A69-1303-10773	10801
A69-1303-10774	10802
A69-1303-10778	10810
A69-1303-10780	
A69-1303-10787	
A69-1303-10792	
A69-1303-10793	
A69-1303-10801	
A69-1303-10802	
A69-1303-10805	
A69-1303-10806	
A69-1303-10810	

American shad

Vemco Tag ID
A69-1303-10436

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Unknown Species

Vemco Tag ID

A69-1303-10533

[Redacted Vemco Tag IDs]

Vemco Tag ID

[Redacted Vemco Tag IDs]

Vemco Tag ID

[Redacted Vemco Tag IDs]

Vemco Tag ID

[Redacted Vemco Tag IDs]

Vemco Tag ID

[Redacted Vemco Tag IDs]

Lotek Tag ID

1017

10835

42200

5247

7076

* Shaded Tag IDs were false detections.