

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



**TA\_FHWA\_03099\_RPT\_ENV**

**Deployment 14 Summary**

Period: April 1, 2015 through June 10, 2015

**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." Data files will be transmitted to the NYSDEC by the Thruway Authority when this summary report is submitted.

The Endangered Species Act Section 7 Consultation Biological Opinion dated September 23, 2014, Term and Condition #11 to implement Reasonable and Prudent Measure #6, requires that "Information collected from any stationary receivers must be downloaded at least every 60 days, unless there are weather or safety concerns in which case downloads must be made as soon as practicable after the relief of the weather or safety concern. 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 from April 1, 2015 through June 10, 2015. Figure 1 indicates the status of station downloads during this period.

Following the June 2015 downloads, this receiver array was reconfigured to monitor acoustic-tagged sturgeon during the August through October 2015 dredge window, as detailed in the Sturgeon Acoustic Telemetry Plan, Revision 5.



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**Equipment and Location**

Station	Deployment Location		Deployment Date and Time		Equipment Information			
	Latitude	Longitude	Date	Time	Vemco Receiver	Sync Tag <sup>d</sup>	Temp Tag	Lotek Receiver
St01	41.0744498	-73.9098577	11-Jun-15	1:42:51 PM	122371	65006	--	--
St02 <sup>a</sup>	41.0751381	-73.8988418	3-Jul-14	5:44:52 PM	123574	65011	--	--
St03	41.0665085	-73.9109518	11-Jun-15	9:51:47 AM	122373	65008	--	--
St04	41.0669146	-73.8998032	11-Jun-15	11:15:30 AM	122888	65010	--	--
St05	41.0704222	-73.8938403	10-Jun-15	1:45:34 PM	123573	26740	--	--
St06	Decommissioned				122892	65014	--	265126
St07 <sup>b</sup>	Decommissioned				122887	65012	--	265127
St08 <sup>c</sup>	41.0724297	-73.8733492	22-Aug-14	3:01:12 PM	122890	65013	--	--
St09	41.0698298	-73.8923686	10-Jun-15	1:31:10 PM	123571	26742	--	--
St10 <sup>b</sup>	Decommissioned				122894	65003	--	265121
St11	41.0668302	-73.8734589	11-Jun-15	10:05:40 AM	122889	65015	--	265119
St12	41.0770032	-73.8844169	10-Jun-15	10:13:42 AM	124816	26131	--	--
St13 <sup>c</sup>	41.075916	-73.8807816	22-Aug-14	10:36:55 PM	122885	65017	--	--
St14	Decommissioned				122886	65019	13339	--
St15	41.0733282	-73.8824119	16-Jun-15	12:37:23 PM	122883	65018	--	--
St16 <sup>c</sup>	41.0734650	-73.8788357	3-Apr-15	12:12:04 PM	122879	65020	--	--
St17	41.0688237	-73.8874649	17-Jun-15	11:22:21 AM	122881	65021	--	--
St18	41.0689002	-73.8834775	16-Jun-15	12:12:13 PM	122880	65022	--	--
St19	41.0683860	-73.87828	16-Jun-15	1:15:37 PM	122735	65023	--	--
St20 <sup>c</sup>	41.0661133	-73.880276	25-Aug-14	12:01:25 PM	123572	65009	13338 <sup>e</sup>	--
St21	41.0667872	-73.8847112	10-Jun-15	12:39:52 PM	122877	65004	--	--
St22	41.0663095	-73.8763627	10-Jun-15	11:18:20 AM	122878	65007	--	--
St23 <sup>c</sup>	41.0745703	-73.9131982	21-Aug-14	12:38:57 PM	122871	65024	--	--
St24	41.0736941	-73.9049758	17-Jun-15	1:00:31 PM	124817	26744	--	--
St25	41.0691432	-73.905403	11-Jun-15	11:37:26 AM	122875	65026	--	--
St26	41.0683086	-73.896022	11-Jun-15	10:22:07 AM	122718	65025	--	--
St27 <sup>c</sup>	41.0756836	-73.9122181	29-Oct-14	11:27:10 AM	123565	26747	--	--
St28	41.0706297	-73.9136809	10-Jun-15	2:54:06 PM	123568	26738	--	--
St29	41.0702579	-73.909286	10-Jun-15	2:32:20 PM	123566	26746	--	--
St30	41.0703343	-73.9138134	10-Jun-15	2:57:30 PM	123567	26741	--	--
St31	41.0699374	-73.9096412	10-Jun-15	2:19:45 PM	123569	26739	--	--
St32 <sup>b</sup>	Decommissioned				123570	26745	--	--
St33 <sup>d</sup>	41.0726767	-73.8903577	11-Jun-15	12:34:30 PM	122731	65037	--	--
St34 <sup>d</sup>	41.0731764	-73.8978983	6-Apr-15	11:49:52 AM	122732	65039	--	--

<sup>a</sup>Station 2 was not recovered, has not been detected by adjacent stations, and is now presumed lost.

<sup>b</sup>Stations 7, 10, and 32 were determined to be unnecessary for sturgeon positioning based on stationary range testing using sync-tag detections and were decommissioned as discussed with DEC.

<sup>c</sup>Stations 8, 13, 16, 20, 23, and 27 were not recovered.

<sup>d</sup>The prefix for sync tag codes is "A69-1601-" and the prefix for temperature tags is "A69-9002-"

<sup>e</sup>The temperature tag at Station 20 was lost on October 20, 2013 and has not been replaced.



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**Numbers of Fish Detected by Species**

Species	Number Detected
Atlantic sturgeon	141
Shortnose sturgeon	14
Striped bass	43
Unconfirmed	18
Total	216

False detections (i.e., detections of transmitter codes for tag IDs not currently in use) are inherent in all telemetry systems. The False Detection Analysis (FDA) tool available in Vemco's Vue software was used to filter false detections from the dataset prior to summarizing detection data for this deployment period. The FDA tool uses a methodology that involves filtering data based on intervals between successive detections, the programmed average transmission rate of the tags, and anticipated maximum residency.



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**Atlantic sturgeon**

	<b><u>Vemco Tag ID</u></b>		
A69-1303-11153			A69-9001-30108
A69-1303-11154			A69-9001-30115
A69-1303-11155			A69-9001-30138
A69-1303-11158			A69-9001-30140
A69-1303-11159			A69-9001-30145
A69-1303-11161	A69-1601-23368		A69-9001-30151
A69-1303-11162			A69-9001-30157
A69-1303-11182			A69-9001-30165
A69-1303-11185		A69-9001-26394	A69-9001-30166
A69-1303-11200		A69-9001-26432	A69-9001-30167
A69-1303-11209		A69-9001-26911	A69-9001-30173
A69-1303-11212			A69-9001-30175
A69-1303-11217			A69-9001-30219
A69-1303-11218			A69-9001-30231
A69-1303-11219			A69-9001-30244
A69-1303-11220			A69-9001-30254
A69-1303-11222		A69-9001-28843	A69-9001-30270
A69-1303-11230		A69-9001-28852	A69-9001-30271
A69-1303-11231	A69-9001-1070	A69-9001-28855	A69-9001-30274
A69-1303-11597	A69-9001-1075	A69-9001-28856	A69-9001-30324
A69-1303-11616	A69-9001-1081	A69-9001-28861	
	A69-9001-1103	A69-9001-28862	
		A69-9001-29166	
		A69-9001-30019	
		A69-9001-30020	
		A69-9001-30023	
		A69-9001-30036	
		A69-9001-30065	
		A69-9001-30072	
		A69-9001-30076	
		A69-9001-30079	
	A69-9001-23944	A69-9001-30082	
A69-1303-48766	A69-9001-25356	A69-9001-30093	
A69-1303-48767	A69-9001-25363	A69-9001-30107	



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**Shortnose sturgeon**

**Vemco Tag ID**

A69-1303-11163  
A69-1303-11166  
A69-1303-11188  
A69-1303-11190  
A69-1303-11191  
A69-1303-11192  
A69-1303-11193  
A69-1303-11194  
A69-1303-11196  
A69-1303-11197  
A69-1303-11202  
A69-1303-11205  
A69-1303-11206  
A69-1303-11228



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**Striped bass**

**Vemco Tag ID**

A69-1303-11277	A69-1303-11302
A69-1303-11278	A69-1303-11303
A69-1303-11280	A69-1303-11304
A69-1303-11281	A69-1303-11305
A69-1303-11282	A69-1303-11306
A69-1303-11283	A69-1303-11307
A69-1303-11285	A69-1303-11308
A69-1303-11286	A69-1303-11309
A69-1303-11287	A69-1303-11310
A69-1303-11288	A69-1303-11312
A69-1303-11289	A69-1303-11313
A69-1303-11290	A69-1303-11314
A69-1303-11291	A69-1303-11315
A69-1303-11292	A69-1303-11316
A69-1303-11293	A69-1303-11317
A69-1303-11294	A69-1303-11322
A69-1303-11295	A69-1601-27750
A69-1303-11296	A69-1601-27757
A69-1303-11298	A69-1601-30746
A69-1303-11299	A69-1601-30752
A69-1303-11300	A69-1601-30753
A69-1303-11301	



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**Species unconfirmed**

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