

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



**Deployment 8 Summary**

Period: May 1, 2014 through June 30, 2014

**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 from May 1, 2014 through June 30, 2014.

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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	41.07442056	-73.90979349	5-May-14	5:33:13 PM	122371	65006	--	--
St02	41.07504851	-73.89901612	5-May-14	6:31:37 PM	123574	65011	--	--
St03	41.06606430	-73.91082220	5-May-14	7:36:28 PM	122373	65008	--	--
St04	41.06632976	-73.89950328	5-May-14	6:48:07 PM	122888	65010	--	--
St05 <sup>a</sup>	41.07042226	-73.89384029	7-May-14	3:18:47 PM	123573	65002	--	--
St06 <sup>b</sup>	41.07478475	-73.88832534	7-May-14	6:37:04 PM	122892	65014	--	265126
St07 <sup>c</sup>	Decommissioned				122887	65012	--	265127
St08	41.07280679	-73.8728935	6-May-14	6:56:31 PM	122890	65013	--	--
St09 <sup>a</sup>	41.06982982	-73.8923686	7-May-14	3:03:19 PM	123571	26742	--	--
St10 <sup>c</sup>	Decommissioned				122894	65003	--	265121
St11	41.06676583	-73.87337294	6-May-14	6:19:41 PM	122889	65015	--	265119
St12 <sup>b</sup>	41.07645226	-73.88470016	10-Mar-14	4:18:37 PM	122884	65016	--	--
St13	41.07570540	-73.88067752	3-Jun-14	7:30:05 PM	122885	65017	--	--
St14 <sup>b</sup>	41.07290109	-73.88536384	10-Mar-14	7:50:17 PM	122886	65019	13339	--
St15	41.07316709	-73.88229615	8-May-14	8:59:15 PM	122883	65018	--	--
St16	41.07345006	-73.87901380	8-May-14	8:13:57 PM	122879	65020	--	--
St17	41.06899307	-73.88753057	7-May-14	7:52:13 PM	122881	65021	--	--
St18	41.06907932	-73.88330064	7-May-14	4:38:36 PM	122880	65022	--	--
St19	41.06902982	-73.87841902	8-May-14	6:45:13 PM	122876	65023	--	--
St20	41.06601996	-73.88040888	8-May-14	6:06:39 PM	123572	65005	13338 <sup>e</sup>	--
St21	41.06660527	-73.88492052	3-Jun-14	8:36:38 PM	122877	65004	--	--
St22	41.06557338	-73.87717372	8-May-14	5:42:51 PM	122878	65007	--	--
St23	41.07425208	-73.91305120	5-May-14	5:43:48 PM	122871	65024	--	--
St24	41.07314056	-73.90510616	8-May-14	4:20:17 PM	124817	26744	--	--
St25	41.06898054	-73.90549625	5-May-14	7:03:57 PM	122875	65026	--	--
St26	41.06833727	-73.89623509	6-May-14	4:19:13 PM	122873	65025	--	--
St27	41.07564348	-73.91224511	5-May-14	5:58:06 PM	123565	26747	--	--
St28	41.07062978	-73.91368092	6-May-14	3:53:44 PM	123568	26743	--	--
St29	41.07025798	-73.90928602	5-May-14	7:50:10 PM	123566	26746	--	--
St30	41.07033430	-73.91381337	5-May-14	7:57:13 PM	123567	26741	--	--
St31	41.06993749	-73.90964117	5-May-14	7:42:19 PM	123569	26739	--	--
St32 <sup>c</sup>	Decommissioned				123570	26745	--	--

<sup>a</sup>Station was relocated to a bridge mooring following discussion with DEC to minimize the risk of future loss of these stations due to movement and mooring of construction vessels.

<sup>b</sup>Stations were not retrieved during the July data download.

<sup>c</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>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 yet been replaced.

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**Numbers of Fish Detected by Species**

Species	Number Detected
Atlantic sturgeon	132
Shortnose sturgeon	32
Species unconfirmed	38
Total	202

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 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**

**Vemco Tag ID**

A69-1303-11123	A69-9001-29166	A69-9001-30159	A69-9001-32476
A69-1303-11128	A69-9001-30016	A69-9001-30164	A69-9002-15500
A69-1303-11129	A69-9001-30019	A69-9001-30166	A69-9002-15514
A69-1303-11153	A69-9001-30025	A69-9001-30171	
A69-1303-11158	A69-9001-30026	A69-9001-30175	
A69-1303-11161	A69-9001-30029	A69-9001-30194	
A69-1303-11162	A69-9001-30043	A69-9001-30198	
A69-1303-11185	A69-9001-30051	A69-9001-30202	
A69-1303-11187	A69-9001-30058	A69-9001-30206	
A69-1303-11199	A69-9001-30064	A69-9001-30208	
A69-1303-11208	A69-9001-30065	A69-9001-30228	
A69-1303-11218	A69-9001-30067	A69-9001-30240	
A69-1303-11222	A69-9001-30069	A69-9001-30248	
A69-1303-11597	A69-9001-30072	A69-9001-30253	
A69-1303-11625	A69-9001-30073	A69-9001-30255	
A69-1303-11628	A69-9001-30076	A69-9001-30261	
	A69-9001-30079	A69-9001-30263	
	A69-9001-30080	A69-9001-30268	
	A69-9001-30081	A69-9001-30269	
	A69-9001-30082	A69-9001-30271	
	A69-9001-30086	A69-9001-30285	
	A69-9001-30087	A69-9001-30292	
	A69-9001-30089	A69-9001-30301	
	A69-9001-30091	A69-9001-30304	
	A69-9001-30093	A69-9001-30314	
	A69-9001-30102	A69-9001-30319	
	A69-9001-30104	A69-9001-30324	
	A69-9001-30107	A69-9001-30328	
	A69-9001-30108		
	A69-9001-30120		
	A69-9001-30121		
	A69-9001-30122		
	A69-9001-30136		
	A69-9001-30138		
	A69-9001-30140		
	A69-9001-30144		
	A69-9001-30145		
	A69-9001-30146		
	A69-9001-30147		
A69-9001-1068	A69-9001-30150		
A69-9001-1070	A69-9001-30151	A69-9001-32451	
A69-9001-1075	A69-9001-30153	A69-9001-32456	
A69-9001-1103	A69-9001-30157	A69-9001-32460	
A69-9001-1124			

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**Shortnose sturgeon**

**Vemco Tag ID**

A69-1303-10469  
A69-1303-10774  
A69-1303-10778  
A69-1303-10782  
A69-1303-10787  
A69-1303-10793  
A69-1303-10794  
A69-1303-10795  
A69-1303-10801  
A69-1303-10802  
A69-1303-10810  
A69-1303-10811  
A69-1303-10812  
A69-1303-10814  
A69-1303-10817  
A69-1303-11137  
A69-1303-11140  
A69-1303-11163  
A69-1303-11164  
A69-1303-11166  
A69-1303-11170  
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

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**Unconfirmed tag IDs**

**Vemco Tag ID**

<u>Vemco Tag ID</u>
[REDACTED]