

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



TA_FHWA_03086_RPT_ENV

Deployment 13 Summary

Period: February 2, 2015 through March 31, 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."

NYSDEC was notified on February 5, 2015 that the 60-day receiver download scheduled for the week of February 9, 2015 was not going to occur due to heavy ice cover over the construction site. On March 13, 2015, FHWA and NYSDEC were notified that the conditions at the construction site were improving, that receiver downloads were scheduled to occur on the week of March 30, 2015 and that reporting would be submitted by May 1, 2015.

The following is the summary of detections from February 2, 2015 through March 31, 2015. Figure 1 indicates the status of station downloads during this period.

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Equipment and Location

Station	Deployment Location		Deployment Date and Time		Equipment Information			
	Latitude	Longitude	Date	Time	Vemco Receiver	Sync Tag ^e	Temp Tag	Lotek Receiver
St01	41.0744293	-73.9096939	19-Dec-14	1:23:59 PM	122371	65006	--	--
St02 ^a	41.0751381	-73.8988418	03-Jul-14	5:44:52 PM	123574	65011	--	--
St03	41.0664566	-73.9110519	16-Dec-14	2:54:32 PM	122373	65008	--	--
St04	41.0668751	-73.8998226	16-Dec-14	2:29:57 PM	122888	65010	--	--
St05	41.0704223	-73.8938403	15-Dec-14	12:18:39 PM	123573	26740	--	--
St06	Decommissioned				122892	65014	--	265126
St07 ^b	Decommissioned				122887	65012	--	265127
St08 ^c	41.0724297	-73.8733492	22-Aug-14	3:01:12 PM	122890	65013	--	--
St09	41.0698298	-73.8923686	15-Dec-14	12:00:46 PM	123571	26742	--	--
St10 ^b	Decommissioned				122894	65003	--	265121
St11	41.0667981	-73.8733434	16-Dec-14	1:26:53 PM	122889	65015	--	265119
St12	41.0768302	-73.8846246	19-Dec-14	2:30:00 PM	122884	65016	--	--
St13 ^c	41.0759160	-73.8807816	22-Aug-14	10:36:55 PM	122885	65017	--	--
St14	Decommissioned				122886	65019	13339	--
St15	41.0736063	-73.8824976	16-Dec-14	12:36:47 PM	122883	65018	--	--
St16	41.0733176	-73.8793007	22-Dec-14	11:47:23 AM	122879	65020	--	--
St17	41.0689492	-73.8876821	22-Dec-14	1:29:06 PM	122881	65021	--	--
St18	41.0690660	-73.8837919	22-Aug-14	12:26:45 PM	122880	65022	--	--
St19	41.0686479	-73.8781151	16-Dec-14	12:56:02 PM	122735	65023	--	--
St20 ^c	41.0661133	-73.8802760	25-Aug-14	12:01:25 PM	123572	65009	13338 ^f	--
St21	41.0668805	-73.8849937	19-Dec-14	11:46:48 AM	122877	65004	--	--
St22	41.0660589	-73.8764188	04-Nov-14	11:25:32 AM	122878	65007	--	--
St23 ^c	41.0745703	-73.9131982	21-Aug-14	12:38:57 PM	122871	65024	--	--
St24	41.0735687	-73.9048365	19-Dec-14	1:04:43 PM	124817	26744	--	--
St25	41.0690448	-73.9055207	16-Dec-14	2:38:50 PM	122875	65026	--	--
St26	41.0683297	-73.8960651	16-Dec-14	2:19:13 PM	122718	65025	--	--
St27	41.0756836	-73.9122181	29-Oct-14	11:27:10 AM	123565	26747	--	--
St28	41.0706298	-73.9136809	15-Dec-14	12:50:01 PM	123568	26738	--	--
St29	41.0702580	-73.9092860	15-Dec-14	12:30:55 PM	123566	26746	--	--
St30	41.0703343	-73.9138134	15-Dec-14	12:41:33 PM	123567	26741	--	--
St31	41.0699375	-73.9096412	15-Dec-14	12:21:31 PM	123569	26739	--	--
St32 ^b	Decommissioned				123570	26745	--	--
St33 ^d	41.0723320	-73.8909040	15-Dec-14	11:52:00 AM	122731	65037	--	--
St34 ^d	41.0722890	-73.8981480	15-Dec-14	11:36:00 AM	122732	65039	--	--

^aStation 2 was not recovered, has not been detected by adjacent stations, and is now presumed lost.

^bStations 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.

^cStations 8, 13, 20, and 23 were not recovered.

^dStations were deployed to improve coverage in the vicinity of Stations 02, 05, and 06.

^eThe prefix for sync tag codes is "A69-1601-" and the prefix for temperature tags is "A69-9002-"

^fThe 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	0
Shortnose sturgeon	0
Total	0

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

None detected

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Shortnose sturgeon

Vemco Tag ID

None detected

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