Deployment 7 Summary

Period: March 1, 2014 through April 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."   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 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 March 1, 2014 through April 30, 2014.

Deployment 7 Summary

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Equipment and Location

Station	Deployment Location		Deployment Date and Time		Equipment Information			
	Latitude	Longitude	Date	Time	Vemco Receiver	Sync Tag[b]	Temp Tag	Lotek Receiver
St01	41.07458	-73.90994	11-Mar-14	01:03:52pm	122371	65006	--	--
St02[a]	41.07491	-73.89890	18-Mar-14	4:54:34pm	122372	65011	--	--
St03	41.06591	-73.91053	11-Mar-14	3:43:29pm	122373	65008	--	--
St04	41.06618	-73.89923	11-Mar-14	4:23:36pm	122888	65010	--	--
St05[a]	41.07371	-73.89345	7-Aug-13	07:45:36am	122891	65002	--	--
St06	41.07455	-73.88854	19-Mar-14	9:00:46am	122892	65014	--	265126[d]
St07[a]	41.07854	-73.87450	16-Oct-13	12:31:45pm	122887	65012	--	265127[e]
St08	41.07276	-73.87302	18-Mar-14	01:22:34pm	122890	65013	--	--
St09[a]	41.06912	-73.89254	18-Mar-14	11:11:42am	122893	65001	--	--
St10[a]	41.06469	-73.89198	18-Sep-13	09:38:32am	122894	65003	--	265121[e]
St11	41.06679	-73.87352	18-Mar-14	3:27:07pm	122889	65015	--	265119[d]
St12	41.07645	-73.88470	10-Mar-14	12:18:37pm	122884	65016	--	--
St13	41.07606	-73.88082	10-Mar-14	04:40:15pm	122885	65017	--	--
St14	41.07290	-73.88536	10-Mar-14	03:50:17pm	122886	65019	13339	--
St15	41.07320	-73.88226	10-Mar-14	5:41:18pm	122883	65018	--	--
St16[a]	41.07239	-73.87858	14-Oct-13	04:02:17pm	122879	65020	--	--
St17	41.06896	-73.88779	10-Mar-14	04:15:50pm	122881	65021	--	--
St18	41.06916	-73.88338	10-Mar-14	5:04:22pm	122880	65022	--	--
St19	41.06887	-73.87803	10-Mar-14	3:32:40pm	122876	65023	--	--
St20	41.06647	-73.88057	10-Mar-14	01:26:37pm	123572	65005	13338[c]	--
St21	41.06591	-73.88511	10-Mar-14	11:56:17am	122877	65004	--	--
St22	41.06581	-73.87696	10-Mar-14	12:36:59pm	122878	65007	--	--
St23	41.07447	-73.91332	19-Mar-14	11:38:26am	122871	65024	--	--
St24	41.07335	-73.90403	11-Mar-14	1:55:50pm	122872	65027	--	--
St25	41.06873	-73.90501	11-Mar-14	3:15:19pm	122875	65026	--	--
St26	41.06832	-73.89621	11-Mar-14	4:42:43pm	122873	65025	--	--
St27	41.07514	-73.91241	11-Mar-14	12:00:21pm	123565	26747	--	--
St28	41.07065	-73.91371	11-Mar-14	10:54:27am	123568	26743	--	--
St29	41.07026	-73.90930	11-Mar-14	02:29:07pm	123566	26746	--	--
St30	41.07033	-73.91382	11-Mar-14	10:32:26am	123567	26741	--	--
St31	41.06994	-73.90966	11-Mar-14	11:12:08am	123569	26739	--	--
St32[a]	41.07574	-73.89342	14-Oct-13	02:52:00pm	123570	26745	--	--

[a]These stations were not recovered with grappling gear during the March 2014 download effort, but were recovered, replaced, or decommissioned as follows: The receiver at Station 2 was found to be missing from the mooring in March and a new receiver was deployed at that time. Station 16 did not respond to the transducer for the acoustic release because this station was not equipped with a release; this station was grappled during the May download and all data were retrieved. Stations 5 and 9 were replaced with bridge moorings following discussion with DEC to minimize the risk of future loss of these stations due to movement and mooring of construction vessels. Stations 7, 10, and 32 were determined to be unnecessary for sturgeon positioning based on stationary range testing using sync-tag detections and were retired as discussed with DEC.

[b]The prefix for sync tag codes is "A69-1601-" and the prefix for temperature tags is "A69-9002-"

[c]The temperature tag at Station 20 was lost on October 20, 2013 and has not yet been replaced.

[d]Receiver battery was dead, which prevented data download. Battery was replaced.

[e]Receiver was lost and will be replaced.

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Numbers of Fish Detected by Species

Species	Number Detected
Atlantic sturgeon	3
Shortnose sturgeon	9
Species unconfirmed	8
Total	20

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. 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. This filtering method was used to remove false detections from the dataset prior to summarizing detection data for this deployment period. The False Detection Analysis (FDA) tool available in Vemco's Vue software was used to filter false detections.

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Atlantic sturgeon

Vemco Tag ID

A69-1303-11199

Deployment 7 Summary

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Shortnose sturgeon

Vemco Tag ID
A69-1303-10774
A69-1303-10778
A69-1303-10782
A69-1303-10802
A69-1303-10812
A69-1303-10817
A69-1303-11194
A69-1303-11196
A69-1303-11206

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Unconfirmed tag IDs

Vemco Tag ID