# Dredging and Pile Driving Monitoring Plan
# Sturgeon Monitoring During Pile Driving
# 60-day Report
# 12/20/2013 – 2/15/2014

*for the*

# New NY Bridge Project

**February 18, 2014**

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## 1.0 Introduction

This report summarizes the methods and results of sturgeon monitoring during permanent pile driving of [redacted] piles for the period of December 20, 2013 to February 15, 2014. Sturgeon monitoring was conducted per the Dredging and Pile Driving Monitoring Plan, Revision 2 (Plan) for the New NY Bridge Project (the Project). This Plan was developed to comply with applicable requirements of the New York State Department of Environmental Conservation (NYSDEC) Permit DEC ID 3-9903-00043/00012 issued on March 25, 2013 (NYSDEC Permit) and the April 2013 Endangered Species Act Section 7 Consultation Biological Opinion (BO) issued by the National Marine Fisheries Service (NMFS).

## 2.0 Monitoring Methods

Tappan Zee Constructors, LLC (TZC) conducted impact pile driving monitoring for permanent [redacted] piles at [redacted] from the pile driving barge and a small vessel per the Plan. A barge-based monitor was on site for all piles driven during the reporting period. A vessel-based monitor was on site for all piles driven during the reporting period except when conditions (e.g., ice, high winds) precluded small vessel operation and observations on:

- January 18, 2014 [redacted] Ice conditions.

Figure 1 provides an example of typical GPS transects completed by the vessel-based monitoring crew while monitoring impact pile driving operations at [redacted] on January 20, 2014. These piles were driven during a flood current and southwest winds. Based on these river conditions the monitors completed several circular and saw tooth pattern north of the bridge.

### 2.1 Ice Conditions

Due to ice conditions in the River no pile driving activity took place from January 21, 2014 through February 15, 2014.

## 3.0 Results

A total of [redacted] piles were impact driven from December 20, 2013 through February 15, 2014. All [redacted] piles were installed at [redacted]. Monitoring activities and results are summarized in Appendix A.

During the reporting period zero (0) sturgeon were observed during impact pile driving. A dead, decayed catfish (not identified to species) was observed by the barge-based monitor on January 20, 2014 (Appendix A). The fish was approximately 18-24 inches long.

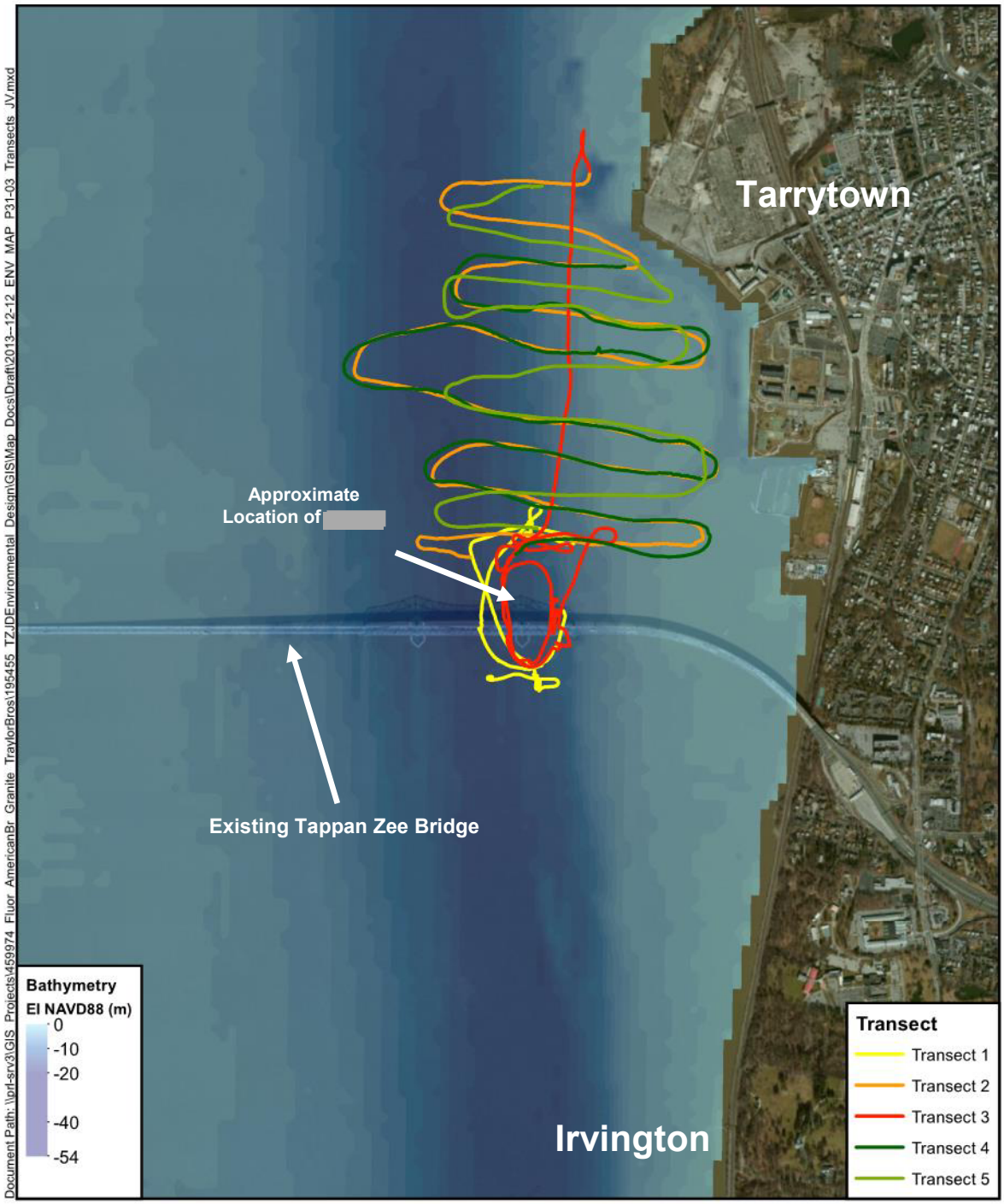


Figure 1.
GPS Transects for January 20, 2014

**APPENDIX A**

**Summary of Pile Driving Sturgeon Monitoring Activities**

# Appendix A: Pile Driving Sturgeon Monitoring Summary

TAPPAN ZEE
CONSTRUCTORS, LLC

**Report Date:** 2/18/2014
**Reporting Period:** 12/20/2013 - 2/15/2014
**Number of Sturgeon Observed:** 0

**Created by:** Christopher Coccaro, 2/15/2014
**Checked by:** Donald Henshaw 2/17/2014

| Date | | Barge-Based Monitoring Time | Vessel-Based Monitoring Time | Number of Fish Observed | Species | Sturgeon Specimen Log Number | Condition (Stunned / Dead) | Time Observed | Location Observed (Lat/Long or Barge Name) |
|---|---|---|---|---|---|---|---|---|---|
| 1/18/2014 | | 12:59 - 16:50 | 13:00 - 15:45 | 0 | NA | NA | NA | NA | NA |
| | | | | 1 | Catfish[b] | NA | Dead | 14:20 | From Thomas W |
| | | | | 0 | NA | NA | NA | NA | NA |
| | | | a | 0 | NA | NA | NA | NA | NA |
| 1/20/2014 | | 10:40 - 13:10 | 10:40 - 13:31 | 0 | NA | NA | NA | NA | NA |
| | | | | 0 | NA | NA | NA | NA | NA |
| | | | | 0 | NA | NA | NA | NA | NA |
| | | | | 0 | NA | NA | NA | NA | NA |

**Notes:** [a] **Monitoring suspended due to ice conditions in the river.**

[b] **Non-sturgeon species are not recovered for data collection.**