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TRANSMITTAL

Transmittal No.:

TN-TZC-NYSTA-T02960

Transmittal Date:

08/04/14

TO:

NYSTA

New NY Bridge Project Office 303 South Broadway, Suite 413

Tarrytown, NY 10591

Contract:

TANY-12-18B-D214134

Project:

Tappan Zee Hudson River Crossing Project

Authority:

Walter Reichert

Attn:

Peter Sanderson

Issue Status:

For Information Only

Contract Reference:

Part 03 Exhibit B Item 6

Enclosed please find the following:

Item	Title	Date
CSL-WTRQTY- RSL-AUG14	Water Quality Monitoring Plan - Revision 6 - H23F-14	08/04/14

Remarks:

Transmittal Issued By:	Gang Jiao	_ Signature: _	THE S
Transmittal Received By:		Date:	0804

CC:





Project Name: The New NY Bridge Project Tappan Zee Hudson River Crossing Design-Build Project Project Number: 5001-3-S002

Transmittal Title: Water Qualit	y Monitoring Plan - Revision 6 -	H23F-1	4	Transmittal Number:	T-HDR-TZC-S002-1357
Contents: Env Compliance - Ot	ner			Transmittal Date:	August 01, 2014
To: TZC Document Cont From: Chris Coccaro	Distribution Instructions / cc: HDR - James Morrison, Kimbe	Design Package: H23F -	14 SSI: □		
□ 09 □ 10 □ 11	□ 04 □ 05 □ 06 □ 07 □ 12 □ 13 □ 14 □ 15	□ 16		Transmit as Indicated To GPI for Certificat To GPI Environment To TZC Only - Revisi To TZC Engineering	ion tal
Discipline: Bridge Approaches Landscape Architecture Land Survey Utilities Project Management Contract Reference:	☐ 20 ☐ 21 ☐ 22 ☑ 23 ☐ Miscellaneous Structures ☐ Civil ☑ Environmental ☐ Facilities ☐ Security	Sy Vi	rstems sual Quality eotechnical ain Span andings	☐ To TZC Contracts ✓ To Environmental C ✓ To Elvis ✓ To NYSTA Submitted: ✓ For Approval ☐ For Your Informatio ☐ For Review and Con	n
Remarks:				Documents Returned Furnish as Submitte Furnish as Noted Revise and Resubmi Rejected Engineer's Reivew N Reviewed with Com	it Not Required
Item# Copies Type	Design Package ID)	Document Name		
1 1 Document 2 1 Document			Attachment 1 - T- Attachment 6 - H	HDR-TZC-S002-1357 H23F 23F-14 - Rev6	F-14 - Rev 6

NYSTA Contract No. D214134

FINAL DESIGN SUBMITTAL ENVIRONMENTAL

Submitting Organization:

Tappan Zee Constructors, LLC (TZC) HDR Design Builder:

Subcontractors:

ENVIRONMENTAL COMPLIANCE PLANS WATER QUALITY MONITORING PLAN **DESIGN UNIT 23**

Status: Submitted to NYSTA

Category: Final

Rev. No.	Design Package ID H23F-14	Date
9	Revised per Comments from NYSDEC	08/01/2014

Signature:

HDR DesignManager / Design Director

Having evaluated this item of Contract Data, I hereby certify that it satisfies the Contract requirements, except as specifically indicated.

Water Quality Monitoring Plan for the New NY Bridge Project

Revision 06 August 1, 2014

Prepared by

Tappan Zee Constructors, LLC 555 White Plains Rd., Suite 400 Tarrytown, NY 10591



Document History							
Issue Date	e Description		Revision				
3/06/13	Submitted for NYSTA review	SZ/VW	0				
4/11/13	Revised per NYSTA comments	SZ/WV	1				
5/02/13	Revised per NYSDEC comments	VW	2				
08/21/13	Revised per NYSDEC Permit Modification	VW	3				
7/15/14	Revised per NYSDEC Permit Modification	CC	4				
7/25/14	Revised per NYSTA comments	CC	5				
8/1/2014	Revised per NYSDEC comments	CC	6				

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1.0 Introduction

The New York State Department of Environmental Conservation Permit DEC ID 3-9903-00043/00012 (NYSDEC Permit) and subsequent modifications through and including July 3, 2014 letter from NYSDEC for the Tappan Zee Hudson River Crossing Project (Project) sets forth the requirements for water quality monitoring during construction. This Water Quality Monitoring Plan reflects these requirements and meets the Environmental Performance Commitments (EPCs) identified in the Final Environmental Impact Statement (FEIS). The Water Quality Monitoring Plan is described in the sections below.

2.0 Monitoring Objectives

The overall objective of this program is to monitor construction activities for total suspended solids (TSS) and contaminants via the collection and analysis of whole water samples or for turbidity through visual inspection as described in Table 1.

Table 1. Water Quality Monitoring Required by Construction Activities Associated with the Tappan Zee Hudson River Crossing Project

Construction Activity	Water Quality Monitoring
Dile Driving Operations in	Doily viewal manifesing for trubidity outsiding bound 500 ft mining and
Pile Driving Operations in	Daily visual monitoring for turbidity extending beyond 500-ft mixing zone
Zone C (piers 28-35)	during pile driving operations; collection of whole water samples for TSS and contaminants for
	compliance with WQ Standard Permit Condition 60, 61, and 64 at the
	edge of a 500-foot mixing zone daily (every day the activity occurs) at the
	start of pile driving, once during the flood or once during the ebb tide
	stage as the activity and tidal stages provide.
	Per NYSDEC approval:
	Reduced to daily visual monitoring for turbidity extending beyond the 500-
	ft mixing zone during pile driving operations.
Pile Driving Operations	Daily visual monitoring for turbidity extending beyond 500-ft mixing zone
Outside Zone C	during pile driving operations.
Pile Dewatering	Daily visual monitoring for turbidity in the vicinity of the pump discharge
	during pile dewatering.
Cofferdam Construction	Daily visual monitoring for turbidity extending beyond 500-ft mixing zone
	during sheet pile driving.
	Daily visual monitoring for turbdity extending beyong 500-ft mixing zone
0.55	during construction within the cofferdam.
Cofferdam Dewatering	Daily visual monitoring for turbidity in the vicinity of the pump discharge
Dandaina and Dattern	during cofferdam dewatering.
Dredging and Bottom	Daily visual monitoring for turbidity extending beyond 500-ft mixing zone;
Profiling	collection of whole water samples for TSS and contaminants for compliance with WQ Standard Permit Condition 60, 61, and 64 at the
	edge of a 500-foot mixing zone daily (every day the activity occurs) at the
	start of the dredging, once during the flood or once during the ebb tide
	stage as the activity and tidal stages provide.
	Per NYSDEC approval:
	Reduced to daily visual monitoring for turbidity extending beyond 500-ft
	mixing zone;
	collection of whole water samples for TSS twice per week or twice per
	every seven days dredging occurs;

Construction Activity	Water Quality Monitoring
Dredging of East Sediment Mound #3 and Dredging of Stage 2 Access Area	Daily visual monitoring for turbidity extending beyond 500-ft mixing zone; collection of whole water samples for TSS and contaminants for compliance with WQ Standard Permit Condition 60, 61, and 64 at the edge of a 500-foot mixing zone daily (every day the activity occurs) at the start of the dredging, once during the flood or once during the ebb tide stage as the activity and tidal stages provide. Per NYSDEC approval: Reduced to daily visual monitoring for turbidity extending beyond 500-ft mixing zone; collection of whole water samples for TSS twice per week or twice per every seven days dredging occurs;
Barge Decanting	Daily visual monitoring for turbidity extending beyond 500-ft mixing zone; Collection of whole water samples for TSS and contaminants for compliance with WQ Standard Permit Condition 60, 61, and 64 at the edge of a 500-foot mixing zone daily (every day the activity occurs) at the start of barge decanting, once during the flood or once during the ebb tide stage as the activity and tidal stages provide. Per NYSDEC approval: Reduced to daily visual monitoring for turbidity extending beyond 500-ft mixing zone.
Dredged Area Armoring	Daily visual monitoring for turbidity extending beyond 500-ft mixing zone; Collection of whole water samples for TSS and contaminants for compliance with WQ Standard Permit Condition 60, 61, and 64 at the edge of a 500-foot mixing zone daily (every day the activity occurs) at the start of dredged area armoring, once during the flood or once during the ebb tide stage as the activity and tidal stages provide. Per NYSDEC approval: Reduced to daily visual monitoring for turbidity extending beyond 500-ft mixing zone.
Bridge Demolition (subsurface pile, cofferdam, and debris field removal) and Other Activities that may Resuspend Bottom Sediments	Daily visual monitoring for turbidity extending beyond 500-ft mixing zone or at the nearest practicable distance outside of a silt curtain should one be used; Collection of whole water samples for TSS and contaminants for compliance with WQ Standard Permit Condition 60, 61, and 64 at the edge of a 500-foot mixing zone or at the nearest practicable distance from a silt curtain, should one be used, within the first five days or tide stages of monitoring. The NYSDEC may specify water quality monitoring requirements that differ from those listed in conditions 59 through 67 to reflect the details of the demolition plans or for other activites that may suspend bottom sediments. Per NYSDEC approval: Reduced to daily visual monitoring for turbidity extending beyond 500-ft mixing zone; collection of whole water samples for TSS twice per week or twice per every seven days the activity occurs following the first five days or tide stages of whole water sample collection.

3.0 Methods

Water quality monitoring methods will vary based on in-water construction activity (i.e. visual observation or vessel based whole water sample collection). Based on the width of the Hudson River and hydrodynamics in the area, multiple activities can be monitored or sampled each day with one survey crew. If all activities can not be monitored or sampled by a single crew, additional crews or vessels will be used as necessary.

The sections below describe the methods for the water quality monitoring plan.

3.1 Visual Observations

Visual observations of activities will be conducted by a barge-based or vessel-based observer during the activities identified in Table 1.

An observation of turbidity that extends beyond the 500-ft mixing zone or in the vicinity of the construction activity, as specified in Table 1, will be reported immediately to the Environmental Compliance Manager (ECM) or designee who will then inform NYSTA, OECM, and NYSDEC. The ECM or designee will immediately coordinate with Tappan Zee Constructios, LLC. (TZC) operations to implement corrections actions as to comply with water quality standards.

Visual observations will be documented on one or more field forms (Attachment A). Observations forms include but are not limited to:

- Environmental Checklists (ENV CL)
- Field Compliance Reports (FCR)
- Visual Inspection Forms (VIF)

If an exceedance is reported during reduced monitoring for an activity listed in Table 1 then additional monitoring will be implemented as specified in Section 3.3.

3.2 Vessel Based Whole Water Samples

Vessel-based water quality monitoring will be conducted for activities as specified in Table 1. TSS and contaminant whole water samples will be collected during either the flood or ebb tide stage during daylight hours. Water quality monitoring via whole water sample collection will be conducted daily for each activity.

Daily visual observations as described in Section 3.1 will continue through the duration of activities described in Permit Condition 59. If there is an exceedance of 100 mg/l above ambient TSS value or the observation of turbidity extending beyond 500-ft mixing zone, then corrective actions will be taken and the NYSDEC will be consulted to determine if additional monitoring is required. The NYSTA and OECM will notify NYSDEC to any corrective actions implemented. Vessel-based monitoring may be temporarily suspended due to weather or other safety concerns. If monitoring is temporarily suspended NYSTA and OECM will be notified who will inform the NYSDEC. Conditions resulting in suspension of monitoring due to weather or other safety concerns will be documented in the reports described in Section 4.1 and 4.3.

3.2.1 In-Plume (Downcurrent)

In-plume surveys will be collected at the edge of the 500-ft mixing zone, or at the nearest practicable proximity to a silt curtain, if one is used. An Acoustic Doppler Current Profiler (ADCP) will be used to identify the plume. An Optical Backscatter Sensor (OBS) configured to record turbidity (NTU), depth (meters), temperature (°C) and salinity (ppt) will be mounted to a submersible pump and used to collect

vertical profiles at water sample station locations. Simultaneously, the pump will be used to collect discrete whole water samples at separate depths for laboratory analysis of TSS and contaminants. When water depth is less than 10 feet only mid-depth samples will be collected. When water depth is between 10 and 20 feet samples will be taken from near-surface and near-bottom. When water depth is greater than 20 feet samples will be taken from near-surface, mid-depth, and near-bottom. Near-surface samples will be collected from approximately three feet below the surface, mid-depth will be collected approximately half-way between the bottom and surface and bottom samples from approximately three feet above the bottom. The water samples will be preserved at 4° C and sent to the laboratory for analysis under full Chain-of-Custody protocols.

3.2.2 Background (Upcurrent)

In addition to in-plume surveys, ambient surveys will be conducted using the same methods and procedures described above. Ambient surveys will be conducted along a transect a minimum of 500-ft up current of the source to provide data for comparison with the in plume surveys. This transect will be conducted at a location up current of the source where the water quality effects of the project are no longer discernible. Samples will be collected in the same manner as the in-plume surveys.

3.2.3 Contaminant Analyses

To obtain measurements of water quality within the water column, whole water samples will be collected per Section 2.0 during each survey at the upcurrent and downcurrent transect. These samples will be collected using the pump sampler at the required depths, and will be analyzed for the parameters listed in Permit Condition 61.

The samples to be analyzed for dissolved nickel, copper, lead and zinc will be filtered in the field. All samples will be prepared, preserved as required, maintained at 4°C and shipped to a New York State Department of Health Environmental Laboratory Approval Program certified lab under full Chain-of-Custody protocols.

If an exceedance is reported during reduced monitoring for an activity listed in Table 1 then additional monitoring will be implemented as specified in Section 3.3.

3.3 Reduced Water Quality Monitoring

Following the receipt of five consecutive water quality monitoring events with no water quality standard exceedances for an activity listed in Table 1, TZC will provide the results to NYSTA, OECM, and NYSDEC and request to follow a reduced monitoring schedule per Permit Condition 64. Following approval by NYSDEC, documented in the form of a letter or e-mail, TZC will follow the reduced monitoring schedule for that activity as stated in Table 1.

If, during the reduced sampling for any activity, visible turbidity is observed immediately outside of a silt curtain or at the edge of the 500-foot mixing zone (per Table 1) or if there is an exceedance of 100 mg/L above the ambient TSS value, corrective action shall be taken and TSS monitoring frequency shall return to daily (every day that the activity occurs) for that activity until such time as TSS concentrations are less than 100 mg/L above ambient values on two consecutive measurements and visible turbidity is not observed immediately outside of a silt curtain or at the edge of the 500-ft mixing zone (per Table 1). NYSDEC may specify additional monitoring until compliance is demonstrated. Samples shall be collected until NYSDEC approves resumption of reduced monitoring.

4.0 Reporting

4.1 Analytical Results

All analytical results (i.e. TSS and contaminants) of water samples collected in Section 3.1. will be provided to NYSTA and OECM. The OECM will transmit the analytical results to the NYSDEC by fax or email within 48 hours of receipt of the data results from TZC. Any exceedances will be highlighted by TZC. Exceedances will be based on differences in TSS and contaminant concentrations from analytical results of the water samples between the upcurrent and downcurrent stations, when the background concentration exceeds the water quality standards or detection limits in Permit Condition 61. Otherwise, exceedances will be based on the water quality standards or detection limits in Permit Condition 61.

Following receipt of five samples for an activity monitoring TZC will provide the results and request for reduced monitoriting to NYSTA and OECM who will forward it to NYSDEC. TZC will follow the reduced sampling schedules provided in Table 1 once approved by NYSDEC.

4.2 Water Quality Standard Exceedances

In the event of an exceedance of a water quality standard for TSS and contaminants based on the analytical results of the water samples or field form documented visual inspections of turbidity as described in Permit Condition 65.c, NYSTA, OECM, and NYSDEC will be notified. Corrective actions will be taken and TSS monitoring will return to daily for that activity until TSS concentrations are less than 100 mg/l above ambient values on two consecutive measurements and turbidity is not observed extending beyond the 500-ft mixing zone. With NYSDEC approval, activity monitoring would return to the reduced schedule stated in Table 1. Based on the plan, in consultation with OECM and NYSDEC, the in-water activities will be re-evaluated in consultation with NYSDEC to determine the need for procedural changes. If an exceedance of the water quality standards occurs during the dredging operation a Corrective Action Plan (CAP) will be developed as appropriate. The CAP will be provided to NYSTA and OECM within 24 hours of the exceedance.

4.3 Reporting

Within 15 days of completion of the dredging operation in any calendar year, three (3) copies of the annual dredging monitoring report will be submitted to the New York State Thruway Authority (NYSTA) and provided to NYSDEC within 30 days of completion of dredging. Three (3) copies of the annual water quality monitoring report, summarizing the results of the water quality monitoring program and analyses will be submitted to NYSDEC for review within 30 days following the New Year.

ATTACHMENT A Visual Observation Forms

ARMORING BARGE ENVIRONMENTAL CHECKLIST

Page 1 of ____

Instructions: Complete Section A and B for all work.

CHECK POINTS (CP) must be initialed by responsible person before work progresses. Return completed form at end of shift

Date (mm/dd/yy):	Barge:	Superintendent:								
	SEC	TION A. E	BARGE A	CTIVITY	INFORM	ATION				
A1. Environmental Complia	ance Team (ECT) Notificat	ion (initial or ci	rcle NA if not a	pplicable to bar	ge activity, see	e below for ECT	Contact Informa	ation)		
(CP) Notify ECT TWO hours	prior to start of armoring			No	tification 1	ime (hh:mm)	<u> </u>		NA	
A2. Activity Information (cir						,	-			
·		<u> </u>		I						
Initial Daily Activity Start Tir						nd Time (hh:	mm):			
Dredged access channel wh	ere armor will be placed (circle one):		East	West					
A3. Spill Prevention (circle NA	if not applicable to daily barge acti	vity)								
(CP) Spill Kit and SPCC Plan	onboard (confirm spill kit conte	nt list is stocked,	circle and initi	al)					Υ	
		C.E.	CTION D	A DN 4 O F	NNC					_
D1 Armerine Discourant	6	_		. ARMOF						
B1. Armoring Placement (respace)	confirm each CP prior to starting an	moring following	barge movem	ent or tempora	ry suspension	of armoring; red	ord time, circle	and initial prior t	to start; use bac	k for additional
			Start Tin	ne (hh:mm)	Start Ti	me (hh:mm)	Start Tir	me (hh:mm)	Start Tir	me (hh:mm)
(CP) Discharge chute at pro		Υ		Υ		Υ		Υ		
(CP) Conveyor RTK DGPS w		Υ		Υ		Υ		Υ		
(CP) Conveyor belt speed is	ded	Υ		Υ		Υ		Υ		
(CP) Operator computer dis	splay working properly		Υ		Υ		Υ		Υ	
B4. Water Quality										
Turbidity observed resulting	g in a substantial visible co	ntrast >500	-ft from pil	e (circle):					Υ	N
If Yes, immediately notify E	CT and take corrective act	ion								•
Persons Notified:			Time Noti	fied (hh:mm):						
B3. Sturgeon See below for exam	nples. Complete at end of shift or w	hen fish/ birds o	bserved.							
Observer Name:		Sturgeon o	observed (ci	ircle):	Υ	N	Time(s) ob	served (hh:m	nm):	
If Yes immediately notify EC	CT Persons Notified	:			I	I	Time Notif	fied (hh:mm):		
							-1			
Environmental Compl	ianco Toam Contacts				Exam	ples of a St	urgeon			
(contact in order shown u			4.70	neway c		•	Ü			
1. Donald Henshaw	845-821-4306		AP	PENDIX G Idei	ntification Ke			heast U.S. Wate	ers .	
2. Jefferey Kapus	646-823-4685			To Table	\$	ATLAN	TIC	-#F3		
3. Christopher Coccaro	914-907-2024			Interorbital width		A SHOW	KKKKAAA			
4. Valerie Whalon	610-570-2128			The restoration winds	CI CM	outh width			Bony plates	
5. Mike Ortler	917-907-1107				~	SHORT	OSE			
6. Noemi Santiago	917-887-3670	1				200000	Seacher.			

Name: Signature:

SECTION B. ARMORING (continued)

B1 (cont.). Armoring Placement (reconfirm each CP prior to starting armoring following barge movement or temporary suspension of armoring; record time, circle and initial prior to start)

	Start Time (hh:mm)		Start Time (hh:mm)		Start Time (hh:mm)		Start Tim	ne (hh:mm)
(CP) Discharge chute at proper depth	Υ		Υ		Υ		Υ	
(CP) Conveyor RTK DGPS working properly	Υ		Υ		Υ		Υ	
(CP) Conveyor belt speed is constant and being recorded	Υ		Υ		Υ		Υ	
(CP) Operator computer display working properly	Υ		Υ		Υ		Υ	

B1 (cont.). Armoring Placement (reconfirm each CP prior to starting armoring following barge movement or temporary suspension of armoring; record time, circle and initial prior to start)

	Start Time (hh:mm)		Start Time (hh:mm)		Start Time (hh:mm)		Start Tim	ne (hh:mm)
(CP) Discharge chute at proper depth	Υ		Υ		Υ		Υ	
(CP) Conveyor RTK DGPS working properly	Υ		Υ		Υ		Υ	
(CP) Conveyor belt speed is constant and being recorded	Υ		Υ		Υ		Υ	
(CP) Operator computer display working properly	Υ		Υ		Υ		Υ	

B1 (cont.). Armoring Placement (reconfirm each CP prior to starting armoring following barge movement or temporary suspension of armoring; record time, circle and initial prior to start)

	Start Time (hh:mm)		Start Time (hh:mm)		Start Time (hh:mm)		Start Time (hh:mm	
(CP) Discharge chute at proper depth	Υ		Υ		Υ		Υ	
(CP) Conveyor RTK DGPS working properly	Υ		Υ		Υ		Υ	
(CP) Conveyor belt speed is constant and being recorded	Υ		Υ		Υ		Υ	
(CP) Operator computer display working properly	Υ		Υ		Υ		Υ	

B1 (cont.). Armoring Placement (reconfirm each CP prior to starting armoring following barge movement or temporary suspension of armoring; record time, circle and initial prior to start)

	Start Time (hh:mm)		Start Time (hh:mm)		Start Time (hh:mm)		Start Time (hh:mm)	
(CP) Discharge chute at proper depth	Υ		Υ		Υ		Υ	
(CP) Conveyor RTK DGPS working properly			Υ		Υ		Υ	
(CP) Conveyor belt speed is constant and being recorded	Υ		Υ		Υ		Υ	
(CP) Operator computer display working properly	Y		Υ		Υ		Y	

B1 (cont.). Armoring Placement (reconfirm each CP prior to starting armoring following barge movement or temporary suspension of armoring; record time, circle and initial prior to start)

	Start Time (hh:mm)		Start Time (hh:mm)		Start Time (hh:mm)		Start Time (hh:mm)	
(CP) Discharge chute at proper depth	Υ		Υ		Υ		Υ	
(CP) Conveyor RTK DGPS working properly	Υ		Υ		Υ		Υ	
(CP) Conveyor belt speed is constant and being recorded	Υ		Υ		Υ		Υ	
(CP) Operator computer display working properly	Y		Υ		Υ		Υ	

Notes:				

					· ·			m at end of		tivites. Che	CK FUINTS	- (CF) IIIus	. De
Date (mm/c	id/yy):			Barge:				Superinter	ndent:				
								INFORM					
										Contact Informa	tion)	1	
(CP) Notif	y ECT TWO	hours prio	r to start o	f pile drivin	g or dewat	tering	No	tification Ti	me (hh:mm)	:		NA	Initial Here
A2. Activit	ty Informat	ion (circle one	e):	B. Vibrato	ry Driving	C. Impact	Driving	D. Dewate	ering				
Pier No(s)	:		Pile Dia(s)	.:				Activ	vity Start T	ime at First	Pile (hh:mm):		
Hammer N	Model (enter	NA if not applic	cable):					Act	ivity End 1	ime at Last	Pile (hh:mm):		
A3. Spill P	revention (circle NA if not	applicable to d	aily barge activ	rity)								
(CP) Spill I	Kit and SPC	C Plan onbo	oard (confirm	spill kit conter	nt list is stocked	d, circle and initi	al)				Υ	N	Initial Here
(CP) Conta	ainment bo	om deploy	ed around	template o	r work are	a (circle one an	d initial)				Υ	N	Initial Here
If No, imm	ediately no	otify ECT an	d take cori	ective acti	on	Persons No	otified:				Time Notif	ied (hh:mm):	
A4. Peregi	rine Falcon	Protection	(circle NA if no	ot applicable to	barge activity)							
Checkerbo	oard flag ins	stalled at to	p of crane	S (circle one)								Υ	N
				S	ECTION	B. VIBRA	TORY P	ILE DRIVII	NG				
B1. Sturge	on See Page 2	for Examples.	Complete at e	nd of shift or w	hen fish/ birds	observed.							
Observer I	Name:				Sturgeon	observed (ci	rcle):	Υ	N	Time(s) ob	served (hh:n	nm):	
If Yes imm	ediately no	tify ECT	Person	s Notified:						Time Notif	ied (hh:mm):		
B2. Water	Quality		Turbidity	observed re	esulting in	a substantia	al visible c	ontrast >500	0-ft from բ	oile (circle):		Υ	N
If Yes, imn	nediately n	otify ECT ar	nd take cor	rective acti	on	Persons No	otified:				Time Notif	ied (hh:mm):	
					SECTIO	N C. IMPA	ACT PILI	DRIVING	3				
C1. Shrou	d, Noise Att	tenuation S	ystem (NA	S) - Bubble	Curtain a	nd Pile Tap	(perform visu	al inspection of	water surface	to confirm NAS i	s operating pro	perly)	
(CP) 40-ft	Shroud De	ployed (circle	e and initial):		Υ	Initial Here	(CP) NAS	Deployed a	nd Operat	ing (initial belov	v prior to drivir	ng each pile):	
C2. Bubble	e Curtain Lo	og for piles	>48-inches	(record air pro	essure and flov	v approx. 5 mins	after NAS is	on)					
			NAS		Air Pre	essure (psi)	at Reservo	oir Tank Out	lets/ Air F	low (cfm) at	Meter (if a	vailable)	
Pile No.	NAS (CP)	Pile Tapped	Cables		1	2		3	3		1	į	5
	(initial)	(circle one)	Taut (circle one)	Visually Checked	PSI	Visually Checked	PSI	Visually Checked	PSI	Visually Checked	PSI	Visually Checked	PSI
	Initial Here	Y/N	Y/N	Y/N		Y/N		Y/N		Y/N		Y/N	
	Initial Here	Y/N	Y/N	Y/N		Y/N		Y/N		Y/N		Y/N	
	Initial Here	Y/N	Y/N	Y/N		Y/N		Y/N		Y/N		Y/N	
	Initial Here	Y/N	Y/N	Y/N		Y/N		Y/N		Y/N		Y/N	
	Initial Here	Y/N	Y/N	Y/N		Y/N		Y/N		Y/N		Y/N	
	Initial Here	Y/N	Y/N	Y/N		Y/N		Y/N		Y/N		Y/N	
	Initial Here	Y/N	Y/N	Y/N		Y/N		Y/N		Y/N		Y/N	
	Initial Here	Y/N	Y/N	Y/N		Y/N		Y/N		Y/N		Y/N	
C3. Fish (N	/lonitoring	Vessel Ava	ilable on C	hannel 18A	i -			d of shift or whe	n fish/ birds o				
Observer I	Name:				_	observed (cir	rcle):	Υ	N	If Yes imme		tify ECT	
. ,	served (hh:r			ı	1	s Notified:				Time Notif	ied (hh:mm):		
	observed (circle):	Υ	N	Scavenger	bird activit	y (circle):	Υ	N				
Time Obse					Species (if					Quantity O			
Time Obse					Species (if					Quantity O			
Time Obse	erved:				Species (if	known):				Quantity O	bserved:	1	
C4. Water								ontrast >50	0-ft from p	oile (circle):		Υ	N
If Yes, imn	nediately n	otify ECT ar	nd take cor	rective acti	on	Persons No	otified:				Time Notif	ied (hh:mm):	
Name:						Signature:							

Rev. 20140303

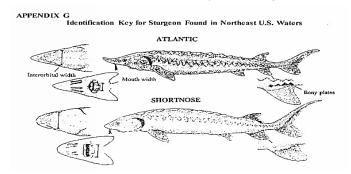
(by signing I certify I have performed the above checks and believe them to be accurate)

Environmental Compliance Team Contacts

(contact in order shown until someone is reached)

1. Donald Henshaw	845-821-4306
2. Jefferey Kapus	646-823-4685
3. Christopher Coccaro	914-907-2024
4. Valerie Whalon	610-570-2128
5. Mike Ortler	917-907-1107
6. Noemi Santiago	917-887-3670

Examples of a Sturgeon



SECTION D. DEWATERING INFORMATION

(Complete D1 and D2 for each pile. **Check Points (CP)** must be initialed by responsible person before work progresses.

Use additional sheets as necessary. See ITP TZC 0033 for mudline elevation.)

D1.1 Pile Information (complete for each pile, circle NA if not application)	Pier No.:	Pile No.:					
(CP) Confirm 2-ft min separation between pump and mu	ıdline elev. (ir	nitial)		Initial Here	Mudline elevation:		f
Discharge hose 3-4 ft below surface (circle one)	ow surface (circle one) Y N Pump elevation:						f
D2.1 Water Quality							
Turbidity observed resulting in a substantial visible contr	ast >500-ft f	rom pile (circle):			Υ	N
If Yes, immediately notify ECT and take corrective action					<u> </u>		1
Persons Notified:			Time Notified:				
D1.2 Pile Information (complete for each pile, circle NA if not applica	ıble barge activity)	Pier No.:		Pile No.:		NA
(CP) Confirm 2-ft min separation between pump and mu	ıdline elev. (ir	nitial)		Initial Here	Mudline elevation:		f
Discharge hose 3-4 ft below surface (circle one)	Υ	N			Pump elevation:		1
D2.2 Water Quality							
Turbidity observed resulting in a substantial visible contr	ast >500-ft f	rom pile (circle):			Υ	N
If Yes, immediately notify ECT and take corrective action							
Persons Notified:			Time Notified:				
D1.3 Pile Information (complete for each pile, circle NA if not applica	ıble barge activity)	Pier No.:		Pile No.:		NA
(CP) Confirm 2-ft min separation between pump and mu	ıdline elev. (ir	nitial)		Initial Here	Mudline elevation:		1
Discharge hose 3-4 ft below surface (circle one)	Υ	N			Pump elevation:		f
D2.3 Water Quality							
Turbidity observed resulting in a substantial visible contr	ast >500-ft f	rom pile (circle):			Υ	N
	·	· ·					·
If Yes, immediately notify ECT and take corrective action							



PILE CAP ENVIRONMENTAL CHECKLIST

Page 1 of ____

INSTRUCTIONS: Complete Section A for all work. Complete Sections B-C as work progresses for those activities. CHECK POINTS (CP) must be initialed by responsible person before work progresses. Return completed form at end of shift.

Date (mm/dd/yy):	Pier:	Superinte	ndent:				
	SECTION A. PILE CAP ACT	IVITY INFORM	MATION				
A1. Spill Prevention (circle NA if	not applicable to daily barge activity)						
(CP) Spill Kit and SPCC Plan o	nboard (confirm spill kit content list is stocked, circle and initial)					Υ	initial here
A2. Peregrine Falcon Protect	ion (circle NA if not applicable to barge activity)						
Checkerboard flag installed at	t top of cranes (circle one)				Υ	N	NA
	SECTION B. CONCRETII	NG INFORMA	TION				_ _
	(Complete B1. Use additiona	al sheets as neces	sary.)				
B1.1 Water Quality		Pier No.:					
1. (CP) Formwork properly se	aled per plan prior to concrete placement:	Y	N	initial here			
List location of pour (i.e. joint	es seals, secondary pour, pile plug, pile cap):	Ар	prox. Volun	ne (cu yds.):			
2. Turbidity observed resultin	g in a substantial visible contrast	Υ	N				
If Yes, immediately notify ECT	Fand take corrective action			•			
Persons Notified:	Tim	ne Notified:					
3. Fresh concrete placed into	Hudson River	Υ	N				
If Yes, immediately notify ECT	Γ and take corrective action	Approx. Volum	e (cu. yds.):	:			
Persons Notified:	Tim	ne Notified:					
4. Water containing fresh lead	chate placed into Hudson River	Y	N				
If Yes, immediately notify ECT	and take corrective action	Approx. Vo	lume (gal.):	:			
Persons Notified:	Tim	ne Notified:					
	SECTION C. DEWATERI	NG INFORMA	TION				
	(Complete C1 and for each pile cap. Us			arv.)			
B1.1 Cap Information (complete	e for each tub, circle NA if not applicable barge activity)			, ,			
Discharge hose 3-4 ft. below		Υ	N				
B1.2 Water Quality				1			
Turbidity observed resulting i	n a substantial visible contrast outside of pile cap (ci	ircle):				Υ	N
If Yes, immediately notify ECT	Γ and take corrective action						1
Persons Notified:	Tim	ne Notified:					
Name:	Signature:						_
(print	t) (by signin	ng I certify I have p	erformed t	the above ch	necks and be	elieve then	n to be accui
	Environmental Com	unlianes Toons Car					

Environmental Compliance Team Contacts

(contact in order shown until someone is reached)

(contact in or	der snown until someone is reached)
1. Donald Henshav	v 845-821-4306
2. Jefferey Kapus	646-823-4685
3. Christopher Coo	caro 914-907-2024
4. Mike Ortler	917-907-1107
5. Noemi Santiago	917-887-3670



CONCRETE BATCH PLANT ENVIRONMENTAL CHECKLIST

Page 1 of ___

INSTRUCTIONS: Complete Section A for all work. Complete Sections B as work progresses for those activities. **CHECK POINTS (CP) must be initialed by responsible person before work progresses.** Return completed form at end of shift.

Date (mm/dd/yy):	Plant #:	Pier #:	Superintendent:

SECTION A. CONCRETE BATCH PLANT ACTIVITY INFORMATION

A. Spill Prevention (circle NA if not applicable to daily barge activity)

(CP) Spill Kit and SPCC Plan onboard (confirm spill kit content list is stocked, circle and initial)	Υ	initial here
--	---	--------------

SECTION B. CONCRETE PRODUCTION INFORMATION

B1.1 Concrete Batch Plant Controls

Υ	N	N If no, immediately notify ECT and take corrective action				
	Time Notified:					
Υ	N	If no, imm	nediately notify ECT and take corrective action			
	Time Noti	fied:				
Υ	N	If no, imm	nediately notify ECT and take corrective action			
	Time Noti	fied:				
Υ	N If no, immediately notify ECT and take corrective action					
	Time Notified:					
Υ	N	NA	If no, immediately notify ECT and take corrective action			
	Time Noti	fied:				
Υ	N	If No, imn	nediately notify ECT and take corrective action			
	Time Noti	fied:				
Υ	N					
	Disposal N	/lethod:				
Υ	N					
	Disposal N	/lethod:				
	Y Y Y Y	Time Notif Y N Time Notif	Time Notified: Y N If no, imm Time Notified: Y N If no, imm Time Notified: Y N If no, imm Time Notified: Y N NA Time Notified: Y N If No, imm Time Notified: Y N If No, imm Time Notified: Y N If No, imm Time Notified: Y N Disposal Method:			

B2.1 Water Quality

bz.1 water Quality			
Turbidity observed resulting in a substantial visible contrast (circl	e):	Υ	N
If Yes, immediately notify ECT and take corrective action			
Persons Notified:	Time Notified:		
Name:	Signature:		
(print)	(by signing I certify I have performed the above checks and believe	them to be	accurate)

Environmental Compliance Team Contacts

(contact in order shown until someone is reached)

(contact in order shown until someone is reached)									
1. Donald Henshaw	845-821-4306								
2. Jefferey Kapus	646-823-4685								
3. Christopher Coccaro	914-907-2024								
4. Mike Ortler	917-907-1107								
5. Noemi Santiago	917-887-3670								

COFFERDAM ENVIRONMENTAL CHECKLIST

Page 1 of ____

INSTRUCTIONS: Complete Section A for all work. Complete Sections B-D as work progresses for those activites. **CHECK POINTS (CP) must be initialed by responsible person before work progresses.** Return completed form at end of shift.

Date (mm/dd/yy):	Location	Superintendent:										
		SECTIO	N A. ACTIVITY INFO	RMATIO	V							
A1. Environmental Compliance	Team (ECT) Notificatio	n (initial or circle	e NA if not applicable to activity, s	ee below for ECT	Contact Inforr	mation)			_			
(CP) Notify ECT TWO hours prior to start of sheet driving or dewatering Notification Time (hh:mm): NA												
A2. Activity Information (circle or	ne): B. Vibrat	ory Driving	C. Dewatering D. E.	cavation								
Pier No(s).:	Sheet size(s).: Activity Start Time (hh:mm):											
Hammer Model (enter NA if not appli	icable):				A	Activity End	Time (hh:mm):	:				
A3. Spill Prevention (circle NA if no	t applicable to daily barge activity	<i>'</i>)										
(CP) Spill Kit and SPCC Plan onb	oard (confirm spill kit content l	ist is stocked, cir	cle and initial)					Υ	Initial Here			
(CP) Containment boom deploy	ed around template or	work area (ci	rcle one and initial)				Υ	NA	Initial Here			
A4. Peregrine Falcon Protection	n (circle NA if not applicable to b	arge activity)										
Checkerboard flag installed at to	op of cranes (circle one)						Y	N	NA			
		SECTION	B. VIBRATORY SHE	ET DRIVI	NG		•	1	•			
B1. Sturgeon See Page 2 for Examples.	. Complete at end of shift or whe	n fish/ birds obse	erved.									
Observer Name:		Sturgeon	observed (circle):	Υ	N	Time(s) ol	oserved (hh:mi	m):				
If Yes immediately notify ECT	Persons Notified	d:		1		Time Noti	fied (hh:mm):					
B2. Water Quality												
Turbidity observed resulting in a	a substantial visible cont	rast >500-ft	from cofferdam (circle):		Y	N						
If Yes, immediately notify ECT a	nd take corrective action	n	Persons Notified:				Time Notifi	ied (hh:mm):				
Sheen or Spill Observed					Y	N						
If Yes, immediately notify ECT and take corrective action Persons Notified: Time Notified (hh:mm):												
							1					
			APPENDIX G	fication Key for	r Sturgeon Fo	ound in Northe	ast U.S. Waters					

Environmental Compliance Team Contacts

(contact in order shown until someone is reached)

(contact in order shown until someone is reached)								
1. Donald Henshaw	845-821-4306							
2. Jefferey Kapus	646-823-4685							
3. Christopher Coccaro	914-907-2024							
4. Mike Ortler	917-907-1107							
5. Noemi Santiago	917-887-3670							

APPENDIX G Identifies	ation Key for Sturgeon Found in Northeast U.S. Waters
	ATLANTIC
Interorbital width	The state of the s
	Mouth width Bony plates
	SHORTNOSE

Name:		Signature:	
•	(print)	(by signing I certify I have performed the above checks and believe them to be accu	urate

SECTION C. DEWATERING INFORMATION

(Complete C1 and C2 for each cofferdam **Check Points (CP)** must be initialed by responsible person before work progresses.

Use additional sheets as necessary. See ITP TZC 0033 for mudline elevation.)

C1.1 Cofferdam Information (complete for each pile, circle NA if no	Pier No.:		NA					
(CP) Confirm 2-ft min separation between pump and mu	Initial Here	Mudli	ne elevation:	ft				
Discharge hose 3-4 ft below surface (circle one)		Pump elevation:						
C1.2. Water Quality								
Turbidity observed resulting in a substantial visible contra	Y	N						
If Yes, immediately notify ECT and take corrective action			Time Notified (hh:mm):					
Sheen or Spill Observed		Y	N					
If Yes, immediately notify ECT and take corrective action		Persons No	tified:				Time Notified (hh:mm):	
SE (Complete D1 and D2 for each cofferda		. EXCAVA				son befor	e work progresses.	
D1.1 Cofferdam Information (complete for each cofferdam, circle	NA if not applic	able activity)			Pier No.:		NA	
(CP) Confirm Dredge Environmental Seal in Proper Word	ing Order. (initial)		Initial Here				
Dredge Bucket closed while transiting over Hudson	River		Y	N				
Excavated material only placed in dredge scow If No, immediately notify ECT and take corrective action			Y	N				
D1.2. Water Quality								
Turbidity observed resulting in a substantial visible contra	ast outside	of cofferdam	(circle):		Y	N		
If Yes, immediately notify ECT and take corrective action		Persons No	otified:				Time Notified (hh:mm):	
Sheen or Spill Observed		•			Y	N		
If Yes, immediately notify ECT and take corrective action		Persons No	tified:				Time Notified (hh:mm):	
Comments								

PILE CLEAN-OUT ENVIRONMENTAL CHECKLIST

INSTRUCTIONS: Complete Section A for all work. Complete Sections B-C as work progresses for those activites.

CHECK POINTS (CP) must be initialed by responsible person before work progresses. Return completed form at end of shift.

Date (mm/dd/yy):	Barge:			Superinte	ndent:				
	SEC	TION A. I	BARGE A	CTIVITY INFORMA	ATION				
A1. Activity Information (circle one):	B. Dewate	ering C. E	xcavation						
Pier No(s).: Pile Dia(s).	:		Start Time	::		End Time:			
A2. Spill Prevention (circle NA if not applicable to da	aily barge activi	ity)							
(CP) Spill Kit and SPCC Plan onboard (confirm	spill kit conten	t list is stocked,	circle and initia	al)				Υ	Initial Here
A3. Peregrine Falcon Protection (circle NA if no	t applicable to	barge activity)					•		•
Checkerboard flag installed at top of cranes							Υ	N	NA
Checker Board Hag instance at top of cranes		CTION B.	DEWAT	ERING INFORMA	TION		· 1		101
(Complete D1 and D2 for e	_				_	on before w	ork progress	ses.	
Use	additional	sheets as n	ecessary. S	See ITP TZC 0033 for m	nudline eleva	ation.)			
B1.1 Pile Information (complete for each pile, circle	NA if not appl	licable barge ac	ctivity)		Pier No.:		Pile No.:		NA
(CP) Confirm 2-ft min separation between p	oump and r	nudline ele	V. (initial)	1	Initial Here	Mudline	elevation:		ft
Discharge hose 3-4 ft below surface (circle on	e)	Y	N			Pump	elevation:		ft
B2.1 Water Quality									
Turbidity observed resulting in a substantial	visible con	trast >500	-ft from pile	e (circle):				Υ	N
If Yes, immediately notify ECT and take corre	ective action	on		Persons Notified:			Time Notifie	d:	-
B1.2 Pile Information (complete for each pile, circle	• • • • • • • • • • • • • • • • • • • •		••	Pier No.:			Pile No.:		NA fi
(CP) Confirm 2-ft min separation between p			1	<u> </u>	Initial Here		elevation:		ft
Discharge hose 3-4 ft below surface (circle on	e)	Y	N			Pump	elevation:		ft
B2.2 Water Quality			6.6 11					.,	T
Turbidity observed resulting in a substantial	visible con	itrast >500	-ft from pile					Y	N
If Yes, immediately notify ECT and take corre	ective actio	on		Persons Notified:			Time Notifie	d:	
B1.3 Pile Information (complete for each pile, circle	NA if not appl	licable barge ac	tivity)	Pier No.:			Pile No.:		NA
(CP) Confirm 2-ft min separation between p	ump and r	nudline ele	V. (initial)		Initial Here	Mudline	elevation:		ft
Discharge hose 3-4 ft below surface (circle one	e)	Y	N			Pump	elevation:		ft
B2.3 Water Quality		ı	•						
Turbidity observed resulting in a substantial	visible con	trast >500	-ft from pile	e (circle):				Y	N
If Yes, immediately notify ECT and take corre				Persons Notified:				_	1
				r ersons rrouncus					
B1.4 Pile Information (complete for each pile, circle	NA if not appl	licable barge ac	tivity)	Pier No.:			Pile No.:		NA
(CP) Confirm 2-ft min separation between p	oump and r	nudline ele	V. (initial)		Initial Here	Mudline	elevation:		ft
Discharge hose 3-4 ft below surface (circle one	e)	Y	N			Pump	elevation:		ft
B2.4 Water Quality									
Turbidity observed resulting in a substantial	visible con	trast >500	-ft from pile	e (circle):				Υ	N
If Yes, immediately notify ECT and take corr	ective action	on		Persons Notified:			Time Notifie	d:	
B1.5 Pile Information (complete for each pile, circle	NA 16 A	Uzakia kasasa		Pier No.:			Pile No.:		NA
(CP) Confirm 2-ft min separation between p				FIEL NO.	Initial Here		elevation:		ft
Discharge hose 3-4 ft below surface (circle on	•	Y	N		THE COLUMN TO TH		elevation:		ft
B2.5 Water Quality	-,	<u> </u>		1		i unip	CICTURION.		11
· ·	vicible con	tract \EOO	ft from nil	O (circle).				Y	N
Turbidity observed resulting in a substantial			-it from pile	1			Time a Ministra		N
If Yes, immediately notify ECT and take corre	ective actio	ori		Persons Notified:			Time Notifie	u:	
Namo			Signatura						

(by signing I certify I have performed the above checks and believe them to be accurate)

(print)

NA

Environmental Compliance Team Contacts

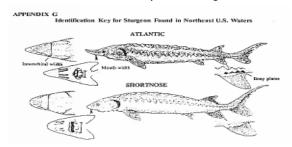
(contact in order shown until someone is reached)

(**************************************										
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2. Jefferey Kapus	646-823-4685									
3. Christopher Coccaro	914-907-2024									
4. Mike Ortler	917-907-1107									
5. Noemi Santiago	917-887-3670									

C1.1 Pile Information (complete for each pile, circle NA if not applicable barge activity)

Examples of a Sturgeon

Pile No.:



Pier No.:

SECTION C. EXCAVATION INFORMATION

(Complete D1 and D2 for each pile. **Check Points (CP)** must be initialed by responsible person before work progresses.

Use additional sheets as necessary.)

C2.1 Water Quality				
Turbidity observed resulting in a substantial visible contrast >500-ft from p	ile (circle):		Υ	N
If Yes, immediately notify ECT and take corrective action	Persons Notified:	Time Notifie	d:	
Excavated material placed into Hudson River (circle):			Υ	N
C1.2 Pile Information (complete for each pile, circle NA if not applicable barge activity) C2.2 Water Quality	Pier No.:	Pile No.:		NA
Turbidity observed resulting in a substantial visible contrast >500-ft from p	ile (circle):		Υ	N
If Yes, immediately notify ECT and take corrective action	Persons Notified:	Time Notifie	d:	
Excavated material placed into Hudson River (circle):	•		Υ	N
C1.3 Pile Information (complete for each pile, circle NA if not applicable barge activity) C2.3 Water Quality	Pier No.:	Pile No.:		NA
Turbidity observed resulting in a substantial visible contrast >500-ft from p	ile (circle):		Υ	N
If Yes, immediately notify ECT and take corrective action	Persons Notified:	Time Notifie	d:	
Excavated material placed into Hudson River (circle):			Υ	N
C1.4 Pile Information (complete for each pile, circle NA if not applicable barge activity) C2.4 Water Quality	Pier No.:	Pile No.:		NA
Turbidity observed resulting in a substantial visible contrast >500-ft from p	ile (circle):		Υ	N
If Yes, immediately notify ECT and take corrective action	Persons Notified:	Time Notifie	d:	
Excavated material placed into Hudson River (circle):	<u> </u>		Υ	N
C1.5 Pile Information (complete for each pile, circle NA if not applicable barge activity) C2.5 Water Quality	Pier No.:	Pile No.:		NA
Turbidity observed resulting in a substantial visible contrast >500-ft from p	ile (circle):		Υ	N
If Yes, immediately notify ECT and take corrective action	Persons Notified:	Time Notifie	d:	
Excavated material placed into Hudson River (circle):	•		Υ	N
C1.6 Pile Information (complete for each pile, circle NA if not applicable barge activity) C2.6 Water Quality	Pier No.:	Pile No.:		NA
Turbidity observed resulting in a substantial visible contrast >500-ft from p	ile (circle):		Υ	N
If Yes, immediately notify ECT and take corrective action	Persons Notified:	Time Notifie	d:	
Excavated material placed into Hudson River (circle):			Υ	N



Environmental Compliance Field Report

	Observer:			Location	<u>: </u>				_			
	Date:		Day: Time:									
CONSTRUCTORS, LLC	Work Obse	rved:										
			Monte Donf	iouse and im Co		1						
Compliar	rce Plan		work Peri	formed in Co Yes/No	impliance:			(Comments:			
Compilar	icc i iaii.			103/110		Comments.						
Land Compliance Plan (Check List:	Place yes	or no in box.	If activity is	not occurrir	ng select N	A					
					Airborne	Materials	Non-Sticker	Vehicle				
Location	Inspected	Stock Piles Covered	SWPP BMPs Effective	Evidence of Spill Present	Dust Observed	Labeled Properly	Equipment used	Tracking Observed	Comments			
Interchange 10												
Rockland Bulkhead												
River Road &												
Maintenance Ramps												
Interchange 12												
Westchester Landing												
Hudson Harbor												
Tomkins Cove												
Other												
General Notes:												
Environmental Actions	Taken:											



Environmental Compliance Field Report

Observer:		Location:		
Date:	Day:	Time:	Weather:	
Work Obse	rved:			
	•			

Compliance Plan:			Work Performed in Compliance: Yes/No			Comments:										
Marine Cor	nplia	nce Plar	n Che	ck List:		Place yes	or no in bo	activity	activity is not occurring select NA							
Operation		Inspect	ted	Pier	Sub. Contrast Observed	Boom in Place	Sheen Observed	Spill Stoc		SPCC Plan Site	Sturgeon Observed		Flag on Crane		Stickers on Operating Equipment	Comments
Dredging																
Pile Driving																
Armoring																
Pile Dewater	ring															
Cofferdam Dewatering																
Concreting																
Pile Driving	, Acti	vity Che	ck Lis	st:												
Pier	PD S	Start e	Pile Num	bers	NAS Operating During PD	Boom in Ring psi Place Within Specs		ecs	Cables Taut	Cables Number Taut Shroud S						Comments
General No	tes:															
Environmental Actions Taken:																

WATER QUALITY MONITORING PLAN: VISUAL INSPECTION FORM New NY Bridge Project

TAPPAN ZEE CONSTRUCTORS, LLC

(24-Hr)	(24-Hr)	Observed?	Observation	Notification	Boom in Place?	(Flood / Ebb
ring/Cofferdam Con	estruction/Cofferda	am De-watering/Im	unact Pile Driving/Vi	ihratory Pile Drivir	g/Pile Extraction/Pi	ile De-
			ipact i lie brivilig/ vi	ibratory r lie brivii	g/i lie Extraction/i i	ie be-
(Include file nun	nber of any photo	ographs)				
			/Cofferdam Construction/Cofferdam De-watering/Im			/Cofferdam Construction/Cofferdam De-watering/Impact Pile Driving/Vibratory Pile Driving/Pile Extraction/Pinclude file number of any photographs)