

Water Quality Monitoring Plan Annual Monitoring Report 2016 Monitoring Activities for the New NY Bridge Project

> Revision 0 February 15, 2017

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Document History										
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#### TAPPAN ZEE CONSTRUCTORS, LLC

### **1.0 Introduction**

This report summarizes the results of water quality monitoring in 2016 for the following operations:

- Cofferdam reprofiling
- Barge decanting
- Drilled shafts decanting
- Drilled shafts turbidity observed

This report summarizes the visual observations of turbidity for activities listed below in accordance with New York State Department of Environmental Conservation (NYSDEC) Permit DEC ID 3-9903-00043/00013 (Permit) Condition 65.

- Cofferdam dewatering
- Cofferdam reprofiling
- Concrete placement
- Drilled shafts; excavation and rock drilling
- Drilled shafts decanting
- General construction
- Barge decanting
- Pile dewatering
- Pile excavations
- Production pile driving outside zone C

#### **1.1 Permit Modifications**

The New York State Thruway Authority (NYSTA) and Tappan Zee Constructors, LLC (TZC) did not receive any modifications to the NYSDEC Permit Conditions 59 through 67 during 2016.

#### 1.1 Plan Revisions

The Water Quality Monitoring Plan (WQMP) was revised twice in 2016.

Revision 7 of the WQMP was approved by NYSDEC on June 14, 2016.

Revision 8 of the WQMP was provided to NYSDEC for review and comment on October 14, 2016. As of the date of this report, comments have not been provided.

#### 2.0 Monitored Construction Activities

The following construction activities were monitored by TZC in 2016 per the Water Quality Monitoring Plan.

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### 2.1 Cofferdam Reprofiling

Cofferdam Reprofiling commenced on March 24, 2016 and was completed on May 20, 2016. Cofferdam dewatering was performed by TZC using a barge mounted excavator to displace sediment in preparation for the installation of floating cofferdams

A turbidity curtain was in place surrounding the work area.

#### 2.2 Production Pile Driving Outside of Zone C

Production Pile Driving outside of Zone C (pile driving outside zone C) previously took place in 2013, 2014, and 2015. In 2016, pile driving outside zone C commenced on April 14, 2016 and was completed on October 4, 2016. Pile driving performed by TZC was scheduled to occur intermittently between 7AM to 7PM from Monday through Friday and from 12PM to 7PM on Saturday during this period, with the exception of piles at which were approved to commence as early as 5AM on April 30, 2016. Pile driving performed by Trevcon Construction Company (TCC) was scheduled to occur intermittently between 8AM and 5PM from Monday through Friday.

this period. Pile driving was performed by TZC and TCC using barge or trestle based cranes.

#### 2.3 Concrete Placement

#### 2.3.1 Tremie Concrete

Tremie concrete was previously placed in 2014 and 2015. In 2016, tremie concrete placement commenced on May 13, 2016, and continued through the end of the year. TZC placed tremie concrete in the annular space between the piles and floating cofferdam

. TCC placed tremie concrete in the annular space between piles and the high density polyethylene (HDPE) sleeves surrounding the piles \_\_\_\_\_\_. Case Foundation Company (CFC) placed tremie concrete in the \_\_\_\_\_\_ rock sockets and \_\_\_\_\_\_ diameter shafts \_\_\_\_\_\_. The placement of tremie concrete was monitored for observations of turbidity extending outside of the pile sleeve or cofferdam during the pour.

#### 2.3.2 Non-Tremie Concrete

#### 2.4 Drilled Shafts: Shaft Excavation, Rock Drilling, Decanting

Drilled Shaft operations were conducted by Case Foundation Company (CFC) and TCC as subcontractors to TZC. CFC and TCC performed all activities related to the drilled shafts operations respectively.

Drilled Shaft excavation commenced on June 21, 2016 and continued intermittently through the end of the year. A crane mounted auger was used to excavate the overburden in the shafts. Rock drilling commenced on September 01, 2016 and continued intermittently through the end of the year. The drill cuttings were discharged into a scow or a water tight roll off container for the triver within a turbidity curtain. Decanting was performed using both submersible and suction pumps. Drilled shaft decanting commenced on September 8, 2016 and continued intermittently through the end of the year.

#### 2.5 Pile Dewatering

Pile dewatering previously took place in 2014 and 2015. Pile dewatering continued in 2016, beginning on July 1, 2016, and was completed on November 3, 2016. Pile dewatering was performed by TZC and TCC using suction and/or hydraulically driven submersible pumps. Pile dewatering occurred

#### 2.6 Pile Excavation

Pile excavation previously took place in 2014 and 2015. Pile excavation continued in 2016, beginning on June 23, 2016, and was completed on November 03, 2016. Pile excavation was performed by TCC and by TZC

. Pile excavation was completed by TZC and TCC using a crane mounted, cableactuated spherical grab or a crane mounted auger.

#### 2.7 Barge Decanting

Barge decanting previously took place in 2015. In 2016, barge decanting commenced and was completed on July 11, 2016. The sediment scow associated with the drilled shaft excavation operation was decanted one time during the operation. A suction pump was used by CFC for this operation in the vicinity of

#### 2.8 Cofferdam Dewatering

Cofferdam dewatering previously took place in 2014 and 2015. Following the installation of the cofferdam on April 13, 2016, cofferdam dewatering occurred as necessary through the end of the year. Cofferdam dewatering took place

. Cofferdam dewatering was performed by TZC and CFC using suction pumps and submersible pumps.

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#### 3.0 Water Quality Monitoring Activities

Water quality monitoring was performed in accordance with the WQMP throughout 2016. Visual observations of activities were conducted and documented by a barge-based or vessel-based observer during the activities identified in Table 1 of the WQMP, Revision 8.

A total of two samples required by the WQMP were missed as described below:

- On September 14, 2016 TZC failed to collect a sample in response to an observation of turbidity outside of the turbidity curtain during rock drilling operations . A sample was not collected because the observed plume of turbidity dissipated before the water quality sampling crew arrived on site. The NYSDEC IOECM was not immediately notified at the time of the incident. A description of the incident and subsequent resolution is contained in NCR-1560.
- On October 19, 2016 TZC failed to collect a sample in response to an observation of turbidity outside of the turbidity curtain during rock drilling operations . A sample was not collected because the observed plume of turbidity dissipated before the water quality sampling crew arrived on site. The NYSDEC IOECM was notified at the time of the incident and subsequently notified the NYSDEC.

#### 4.0 Results

Analytical results of whole water quality samples collected for 2016 are summarized in Table 1 and described below. There were no exceedances of the permit standards for dissolved mercury, dissolved nickel, dissolved copper, dissolved lead, dissolved zinc, PCBs, naphthalene, and benzo(a)pyrene. During the 2016 water quality monitoring program, 21 of the 22 samples (95%) collected over 18 sampling events were reported at concentrations below the water quality limits as set forth in NYSDEC Permit Condition 61 (Table 1.)

Construction Activity	No. of Samples	No. of Sample Exceedances	Percent of Samples Under Permit Limits
Cofferdam Reprofiling	3	0	100%
Non-Dredge Barge Decanting	1	0	100%
Drilled Shaft Barge Decanting	15	0	100%
Turbidity Observed: Drilled Shafts	3	1	67%
Total	22	1	95%

 Table 1. Construction Activity Whole Water Sample Exceedances

TZC also monitored construction operations through daily visual monitoring for turbidity that results in a substantial visible contrast to the ambient conditions of the Hudson River. Visual monitoring was documented through environmental checklists, visual inspection forms, and/or field compliance reports. For a summary of where visible turbidity was observed by activity, date, location, and monitoring method see Attachment 5. Table 2 below summarizes the visual monitoring completed for construction operations per the plan.

Construction	No. of	No. of Observations	Percent of Observations
Activity	Observations	with Visible Turbidity <sup>1</sup>	Free of Visible Turbidity <sup>1</sup>
Barge Decanting, Drilled Shaft	14	0	100%
Barge Decanting	1	0	100%
Cofferdam Dewatering	2	0	100%
Cofferdam Reprofiling	2	0	100%
Concreting	413	25	94%
Drilled Shafts <sup>2</sup>	121	6	95%
General Construction <sup>3</sup>	42	3	93%
Pile Dewatering	17	0	100%
Pile Driving Outside Zone C	25	0	100%
Total	637	34	95%

Table 2.	Summary of Visual Monitoring for Turbidity from
	January 1 2016 to December 31 2016

<sup>1</sup>Turbidity observations and compliance monitoring can be found in Table 1 of the WQMP.

<sup>2</sup>Includes casing installation, shaft excavation, and rock drilling.

<sup>3</sup>General construction work includes, but is not limited to, the following activities: pile excavation, formwork, pile splicing, installation of piles under self-weight, power washing of piles, rebar installation, or other above water construction.

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### 4.1 Cofferdam Re-profiling

Attachment 1 provides a summary of samples collected for cofferdam re-profiling. TZC collected three whole water quality samples during two days of monitoring. Water quality results indicate there were no exceedances on the monitored days (Attachment 1). Visual monitoring for turbidity was conducted for each day that cofferdam re-profiling occurred. There were no exceedances of turbidity observed extending beyond the turbidity curtain.

#### 4.2 Barge Decanting

Attachment 2 provides a summary of samples collected for barge decanting. TZC collected one whole water quality sample during one day of monitoring. Water quality results indicate there were no exceedances on monitored days (Attachment 2). Visual monitoring for turbidity was conducted on days that barge decanting occurred. There were no exceedances of turbidity observed extending beyond the turbidity curtain.

#### 4.3 Drilled Shafts

4.3.1 Drilled Shafts, Decanting

Attachment 3 provides a summary of samples collected for decanting related to the drilled shafts operations. TZC collected water quality samples during 12 days of monitoring. Water quality results indicate there were no exceedances on the monitored days (Attachment 3). Visual monitoring for turbidity was conducted for each day that drilled shafts decanting occurred. There were no exceedances of turbidity observed extending beyond the turbidity curtain.

4.3.2 Drilled Shafts: Rock Drilling, Turbidity Observed

Attachment 4 provides a summary of samples collected following the observation of turbidity outside of the turbidity curtain during rock drilling operations. TZC collected three whole water quality samples during three days of monitoring in response to turbidity observations. Water quality results indicate there was one TSS exceedance during rock drilling. Table 3 below provides a summary of the exceedance. Visual monitoring for turbidity was conducted for each day that rock drilling occurred. There were five exceedances of turbidity observed extending beyond the turbidity curtain (Attachment 5).

Date (mm/dd/yy)	Tide Cycle	Sample Depth	Up-current concentration (mg/L)	Down-current concentration <sup>1</sup> (mg/L)
10/21/16	Flood	Mid	41.8	149.0

<sup>1</sup> Permit limit is 100 mg/L above up-current or ambient.

Summary of Cofferdam Re-Profiling Water Quality Monitoring

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#### Cofferdam Re-Profiling Water Quality Monitoring New NY Bridge Project 3/24/2016 - 5/20/2016

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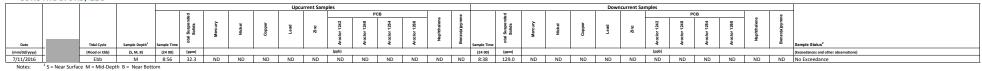
									Upcu	urrent Samp	les											Dowr	current Sa	nples						
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Date		Tidal Cycle	Sample Depth <sup>1</sup>	Sample Time	otal Suspend Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Na phthale ne	Benzo(a)pyrei	Sample Time	otal Suspend Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1264	Aroclor 1260	Na phthalo no	Benzo(a)pyrei	Sample Status <sup>2</sup>
(mm/dd/yyyy)		(Flood or Ebb)	(S, M, B)	(24 00)	(ppm)						(ppb)						(24 00)	(ppm)						(ppb)						(Exceedances and other observations)
(mm/dd/yyyy) 3/24/2016		Flood	S	10:51	40.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10:35	54.7	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	No exceedance
3/24/2016		Flood	В	10:49	52.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10:30	47.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	No exceedance
5/20/2016		Ebb	м	16:23	37.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16:10	36.6	ND	6.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	No exceedance
	S = Near Surfac	e M = Mid-Dept	h B = Near Bott	om																										

<sup>3</sup> Exceedances beso on New York State Department of Environmental Conversation (NYSDEC) Permit Condition 61 of the NYSDEC Permit ID 3-9903-00043/00013 Upcurrent samples collected at a location upcurrent of the source where water quality effects of the project are no longer discernible Downcurrent samples collected as close to turbidity curtain as practicable ND = Not Detected

Summary of Barge Decanting Water Quality Monitoring

# Barge Decanting Water Quality Monitoring New NY Bridge Project 07/11/2016 -07/11/2016

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<sup>3</sup> Exceedances as on New York State Department of Environmental Conversation (NYSDEC) Permit Condition 61 of the NYSDEC Permit ID 3-9903-00043/00013 Upcurrent samples collected at a location upcurrent of the source where water quality effects of the project are no longer discernible Downcurrent samples collected as close to turbidity curtain as practicable ND = Not Detected

Summary of Drilled Shaft Water Quality Monitoring

#### Drilled Shaft Decanting Water Quality Monitoring New NY Bridge Project 9/08/2016 - 12/22/2016

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|          |                | Flood<br>Flood<br>Ebb<br>Flood<br>Ebb<br>Ebb<br>Flood<br>Flood<br>Flood | T dal (orde Sample Depth) <sup>1</sup><br>(Hood or Hbi)<br>Ebb M<br>Flood M<br>Flood M<br>Flood M<br>Flood M<br>Flood M<br>Flood M<br>Flood M<br>Flood S<br>Flood S | Tdi cyck         sample Tegh         sample Tegh           (Rood of Ebb)         (5, M, 8)         (2.60)           Ebb         M         7:55           Flood         M         7:55           Flood         M         7:53           Flood         M         7:38           Flood         M         7:38           Flood         M         7:38           Flood         M         7:38           Flood         S         8:12           Flood         S         10:59           Flood         B         10:56           Ebb         M         7:36           Ebb         M         7:36 | Tdi Cjcke         sample Topulo         sample Topulo           (Reod er bks)         (k, M, B)         (24 fbr)         (50 fbr)           Ebb         M         7:55         27.5           Flood         M         7:53         21.0           Flood         M         9:15         34.5           Flood         M         7:38         15.5           Flood         S         8:12         118.0           Ebb         S         8:12         118.0           Flood         S         8:12         7.5           Flood         S         10:59         38.8           Flood         S         10:56         43.5           Ebb         M         7:36         58.8           Ebb         M         8:35         27.0 | Tád Cycle         Sample Reget         Eangle Time         Eangle Time | Test System         Sample Depth*         Sample Test         Test Sample Depth*         Sample Test         Sample Test </td <td>Tail Cycle         Sample Depth*         Sample Time         Figure 1         Figure 2         Figure 2<td>Tail Octo         Sample Degréf         Sample Degréf         Sample Degréf         Sample Turbo         Sample Turbo&lt;</td><td>Tell         Sample Degistric         Sample Degistric</td><td>Upcurrent Sample Tene           Teil Cycle         Sample Rogen         Sampl</td><td>Upcurrent Samples           Teid Cycle         Sample Depah         Sample De</td><td>Tail Cycle:         Sample Degath         Sample Time         Upgurment Sample         Upgurment Sample           Tail Cycle:         Sample Degath         Sample Time         Image         Image</td><td>Tail Code         Sample Depth*         Sample Depth</td><td>Upcurrent Sample Term           Tell Cycle         Sample Royalh         Sam</td><td>Upcurrent Samples           Teld Cycle:         Sample Degah         Sample Time         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P         P      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Upcurrent Sample Tree         Upcurent Sample Tree<!--</td--><td>Upcurvet Sample Surget         Upcurvet Sample Surget         Sample Surget&lt;</td><td>Image: constraint of the same base in the same base</td><td>Image: conder brage:         sample brage:         s</td><td>Image: how how how how how how how how how how</td><td>Image: constraint of the sample base         Image: constraint of the</td><td>Image: how bound         Sample how how how how how how how how how how</td><td>Image: branch         Sample hough         sample hough</td><td>Image: brance         Image: brance         Image:</td></td></th<></td></td> | Tail Cycle         Sample Depth*         Sample Time         Figure 1         Figure 2         Figure 2 <td>Tail Octo         Sample Degréf         Sample Degréf         Sample Degréf         Sample Turbo         Sample Turbo&lt;</td> <td>Tell         Sample Degistric         Sample Degistric</td> <td>Upcurrent Sample Tene           Teil Cycle         Sample Rogen     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Notes: <sup>1</sup>S = Near Surface M = Mid-Depth B = Near Bottom

<sup>2</sup> Exceedances based on New York State Department of Environmental Conversation (NYSDEC) Permit Condition 61 of the NYSDEC Permit ID 3-9903-00043/00013

\*Exceedances based on New York State Department of Environmential Conversation (NYSDEC) Permit Condition 6 of of the NYSDEC Permit "Dycurrent (amplies) concentrations exceeds the Water Quality Standard Downcurrent concentration is less than 30% over background. Upcurrent samples collected at a location upcurrent of the source where water quality effects of the project are no longer discernible Downcurrent samples collected as a location upcurrent of the source where water quality effects of the project are no longer discernible Downcurrent samples collected as close to turbidity curtain as practicable ND = Not Detected RPMP- Rockland Permanent Maintenance Platform a=Data not available due to equipment malfunction

Summary of Drilled Shafts Turbidity Observed Water Quality Monitoring

# Drilled Shafts Turbidity Observed Water Quality Monitoring New NY Bridge Project 09/14/2016 -10/27/2016

#### TAPPAN ZEE

									Upc	urrent Sam	ples											Down	ncurrent Sa	mples						
					bed							P	СВ		_	5		led							PC	в		_	ę	
Date		Tidal Cycle	Sample Depth <sup>1</sup>	Sample T me	otal Suspend Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Naphthalene	Benzo(a)pyre	Sample Time	otal Suspend Solids	Mercury	Nickel	Copper	Lead	Zinc	Aroclor 1242	Aroclor 1248	Arocior 1254	Aroclor 1260	Naphthalonc	Benzo(a)pyre	Sample Status <sup>1</sup>
mm/dd/yyyy)		(Flood or Ebb)	(S, M, B)	(24 00)	(ppm)						(ppb)						(24 00)	(ppm)						(ppb)						(Exceedances and other observations)
0/20/2016		Flood	M	13:10	8.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12:59	8.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	No Exceedance. Sample collected from barge approximately 5 feet from curtain.
																														Upcurrent TSS 41.8 ppm 149.0 ppm is an exceedance. Sample collected from barge
0/21/2016		Flood	M	10:00	41.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9:43	149.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	approximately 5 feet from curtain.
0/27/2016		Flood	м	10:00	45.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9:45	50.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	No Exceedance. Sample collected from barge approximately 5 feet from curtain.
Notes:	S = Near Surface	e M = Mid-Dept	h B = Near Bott	om																										
-	<sup>2</sup> Exceedances ba	ased on New Yor	k State Departme	ent of Envir	onmental C	onversation	n (NYSDEC)	Permit Co	ndition 61 d	f the NYSD	EC Permit II	D 3-9903-00	043/00013																	
			location upcurre																											
			as close to turbidi																											
	ND = Not Detecte																													

Summary of Visual Observations of Turbidity

# Summary of Visual Turbidity Observations 01/01/2016-12/31/2016

## TAPPAN ZEE CONSTRUCTORS, LLC

		Inspection	Inspection End	
Activity	Date	Start Time <sup>1</sup>	Time <sup>1</sup>	Inspection Meth
Concreting	2016-01-15	08:00	16:00	FCI, ENV CL
Concreting	2016-02-22	06:00	16:00	FCI, ENV CL
Concreting	2016-04-08	12:00	13:00	FCI
Concreting	2016-04-21	06:30	13:15	FCI, ENV CL
Concreting	2016-05-13	08:15	16:05	FCI
Concreting	2016-07-06	07:00	13:00	FCI
Concreting	2016-07-12	07:45	13:45	FCI
Concreting	2016-07-28	10:05	10:50	FCI
Concreting	2016-08-04	07:30	13:30	FCI, ENV CL
Concreting	2016-08-04	07:45	13:24	FCI
Concreting	2016-08-15	08:00	12:00	FCI
Concreting	2016-08-16	NP	NP	ENV CL
Concreting	2016-08-18	07:35	13:30	FCI
Concreting	2016-08-23	07:30	15:00	FCI
Concreting	2016-08-25	07:25	14:00	FCI
Concreting	2016-08-26	07:00	14:00	FCI, ENV CL
Concreting	2016-09-12	10:00	17:00	FCI, ENV CL
Concreting	2016-09-27	07:00	16:00	FCI
Concreting	2016-10-11	07:00	18:00	FCI
Concreting	2016-10-18	08:00	17:00	FCI
Concreting	2016-10-19	08:00	16:00	FCI
Concreting	2016-10-29	07:00	15:00	FCI
Concreting	2016-11-02	07:00	14:00	FCI, ENV CL
Concreting	2016-11-28	07:00	13:00	FCI, ENV CL
Concreting	2016-08-17	08:45	13:40	FCI
Drilled Shafts	2016-09-01	07:30	15:00	ENV CL
Drilled Shafts	2016-09-14	NP	NP	ENV CL
Drilled Shafts	2016-10-19	14:50	15:00	FCI
Drilled Shafts	2016-10-20	12:50	13:20	FCI
Drilled Shafts	2016-10-21	09:43	10:00	FCI, ENV CL
Drilled Shafts	2016-10-27	09:45	10:00	FCI
General Construction	2016-02-05	08:00	13:15	FCI
General Construction	2016-08-04	07:45	13:24	FCI
General Construction	2016-08-24	09:23	09:50	FCI

Notes:

<sup>1</sup> NP= Not Provided on Environmental Checklist

<sup>2</sup> ENV CL= Environmental Checklist FCI = Field Compliance Inspection

# The New NY Bridge Project



	Sumi	mary of Visua	l Turbidity – I	OECM Observations - 2016
Activity	Date	Inspection Start Time	Inspection End Time	Notes
Concreting	2016-07-14	14:28	15:52	Overhead Sign Structure (OHSS) pour. The form extended out over the water and the crew tried to place the rake of the scow underneath the form to catch any concrete that might escape the form. However, there was a gap between the scow and the pile cap. Concrete fell from the form into the gap, causing 2-3 cups of concrete to enter the River and causing a turbidity plume of approximately 1' by 2'. Issue resolved immediately.
Concreting	2016-10-28	10:20	12:10	Concrete barrier pour. Release of an unknown volume of concrete to the river at around 11:19 AM. It led to a plume of about 3' by 3' in the river NCR 1724 issued
Concreting	2016-12-07	10:25	16:00	TZC was pouring concrete at a stem pour . A small amount of concrete impacted water leaked into the river.
General Construction	2016-07-20	11:00		IOECM observed turbidity in the river caused by the discharge of excavated sediment during pile excavation activities NCR 1388 issued
General Construction	2016-09-19	8:30		Discharge of accumulated river water within the floating cofferdam caused visual contrast to natural conditions in the River extending outside of the turbidity curtain NCR 1542 issued
Soil Boring	2016-10-13	9:30	11:25	Soil boring activities taking place caused potential substantial visual contrast to natural conditions. NCR Pending