



**Stantec**

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September 08, 2011  
File: 121410955.225

Sydney Tar Ponds Agency  
1 Inglis Street  
PO Box 1028, Stn. A  
Sydney, NS B1P 6J7

**Attention: Ms. Diane Ingraham, PhD., PMP, Quality Contracts Manager**

Dear Ms. Ingraham:

**Reference: STPA Project Element TP6A – Flow Diversion  
Independent Quality Assurance (IQAC) July 2011 Monthly Summary Report**

At the request of Sydney Tar Ponds Agency (STPA), Stantec Consulting Ltd (Stantec) has completed the following quality assurance inspection/testing services and meetings in accordance with project requirements at the above mentioned site between July 1 and July 31, 2011:

- Project Item PM-01: Four daily field reports.
- Project Item PM-02: One monthly QA report (July 2011) completed in the month of September 2011.
- Project Item PM-04: Two site meetings were attended in the month of July 2011. .
- Project Item PM-05: Other meetings and frequent opinions were provided in the month of July 2011.
- Project Item QCP-02: Submittal reviews (Contractor's July 2011 QC report including daily/test reports).
- Project Item ENV-T-01: One noise monitoring event. Noise levels were within the specified limits.
- Project Item ENV-T-02: Four surface water (turbidity) sampling events. All measurements recorded were within the acceptable range.

We trust this information meets your present requirements. If you have any questions, please do not hesitate to contact us.



Sincerely,

**STANTEC CONSULTING LTD**



Rabi Morelly, M.Sc., P.Eng.  
Geotechnical and Materials Quality Lead  
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Willie McNeil, B.Tech. (Env.), CET  
Project Manager  
willie.mcneil@stantec.com



**STPA PROJECT ELEMENT TP6A: FLOW DIVERSION  
IQAC SITE TESTING SUMMARY**

<b>Date:</b>	June 29, 2011	<b>IQAC On-Site Rep:</b>	Enzo Poloni
<b>Relevant Project Specification(s)</b>	Environmental Quality Assurance	<b>Relevant Project Specification(s) No.</b>	QA-EPP Project No. 121410955.225
<b>IQAC Item No(s) / Descriptions</b>	ENV-T-02	<b>Time On-Site:</b>	1115
<b>Weather:</b>	Sunny, 15°C		
<b>Area Tested/Inspected:</b>	TP6A Narrows at North Pond		
<b>Inspection / Testing Summary</b>			
<p>Stantec arrived on site at 11:15am for turbidity sampling by boat at the Narrows. Met with QC EM (Joel MacLeod) and 2 laborers on site at 11:22am. On site activities included maintaining and monitoring pump system. No intrusive work noted by QC.</p> <p>Sampling completed by 11:30am and QA off site at 11:46am.</p> <p>Samples analyzed at Stantec lab.</p>			
<b>Sample #</b>	<b>GPS Co-ordinates (NAD 83 – Northing/Easting)</b>	<b>General Site Description</b>	<b>Sample Results (NTU)</b>
1	460 0543 511 3107	West Side at Narrows beyond silt curtains	1.11
2	460 0562 511 3141	East Side at Narrows beyond silt curtains	1.28
<p>As stated in the Environmental Protection Plan – <i>“The upper level criteria defined as a reportable event for turbidity will be 110% of background, when background (upstream sample location) is greater than or equal to 80 Nephelometric Turbidity Units (NTU). When background is less than 80NTU, a reportable event will be greater than an increase of 8NTU above background”</i></p> <p>It has been reported to QA, that a background level of 7.39NTU is acceptable to use on element TP6A. As such, a reportable event would be a concentration downstream greater than 15.39 NTU.</p> <p><i>Turbidity values recorded above are within acceptable levels.</i></p>			
<b>IQAC Review and Acceptance</b>			
<b>IQAC On-Site Rep (Sign/Print/Date):</b>	 /Enzo Poloni, B.Tech. (Env)	<b>IQAC Management Review (Sign/Print/Date):</b>	 /Tanya MacDonald, B.Tech.(Env), ASCT
	June 15, 2011		June 16, 2011



**STPA PROJECT ELEMENT TP6A: FLOW DIVERSION  
IQAC SITE TESTING SUMMARY**

<b>Date:</b>	July 6, 2011	<b>IQAC On-Site Rep:</b>	Enzo Poloni
<b>Relevant Project Specification(s)</b>	Environmental Quality Assurance	<b>Relevant Project Specification(s) No.</b>	QA-EPP Project No. 121410955.225
<b>IQAC Item No(s) / Descriptions</b>	ENV-T-02	<b>Time On-Site:</b>	1120
<b>Weather:</b>	Sunny, 24°C		
<b>Area Tested/Inspected:</b>	TP6A Narrows at North Pond		
<b>Inspection / Testing Summary</b>			
<p>Stantec arrived on site at 11:20am for turbidity sampling by boat at the Narrows. Met with QC EM (Joel MacLeod) and 2 laborers on site at 11:25am. On site activities included maintaining and monitoring pump system. No intrusive work noted by QC.</p> <p>Sampling completed by 11:37am and QA off site at 11:50am.</p> <p>Samples analyzed at Stantec lab.</p>			
<b>Sample #</b>	<b>GPS Co-ordinates (NAD 83 – Northing/Easting)</b>	<b>General Site Description</b>	<b>Sample Results (NTU)</b>
1	460 0547 511 3126	West Side at Narrows beyond silt curtains	1.21
2	460 0570 511 3163	East Side at Narrows beyond silt curtains	1.07
<p>As stated in the Environmental Protection Plan – <i>“The upper level criteria defined as a reportable event for turbidity will be 110% of background, when background (upstream sample location) is greater than or equal to 80 Nephelometric Turbidity Units (NTU). When background is less than 80NTU, a reportable event will be greater than an increase of 8NTU above background”</i></p> <p>It has been reported to QA, that a background level of 7.39NTU is acceptable to use on element TP6A. As such, a reportable event would be a concentration downstream greater than 15.39 NTU.</p> <p><i>Turbidity values recorded above are within acceptable levels.</i></p>			
<b>IQAC Review and Acceptance</b>			
<b>IQAC On-Site Rep (Sign/Print/Date):</b>	 /Enzo Poloni, B.Tech. (Env)	<b>IQAC Management Review (Sign/Print/Date):</b>	 /Tanya MacDonald, B.Tech.(Env), ASCT
	July 6, 2011		July 7, 2011



**STPA PROJECT ELEMENT TP6A: FLOW DIVERSION  
IQAC SITE TESTING SUMMARY**

<b>Date:</b>	July 13, 2011	<b>IQAC On-Site Rep:</b>	Enzo Poloni
<b>Relevant Project Specification(s)</b>	Environmental Quality Assurance	<b>Relevant Project Specification(s) No.</b>	QA-EPP Project No. 121410955.225
<b>IQAC Item No(s) / Descriptions</b>	ENV-T-02	<b>Time On-Site:</b>	0720
<b>Weather:</b>	Sunny, 16°C		
<b>Area Tested/Inspected:</b>	TP6A Narrows East/West North Pond		
<b>Inspection / Testing Summary</b>			
<p>Stantec arrived on site at 07:20am for turbidity sampling by boat at the Narrows. Met Joel MacLeod and 2 laborers onsite at 7:26am and began sampling immediately. QC/Contractor noted no major activities or intrusive work being undertaken onsite.</p> <p>Sampling completed by 07:26am and QA off site at 8:00am.</p> <p>Samples analyzed at Stantec lab.</p>			
<b>Sample #</b>	<b>GPS Co-ordinates (NAD 83 – Northing/Easting)</b>	<b>General Site Description</b>	<b>Sample Results (NTU)</b>
1	460 0532 511 3113	West Side	1.80
2	460 0548 511 3172	East Side	2.10
<p>As stated in the Environmental Protection Plan – <i>“The upper level criteria defined as a reportable event for turbidity will be 110% of background, when background (upstream sample location) is greater than or equal to 80 Nephelometric Turbidity Units (NTU). When background is less than 80NTU, a reportable event will be greater than an increase of 8NTU above background”</i></p> <p>It has been reported to QA, that a background level of 7.39NTU is acceptable to use on element TP6A. As such, a reportable event would be a concentration downstream greater than 15.39 NTU.</p> <p><i>Turbidity values recorded above are within acceptable levels.</i></p>			
<b>IQAC Review and Acceptance</b>			
<b>IQAC On-Site Rep (Sign/Print/Date):</b>	 /Enzo Poloni, B.Tech. (Env)	<b>IQAC Management Review (Sign/Print/Date):</b>	 /Tanya MacDonald, B.Tech.(Env), ASCT
	July 13, 2011		July 14, 2011

**STPA PROJECT ELEMENT TP6A: FLOW DIVERSION  
IQAC SITE TESTING SUMMARY**

<b>Date:</b>	July 20, 2011	<b>IQAC On-Site Rep:</b>	Enzo Poloni
<b>Relevant Project Specification(s)</b>	Environmental Quality Assurance	<b>Relevant Project Specification(s) No.</b>	QA-EPP Project No. 121410955.225
<b>IQAC Item No(s) / Descriptions</b>	ENV-T-02	<b>Time On-Site:</b>	1120
<b>Weather:</b>	Sunny, 18°C		
<b>Area Tested/Inspected:</b>	TP6A Narrows East/West North Pond		
<b>Inspection / Testing Summary</b>			
<p>Stantec arrived on site at 11:20am for turbidity sampling at the Narrows. Sampling began and completed by 11:40am. Activities on site included extracting former cut-off wall sheet piles and pump deficiencies. Sampling completed by 11:40am and QA off site at 11:52am. Samples analyzed at Stantec lab.</p>			
<b>Sample #</b>	<b>GPS Co-ordinates (NAD 83 – Northing/Easting)</b>	<b>General Site Description</b>	<b>Sample Results (NTU)</b>
1	460 0532 511 3113	West Side	1.06
2	460 0548 511 3172	East Side	1.28
<p>As stated in the Environmental Protection Plan – <i>“The upper level criteria defined as a reportable event for turbidity will be 110% of background, when background (upstream sample location) is greater than or equal to 80 Nephelometric Turbidity Units (NTU). When background is less than 80NTU, a reportable event will be greater than an increase of 8NTU above background”</i></p> <p>It has been reported to QA, that a background level of 7.39NTU is acceptable to use on element TP6A. As such, a reportable event would be a concentration downstream greater than 15.39 NTU.</p> <p><i>Turbidity values recorded above are within acceptable levels.</i></p>			
<b>IQAC Review and Acceptance</b>			
<b>IQAC On-Site Rep (Sign/Print/Date):</b>	 /Enzo Poloni, B.Tech. (Env)	<b>IQAC Management Review (Sign/Print/Date):</b>	 /Tanya MacDonald, B.Tech.(Env), ASCT
	July 20, 2011		July 21, 2011

**STPA PROJECT ELEMENT TP6A: FLOW DIVERSION  
IQAC SITE TESTING SUMMARY**

<b>Date:</b>	July 29, 2011	<b>IQAC On-Site Rep:</b>	Enzo Poloni
<b>Relevant Project Specification(s)</b>	Environmental Quality Assurance	<b>Relevant Project Specification(s) No.</b>	QA-EPP Project No. 121410955.225
<b>IQAC Item No(s) / Descriptions</b>	ENV-T-02	<b>Time On-Site:</b>	0720
<b>Weather:</b>	Sunny, 16°C		
<b>Area Tested/Inspected:</b>	TP6A Narrows East/West North Pond		
<b>Inspection / Testing Summary</b>			
<p>Stantec arrived on site at 07:20am for turbidity sampling at the Narrows. Met Amy Campbell and 2 laborers. Sampling began at 07:28am and completed by 07:37am. QC/Contractor noted site clean up and pump deficiencies being done at the time of sampling.</p> <p>Sampling completed by 07:37am and QA off site at 07:45am.</p> <p>Samples analyzed at Stantec lab.</p>			
<b>Sample #</b>	<b>GPS Co-ordinates (NAD 83 – Northing/Easting)</b>	<b>General Site Description</b>	<b>Sample Results (NTU)</b>
1	460 0556 511 3146	West Side	1.42
2	460 0555 511 3150	East Side	1.59
<p>As stated in the Environmental Protection Plan – <i>“The upper level criteria defined as a reportable event for turbidity will be 110% of background, when background (upstream sample location) is greater than or equal to 80 Nephelometric Turbidity Units (NTU). When background is less than 80NTU, a reportable event will be greater than an increase of 8NTU above background”</i></p> <p>It has been reported to QA, that a background level of 7.39NTU is acceptable to use on element TP6A. As such, a reportable event would be a concentration downstream greater than 15.39 NTU.</p> <p><i>Turbidity values recorded above are within acceptable levels.</i></p>			
<b>IQAC Review and Acceptance</b>			
<b>IQAC On-Site Rep (Sign/Print/Date):</b>	 /Enzo Poloni, B.Tech. (Env)	<b>IQAC Management Review (Sign/Print/Date):</b>	 /Tanya MacDonald, B.Tech.(Env), ASCT
	July 29, 2011		July 30, 2011

**Monthly Noise QA Testing Summary Table**

<b>Contractor:</b>	MBJV	<b>Client:</b>	STPA	<b>Form Number:</b>	TP6A Noise July 2011
<b>Element:</b>	TP6A	<b>Oversight:</b>	AECOM/CBCL	<b>Project:</b>	Remediation of the Tar Ponds and Coke Ovens Sites
<b>Month:</b>	JULY 2011	<b>IQAC:</b>	Stantec		

SPECIFIED REQUIREMENTS					RESULTS							NOTES
Spec Section	Spec Description	Test Type	Standard	QA Frequency	Date Collected	Criteria	QA Sample ID	Sample Location GPS Coordinates NAD 83	QA Test Result	QA Pass/Fail	QA Frequency Met? Y/N	QA
EPP	ENV-T-01	Noise	CBRM Noise By-Law & NSE Criteria	once per month	6-Jul-11	<65 dBA	TP6A-07-06-2011-0810-1015	460 1246 511 2825	61.8 dBA	Pass	Y	Sampling location is at the fenceline near McNally Site trailer at TP2.
EPP	ENV-T-01	Noise	CBRM Noise By-Law & NSE Criteria	once per month	6-Jul-11	<65 dBA	TP6A-07-06-2011-1243-1446	460 1562 511 2492	57.6 dBA	Pass	Y	Sample location is at the Coke Oven Brook. Sample location affected by noise from offsite activities on TP7.
EPP	ENV-T-01	Noise	CBRM Noise By-Law & NSE Criteria	once per month	6-Jul-11	<65 dBA	TP6A-07-06-2011-1025-1228	460 0693 511 3033	61.8 dBA	Pass	Y	Sample location is at the Narrows in North Pond.

Activities onsite at the time of the sampling events include pump maintainancing with solidification/stabilization (S/S) on the North Pond (TP6B) and heavy equipment operations on the West Access Road handling pad.



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**Stantec**

September 9, 2011  
 File: 121410955.225

Sydney Tar Ponds Agency  
 1 Inglis Street  
 PO Box 1028, Stn. A  
 Sydney, NS B1P 6J7

**Attention: Ms. Diane Ingraham, Ph.D., PMP, Quality Contract Manager**

Dear: Ms. Ingraham

**Reference: Environmental Quality Assurance of Quality Control Program  
 Element TP6A, Sydney Tar Ponds Project, Sydney, NS  
 Review of Contractor's July 2011 Quality Control (QC) Report**

At the request of the Sydney Tar Ponds Agency (STPA), Stantec Consulting Limited (Stantec) acting as the project Independent Quality Assurance Consultant (IQAC) has completed a Quality Assurance Review of the Contractor's, MB2/Beaver Marine Joint Venture (MBJV) and their quality control consultant (Exp Services Inc. (exp)), Monthly Quality Control (QC) Report for the month of July 2011 for project element TP6A.

Comments are prepared using a three tier system as requested by the STPA:

- Level 1 - Critical comments which need to be addressed promptly. The IQAC requests responses on any critical comments within one week
- Level 2 - Comments for which a response is required. All comments for which a response is required should be responded to in the form of a written response or by providing the necessary information as requested.
- Level 3 - Comments that would improve the quality of the work but for which the agency need not respond to.

Based on our review of the QC information provided from the referenced period, the IQAC offers the following comment for your consideration:

**ENVIRONMENTAL INSPECTIONS/TESTING**

<p>Level 2</p>	<p><u>Quality Control (QC) and Quality Assurance (QA) Environmental Testing Summary Table</u></p> <p>As stated in the Environmental Protection Plan – <i>"The upper level criteria defined as a reportable event for turbidity will be 110% of background, when background (upstream sample location) is greater than or equal to 80 Nephelometric Turbidity Units (NTU). When background is less than 80NTU, a reportable event will be greater than an increase of 8NTU above background"</i></p> <p>It has been reported to QA, that a background level of 7.39 NTU is acceptable to use on element TP6A. As such, a reportable event would be a concentration downstream greater than 15.39 NTU.</p> <p>The QA review of the QC EILs and the QC/QA Environmental Testing Table has identified a discrepancy in the reporting of the surface water collect from the West Side. The surface water (turbidity) readings on July 16 at 710 (Narrows West) is reported on the EIL as 15.9 NTU, which is greater than the applicable guideline of 15.39 NTU. However, the result for the West sample collected at 0710 is listed as 15.2 NTU on the QC and QA Environmental Testing Summary Table and is listed as a "Pass".</p>
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September 9, 2011

Ms. Diane Ingraham, Ph.D., PMP, Quality Contract Manager

Page 2 of 2

**Reference: Environmental Quality Assurance of Quality Control Program  
Element TP6A, Sydney Tar Ponds Project, Sydney, NS  
Review of Contractor's July 2011 Quality Control (QC) Report**

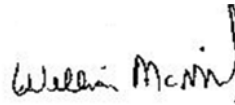
This report covers the quality control aspects for the environmental inspection/testing portions of the project. We trust this information meets your present needs. If you have any questions, or if we can be of further assistance, please do not hesitate to contact us at your convenience.

Sincerely,

**STANTEC CONSULTING LTD**



Tanya MacDonald  
Environmental Manager  
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**Stantec**

September 7, 2011  
File: 121410955.225

Sydney Tar Ponds Agency  
1 Inglis Street  
PO Box 1028, Stn. A  
Sydney, NS B1P 6J7

**Attention: Ms. Diane Ingraham, Ph.D., PMP, Quality Contract Manager**

Dear Ms. Ingraham:

**Reference: Materials and Geotechnical Quality Assurance of Quality Control Program  
Element TP6A, Sydney Tar Ponds Project, Sydney, NS  
Review of Contractor's July 2011 Quality Control (QC) Report**

At the request of the Sydney Tar Ponds Agency (STPA), Stantec Consulting Ltd (Stantec), acting as the project Independent Quality Assurance Consultant (IQAC), has completed a Quality Assurance Review of the Contractor's (MB2/Beaver Joint Venture (MBJV) and their quality control consultant (exp Services Inc. (exp)) Monthly Quality Control (QC) Report for the month of July 2011 for project Element TP6A.

Comments are prepared using a three tier system as requested by the STPA:

Level 1 - Critical comments which need to be addressed promptly. The IQAC requests responses on any critical comments within one week.

Level 2 - Comments for which a response is required. All comments for which a response is required should be responded to in the form of a written response or by providing the necessary information as requested.

Level 3 - Comments that would improve the quality of the work but for which the agency need not respond to.

Based on our review of the QC information provided from the referenced period, the IQAC offers the following comments for your considerations:

**SOILS/CONCRETE/MATERIALS TESTING**

Level 2	Concrete delivery records/tickets for October, November and December 2009 and March, May, June, July and September 2010 placements are still not provided in this monthly report.
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September 7, 2011

Ms. Diane Ingraham, Ph.D., PMP, Quality Contract Manager

Page 2 of 2

**Reference: Materials and Geotechnical Quality Assurance of Quality Control Program  
Element TP6A, Sydney Tar Ponds Project, Sydney, NS  
Review of Contractor's July 2011 Quality Control (QC) Report**

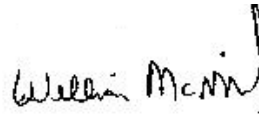
This report covers the quality control aspects for both the geotechnical and concrete/materials portions of the project. We trust this information meets your present needs. If you have any questions, or if we can be of further assistance, please do not hesitate to contact us at your convenience.

Sincerely,

**STANTEC CONSULTING LTD**



Rabi Morelly, M.Sc., P.Eng  
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Project Manager  
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**Quality Control (QC) and Quality Assurance (QA) Testing Summary Table**

Weekly  
 Monthly

From: 26-Jun-11 To: 30-Jul-11

Contractor:	MBJV	Client:	STPA	Form Number:	97918-QAF-059
Element:	TP-6A	Oversight:	AECOM/CBCL	Project:	Remediation of the Tar Ponds and Coke Ovens Sites
		IQAC:	Stantec		

SPECIFIED REQUIREMENTS						RESULTS											NOTES		
Spec Section	Spec Description	Test Type	Standard	QC Frequency	QA Frequency	Date Collected	QC Sample ID	Criteria	Date QC Result Received	QC Test Result	QC Pass/Fail	QC Frequency Met? Y/N	QA Sample ID	Date QA Result Received	QA Test Result	QA Pass/Fail	QA Frequency Met? Y/N	QC	QA
<b>Week 1</b>																			
No Testing Conducted this Week																			
<b>Week 2</b>																			
No Testing Conducted this Week																			
<b>Week 3</b>																			
No Testing Conducted this Week																			
<b>Week 4</b>																			
No Testing Conducted this Week																			
<b>Week 5</b>																			
No Testing Conducted this Week																			

**Quality Control (QC) and Quality Assurance (QA) Environmental Testing Summary Table**

Weekly  
 Monthly

From: 2011-06-26 To: 2011-07-30

<b>Contractor:</b>	MBJV	<b>Client:</b>	STPA	<b>Form Number:</b>	97918-QAF-073
<b>Element:</b>	TP6A	<b>Oversight:</b>	AECOM/CBCL	<b>Project:</b>	Remediation of the Tar Ponds and Coke Ovens Sites
		<b>IQAC:</b>	Stantec		

Note: This summary table shall be submitted with the Contractor's Monthly QC Report only after all revisions are made to the data here contained based on any DE Environmental comments of the information submitted weekly.

SPECIFIED REQUIREMENTS							RESULTS										NOTES			
Spec Section	Spec Description	Test Type	Standard	QC Frequency	QA Frequency	Date Collected	QC Sample ID	Criteria	Date QC Result Received	QC Test Result	QC Pass/Fail	QC Frequency Met? Y/N	QA Sample ID	Date QA Result Received	QA Test Result	QA Pass/Fail	QA Frequency Met? Y/N	QC	QA	
<b>Week 1</b>																				
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-06-26	TP6A-97919-Narrows E-0730-2011-06-26 TP6A-97919-Narrows W-0730-2011-06-26	As per EPP	2011-06-26	6.1 NTU 7.4 NTU	Pass	Y							Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-06-26	TP6A-97919-Narrows E-1130-2011-06-26 TP6A-97919-Narrows W-1130-2011-06-26	As per EPP	2011-06-26	4.6 NTU 4.8 NTU	Pass	Y							Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-06-27	TP6A-97919-Narrows E-0730-2011-06-27 TP6A-97919-Narrows W-0730-2011-06-27	As per EPP	2011-06-27	3.5 NTU 3.5 NTU	Pass	Y							Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-06-27	TP6A-97919-Narrows E-1130-2011-06-27 TP6A-97919-Narrows W-1130-2011-06-27	As per EPP	2011-06-27	2.4 NTU 2.0 NTU	Pass	Y							Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-06-28	TP6A-97919-Narrows E-0730-2011-06-28 TP6A-97919-Narrows W-0730-2011-06-28	As per EPP	2011-06-28	2.9 NTU 2.7 NTU	Pass	Y							Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-06-28	TP6A-97919-Narrows E-1130-2011-06-28 TP6A-97919-Narrows W-1130-2011-06-28	As per EPP	2011-06-28	3.1 NTU 3.4 NTU	Pass	Y							Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-06-29	TP6A-97919-Narrows E-0730-2011-06-29 TP6A-97919-Narrows W-0730-2011-06-29	As per EPP	2011-06-29	2.5 NTU 2.2 NTU	Pass	Y							Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-01	Noise Sampling	Noise Monitoring with a dosimeter or equivalent	CBRM noise by-law and NSE criteria	Once Weekly		2011-06-29	TP6A-97919-Site Trailer-2011-06-29 TP6A-97919-COB -2011-06-29 TP6A-97919-Narrows-2011-06-29	CBRM noise by-law and NSE criteria	2011-06-29	62.7 L <sub>eq</sub> (dBA) 67.6 L <sub>eq</sub> (dBA) 56.5 L <sub>eq</sub> (dBA)	Pass No Pass	Y							Samples collected as per EPP. A minimum of 2hr sample duration in three locations along the perimeter. Please refer to the daily EIL for specific testing results. Noise exceedance at COB sampling site due to a large volume of TP7 traffic in the area. No other work activities by MBJV.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours	Once Weekly	2011-06-29	TP6A-97919-Narrows E-1130-2011-06-29 TP6A-97919-Narrows W-1130-2011-06-29	As per EPP	2011-06-29	2.3 NTU 1.7 NTU	Pass	Y	TP6A-06-29-2011-East TP6A-06-29-2011-West	29-Jun-11	1.28 NTU 1.11 NTU	Pass Pass	Yes		Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	Samples were collected in accordance with the EPP. Please refer to the weekly IQAC Site Testing Summary for further details.
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-06-30	TP6A-97919-Narrows E-0730-2011-06-30 TP6A-97919-Narrows W-0730-2011-06-30	As per EPP	2011-06-30	2.5 NTU 2.2 NTU	Pass	Y							Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-06-30	TP6A-97919-Narrows E-1130-2011-06-30 TP6A-97919-Narrows W-1130-2011-06-30	As per EPP	2011-06-30	3.6 NTU 4.1 NTU	Pass	Y							Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-01	TP6A-97919-Narrows E-0730-2011-07-01 TP6A-97919-Narrows W-0730-2011-07-01	As per EPP	2011-07-01	2.7 NTU 3.3 NTU	Pass	Y							Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-01	TP6A-97919-Narrows E-1130-2011-07-01 TP6A-97919-Narrows W-1130-2011-07-01	As per EPP	2011-07-01	2.6 NTU 2.0 NTU	Pass	Y							Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-02	TP6A-97919-Narrows E-0730-2011-07-02 TP6A-97919-Narrows W-0730-2011-07-02	As per EPP	2011-07-02	1.8 NTU 1.6 NTU	Pass	Y							Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-02	TP6A-97919-Narrows E-1130-2011-07-02 TP6A-97919-Narrows W-1130-2011-07-02	As per EPP	2011-07-02	2.3 NTU 2.4 NTU	Pass	Y							Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
<b>Week 2</b>																				
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-03	TP6A-97919-Narrows E-0730-2011-07-01 TP6A-97919-Narrows W-0730-2011-07-01	As per EPP	2011-07-03	2.5 NTU 2.2 NTU	Pass	Y							Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-03	TP6A-97919-Narrows E-1130-2011-07-03 TP6A-97919-Narrows W-1130-2011-07-03	As per EPP	2011-07-03	2.4 NTU 2.1 NTU	Pass	Y							Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-04	TP6A-97919-Narrows E-0730-2011-07-04 TP6A-97919-Narrows W-0730-2011-07-04	As per EPP	2011-07-04	3.1 NTU 3.3 NTU	Pass	Y							Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-04	TP6A-97919-Narrows E-1130-2011-07-04 TP6A-97919-Narrows W-1130-2011-07-04	As per EPP	2011-07-04	4.1 NTU 3.8 NTU	Pass	Y							Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-05	TP6A-97919-Narrows E-0730-2011-07-05 TP6A-97919-Narrows W-0730-2011-07-05	As per EPP	2011-07-05	2.8 NTU 2.4 NTU	Pass	Y							Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours	Once Weekly	2011-07-05	TP6A-97919-Narrows E-1130-2011-07-05 TP6A-97919-Narrows W-1130-2011-07-05	As per EPP	2011-07-05	3.7 NTU 3.0 NTU	Pass	Y	TP6A-07-06-2011-East TP6A-07-06-2011-West	6-Jul-11	1.07 NTU 1.21 NTU	Pass Pass	Yes		Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	Samples were collected in accordance with the EPP. Please refer to the weekly IQAC Site Testing Summary for further details.
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-06	TP6A-97919-Narrows E-0730-2011-07-06 TP6A-97919-Narrows W-0730-2011-07-06	As per EPP	2011-07-06	2.5 NTU 3.2 NTU	Pass	Y							Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-01	Noise Sampling	Noise Monitoring with a dosimeter or equivalent	CBRM noise by-law and NSE criteria	Once Weekly	Once Monthly	2011-07-06	TP6A-97919-Site Trailer-2011-07-06 TP6A-97919-COB -2011-07-06 TP6A-97919-Narrows-2011-07-06	CBRM noise by-law and NSE criteria	2011-07-06	62.6 L <sub>eq</sub> (dBA) 63.5 L <sub>eq</sub> (dBA) 62.6 L <sub>eq</sub> (dBA)	Pass Pass Pass	Y	TP6A-07-06-2011-0810-1015 TP6A-07-06-2011-1243-1446 TP6A-07-06-2011-1025-1228	2011-07-06	61.8 L <sub>eq</sub> (dBA) 57.6 L <sub>eq</sub> (dBA) 61.8 L <sub>eq</sub> (dBA)	Pass Pass Pass	Yes		Samples collected as per EPP. A minimum of 2hr sample duration in three locations along the perimeter. Please refer to the daily EIL for specific testing results.	Samples collected as per EPP. Refer to Monthly Noise QA Testing Summary Table in this report for more information.
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-06	TP6A-97919-Narrows E-1130-2011-07-06 TP6A-97919-Narrows W-1130-2011-07-06	As per EPP	2011-07-06	2.1 NTU 2.0 NTU	Pass	Y							Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-07	TP6A-97919-Narrows E-0730-2011-07-07 TP6A-97919-Narrows W-0730-2011-07-07	As per EPP	2011-07-07	2.6 NTU 3.3 NTU	Pass	Y							Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-07	TP6A-97919-Narrows E-1130-2011-07-07 TP6A-97919-Narrows W-1130-2011-07-07	As per EPP	2011-07-07	2.5 NTU 1.9 NTU	Pass	Y							Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-08	TP6A-97919-Narrows E-0730-2011-07-08 TP6A-97919-Narrows W-0730-2011-07-08	As per EPP	2011-07-08	2.7 NTU 4.4 NTU	Pass	Y							Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-08	TP6A-97919-Narrows E-1130-2011-07-08 TP6A-97919-Narrows W-1130-2011-07-08	As per EPP	2011-07-08	2.9 NTU 3.9 NTU	Pass	Y							Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-09	TP6A-97919-Narrows E-0730-2011-07-09 TP6A-97919-Narrows W-0730-2011-07-09	As per EPP	2011-07-09	3.2 NTU 3.0 NTU	Pass	Y							Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-09	TP6A-97919-Narrows E-1115-2011-07-09 TP6A-97919-Narrows W-1115-2011-07-09	As per EPP	2011-07-09	3.3 NTU 7.9 NTU	Pass	Y							Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
<b>Week 3</b>																				

**Quality Control (QC) and Quality Assurance (QA) Environmental Testing Summary Table**

Weekly  
 Monthly

From: 2011-06-26 To: 2011-07-30

<b>Contractor:</b>	MBJV	<b>Client:</b>	STPA	<b>Form Number:</b>	97918-QAF-073
<b>Element:</b>	TP6A	<b>Oversight:</b>	AECOM/CBCL	<b>Project:</b>	Remediation of the Tar Ponds and Coke Ovens Sites
		<b>IQAC:</b>	Stantec		

Note: This summary table shall be submitted with the Contractor's Monthly QC Report only after all revisions are made to the data here contained based on any DE Environmental comments of the information submitted weekly.

SPECIFIED REQUIREMENTS						RESULTS										NOTES			
Spec Section	Spec Description	Test Type	Standard	QC Frequency	QA Frequency	Date Collected	QC Sample ID	Criteria	Date QC Result Received	QC Test Result	QC Pass/Fail	QC Frequency Met? Y/N	QA Sample ID	Date QA Result Received	QA Test Result	QA Pass/Fail	QA Frequency Met? Y/N	QC	QA
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-10	TP6A-97919-Narrows E-0730-2011-07-10 TP6A-97919-Narrows W-0730-2011-07-10	As per EPP	2011-07-10	7.5 NTU 7.3 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-10	TP6A-97919-Narrows E-1130-2011-07-10 TP6A-97919-Narrows W-1130-2011-07-10	As per EPP	2011-07-10	10.8 NTU 11.4 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-11	TP6A-97919-Narrows E-0730-2011-07-11 TP6A-97919-Narrows W-0730-2011-07-11	As per EPP	2011-07-11	2.8 NTU 2.4 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-01	Noise Sampling	Noise Monitoring with a dosimeter or equivalent	CBRM noise by-law and NSE criteria	Once Weekly		2011-07-11	TP6A-97919-Site Trailer-2011-07-11 TP6A-97919-COB -2011-07-11 TP6A-97919-Narrows-2011-07-11	CBRM noise by-law and NSE criteria	2011-07-11	57.7 L <sub>eq</sub> (dBA) 65.3 L <sub>eq</sub> (dBA) 55.1 L <sub>eq</sub> (dBA)	Pass No Pass	Y						Samples collected as per EPP. A minimum of 2hr sample duration in three locations along the perimeter. Please refer to the daily EIL for specific testing results. Slight noise exceedance at the COB sampling location due to the large amount of TP7 traffic in the area. MBJV had no work activities in the area other than pump maintenance.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-11	TP6A-97919-Narrows E-1130-2011-07-12 TP6A-97919-Narrows W-1130-2011-07-12	As per EPP	2011-07-11	3.2 NTU 3.2 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-12	TP6A-97919-Narrows E-0730-2011-07-12 TP6A-97919-Narrows W-0730-2011-07-12	As per EPP	2011-07-12	2.6 NTU 2.5 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-12	TP6A-97919-Narrows E-1130-2011-07-12 TP6A-97919-Narrows W-1130-2011-07-12	As per EPP	2011-07-12	4.1 NTU 3.6 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours	Once Weekly	2011-07-13	TP6A-97919-Narrows E-0730-2011-07-13 TP6A-97919-Narrows W-0730-2011-07-13	As per EPP	2011-07-13	2.7 NTU 3.0 NTU	Pass	Y	TP6A-07-13-2011-East TP6A-07-13-2011-West	13-Jul-11	2.10 NTU 1.80 NTU	Pass Pass	Yes	Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	Samples were collected in accordance with the EPP. Please refer to the weekly IQAC Site Testing Summary for further details.
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-13	TP6A-97919-Narrows E-1130-2011-07-13 TP6A-97919-Narrows W-1130-2011-07-13	As per EPP	2011-07-13	3.2 NTU 3.0 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-14	TP6A-97919-Narrows E-0730-2011-07-14 TP6A-97919-Narrows W-0730-2011-07-14	As per EPP	2011-07-14	3.0 NTU 2.9 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-14	TP6A-97919-Narrows E-1130-2011-07-14 TP6A-97919-Narrows W-1130-2011-07-14	As per EPP	2011-07-14	2.9 NTU 2.9 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-15	TP6A-97919-Narrows E-0730-2011-07-15 TP6A-97919-Narrows W-0730-2011-07-15	As per EPP	2011-07-15	3.4 NTU 2.6 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-15	TP6A-97919-Narrows E-1130-2011-07-15 TP6A-97919-Narrows W-1130-2011-07-15	As per EPP	2011-07-15	3.2 NTU 3.5 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-16	TP6A-97919-Narrows E-0710-2011-07-16 TP6A-97919-Narrows W-0710-2011-07-16	As per EPP	2011-07-16	9.2 NTU 15.2 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-16	TP6A-97919-Narrows E-1130-2011-07-16 TP6A-97919-Narrows W-1130-2011-07-16	As per EPP	2011-07-16	6.6 NTU 7.0 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
<b>Week 4</b>																			
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-17	TP6A-97919-Narrows E-0730-2011-07-17 TP6A-97919-Narrows W-0730-2011-07-17	As per EPP	2011-07-17	3.6 NTU 3.1 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-17	TP6A-97919-Narrows E-1130-2011-07-17 TP6A-97919-Narrows W-1130-2011-07-17	As per EPP	2011-07-17	3.2 NTU 2.9 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-18	TP6A-97919-Narrows E-0730-2011-07-18 TP6A-97919-Narrows W-0730-2011-07-18	As per EPP	2011-07-18	3.0 NTU 2.6 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-18	TP6A-97919-Narrows E-1130-2011-07-18 TP6A-97919-Narrows W-1130-2011-07-18	As per EPP	2011-07-18	2.3 NTU 2.7 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-19	TP6A-97919-Narrows E-0730-2011-07-19 TP6A-97919-Narrows W-0730-2011-07-19	As per EPP	2011-07-19	3.3 NTU 3.7 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-19	TP6A-97919-Narrows E-1130-2011-07-19 TP6A-97919-Narrows W-1130-2011-07-19	As per EPP	2011-07-19	2.0 NTU 2.1 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-20	TP6A-97919-Narrows E-0730-2011-07-20 TP6A-97919-Narrows W-0730-2011-07-20	As per EPP	2011-07-20	2.9 NTU 3.4 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-01	Noise Sampling	Noise Monitoring with a dosimeter or equivalent	CBRM noise by-law and NSE criteria	Once Weekly		2011-07-20	TP6A-97919-Site Trailer-2011-07-20 TP6A-97919-COB -2011-07-20 TP6A-97919-Ferry St West Fence-2011-07-20	CBRM noise by-law and NSE criteria	2011-07-20	58.8 L <sub>eq</sub> (dBA) 57.7 L <sub>eq</sub> (dBA) 76.6 L <sub>eq</sub> (dBA)	Pass Pass No	Y						Samples collected as per EPP. A minimum of 2hr sample duration in three locations along the perimeter. Please refer to the daily EIL for specific testing results. Noise exceedance at the Ferry St. sampling location due to the area being busy with TP6A and TP6B work activities. The vibro was being used to extract the cut off wall along Ferry St. and a large volume of heavy equipment traffic performing the SS work contributed to the exceedance.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours	Once Weekly	2011-07-20	TP6A-97919-Narrows E-1130-2011-07-20 TP6A-97919-Narrows W-1130-2011-07-20	As per EPP	2011-07-20	2.4 NTU 2.0 NTU	Pass	Y	TP6A-07-20-2011-East TP6A-07-20-2011-West	20-Jul-11	1.28 NTU 1.06 NTU	Pass Pass	Yes	Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	Samples were collected in accordance with the EPP. Please refer to the weekly IQAC Site Testing Summary for further details.
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-21	TP6A-97919-Narrows E-0730-2011-07-21 TP6A-97919-Narrows W-0730-2011-07-21	As per EPP	2011-07-21	2.8 NTU 2.7 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-21	TP6A-97919-Narrows E-1130-2011-07-21 TP6A-97919-Narrows W-1130-2011-07-21	As per EPP	2011-07-21	3.1 NTU 2.9 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-21	TP6A-97919-Narrows E-1500-2011-07-21 TP6A-97919-Narrows W-1500-2011-07-21	As per EPP	2011-07-21	3.8 NTU 2.9 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-22	TP6A-97919-Narrows E-0710-2011-07-22 TP6A-97919-Narrows W-0710-2011-07-22	As per EPP	2011-07-22	13.2 NTU 10.7 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	

**Quality Control (QC) and Quality Assurance (QA) Environmental Testing Summary Table**

Weekly  
 Monthly

From: 2011-06-26 To: 2011-07-30

<b>Contractor:</b>	MBJV	<b>Client:</b>	STPA	<b>Form Number:</b>	97918-QAF-073
<b>Element:</b>	TP6A	<b>Oversight:</b>	AECOM/CBCL	<b>Project:</b>	Remediation of the Tar Ponds and Coke Ovens Sites
		<b>IQAC:</b>	Stantec		

Note: This summary table shall be submitted with the Contractor's Monthly QC Report only after all revisions are made to the data here contained based on any DE Environmental comments of the information submitted weekly.

SPECIFIED REQUIREMENTS							RESULTS										NOTES		
Spec Section	Spec Description	Test Type	Standard	QC Frequency	QA Frequency	Date Collected	QC Sample ID	Criteria	Date QC Result Received	QC Test Result	QC Pass/Fail	QC Frequency Met? Y/N	QA Sample ID	Date QA Result Received	QA Test Result	QA Pass/Fail	QA Frequency Met? Y/N	QC	QA
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-22	TP6A-97919-Narrows E-1130-2011-07-22 TP6A-97919-Narrows W-1130-2011-07-22	As per EPP	2011-07-22	5.7 NTU 5.5 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-23	TP6A-97919-Narrows E-0730-2011-07-23 TP6A-97919-Narrows W-0730-2011-07-23	As per EPP	2011-07-23	4.3 NTU 4.3 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-23	TP6A-97919-Narrows E-1130-2011-07-23 TP6A-97919-Narrows W-1130-2011-07-23	As per EPP	2011-07-23	3.2 NTU 3.5 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
<b>Week 5</b>																			
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-24	TP6A-97919-Narrows E-0730-2011-07-24 TP6A-97919-Narrows W-0730-2011-07-24	As per EPP	2011-07-24	2.8 NTU 3.1 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-24	TP6A-97919-Narrows E-1130-2011-07-24 TP6A-97919-Narrows W-1130-2011-07-24	As per EPP	2011-07-24	4.7 NTU 4.7 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-25	TP6A-97919-Narrows E-0730-2011-07-25 TP6A-97919-Narrows W-0730-2011-07-25	As per EPP	2011-07-25	2.4 NTU 2.6 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-25	TP6A-97919-Narrows E-1130-2011-07-25 TP6A-97919-Narrows W-1130-2011-07-25	As per EPP	2011-07-25	3.6 NTU 3.3 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-26	TP6A-97919-Narrows E-0730-2011-07-26 TP6A-97919-Narrows W-0730-2011-07-26	As per EPP	2011-07-26	3.3 NTU 2.1 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-01	Noise Sampling	Noise Monitoring with a dosimeter or equivalent	CBRM noise by-law and NSE criteria	Once Weekly		2011-07-26	TP6A-97919-Site Trailer-2011-07-26 TP6A-97919-COB -2011-07-26 TP6A-97919-Ferry St West Fence-2011-07-26	CBRM noise by-law and NSE criteria	2011-07-26	53.9 L <sub>eq</sub> (dBA) 56.7 L <sub>eq</sub> (dBA) 65.7 L <sub>eq</sub> (dBA)	Pass Pass No	Y						Samples collected as per EPP. A minimum of 2hr sample duration in three locations along the perimeter. Please refer to the daily EIL for specific testing results. The noise monitor was located on the west perimeter road near the Ferry Street junction approximately 50m southwest of the excavation. Activities for the day included one excavator, one tandem truck and one rock truck removing material from the Ferry Street pad and relocating it to the north pond. It is believed that traffic on the west perimeter road along with TP6A's site activities contributed to the exceedance.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-26	TP6A-97919-Narrows E-1130-2011-07-26 TP6A-97919-Narrows W-1130-2011-07-26	As per EPP	2011-07-26	3.4 NTU 5.2 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-26	TP6A-97919-Narrows E-1530-2011-07-26 TP6A-97919-Narrows W-1530-2011-07-26	As per EPP	2011-07-26	3.6 NTU 6.4 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-27	TP6A-97919-Narrows E-0730-2011-07-27 TP6A-97919-Narrows W-0730-2011-07-27	As per EPP	2011-07-27	2.4 NTU 2.7 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-27	TP6A-97919-Narrows E-1130-2011-07-27 TP6A-97919-Narrows W-1130-2011-07-27	As per EPP	2011-07-27	4.0 NTU 4.2 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-27	TP6A-97919-Narrows E-1530-2011-07-27 TP6A-97919-Narrows W-1530-2011-07-27 TP6A-97919-COB-1530-2011-07-27 TP6A-97919-Wash Brook-1530-2011-07-27	As per EPP	2011-07-27	7.7 NTU 11.6 NTU 29.9 NTU 20.2 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-28	TP6A-97919-Narrows E-0730-2011-07-28 TP6A-97919-Narrows W-0730-2011-07-28	As per EPP	2011-07-28	4.2 NTU 4.0 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-28	TP6A-97919-Narrows E-1130-2011-07-28 TP6A-97919-Narrows W-1130-2011-07-28	As per EPP	2011-07-28	3.8 NTU 4.1 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours	Once Weekly	2011-07-29	TP6A-97919-Narrows E-0730-2011-07-29 TP6A-97919-Narrows W-0730-2011-07-29	As per EPP	2011-07-29	3.0 NTU 2.1 NTU	Pass	Y	TP6A-07-20-2011-East TP6A-07-20-2011-West	20-Jul-11	1.28 NTU 1.06 NTU	Pass Pass	Yes	Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	Samples were collected in accordance with the EPP. Please refer to the weekly IQAC Site Testing Summary for further details.
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-29	TP6A-97919-Narrows E-1130-2011-07-29 TP6A-97919-Narrows W-1130-2011-07-29	As per EPP	2011-07-29	2.8 NTU 2.6 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-30	TP6A-97919-Narrows E-0730-2011-07-30 TP6A-97919-Narrows W-0730-2011-07-30	As per EPP	2011-07-30	2.8 NTU 3.9 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	
ENV-T-02	Surface Water Turbidity Sampling	Turbidity Sampling with portable turbidity meter	As per EPP	Every 4 Hours		2011-07-30	TP6A-97919-Narrows E-1130-2011-07-30 TP6A-97919-Narrows W-1130-2011-07-30	As per EPP	2011-07-30	3.9 NTU 3.1 NTU	Pass	Y						Samples were collected in accordance with the EPP. Please refer to the daily EIL for specific testing results.	



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**Stantec**

September 7, 2011  
File: 121410955.225

Sydney Tar Ponds Agency  
1 Inglis Street  
PO Box 1028, Stn. A  
Sydney, NS B1P 6J7

**Attention: Ms. Diane Ingraham, PhD., CAPM, Quality Contracts Manager**

Dear Ms. Ingraham:

**Reference: Extras Section - STPA Project Element TP6A  
Independent Quality Assurance (IQAC) July 2011 Monthly Summary Report**

At the request of Sydney Tar Ponds Agency (STPA), Stantec Consulting Ltd (Stantec) has no reportable extra items to include in the EXTRAS section of the (IQAC) July 2011 Monthly Summary Report.

We trust this information meets your present requirements. If you have any questions, please do not hesitate to contact us.

Sincerely,

**STANTEC CONSULTING LTD**

Willie McNeil, B.Tech. (Env.), CET  
Project Manager  
Tel: (902) 564-1855  
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Sydney Tar Ponds Agency  
1 Inglis Street  
PO Box 1028, Stn. A  
Sydney, NS B1P 6J7

**Attention: Ms. Diane Ingraham, PhD., PMP, Quality Contracts Manager**

Dear Ms. Ingraham:

**Reference: Monthly Invoices**

As per the request of the Sydney Tar Ponds Agency, monthly invoices will be submitted in a separate submittal.

Sincerely,

**STANTEC CONSULTING LTD**

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Project Manager  
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