Release/Event Details

Detailed Description of Release/Event

On Monday 4th of July at 03:30, an oil spill occurred aboard the BHD Big Boss.
At the time of the incident the BHD Big Boss was operating in area APLNG area E3a-B.
Position: E314155, N7371606

At the moment of the event the crane of the BHD Big Boss was operated by operator Ky Hallinan and was loading Split Hopper Barge CH7.

During spudding, when the starboard spud was lifted, the hydraulic system of the starboard spud failed whereby a hose blew and consequently oil was spilled.

Immediately after the failure of the hydraulic system, the alarm was raised by engineer Marc Van de Broeck. The 4 member Spill response team immediately executed the Oil Spill Response and Contingency Plan. At the same time the spud was secured.

As reported by the crew of the BHD Big Boss, a total of ± 20 litres was lost from the hydraulic system on to the deck of the BHD Big Boss. The position of the hydraulic motor faces inboard therefore the majority of the oil was contained on the deck with a small amount – estimated 3-5 litres – spilling into the water.

All oil on deck was cleaned up and recovered by means of oil absorbing pads, oil absorbent socks and absorbent sand.

Oil spilled from the deck in to the water remained in the near vicinity of the barge. Therefore as part of the Oil spill Response and Contingency Plan, oil absorbent booms were launched in to the water in order to contain and recover the oil from the water. As such, all oil visible was removed from the water surface.

At the moment of the spillage the tide was outgoing.
No swell or wave action (< 0.1m).

Superintendent Bart Spapen informed VODI Health & Safety Manager Cobus Nel at 04:22, who accordingly informed to GPC Safety Manager Brian Miller by text message at 04:31.

At 4:44 VODI Environmental Officer S. Veenstra was notified by Superintendent Bart Spapen.

At 04:56 the GPC Environmental Representative Melanie Herzel was informed by the VODI Environmental Officer S. Veenstra.

At 04:45 the Gladstone Harbour Pollution was notified by the BHD Big Boss (Tim Wootton - Master) concerning the oil spillage.

At the time of the incident GPC representative Ian Wade was present on board the BHD Big Boss and as such witnessed and reported the oil spill response and clean up operation.

VODI JV

PO Box 1399
Gladstone Qld, 4680

ENVIRONMENTAL INCIDENT REPORT

WESTERN BASIN DREDGING AND DISPOSAL PROJECT

Incident No. 001 & Oil Spillage BHD Razende Bol

4th of July 2011

Revision No. 0

Release/Event Details

Project:	Western Basin Dredging and Disposal Project		
Development Approval No.	SPDE01443011		
Registered Operator	VAN OORD – DREDGING INTERNATIONAL JOINT VENTURE		
Date of Release/Event:	2/07/2011	**Date of Notification:**	2/07/2011
Time of Release/Event:	16:55	**Time of Notification:**	17:15
VODI Project Contact:	Environmental Officer S. Veenstra		
	P:		M: 0487301533
	E: vsi@vodi.com.au		
Location of Release/Event: *(pictorial reference on map below)*	Area APLNG area A		

Figure 1: Location of release/event.

EPA's Pollution Hotline (1300 130 372) or local office (4971 6500) notified of release/event?	☐ Yes, date: ☒ Gladstone Harbour Control Pollution Hotline was informed

Release/Event Details

Detailed Description of Release/Event

On Saturday 2nd of July at 16.55, the BHD Razende Bol experienced an oil spillage.
At the moment of the incident the BHD Razende Bol was operating in area APLNG area A
Position: E313711, N7371455 - LAT 32 45 25.933, LONG 151 10 19.489

At the moment of the event the Razende Bol (operator Michel de Lange) was dredging and loading the dredging material on the Split Hopper Barge HAM586.

When the operator noticed aerosols (oil spray in air), he realised there was a leakage on a hydraulic system and immediately turned the crane back on deck of the barge. As such further oil spillage in the marine water was avoided. Additional spilled oil remained within the containment of the deck.
No oil was spilled from the deck in the marine water.

As soon as the crane was located on the deck position, the operator alarmed the crew onboard the barge and informed them about the spilled oil. Accordingly an 8 man strong Oil Spill response team came in action and immediately launched a floating boom in the water.

At the moment of the spillage the tide was upcoming, with currents <0.25m/s.

When the boom was launched the spilled oil was still in the near vicinity of the barge and could be contained/corned by means of the floating boom.

As reported by the crew, all oil was absorbed by means of the floating boom from the marine water.
The amount of oil spilled in the water was approximately 100 ml.

Total amount of oil spilled on (on deck and on water) ranges from 0.5 to 2 litres.

After inspection it turned out the leakage occurred at a hose connector (failing O-ring).

At 17:05 Dredge superintendent Hendrik Jan de Ridder was informed by Australian Master 4 Georgina Shine.

At 17:08 VODI Environmental Officer was notified by the Master 4 Georgina Shine.

At 17:15 the GPC Environmental Representative Mrs. Herzel was informed by the VODI Environmental Officer Mr. S. Veenstra.

At 17:22 the Gladstone Harbour Pollution Hotline (Peter Johanson) was informed by the BHD Razende Bol (Australian Master 4 Georgina Shine) concerning the oil spillage.

Cause of Release/Event

Failing O-ring in a connector of the hydraulic system located on the stick of the crane.

Resulting Effects of Release/Event

Hydraulic oil was spilled in the marine waters of Port Curtis.
Spilled oil was recovered by applying an absorbing floating boom.
No oil remained in/on the water after the clean up operation.
No oil dispersed away from the incident location.
No impact upon the marine environment.

Corrective Actions Taken to Mitigate Environmental Harm and/or Nuisance Caused by the Release/Event

No	Action/s Taken	Responsible Person	Due Date / Status
1.	Operator turned Crane immediately back on deck of barge	Michel de Lange	Crane Operator
2.	Execution of Oil Spill Response and Contingency Plan	Eduard de Romijn	Barge Master
3.	Launch of oil absorbing boom to contain spilled oil	Georgina Shine	Master
4.	Clean up of oil by means of absorbing boom	Georgina Shine	Master

Results of Sampling (if applicable) Performed in Relation to the Release/Event

☐ *Sampling results attached*

Proposed Actions to Prevent a Recurrence of the Release/Event

No	Action/s Taken	Responsible Person	Due Date / Status
1.	Additional Pre-dredge inspections on hydraulic system	Eduard de Romijn	Barge Master
2.			
3.			
4.			

LNG Port Dredging Project Delivery Group

Port of Gladstone Growth, Prosperity, Community

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Brisbane Qld 4001

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WATER QUALITY EXCEEDENCE NOTIFICATION

WESTERN BASIN DREDGING AND DISPOSAL PROJECT

WQE No & Short Description

28 October 2011

Revision No.1 and HB # 706971

Exceedence Details

Project:	Western Basin Dredging and Disposal Project		
Development Approval No.	SPDE01443011		
Registered Operator	VODI		
Date of Exceedance:	24-28 Oct 2011	**Date of Notification:**	28/10/11 Initial notification via DTRP Sub-Committee
LNG Project Contact:	Melanie Herzel P: 07 – 4975 2230 E: herzelm@gpcl.com.au		M: 0439 062 850
Location of Exceedence:	QE4, ST1, P2, BG10 See attachment		

WQ Exceedence Details

Detailed Description of WQ Exceedence
24/10/11: • QE4 exceeded the 95th%il 4/4. • ST1 exceeded the 95th%il 4/4 and the 99th%ile 8/8 for dry season and 3/8 for the wet season. 25/10/11: • QE4 exceeded the 95th%il 4/4 and the 99th%ile 8/8 for dry season and 8/8 for the wet season. • ST1 exceeded the 95th%il 4/4 and the 99th%ile 8/8 for dry season and 7/8 for the wet season. 26/10/11: • QE4 exceeded the 95th%il 4/4 and the 99th%ile 8/8 for dry season and 8/8 for the wet season. • ST1 exceeded the 95th%il 4/4 and the 99th%ile 8/8 for dry season and 8/8 for the wet season. 27/10/11: • QE4 exceeded the 95th%il 4/4 and the 99th%ile 8/8 for dry season and 8/8 for the wet season. • ST1 exceeded the 95th%il 4/4 and the 99th%ile 8/8 for dry season and 8/8 for the wet season. • P2 exceeded the 95th%il 4/4 and the 99th%ile 8/8 for dry season and nil/8 for the wet

Detailed Description of WQ Exceedence

season.

- BG10 exceeded the 95th%il 4/4.

28/10/11:

- QE4 exceeded the 95th%il 4/4 and the 99th%ile 8/8 for dry season and 8/8 for the wet season.
- ST1 exceeded the 95th%il 4/4 and the 99th%ile 8/8 for dry season and 8/8 for the wet season.
- P2 exceeded the 95th%il 4/4 and the 99th%ile 8/8 for dry season and nil/8 for the wet season.
- BG10 exceeded the 95th%il 4/4 and the 99th%ile 8/8 for dry season and 6/8 for the wet season.

Cause of WQ Exceedence

Spring tides with high tidal ranges and the new moon as well as high winds in the harbour which might have stirred up turbidity of the residual plume from the last spring tide are the likely cause of the exceedences.

Resulting Effects of WQ Exceedence

Increased turbidity can be observed across the harbour.

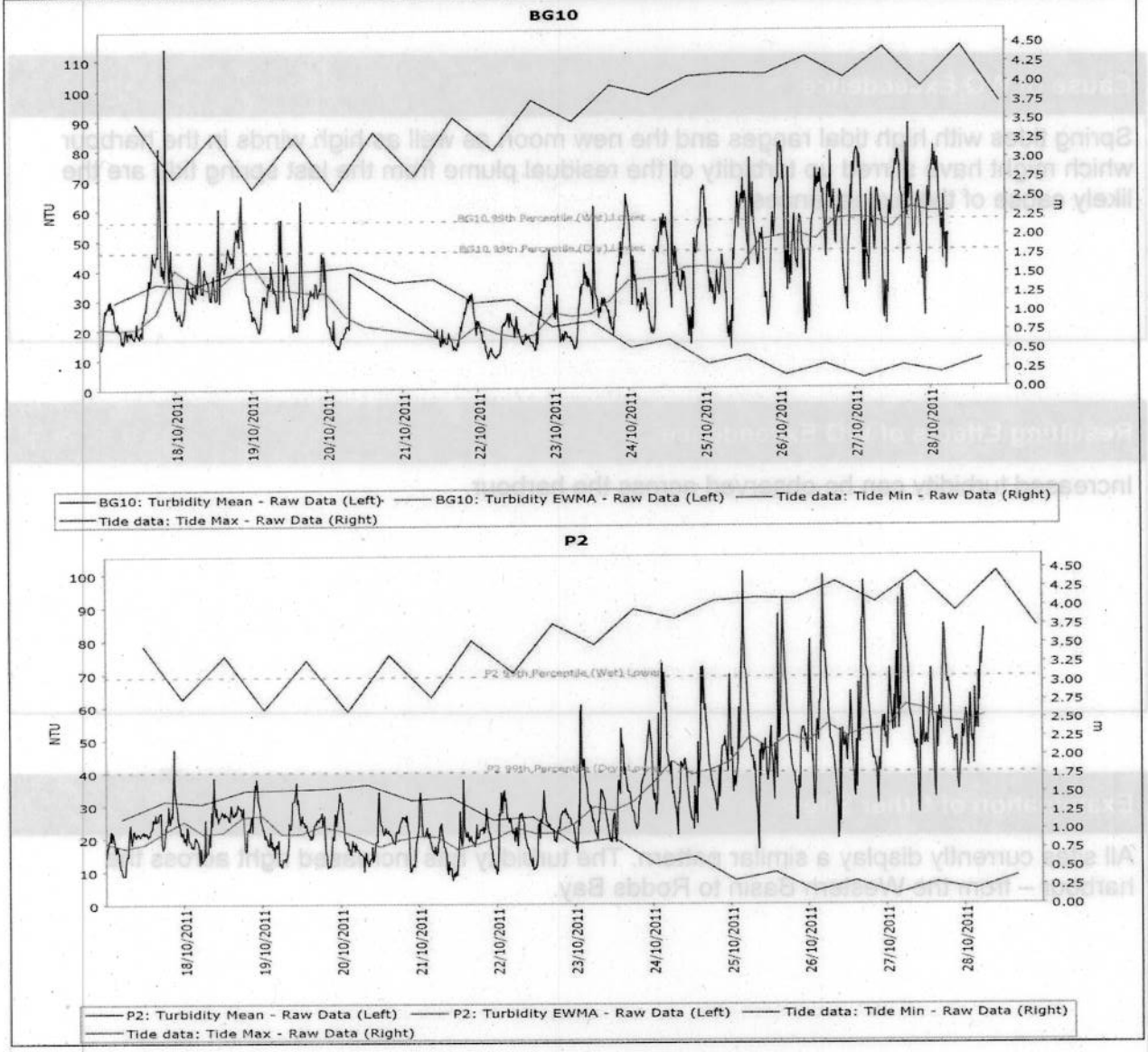
Examination of Other Sites

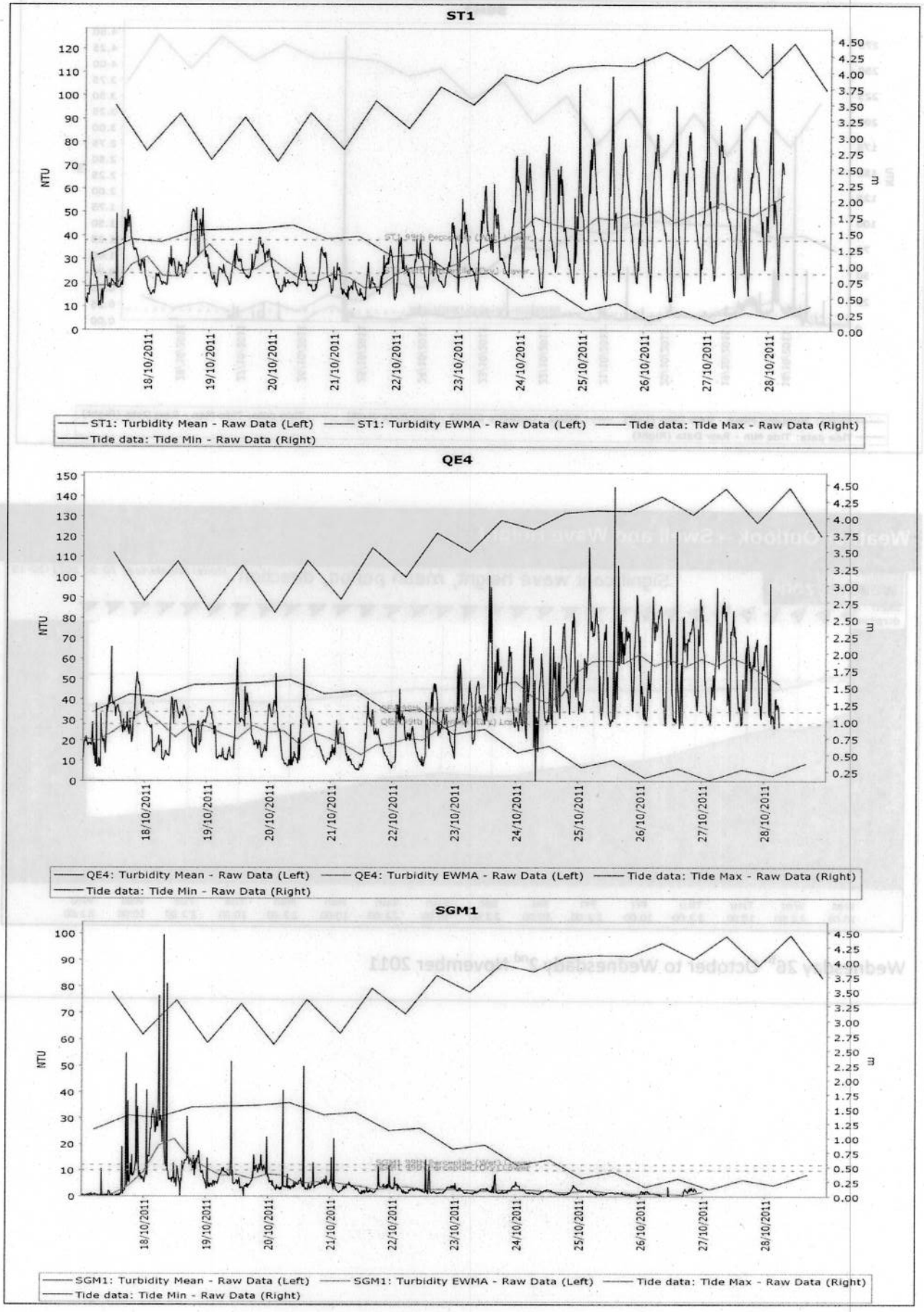
All sites currently display a similar pattern. The turbidity has increased right across the harbour – from the Western Basin to Rodds Bay.

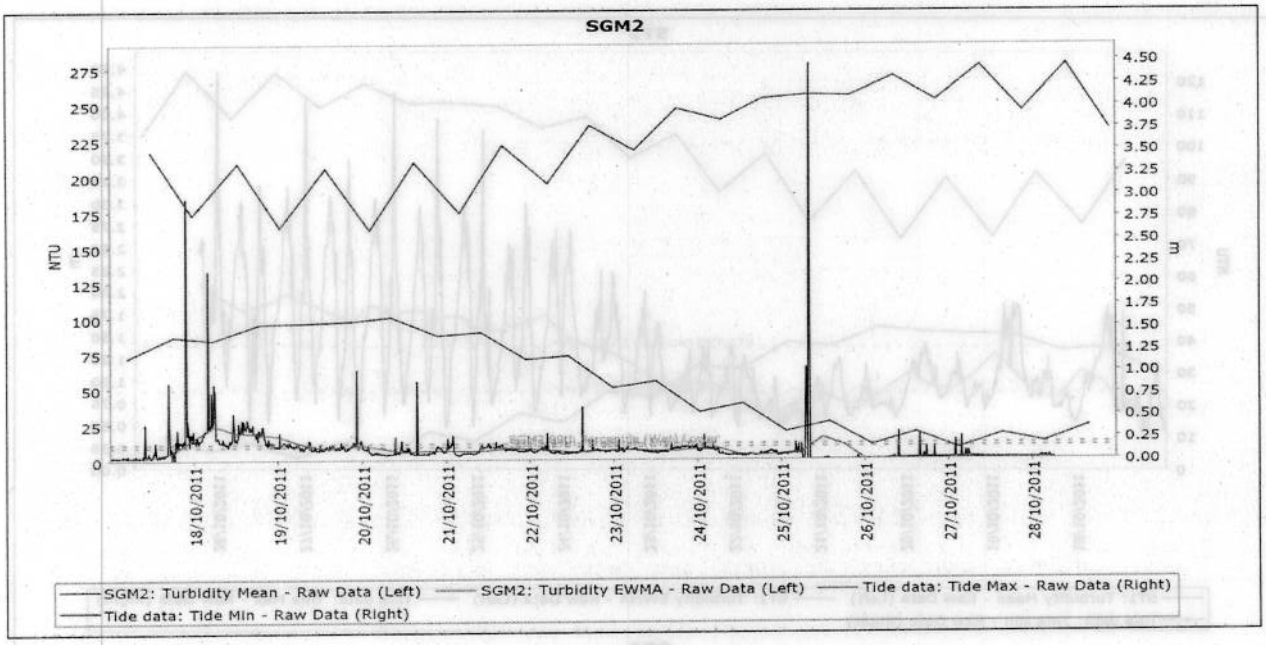
Prediction

Levels are expect to stagnate. Turbidity should decrease early next week.

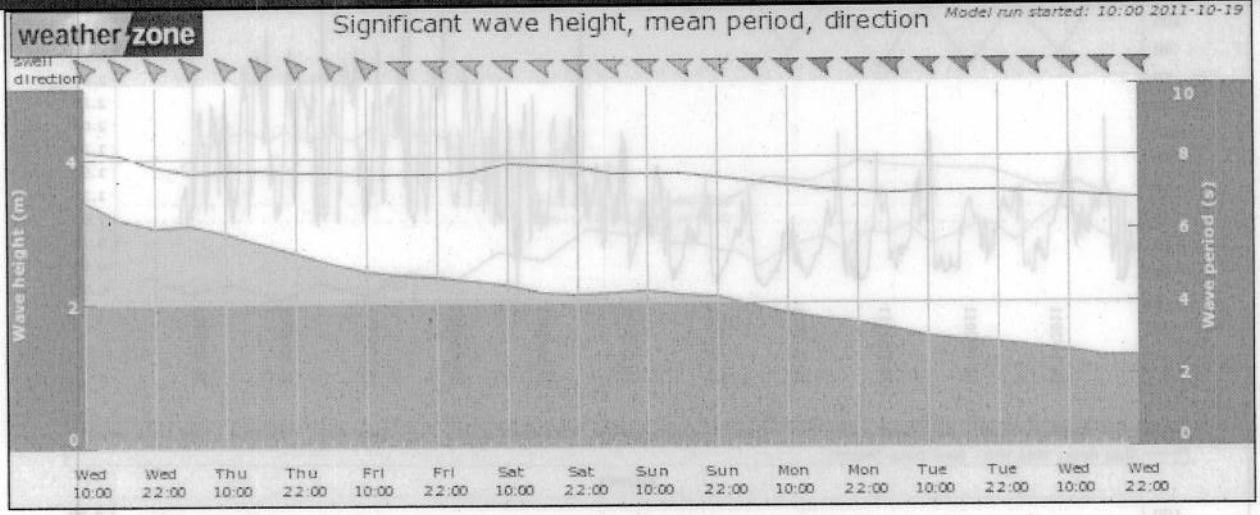
Graphs




ST1
NTU
m
18/10/2011
19/10/2011
20/10/2011
21/10/2011
22/10/2011
23/10/2011
24/10/2011
25/10/2011
26/10/2011
27/10/2011
28/10/2011
ST1: Turbidity Mean - Raw Data (Left)
ST1: Turbidity EWMA - Raw Data (Left)
Tide data: Tide Max - Raw Data (Right)
Tide data: Tide Min - Raw Data (Right)
QE4
NTU
m
QE4: Turbidity Mean - Raw Data (Left)
QE4: Turbidity EWMA - Raw Data (Left)
Tide data: Tide Max - Raw Data (Right)
Tide data: Tide Min - Raw Data (Right)
SGM1
NTU
m
SGM1: Turbidity Mean - Raw Data (Left)
SGM1: Turbidity EWMA - Raw Data (Left)
Tide data: Tide Max - Raw Data (Right)
Tide data: Tide Min - Raw Data (Right)

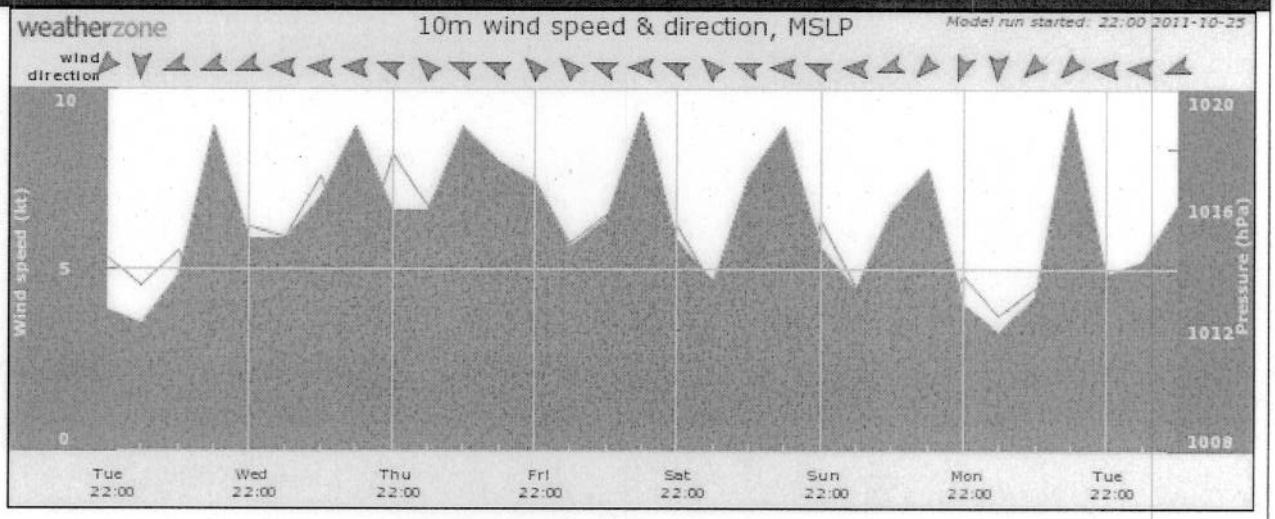


Weather Outlook – Swell and Wave Height



Wednesday 26th October to Wednesdady 2nd November 2011

Weather Outlook - Wind



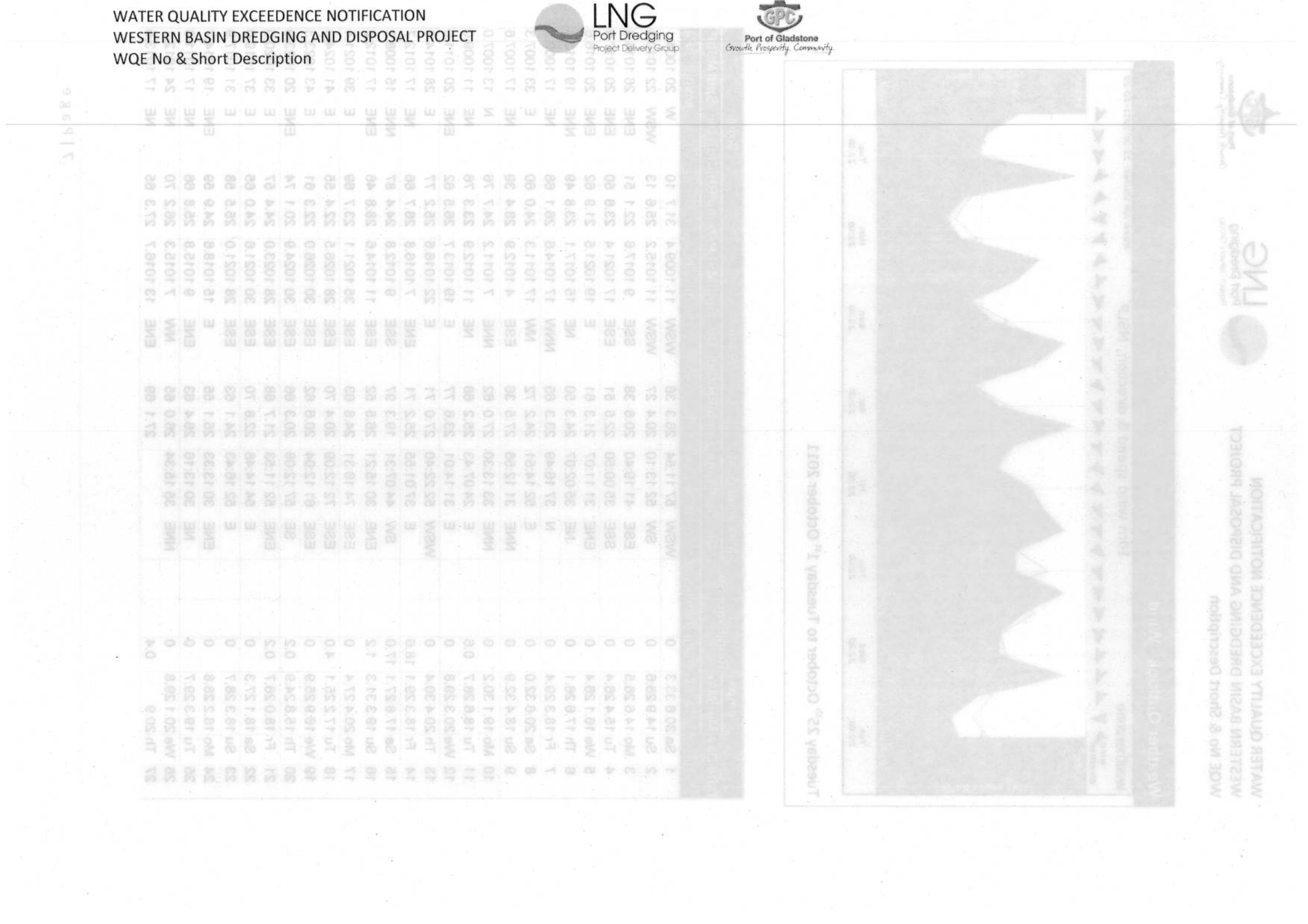
Tuesday 25th October to Tuesday 1st October 2011

Date	Day	Temps		Rain	Evap	Sun	Max wind gust			9 am						3 pm					
		Min	Max				Dir	Spd	Time	Temp	RH	Cld	Dir	Spd	MSLP	Temp	RH	Cld	Dir	Spd	MSLP
		°C	°C	mm	mm	hours		km/h	local	°C	%	8th		km/h	hPa	°C	%	8th		km/h	hPa
1	Sa	20.6	33.3	0			WSW	57	11:54	26.3	36		WSW	11	1009.4	31.7	10		W	20	1004.1
2	Su	14.9	26.6	0			SW	52	13:10	20.4	27		WSW	11	1015.2	25.6	13		WSW	22	1010.4
3	Mo	14.6	26.5	0			ESE	41	19:40	20.6	38		SSE	9	1017.6	22.1	51		ENE	26	1014.3
4	Tu	15.4	26.4	0			SSE	35	00:50	22.5	51		ESE	17	1021.4	23.6	50		ENE	20	1017.9
5	We	16.1	26.4	0			ENE	31	11:07	21.3	61		E	19	1021.5	21.9	62		ENE	20	1016.6
6	Th	17.6	26.1	0			NE	35	02:07	24.3	50		NE	15	1017.1	23.8	49		NNE	19	1013.4
7	Fr	18.3	29.4	0			N	37	16:49	23.3	65		NNW	17	1014.6	26.1	68		NE	17	1009.5
8	Sa	20.6	32.0	0			E	52	14:51	24.2	72		NW	17	1011.3	24.0	60		E	33	1007.3
9	Su	18.4	32.9	0			NNE	31	12:56	27.5	36		ESE	4	1012.9	28.4	39		NE	17	1007.6
10	Mo	19.1	30.2	0			NNE	33	13:30	27.0	62		NNE	7	1011.2	24.7	76		N	13	1007.0
11	Tu	18.6	28.7	0.6			E	24	07:43	25.2	68		NE	11	1012.9	23.3	76		NE	11	1009.0
12	We	20.3	29.8	0			E	31	14:01	23.6	77		E	19	1013.7	26.5	62		ENE	20	1011.0
13	Th	20.4	30.4	0			WSW	52	22:40	27.0	71		E	22	1016.6	25.2	77		E	28	1014.0
14	Fr	18.3	29.1	18.6			E	37	01:55	25.2	71		ENE	7	1016.8	26.7	66		NE	17	1012.7
15	Sa	17.8	27.1	17.0			SW	44	07:31	19.3	97		SSE	9	1012.8	24.4	87		NNE	15	1008.2
16	Su	19.3	31.3	1.2			ENE	30	15:21	26.5	52		ESE	11	1014.6	28.8	46		ENE	17	1012.2
17	Mo	20.4	27.4	0			ESE	74	16:31	24.8	63		ESE	35	1021.1	23.7	69		E	39	1021.4
18	Tu	17.2	25.1	4.0			ESE	72	12:09	20.4	70		ESE	28	1026.5	22.4	55		E	41	1024.3
19	We	16.9	25.9	0			ESE	61	12:04	20.6	62		ESE	30	1026.0	22.3	61		E	43	1023.3
20	Th	15.8	24.9	0.2			SE	57	12:08	20.3	66		ESE	30	1024.9	20.1	74		ENE	20	1023.0
21	Fr	18.0	26.7	0.2			ENE	52	11:53	21.7	68		ESE	28	1023.0	24.4	57		E	33	1020.0
22	Sa	18.1	27.3	0			E	54	14:46	22.8	70		ESE	30	1021.6	24.0	65		E	37	1019.0
23	Su	18.3	28.7	0			E	52	16:43	24.1	63		ESE	28	1021.0	25.5	58		E	31	1017.9
24	Mo	18.2	28.8	0			ENE	30	13:33	25.1	55		E	15	1018.6	24.9	59		ENE	19	1014.7
25	Tu	19.3	29.7	0			NE	30	13:16	26.4	63		ENE	9	1015.8	25.8	66		NE	17	1011.8
26	We	20.1	29.8	0			NNE	35	15:34	26.0	65		NW	7	1015.3	26.2	70		NE	24	1012.1
27	Th	20.9		0.4						27.1	69		ENE	13	1016.7	27.3	65		NE	17	1013.5

WATER QUALITY EXCEEDENCE NOTIFICATION
WESTERN BASIN DREDGING AND DISPOSAL PROJECT
WQE No & Short Description

LNG Port Dredging Project Delivery Group

Port of Gladstone
Growth. Prosperity. Community.



Proposed Actions to Prevent a Recurrence of the WQ Exceedence			
No	**Action/s Taken**	**Responsible Person**	**Due Date / Status**
1.	Prepare Turbidity Management Plan	Michel de Vos	24/10/11
2.	Call DTRP SC	Melanie Sutton	25/10/11
3.	Implement Turbidity Management Plan	Michel de Vos / VODI	25/10/11
4.	Follow-up with DTRP SC	Melanie Sutton	27/10/11

LNG
Port Dredging
Project Delivery Group

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Port of Gladstone
Growth, Prosperity, Community.

ENVIRONMENTAL INCIDENT REPORT

WESTERN BASIN DREDGING AND DISPOSAL PROJECT

001 Oil Spill from dredging into China Bay

15/07/2011

Revision No. and HB Reference

Release/Event Details

Project:	Western Basin Dredging and Disposal Project		
Development Approval No.	SPDE01443011		
Registered Operator	Coastal Dredging Company		
Date of Release/Event:	14/07/2011	**Date of Notification:**	15/07/2011
Time of Release/Event:	15:30	**Time of Notification:**	15:00
LNG Project Contact:	Robert Ferguson		
	P: 0478313906	M: 0478313906	
	E: rferguso@bechtel.com		
Location of Release/Event: *(pictorial reference on map below)*	South China Bay GLNG MoF		

Figure 1: Location of release/event.

EPA's Pollution Hotline (1300 130 372) or local office (4971 6500) notified of release/event?	☒ Yes, date: 14/07/2011 ☐ No

Release/Event Details

Detailed Description of Release/Event

The dredge excavator mounted on the Jackup 1 Barge had a hydraulic hose fail, this caused a discharge of approximately 20 litres of Panolin oil into the water. The excavator was shut down immediately and oil spill respionse equipment was deployed.

Cause of Release/Event

Failure of a hydraulic hose on the dredge excavator arm.

Resulting Effects of Release/Event

Nil, spill was contained and recovered within the marine environment.

Corrective Actions Taken to Mitigate Environmental Harm and/or Nuisance Caused by the Release/Event

No	Action/s Taken	Responsible Person	Due Date / Status
1.			
2.			
3.			
4.			

Results of Sampling (if applicable) Performed in Relation to the Release/Event

☐ *Sampling results attached*

Proposed Actions to Prevent a Recurrence of the Release/Event

No	Action/s Taken	Responsible Person	Due Date / Status
1.			
2.			
3.			
4.			

Approved for release

VODI JV
VAN OORD – DREDGING INTERNATIONAL JOINT VENTURE

PO Box 1399
Gladstone Qld, 4680

ENVIRONMENTAL INCIDENT REPORT

WESTERN BASIN DREDGING AND DISPOSAL PROJECT

Incident No. 009 Hydraulic Oil Spillage SHB Heron

14th of October 2011

Revision No. 0

Release/Event Details

Project:	Western Basin Dredging and Disposal Project		
Development Approval No.	SPDE01443011		
Registered Operator	VAN OORD – DREDGING INTERNATIONAL JOINT VENTURE		
Date of Release/Event:	14/10/2011	**Date of Notification:**	14/10/2011
Time of Release/Event:	14:10	**Time of Notification:**	14:30
VODI Project Contact:	Environmental Officer K. Paridaens		
	P: 0749752243	M: 0487301533	
	E: pko@vodi.com.au		
Location of Release/Event: *(pictorial reference on map below)*	East of North Passage Island		

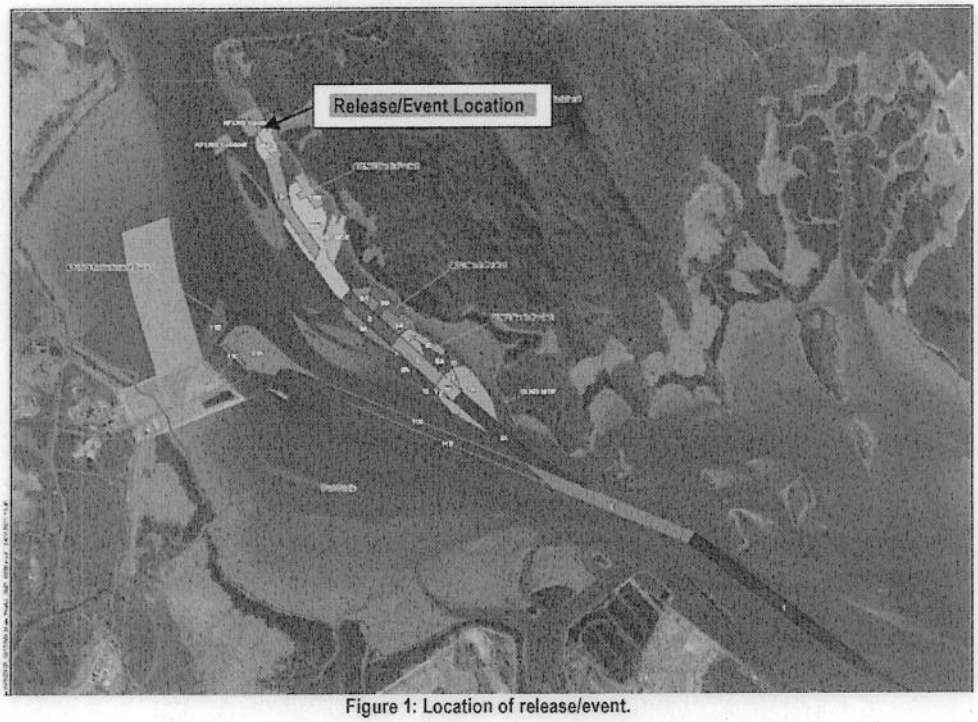

Figure 1: Location of release/event.

EPA's Pollution Hotline (1300 130 372) or local office (4971 6500) notified of release/event?	☒ Yes, date: 14/10/11 ☒ Gladstone Harbour Control Pollution Hotline was informed