

2020

ATTACHMENT 1**International Reporting Form****SEA DUMPING PERMIT INTERNATIONAL REPORTING REQUIREMENTS**

Please fill in this form and return it by **email** only to the Department of the Environment, and the Great Barrier Reef Marine Park Authority, by **31 January each year**. This information is required for Australia's International reporting obligations under the London Protocol.

Email: assessments@gbrmpa.gov.au quoting the permit reference number.

Permit Holder: *Far North Queensland Ports Corporation Ltd (Trading as Ports North)*
Address: *PO Box 594 Cairns QLD 4870*
Submitted by: *Environment Manager*
Phone: *07 4052 3820*
Email: *adam.fletcher@portsnorth.com.au* Date: *29 January 2021*

PERMIT DETAILS:

1) Sea Dumping Permit number: *SD10/03 and G10/33155.1*

2) Permit start date: *11 June 2010*

Permit end date: *1 June 2022*

3) Description of Material: *Please tick relevant box or boxes*

Capital Dredged Material ☐, Maintenance Dredged Material ☒, Sewage Sludge ☐,

Vessels ☐, Fish Waste ☐, Platforms, or other man-made structures ☐, Bulky Waste ☐,

Organic Material of Natural Origin ☐, CO₂ ☐, Inert-Inorganic Geological Material ☐.

4) Total Permit Quantity (cubic metres/number): *4,200,000 dry tonnes including contingency*

5) Approved Disposal Site/s:

Geodetic Datum

Latitude	Longitude
(North/South degrees, minutes, seconds)	(East/West degrees, minutes, seconds)
<i>16° 47' 24" South</i>	<i>145° 48' 48" East</i>

ANNUAL REPORT:

6) Specify the calendar year this report applies to: 2020

7) Quantity dumped in the specified calendar year. Please complete Section A or B.

A. For dredged material disposed please report against all of the following:

Quantity in in-situ cubic metres: 179,380 in-situ cubic metres

Quantity in dry weight tonnes: 175,571 dry tonnes

Remaining permit quantity 383,219 dry tonnes plus contingency

Briefly describe any conversion rates used:

Wet cubic metres recorded from TSHD or grab dredge barge hopper loads. In-situ m³ is calculated from comparison of pre versus post-dredging standards compliant hydrographic survey data, or wet/1.12 to derive in-situ for grab dredge areas. Dry Tonnes for TSHD taken from on-board load records. Dry Tonnes for grab dredge calculated as being wet volume multiplied by dredge area specific factor of between 0.765 and 0.84, to derive dry tonnes) as described in the 2044 and 2015 reports).

As detailed in Table 1 **Volumes per Dredge Method and Area**

Vessel	Dredge Area	Wet Load (m ³)	Dry Tonnes	In-situ (m ³)
Willunga*	Inner Port Wharf 1-12	6,365	5,015	5,683
	CFB1	0	0	0
	CFB2 (incl MSQ)	0	0	0
	Marlin Marina	15,745	12,911	14,058
	Navy Base (Outer)	0	0	0
	Navy Base (Inner)	26,130	21,949	23,330
	"Willunga" subtotal	48,240	39,875	43,071
Brisbane**	Entrance Channel	313,748	135,696	136,309
	Inner Port Channel	0	0	0
	"Brisbane" sub-total	313,748	135,696	136,309
Total Dredged to Dec 31 2020		361,988	175,571	179,380

B. Other wastes (number/volume/type): nil

8) Additional Comments:

Volume was dredged and disposed without incident and consistent with the Permit conditions and the Long Term Dredging and Spoil Disposal Management Plan during the reporting period.

MONITORING OF THE DISPOSAL SITE

9) Was monitoring of the disposal site conducted during the reporting period?

Yes ☒ No ☐

If yes, please complete questions 10-13 of this form.

10) What type(s) of field monitoring was undertaken?

Biological ☒, Geological ☒, Chemical ☒, Physical ☒, Other ☒, (explain):

Benthic Flora and Fauna survey (including geotech properties) conducted at and adjacent to the DMPA, being a five yearly repeat of the regular condition survey outlined in the schedule of the Port of Cairns 2010-2020 LTDSMP. Annual SAP sampling was conducted at the DMPA including the six-regular sites for assessment of chemical and physical parameters.

11) When was field monitoring conducted?

Before dumping ☒, During dumping ☒, After Dumping ☐, Other ☐, (explain, provide dates)

Benthic Flora and Fauna survey (including geotech properties) was conducted at and adjacent to the DMPA during February-March 2020. The annual SAP sampling was also conducted in February 2020.

12) Where any adverse impact(s) found beyond those that were predicted? Yes , No ☒

If yes, briefly describe the impacts (e.g. physical, chemical, or biological) and their spatial or temporal variation.

Outcomes of monitoring at and adjacent the DMPA were consistent with past surveys and impact assessment outlined in the Port of Cairns 2010-2020 LTDSMP, with no unforeseen adverse impacts identified.

13) Provide a website/URL link to Field Monitoring Reports, or any additional information.

- Reports provided to GBRMPA and TACC, with select reports accessible via Ports North website: <https://www.portsnorth.com.au/environment-community>

Dredging and Disposal Monitoring Activities

The following initiatives as outlined in the approved LTDSMP were completed during the period;

- SAP – during February no detections of contaminants exceeding NAGD guideline limits;
- Hydrographic Survey Program – including pre and post surveys of each dredge area and the DMPA for the ongoing survey surveillance program, which informed and optimised the dredging program;
- Marine Pest Monitoring Program - including surveys of areas to be dredged as set out in the approved SAP Report, and periodic checks of the ports monitoring devices, with no detections of actual or suspect material. Biosecurity QLD's Marine Pest program continued at the Port during 2020 with no detections of priority pest species;
- Cairns Long Term Seagrass Monitoring Program – annual survey completed by JCU TropWater, in October 2020, with PAR light data collection and seed viability surveys continued;
- EMP - for the TSHD Brisbane was implemented by the contractor Port of Brisbane Pty Ltd during the channel campaign. Port's North's EMP for the operation of the dredge Willunga was enacted. Both EMP's were implemented satisfactorily and works completed without incident.
- The annual TACC meeting was facilitated on 11 June 2020 with updates provided on permit administration, and the monitoring outcomes with positive feedback provided by the committee on the status of the completed actions.
- No significant events related to the operation of dredge vessels or transport and placement of dredged material were recorded during the period January to December 2020.

ATTACHMENT 1

International Reporting Form

Sea Dumping Permit International Reporting Requirements

Please fill in this form and return it by **email only** to the Department of the Environment and Energy by 31 January each year. This information is required for Australia's International reporting obligations under the London Protocol.

Email: seadumping@environment.gov.au

Permit Holder:	Far North Queensland Ports Corporation Ltd (Trading as Ports North)	
Address:	PO Box 594 Cairns QLD 4870	
Submitted by:	Environment Manager	
Phone:	07 4052 3820	
Email:	adam.fletcher@portsnorth.com.au	Date: 29 January 2020

Sea Dumping Permit number: SD10/03 and G10/33155.1

Permit start date: 17 June 2010

Permit end date: 1 June 2020

Approved dumping site/s:

Geographical position

Latitude	Longitude
16° 47' 24" South	145° 48' 48" East

Permit quantity:

4,200,000 dry tonnes

Quantity dumped (cubic metres/number) in the preceding calendar year:

A total of 231,152 dry tonnes, equal to 599,317 wet m³ from 319,959 in-situ m³ during 2019

Description of material Please tick relevant box or boxes

Capital Dredged Material ☐, Maintenance Dredged Material ☒, Fish Waste ☐,

Vessels ☐, Platforms ☐, Sewage Sludge ☐, Organic Material of Natural Origin ☐,

Bulky Waste ☐, CO₂ ☐, Inert-Inorganic Geological Material ☐,

Comments:

Volume was dredged and disposed without incident and consistent with the Permit and Long Term Dredging and Spoil Disposal Management Plan during the reporting period.

ATTACHMENT 2

SUMMARY OF ACTIVITY

Volumes per Dredge Method and Area

Vessel	Dredge Area	Wet Load (m ³)	Dry Tonnes	In-situ (m ³)
<i>Willunga</i> *	Inner Port Wharf 1-3	5,695	4,271	5,085
	Wharf 4-8	2,345	1,759	2,094
	Wharf 10-12	3,350	2,613	2,991
	CFB1	12,730	9,929	11,366
	CFB2 (incl MSQ)	-	-	-
	Marlin Marina	4,690	3,486	4,188
	Navy Base (Outer)	12,730	9,738	11,366
	Navy Base (Inner)	26,130	21,949	23,330
	"Willunga" subtotal	67,670	54,106	60,420
<i>Brisbane</i> **	Entrance Channel	526,228	174,581	256,894
	Inner Port Channel	5,419	2,465	2,645
	"Brisbane" sub-total	531,647	177,046	259,539
Total Dredged to Dec 31 2019		599,317	231,152	319,959

Notes:

*Dry tonnes and in-situ m³ for inner port *Willunga* dredging based on conversion value utilised in the report for 2014 and 2015.

** In-situ m³ is calculated from comparison of pre versus post-dredging standards compliant hydrographic survey data.

Dredging and Disposal Monitoring Activities

The following initiatives as outlined in the approved LTSDSMP were completed during the period;

- SAP – during February no detections of contaminants exceeding NAGD guideline limits;
- Hydrographic Survey Program – including pre and post surveys of each dredge area and the disposal site for the ongoing survey surveillance program, which informed and optimised the dredging program;
- Marine Pest Monitoring Program - including surveys of areas to be dredged as set out in the approved SAP Report, and periodic checks of the ports monitoring devices, with no detections of actual or suspect material. Biosecurity QLD's Marine Pest program commenced at the Port during 2019;
- Cairns Long Term Seagrass Monitoring Program – annual survey completed by JCU TropWater, in November 2019, with quarterly PAR light data collection and seed viability surveys continued; and
- EMP - for the TSHD *Brisbane* was implemented by the contractor Port of Brisbane Pty Ltd during the channel campaign. Port's North's EMP for the operation of the dredge *Willunga* was enacted. Both EMP's were implemented satisfactorily and works completed without incident.
- Additional dredging activity related monitoring was enacted during the year through implementation of the Dredge Management Plan (DMP) for the Cairns Shipping development Project (CSDP) capital dredging works. This was inclusive of intensive water quality, biological, and plume verification works, portions of which encompassed the period of the 2019 channel maintenance campaign in April –May.

Incidents or Near Miss Events

No significant events related to the operation of dredge vessels or transport and placement of dredged material were recorded during the period January to December 2019.

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Permit Holder:	<i>Far North Queensland Ports Corporation Ltd (Trading as Ports North)</i>	
Address:	<i>PO Box 594 Cairns QLD 4870</i>	
Submitted by:	<i>Environment Manager</i>	
Phone:	<i>07 4052 3820</i>	
Email:	<i>adam.fletcher@portsnorth.com.au</i>	Date: <i>18 January 2019</i>

Sea Dumping Permit number: *SD10/03 and G10/33155.1*

Permit start date: *17 June 2010*

Permit end date: *1 June 2020*

Approved dumping site/s:

Geographical position

Latitude	Longitude
<i>16° 47' 24" South</i>	<i>145° 48' 48" East</i>

Permit quantity:

4,200,000 dry tonnes

Quantity dumped (cubic metres/number) in the preceding calendar year:

A total of 324,904 dry tonnes, equal to 838,858 wet m³ from 517,747 in-situ m³ during 2018

Description of material Please tick relevant box or boxes

Capital Dredged Material ☐, Maintenance Dredged Material ☒, Fish Waste ☐,

Vessels ☐, Platforms ☐, Sewage Sludge ☐, Organic Material of Natural Origin ☐,

Bulky Waste ☐, CO₂ ☐, Inert-Inorganic Geological Material ☐,

Comments:

Volume was dredged and disposed without incident and consistent with the Permit and Long Term Dredging and Spoil Disposal Management Plan during the reporting period.

ATTACHMENT 2

SUMMARY OF ACTIVITY

Volumes per Dredge Method and Area

Vessel	Dredge Area	Wet Load (m ³)	Dry Tonnes	In-situ (m ³)
Willunga*	Inner Port Wharf 1-3	670	503	598
	Inner Port Wharf 4-8	1,675	1,256	1,496
	CFB2			
	Marina	2,010	1,648	1,795
	Navy Base (Outer)			
	"Willunga" subtotal	4,355	3,407	3,889
Brisbane**	Entrance Channel	812,330	309,923	498,858
	Inner Harbour Dredging	22,173	11,574	15,000
	"Brisbane" sub-total	834,503	321,497	513,858
	Total Dredged to Dec 31 2018	838,858 wet m³	324,904 dry tonnes	517,747 in-situ m³

Notes:

*Dry tonnes and in-situ m³ for inner port *Willunga* dredging based on conversion value utilised in the report for 2014 and 2015.

** In-situ m³ is calculated from comparison of pre verses post-dredging standards compliant hydrographic survey data.

An estimate was required for the Inner Harbour Dredging due to lack of access for survey.

Dredging and Disposal Monitoring Activities

The following initiatives as outlined in the approved LTSDSMP were completed during the period;

- Sediment Analysis Plan (SAP) – during May to September with no detections of contaminants exceeding NAGD guideline limits;
- Hydrographic Survey Program – including pre and post surveys of each dredge area and the disposal site for the ongoing survey surveillance program, which informed and optimised the dredging program;
- Marine Pest Monitoring Program - including surveys of areas to be dredged as set out in the approved SAP Report, along with periodic checks of the Cairns Port marine pest monitoring devices, with no detections of actual or suspect material;
- Cairns Harbour and Trinity Inlet Long Term Seagrass Monitoring Program – annual survey completed by James Cook University, TropWater, during October and December 2018, with quarterly PAR light data collection and seed viability surveys continued; and
- Environmental Management Plan (EMP) - for the TSHD *Brisbane* was implemented by the contractor Port of Brisbane Pty Ltd during the channel campaign. Port's North's EMP for the operation of the dredge *Willunga* was enacted. Both EMP's were implemented satisfactorily and works completed without incident.

Incidents or Near Miss Events

No significant events related to the operation of dredge vessels or transport and placement of dredged material were recorded during the period January to December 2018.

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Permit Holder:	<i>Far North Queensland Ports Corporation Ltd (Trading as Ports North)</i>	
Address:	<i>PO Box 594 Cairns QLD 4870</i>	
Submitted by:	<i>Environment Manager</i>	
Phone:	<i>07 4052 3820</i>	
Email:	<i>adam.fletcher@portsnorth.com.au</i>	Date: <i>25 January 2018</i>

Sea Dumping Permit number: *SD10/03 and G10/33155.1*

Permit start date: *17 June 2010*

Permit end date: *1 June 2020*

Approved dumping site/s:

Geographical position

Latitude	Longitude
<i>16° 47' 24" South</i>	<i>145° 48' 48" East</i>

Permit quantity:

4,200,000 dry tonnes

Quantity dumped (cubic metres/number) in the preceding calendar year:

A total of 270,350 dry tonnes, equal to 767,382 wet m³ from 391,585 in-situ m³ during 2017

Description of material Please tick relevant box or boxes

Capital Dredged Material ☐, Maintenance Dredged Material ☒, Fish Waste ☐,

Vessels ☐, Platforms ☐, Sewage Sludge ☐, Organic Material of Natural Origin ☐,

Bulky Waste ☐, CO₂ ☐, Inert-Inorganic Geological Material ☐,

Comments:

Volume was dredged and disposed without incident and consistent with the Permit and Long Term Dredging and Spoil Disposal Management Plan during the reporting period.

ATTACHMENT 2

SUMMARY OF ACTIVITY

Volumes per Dredge Method and Area

Vessel	Dredge Area	Wet Load (m ³)	Dry Tonnes	In-situ (m ³)
Willunga*	Inner Port Wharf 1-3	2,010	1,508	1,795
	Inner Port Wharf 4-8	3,015	2,261	2,692
	CFB2	2,345	1,829	2,094
	Marina			
	Navy Base (Outer)	24,790	18,964	22,134
	"Willunga" subtotal	37,520	28,743	33,500
Brisbane**	Entrance Channel	779,414	258,482	358,095
	Inner Port Channel	0	0	0
	"Brisbane" sub-total	779,414	258,482	358,095
Total Dredged to Dec 31 2017		816,934 wet m³	287,225 dry tonnes	391,595 in-situ m³

Notes:

*Dry tonnes and in-situ m³ for inner port *Willunga* dredging based on conversion value utilised in the report for 2014 and 2015.

** In-situ m³ is calculated from comparison of pre versus post-dredging standards compliant hydrographic survey data.

Dredging and Disposal Monitoring Activities

The following initiatives as outlined in the approved LTSDMP were completed during the period;

- Sediment Analysis Plan (SAP) – during March- June 2017 for the Channel, Inner Port, Marina and Navy Base areas, with no detections of contaminants exceeding NAGD guideline limits.
- Hydrographic Survey Program – including pre and post surveys of each dredge area and the disposal site for the ongoing survey surveillance program, which informed and optimised the dredging program;
- Marine Pest Monitoring Program - including surveys of areas to be dredged as set out in the approved SAP Report, along with periodic checks of the Cairns Port marine pest monitoring devices, with no detections of actual or suspect material;
- Cairns Harbour and Trinity Inlet Long Term Seagrass Monitoring Program – annual survey completed by James Cook University, TropWater, during October and December 2017, with quarterly PAR light data collection and seed viability surveys continued; and
- Environmental Management Plan (EMP) for the TSHD *Brisbane* – was implemented by the contractor Port of Brisbane Pty Ltd during the channel campaign. Port's North's EMP for the operations of the dredge *Willunga* was enacted, including the dredging at HMAS Cairns Navy Base between September and November. Both EMP's were implemented satisfactorily and works completed without incident.

Incidents or Near Miss Events

No significant events related to the operation of dredge vessels or transport and placement of dredged material were recorded during the period January to December 2017.



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Email: seadumping@environment.gov.au

Permit Holder:	<i>Far North Queensland Ports Corporation Ltd (Trading as Ports North)</i>	
Address:	<i>PO Box 594 Cairns QLD 4870</i>	
Submitted by:	<i>Environment Manager</i>	
Phone:	<i>07 4052 3820</i>	
Email:	<i>adam.fletcher@portsnorth.com.au</i>	Date: <i>27 January 2017</i>

Sea Dumping Permit number: *SD10/03 and G10/33155.1*

Permit start date: *17 June 2010*

Permit end date: *1 June 2020*

Approved dumping site/s:

Geographical position

Latitude	Longitude
<i>16° 47' 24" South</i>	<i>145° 48' 48" East</i>

Permit quantity:

4,200,000 dry tonnes

Quantity dumped (cubic metres/number) in the preceding calendar year:

A total of 339,212 dry tonnes, equal to 844,591 wet m³ from 452,152 in-situ m³ during 2016

Description of material Please tick relevant box or boxes

Capital Dredged Material ☐, Maintenance Dredged Material ☒, Fish Waste ☐,

Vessels ☐, Platforms ☐, Sewage Sludge ☐, Organic Material of Natural Origin ☐,

Bulky Waste ☐, CO₂ ☐, Inert-Inorganic Geological Material ☐,

Comments:

Volume was dredged and disposed without incident and consistent with the Permit and Long Term Dredging and Spoil Disposal Management Plan during the reporting period.

ATTACHMENT 2

SUMMARY OF ACTIVITY

Volumes per Area and Method

Vessel	Dredge Area	Wet Load (m ³)	Dry Tonnes	In-situ (m ³)
<i>Willunga</i> *	Inner Port Wharf 1-3	1,005	754	897
	Inner Port Wharf 4-8	4,020	3,015	3,589
	CFB2	6,030	4,703	5,384
	Marina	13,065	10,713	11,665
	Navy Base (Inner)	15,745	13,226	14,058
	"Willunga" subtotal	39,865	32,411	35,593
<i>Brisbane</i> **	Entrance Channel	804,726	306,801	416,559
	Inner Port Channel	0	0	0
	"Brisbane" sub-total	804,726	306,801	416,559
Total Dredged to Dec 31 2016		844,591 wet m³	339,212 dry tonnes	452,152 in-situ m³

Notes:

*Dry tonnes and in-situ m³ for inner port *Willunga* dredging based on conversion value utilised in the report for 2014 and 2015.

** In-situ m³ is calculated from comparison of pre verses post-dredging standards compliant hydrographic survey data.

Dredging and Disposal Monitoring Activities

The following initiatives as outlined in the approved LTSDMP were completed during the period;

- Sediment Analysis Plan (SAP) – during May- June 2016 for the Channel, Inner Port, Marina and Navy Base areas.
- Hydrographic Survey Program – including pre and post surveys of each dredge area and the disposal site as part of the ongoing survey surveillance program;
- Benthic Flora and Fauna Study of the ocean disposal site was completed in June 2016;
- Marine Pest Monitoring Program - including surveys of areas to be dredged as set out in the approved SAP Report, along with periodic checks of the Cairns Port marine pest monitoring devices;
- Cairns Harbour and Trinity Inlet Long Term Seagrass Monitoring Program – annual survey completed by James Cook University, TropWater, during October and December 2016, and;
- Environmental Management Plan (EMP) for the TSHD *Brisbane* – was implemented by the contractor Port of Brisbane Pty Ltd during the channel campaign. Port's North's EMP for the operations of the dredge *Willunga* was enacted, including the dredging at HMAS Cairns Navy Base in September to December. Both EMP's were implemented satisfactorily and works completed without incident.

Incidents or Near Miss Events

No significant events related to the operation of dredge vessels or transport and placement of dredged material were recorded during the period January to December 2016.

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Email: portsandmarine@environment.gov.au

Permit Holder:	<i>Far North Queensland Ports Corporation Ltd (Trading as Ports North)</i>	
Address:	<i>PO Box 594 Cairns QLD 4870</i>	
Submitted by:	<i>Environment Manager</i>	
Phone:	<i>07 4052 3820</i>	
Email:	<i>adam.fletcher@portsnorth.com.au</i>	Date: <i>13 January 2016</i>

Sea Dumping Permit number: *SD10/03 and G10/33155.1*

Permit start date: *17 June 2010*

Permit end date: *1 June 2020*

Approved dumping site/s:

Geographical position

Latitude	Longitude
<i>16° 47' 24" South</i>	<i>145° 48' 48" East</i>

Permit quantity:

6,600,000 m³ (wet load cubic metres).

Quantity dumped (cubic metres/number) in the preceding calendar year:

A total of 987,520 wet m³ equal to 348,602 dry tonnes, equal to 534,558 in-situ m³ during 2015

Description of material Please tick relevant box or boxes

Capital Dredged Material ☐, Maintenance Dredged Material ☒, Fish Waste ☐,

Vessels ☐, Platforms ☐, Sewage Sludge ☐, Organic Material of Natural Origin ☐,

Bulky Waste ☐, CO₂ ☐, Inert-Inorganic Geological Material ☐,

Comments:

Volume was dredged and disposed without incident and consistent with the Permit and Long Term Dredging and Spoil Disposal Management Plan during the reporting period.

ATTACHMENT 2

SUMMARY OF ACTIVITY

Volumes per Area and Method

Vessel	Dredge Area	Wet Load (m ³)	Dry Tonnes	In-situ m ³
<i>Willunga</i> *	Inner Port Wharf 1-3	2,345	1,759	2,093
	Inner Port Wharf 4-8	9,045	6,784	8,075
	CFB1	13,735	10,713	12,263
	Wharf No. 12	3,685	2,874	3,290
	Navy Base (Outer)	12,499	9,562	11,159
	"Willunga" subtotal	41,309	31,692	36,880
<i>Brisbane</i> **	Entrance Channel (1 to 24/9/15)	708,986	245,085	373,996
	Entrance Channel (2 to 10/12/15)	237,225	71,825	124,305
	Inner Port Channel	0	0	0
	"Brisbane" sub-total	946,211	316,910	497,678
Total Dredged to Dec 31 2015		987,520 wet m³	348,602 dry tonnes	534,558 In-situ m³

Notes: *Dry tonnes and in-situ m³ for inner port *Willunga* dredging based on conversion value shown in *Attachment 3*.

** In-situ m³ is calculated from comparison of pre versus post-dredging standards compliant hydrographic survey data.

Material

Material has been described in the GBRMPA approved Sediment Analysis Plan Reports for 2015 (Channel, Inner Port and Navy Base) areas, as being fine silty clays from Port of Cairns maintenance dredging.

Dredging and Disposal Monitoring Activities

The following initiatives as outlined in the approved LTDSMP were completed during the period;

- Sediment Analysis Plan (SAP) – during March- July 2015 for the Channel, Inner Port and Navy Base areas.
- Hydrographic Survey Program – including pre and post dredging and disposal surveys and ongoing surveillance program;
- Marine Pest Monitoring Program - including surveys of areas to be dredged as set out in the approved SAP Report, along with periodic checks of the Cairns Port marine pest monitoring devices, and;
- Cairns Harbour and Trinity Inlet Long Term Seagrass Monitoring Program – annual survey completed by James Cook University, TropWater, during October and December 2015.
- Environmental Management Plan for the TSHD *Brisbane* – was implemented by the contractor Port of Brisbane Pty Ltd during the channel campaign. Port's North's EMP for the operations of the dredge *Willunga* was enacted, including the dredging at HMAS Cairns Navy Base in August-September. Both EMP's were implemented satisfactorily and works completed without incident.

Incidents or Near Miss Events

No significant events related to the operation of dredge vessels or transport and placement of dredged material were recorded during the period January to December 2015.

ATTACHMENT 3

UNITS OF MEASURE AND CONVERSION FACTORS

Table 3.1 Wet volume to dry tonnes - *Willunga* Dredging- Converted values

Area	Barges	Wet cu.m	conv factor	dry tonnes	source of conversion factor
CFB1	41	13,735	0.78	10,713	Assume as per Navy and No 12
No1-3	7	2,345	0.75	1,759	As per 2014 for main wharves
No4-8	27	9,045	0.75	6,784	As per 2014 for main wharves
No. 12	11	3,685	0.78	2,874	As per wharf 10 2014 and adjacent 2015 Navy Test
Navy (outer areas)	38	12,499	0.765	9,562	Two density tests 0.75 & 0.78
TOTAL		41,309		31,692	

Table 3.2 2014 Barge Loads to in-situ survey comparison

Navy Dredging Total barge Volumes (Wet cu.m)	26,130
Navy Dredging Pre-Dredge to Post-Dredge survey volume (<i>in-situ</i>) difference (cu.m)	23,342
Conversion ('Bulking' Factor)	1.12

Note: This factor was used to determine the in-situ cu.m values for the inner port areas in 2014, and was also used to derive the 2015 in-situ figure for 2015 "*Willunga*" activity.



International Reporting Form

ATTACHMENT 1.

Sea Dumping Permit International Reporting Requirements

Please fill in this form and return it by **email only** to the Department of Sustainability, Environment, Water, Population and Communities by 31 January each year. This information is required for Australia's International reporting obligations under the London Protocol.
Email: portsandmarine@environment.gov.au

Permit Holder: *Far North Queensland Ports Corporation Ltd (Trading as Ports North)*

Address: *PO Box 594 Cairns QLD 4870*

Submitted by: *Environment Manager*

Phone: *07 4052 3820*

Email: *adam.fletcher@portsnorth.com.au*

Date: *28 January 2014*

Sea Dumping Permit number: *SD10/03 and G10/33155.1*

Permit start date: *17 June 2010*

Permit end date: *1 June 2020*

Approved dumping site/s:

Geographical position

Latitude	Longitude
<i>16° 47' 24" South</i>	<i>145° 48' 48" East</i>

Permit quantity:

6,600,000 m³ (wet load cubic metres).

Quantity dumped (cubic metres/number) in the preceding calendar year:

A total of 869,795 wet m³ equal to 376,034 dry tonnes, equal to 574,447 in-situ m³ during 2014

Description of material Please tick relevant box or boxes

Capital Dredged Material ☐, Maintenance Dredged Material ☒, Fish Waste ☐,

Vessels ☐, Platforms ☐, Sewage Sludge ☐, Organic Material of Natural Origin ☐,

Bulky Waste ☐, CO₂ ☐, Inert-Inorganic Geological Material ☐,

Comments:

Volume was dredged and disposed without incident and consistent with the Long Term Dredging and Spoil Disposal Management Plan during the reporting period.



Summary of Activity

ATTACHMENT 2.

Volumes per area and method

Vessel	Dredge Area	Wet Load (m ³)	Dry Tonnes *	In-situ m ³ **
Willunga	Inner Port Wharf 1-6	1,675	* 1,256	** 1,496
	Inner Port Wharf 10	4,355	* 3,397	** 3,890
	Marlin Marina	15,410	* 12,636	** 13,766
	Navy Base (Inner)	26,130	* 21,949	** 23,342
	"Willunga" subtotal	47,570	39,239	42,494
Brisbane	Entrance Channel	822,225	336,795	531,953
	Inner Port Channel	0	0	0
	"Brisbane" sub-total	822,225	336,795	531,953
Total Dredged to Dec 31 2014		869,795 wet m³	376,034 dry tonnes	574,447 in-situ m³

Notes: *Dry tonnes based on conversion values shown in Attachment 3.

** In-situ m³ is calculated from pre versus post-dredging hydrographic survey data (refer Attachment 3. Table 3.3).

Material;

Material has been described in the GBRMPA approved Sediment Analysis Plan Reports for 2013 (Marina) and 2014 (Channel, Inner Port and Navy Base) areas, as being fine silty clays from Port of Cairns maintenance dredging.

Dredging and Disposal Monitoring Activities;

The following initiatives as outlined in the approved LTSDMP were completed during the period;

- Sediment Analysis Plan (SAP) – during March- July 2014 for the Channel, Inner Port and Navy Base areas. Further phases of the SAP were enacted at CFB1 and CFB2 in late 2014 with reports to be provided in early 2015.
- Hydrographic Survey Program – including pre and post dredging and disposal surveys and ongoing surveillance program;
- Marine Pest Monitoring Program - including surveys of areas to be dredged as set out in the approved SAP Report, along with periodic checks of the Cairns Port marine pest monitoring devices, and;
- Cairns Harbour and Trinity Inlet Long Term Seagrass Monitoring Program – annual survey completed by James Cook University, TropWater, during November 2014.
- Environmental Management Plan for the TSHD *Brisbane* – was implemented by the contractor Port of Brisbane Pty Ltd during the channel campaign. Port's North's EMP for the operations of the dredge *Willunga* was enacted, including the dredging at HMAS Cairns Navy Base in Sept-November. Both EMP's were implemented satisfactorily and works completed without incident.

Incidents or Near Miss Events;

No events related to the operation of dredge vessels or transport and placement of dredged material were recorded during the period January to December 2014.



Summary of Conversion Figures

ATTACHMENT 3.

WILLUNGA GRAB DREDGE QUANTITIES DETERMINATION – 2014

Table 3.1 Density Tests November 2014

Sample No.	Sample Label	Dredge / Sample Description	SGS Laboratory Density Testing Results			
			Bulk Density	Soil Density	"Dry" Density	Moisture Content (%)
1	Grab 1	Grab 1 from top metre Navy	1.37	2.12	0.86	58.8
2	Grab 2	Grab 2 from top metre Navy	1.31	2.1	0.82	59.1
3	Grab 3	Grab 3 for 1m-2m Navy	1.35	2.1	0.85	59.7
4	Grab 4	Grab 4 from 1m -2m Navy	1.36	2.09	0.85	59.5
5	Grab 5	Grab 5 from 1m - 2m Navy	1.34	1.98	0.84	59.6
6	Grab 6	Grab 6 from 1m - 2m Navy	1.35	2.08	0.85	59.7

Densities in tonnes/cubic metre

Average Dry Density
0.84

Table 3.2 - Assumed dry tonnes Conversion factors for other areas

Area	Dredge Frequency	Degree of seafloor disturbance	Current Exposure	Wet cu.m to dry t Conversion Factor
Navy	Biennial	Low	Low	0.84
Marina	Biennial	High (very high vessel numbers, shallow draft)	Low-Med	0.82
Wharf 10	Yearly	high (low vessel numbers , deep draft)	High	0.78
Wharf 1-6	Yearly	Very High (large Cruise ships, land backed, stormwater outlets)	Medium	0.75

Table 3.3 Barge Loads to in-situ survey comparison

Navy Dredging Total barge Volumes (Wet cu.m)	26,130
Navy Dredging Pre-Dredge to Post-Dredge survey volume (<i>in-situ</i>) difference (cu.m)	23,342
Conversion ('Bulking' Factor)	1.12

Note: This factor is assumed constant over the various areas dredged in 2014.

Table 3.4 - Converted values

Area	Wet cu.m	Dry Tonnes	in-situ cu.m
Navy	26,130	21,949	23,342
Marina	15,410	12,636	13,766
Wharf 10	4,355	3,397	3,890
Wharf 1-6	1,675	1,256	1,496
Totals	47,570	39,239	42,494

Appendix 2: Sea Dumping Permit International Reporting Requirements

Please fill in this form and return it by **email only** to the Department of Sustainability, Environment, Water, Population and Communities by 31 January each year. This information is required for Australia's International reporting obligations under the London Protocol.

Email: portsandmarine@environment.gov.au

Permit Holder: <i>Far North Queensland Ports Corporation Ltd (Trading as Ports North)</i>	
Address: <i>PO Box 594 Cairns QLD 4870</i>	
Submitted by: <i>Environment Manager</i>	
Phone: <i>07 4052 3820</i>	
Email: <i>adam.fletcher@portsnorth.com.au</i>	Date: <i>28 January 2014</i>

Sea Dumping Permit number: *SD10/03 and G10/33155.1*

Permit start date: *17 June 2010*

Permit end date: *1 June 2020*

Approved dumping site/s:

Geographical position

Latitude	Longitude
<i>16° 47' 24" South</i>	<i>145° 48' 48" East</i>

Permit quantity:

6,000,000 m³ (wet load), being a maximum of 550,000 (wet load) m³ per annum) plus (1,100,000m³) contingency.

Quantity dumped (cubic metres/number) in the preceding calendar year:

Total of 928,199 wet cu. m³

Description of material Please tick relevant box or boxes

Capital Dredged Material ☐, Maintenance Dredged Material ☒, Fish Waste ☐,

Vessels ☐, Platforms ☐, Sewage Sludge ☐, Organic Material of Natural Origin ☐,

Bulky Waste ☐, CO₂ ☐, Inert-Inorganic Geological Material ☐,

Comments:

Volume was dredged and disposed without incident and consistent with the Long Term Dredging and Spoil Disposal Management Plan during the reporting period.

Summary of Activity

Dredge Volumes per Vessel Method;

Vessel	Dredge Area	Wet Load (m ³)
<i>Willunga</i>	Inner Port Wharf 1-6	3,015
	Inner Port Wharf 10	4,690
	Inner Port Wharf 12	9,380
	Marlin Marina	6,365
	Navy Base (Inner)	
	Navy Base (Outer)	13,735
	Maritime Safety Queensland	6,030
	Commercial Fisherman's Base 1	16,415
	Commercial Fisherman's Base 2	1,675
	"Willunga" subtotal	61,305
<i>Brisbane</i>	Entrance Channel	866,894
	Inner Port Channel	0
	"Brisbane" sub-total	866,894
	Total Dredged to Dec 31 2013	928,199 wet cu. m³

Material;

As described in the GBRMPA approved 2013 Sediment Analysis Plan Reports, being fine silty clays from Port of Cairns maintenance dredging.

Dredging and Disposal Monitoring Activities;

The following initiatives as outlined in the approved LTSDSMP were completed during the period;

- Sediment Analysis Plan (SAP) – during March- July 2013 for the Channel, Inner Port and Navy Base areas.
- An additional SAP was implemented for the Maritime Safety Queensland dredge area during July-September 2013.
- Hydrographic Survey Program – including pre and post dredging and disposal surveys and ongoing surveillance program;
- Marine Pest Monitoring Program - including surveys of areas to be dredged as set out in the approved SAP Report, along with periodic checks of the Cairns Port marine pest monitoring devices, and;
- Cairns Harbour and Trinity Inlet Long Term Seagrass Monitoring Program – survey completed by James Cook University, TropWater, during October 2013.

Incidents or Near Miss Events;

No events related to the operation of dredge vessels or transport and placement of dredged material were recorded during the period January to December 2013.

Sea Dumping Permit International Reporting Requirements

Please fill in this form and return it by email **only** to the Department of Sustainability, Environment, Water, Population and Communities by 31 January each year. This information is required for Australia's International reporting obligations under the London Protocol.

Email: portsandmarine@environment.gov.au

Permit Holder:

Far North Queensland Ports Corporation Ltd (Trading as Ports North)

Address: *PO Box 594 Cairns QLD 4870*

Submitted by: *Environment Manager*

Phone: *07 4052 3820*

Email: *adam.fletcher@portsnorth.com.au*

Date: *31 January 2013*

Sea Dumping Permit number: *SD10/03 and G10/33155.1*

Permit start date: *17 June 2010*

Permit end date: *1 June 2020*

Approved dumping site/s:

Geographical position

Latitude	Longitude
<i>16° 47' 24" South</i>	<i>145° 48' 48" East</i>

Permit quantity:

6,600,000 m³ (wet load), being a maximum of 550,000 (wet load) m³ per annum) plus (1,100,000m³) contingency.

Quantity dumped (cubic metres/number) in the preceding calendar year:

Total of 777,175 m³

Description of material Please tick relevant box or boxes

Capital Dredged Material ☐, Maintenance Dredged Material ☒, Fish Waste ☐,

Vessels ☐, Platforms ☐, Sewage Sludge ☐, Organic Material of Natural Origin ☐,

Bulky Waste ☐, CO₂ ☐, Inert-Inorganic Geological Material ☐,

Comments:

Volume was dredged and disposed without incident and consistent with the Long Term Management Plan during the reporting period.

Summary of Activity

Dredge Volumes per Vessel Method:

Vessel	Dredge Area	Wet Load (m ³)
<i>Willunga</i>	Inner Port Wharf 1-6	25,460
	Inner Port Wharf 10	
	Inner Port Wharf 12	5360
	Marlin Marina	1005
	Navy Base (Inner)	26,130
	Navy Base (Outer)	
	Commercial Fisherman's Base 1	
	Commercial Fisherman's Base 2	
	"Willunga" subtotal	57,955
<i>Brisbane</i>	Channel	719,220
	"Brisbane" sub-total	719,220
	Total Dredged to Dec 31 2012	777,175

30820

Material:

As described in the GBRMPA approved 2012 Sediment Analysis Plan Report, being fine silty clays from Port of Cairns maintenance dredging.

Dredging and Disposal Monitoring Activities:

The following initiatives as outlined in the approved LTMP were completed during the period;

- Sediment Analysis Plan (SAP) – during March- June 2012 for the Channel, Inner Port and Navy Base areas.
- Hydrographic Survey Program – including pre and post dredging and disposal surveys, and ongoing;
- Marine Pest Monitoring Program - including surveys of areas to be dredged as set out in the approved SAP Report, along with periodic checks of the Cairns Port marine pest monitoring devices;
- Cairns Harbour – Trinity Inlet Seagrass Monitoring Program – survey completed by Fisheries Queensland during October and November 2012.

Incidents or Near Miss Events:

No events related to the operation of dredge vessels, or transport and placement of dredged material was recorded during the period January to December 2012.

Appendix 2: Sea Dumping Permit International Reporting Requirements

Please fill in this form and return it by **email only** to the Department of Sustainability, Environment, Water, Population and Communities by 31 January each year. This information is required for Australia's International reporting obligations under the London Protocol. Email: portsandmarine@environment.gov.au

Permit Holder: *Far North Queensland Ports Corporation Ltd (Trading as Ports North)*

Address: *PO Box 594 Cairns QLD 4870*

Submitted by: *Environment Manager*

Phone: *07 4052 3820*

Email: *adam.fletcher@portsnorth.com.au*

Date: *24 January 2012*

Sea Dumping Permit number: *SD10/03 and G10/33155.1*

Permit start date: *17 June 2010* Permit end date: *1 June 2020*

Approved dumping site/s:

Geographical position

Latitude	Longitude
<i>16° 47' 24'' South</i>	<i>145° 48' 48'' East</i>

Permit quantity: *6,000,000 m³ (wet load), being a maximum of 550,000 (wet load) m³ per annum plus (1,100,000m³) contingency.*

Quantity dumped (cubic metres/number) in the preceding calendar year:

Total of 783,531m³ including Contingency volume

Description of material Please tick relevant box or boxes

Capital Dredged Material ☐, Maintenance Dredged Material ☒, Fish Waste ☐,

Vessels ☐, Platforms ☐, Sewage Sludge ☐, Organic Material of Natural Origin ☐,

Bulky Waste ☐, CO₂ ☐, Inert-Inorganic Geological Material ☐,

Comments:

Summary of Activity

Dredge Volumes per Vessel Method;

(highlighted values derived by x0.7 conversion from wet load);

Vessel	Dredge Area	Wet Load (m ³)	Dry Solid Load (t)
<i>Willunga</i>	Inner Port Wharf 1-6	8,375	5,862.50
	Inner Port Wharf 10	5,360	3,752
	Inner Port Wharf 12	0	0
	Marlin Marina	21,105	14,773.5
	Navy Base (Inner)	0	0
	Navy Base (Outer)	12,060	8,442
	Commercial Fishermans Base 1	0	0
	Commercial Fishermans Base 2	0	0
	"Willunga" subtotal	46,900	32,830
<i>Brisbane</i>	Channel - dredged	550,000	385,000
	Contingency	186,631	130,641
	"Brisbane" sub-total	736,631	205,990
	Permit Limit	550,000	385,000
	Approved Contingency	347,192	243,034
	Total Contingency Dredged	233,531	163,471
	Total Dredged to Dec 31 2011	783,531	548,471

Material;

As described in the GBRMPA approved 2011 Sediment Analysis Plan Report, being fine silty clays from Port of Cairns maintenance dredging.

Dredging and Disposal Monitoring Activities;

The following initiatives as outlined in the approved LTMP were completed during the period;

- Sediment Analysis Plan (SAP) – during March 2011 for the Channel, Inner Port and Navy Base areas. Sampling was completed for Marlin Marina, and the two Commercial Fisherman's Bases during November 2011;
- Hydrographic Survey Program – including pre and post dredging and disposal surveys, and ongoing;
- Marine Pest Monitoring Program - including surveys of areas to be dredged as set out in the approved SAP Report, and the Cairns Port Marine Pest Monitoring- quarterly schedule;
- Cairns Harbour – Trinity Inlet Seagrass Monitoring Program – survey completed by Fisheries Queensland during October -November 2011.

Incidents or Near Miss Events;

No events related to the operation of dredge vessels, or transport of disposal of spoil was recorded during the period January to December 2011.



Appendix 2: Sea Dumping Permit International Reporting Requirements

Please fill in this form and return it by **email only** to the Department of the Environment, Water, Heritage and the Arts by 31 January each year. This information is required for Australia's International reporting obligations under the London Protocol. Email: portsandmarine@environment.gov.au and permits@gbmpa.gov.au

Permit Holder: Far North Queensland Ports Corporation Ltd,
trading as Ports North

Address: PO Box 594 Cairns QLD 4870

Submitted By: General Manager-Operations

Phone: 074052 3888

Email: michael.barnett@portsnorth.com.au

Date: 20/01/2011

Sea Dumping Permit: SD10/03

Permit start date: 11/06/2010 **Permit end date:** 01/06/2020

Approved dumping site/s: Port of Cairns Spoil Ground

Geographical position

Latitude	Longitude
16° 47' 24"	145° 48' 48"

Permit quantity: 6,6000,000 m³ (wet load)

Quantity dumped (cubic metres/number) in the preceding calendar year;
743,428m³ (wet load)

Description of material Please tick relevant box or boxes

Capital Dredged Material ☐, Maintenance Dredged Material ☒, Fish Waste ☐,

Vessels ☐, Platforms ☐, Sewage Sludge ☐, Organic Material of Natural Origin ☐,

Bulky Waste ☐, CO₂ ☐, Inert-Inorganic Geological Material ☐,

Comments:



Summary of Activity

Dredge Volumes per Vessel Method;

(highlighted values derived by x0.7 conversion from wet load);

Vessel	Dredge Area	Wet Load (m ³)	Dry Solid Load (t)
<i>Willunga</i>	Inner Port Wharf 1-6	2,345	1,642
	Inner Port Wharf 10	1,005	704
	Inner Port Wharf 12	7,035	4,925
	Marlin Marina	0	0
	Navy Base (Inner)	24,120	16,884
	Navy Base (Outer)	0	0
	Commercial Fishermans Base 1	0	0
	Commercial Fishermans Base 2	0	0
<i>Brisbane</i>	Channel	708,923	177,505
	Inner Port	0	0
Total to Dec 31 2010		743,428	201,659
Permit Limit (550,000 wtm ³)		550,000	385,000

Material;

As described in the GBRMPA approved 2010 Sediment Analysis Plan Report, being fine silty clays from Port of Cairns maintenance dredging.

Dredging and Disposal Monitoring Activities;

The following initiatives as outlined in the approved LTMP were completed during the period;

- Sediment Analysis Plan (SAP) – during May 2010
- Hydrographic Survey Program – including pre and post dredging and disposal surveys, and ongoing;
- Marine Pest Monitoring Program - including surveys of areas to be dredged as set out in the approved SAP Report, and the Cairns Port Marine Pest Monitoring quarterly program in August, October and December
- Cairns Harbour – Trinity Inlet Seagrass Monitoring Program – survey completed by Fisheries Queensland during October -November 2010

Incidents or Near Miss Events;

No events related to the operation of dredge vessels, or transport or disposal of spoil was recorded during the period June to December 2010.