



Our ref: 2022_04_19_535_Kurnell_community_update_1_draft_WSP_PS131412-CLM-LTR-101
RevB.docx

19 April 2022

Dear Kurnell resident,

Kurnell overflow incident response 7th April 2022 – Results of the initial sampling round

1. Introduction

On 7th April 2020, the wastewater treatment plant at Ampol's Kurnell terminal overflowed due to heavy rainfall. WSP has produced this document to explain the results of investigations undertaken between 7 to 12 April 2022. WSP has been acting as Ampol's environmental consultant assisting Ampol in its assessment of the overflow.

Emergency services took control of the incident scene after being notified at 1:30 am on 7th April to contain and remove the contaminated stormwater. WSP began sampling on the 7 April, targeting visually impacted surface soil, surface water bodies, and utility pits at the terminal and in the surrounding areas of Captain Cook Drive, Marton Park and Quibray Bay. The estimated area was determined through visual observations and is presented in Figure 1.

2. Sampling

2.1 Chemical analyses

Soil and water samples were tested for compounds present in the petroleum products stored at the terminal. The soil and water results are presented in Tables 1 and 2 for compounds and groups of compounds present in petroleum products. The compounds and groups of compounds targeted in the soil and water for this assessment were:

- total recoverable hydrocarbons (TRH) grouped in the following fractions C₆-C₁₀, C₁₀-C₁₆, C₁₆-C₃₄, and C₃₄-C₄₀
- benzene, toluene, ethylbenzene, xylenes, (BTEX), naphthalene
- polycyclic aromatic hydrocarbons (PAH).

It is important to note that not all visited locations had surface water or soil present, while some had both. This means that water samples were collected at some locations where soil could not be collected (e.g., inside a stormwater pit), or vice versa (e.g., grassy area without pooled surface water nearby).

Furthermore, most surface water samples were of temporarily pooled water in stormwater drains and on grassy areas and road surfaces. Due to the removal of the majority of this contaminated surface water between 7 to 8 April, surface soil samples are likely to be more representative of current conditions in the area.

Level 27, 680 George Street
Sydney NSW 2000
GPO Box 5394
Sydney NSW 2001

Tel: +61 2 9272 5100
Fax: +61 2 9272 5101
www.wsp.com

WSP acknowledges that every project we work on takes place on First Peoples lands.
We recognise Aboriginal and Torres Strait Islander Peoples as the first scientists and engineers and pay our respects to Elders past and present.



2.2 Guidelines used to evaluate the results

The most relevant assessment criteria, which are endorsed by the *National Environment Protection (Assessment of Site Contamination) Measure 1999* (NEPM; as amended 2013) and applicable to the evaluating risk to human health for the impacted area are those presented in the *CRC Contamination Assessment and Remediation of the Environment Technical Report 10: Part 1 2011* (CRC CARE, 2011). CRC CARE (2011) presents health screening levels (HSL) for safe soil concentrations for various site settings. Risks were assessed using the most sensitive category of criteria, i.e., those prescribed residential properties.

2.3 Results of testing

2.3.1 Marton Park area

Seventeen samples were collected for analysis from the Marton Park area, this includes the oval, scout hall and horse-riding areas. Two samples located near the banks of Marton Park, designated MP-E03 and MP-E05 were found to be higher than the criterion for dermal contact. Ampol has advised that the impacted soils from these locations will be removed. All remaining samples had low or non-detected concentrations. Table 1 presents results for the Marton Park area.

2.3.2 Captain Cook Drive area

Nineteen samples were obtained from the Captain Cook Drive area. Table 1 presents results for the Captain Cook Drive area. One sample CC-E03, located along Captain Cook Drive to the south of Solander Street had concentrations higher than the criterion for dermal contact. Ampol has advised that the impacted soils from this location will be removed.

2.3.3 Quibray Bay

Ten samples were obtained from the Quibray Bay area. No sample was found with concentrations above the levels safe for dermal contact. Two samples had low detections of some of the compounds, but at levels well below the relevant criteria.

2.3.4 Surface water

Surface water samples were collected primarily to understand the likely flow paths taken by the diesel like-contaminated surface water during the overflow incident. Surface water testing, as expected showed high concentrations immediately after the incident (see Table 2). The overflow from the wastewater treatment plant was carried in surface water which caused the impacts to soil. The assessment of risk of harm was subsequently made on soil samples taken from the impacted areas. This impacted surface water was removed during the initial response on the 7th and 8th of April and the ongoing clean-up in the following week.

2.3.5 Samples taken outside area of initial impact

Water and soil samples were also collected beyond the visibly impacted areas during WSP's initial inspection to support our visual findings. These samples were collected west of Captain Cook Drive on Torres Street, Bridges Street, and Tasman Street (CC-E12, CC-E16, and TA-E01, respectively). The targeted compounds were not detected in soil samples from these locations, but very low concentrations were detected in water from the road surface on Torres Street and Bridges Street. The proportions of these compounds were inconsistent however with those found near the incident. A soil sample collected to the east of the visual overflow extent on Captain Cook Drive, CC-E10, also contained very low concentrations of the targeted compounds.

The inconsistencies of the very low concentrations of target compounds near road surfaces may be expected from every-day road use (e.g., car traffic, petrol-driven lawn mowing on nature strips, and car washing/waxing). Very low detections of the targeted compounds in samples near road surfaces are therefore not a certain indication of impact from the incident nor do these low detections in soil exceed the safe guideline values used in this assessment.

2.3.6 Private property sampling

Between the 7th and 19th of April, WSP has undertaken sampling at 14 properties as presented in Figure 2. WSP understands that Ampol will communicate these results with individual owners as results come to hand. WSP also understand that Ampol will continue sampling private properties on request.

2.4 Details of soil test results

Soil samples collected from visually impacted areas near the entrance to the terminal at the intersection of Solander Street and Captain Cook Drive (MP-E03, MP-E05 and CC-E03) showed impacts predominantly of hydrocarbons fractions C₁₀-C₁₆ and C₁₆-C₃₄. This is interpreted as being largely a diesel impact.

The concentrations of these fractions in samples from this area ranged from 9,800 mg/kg to 15,000 mg/kg for C₁₀-C₁₆ and 8,600 mg/kg to 14,000 mg/kg for C₁₆-C₃₄.

Further north and downslope from the terminal entrance, hydrocarbon concentrations of all fractions in soil samples collected near the intersection with Torres Street were approximately ten times lower than those collected near the terminal with fractions C₁₀-C₁₆ and C₁₆-C₃₄ concentrations up to 2,700 mg/kg (CC-E13B). The relative proportions of these fractions were also consistent with the diesel-like material identified in the samples from the terminal entrance.

Most soil samples collected from locations in Marton Park on 8 April did not contain detectable concentrations of, BTEX, or PAH. Very low concentrations of C₁₆-C₃₄ (120 mg/kg to 230 mg/kg) were present in samples collected near the Scout Hall (MP-E07B, MP-E14, MP-E16, MP-E17). However, the composition of hydrocarbons in these samples were inconsistent with those collected near the terminal entrance and at the intersection Captain Cook Drive and Torres Street, where most of the overflow water pooled on 7 April.

Two samples were collected to represent background conditions. This is to provide an indication of the status of soil under normal circumstances. Background samples are usually taken in an area known not to have been impacted by a contamination source or incident. Two background samples collected near the Marton Park wetland within the terminal on 7 April (MP-E01 and MP-E02) contained low or non-detect concentrations of C₁₀-C₁₆ and C₁₆-C₃₄.

3. Conclusion

WSP's testing of soil showed that the majority of samples had concentrations less than the criteria for protection of human health. The criteria apply to dermal contact with the soil that has been impacted by the overflow incident. WSP understand that Ampol will continue its sampling program.

Yours sincerely



Nivari Jayasinghe
Principal Environmental Scientist, Contaminated
Land Management

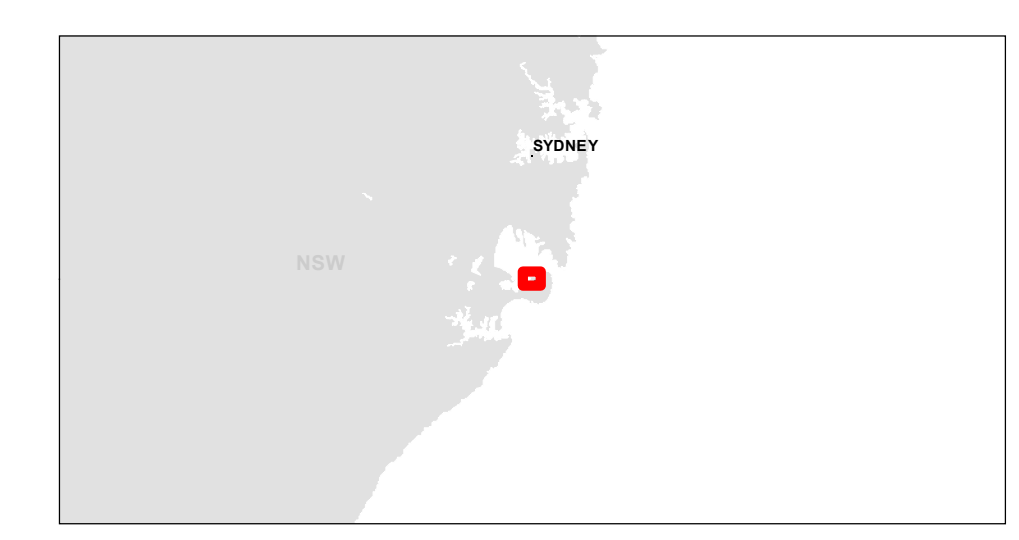
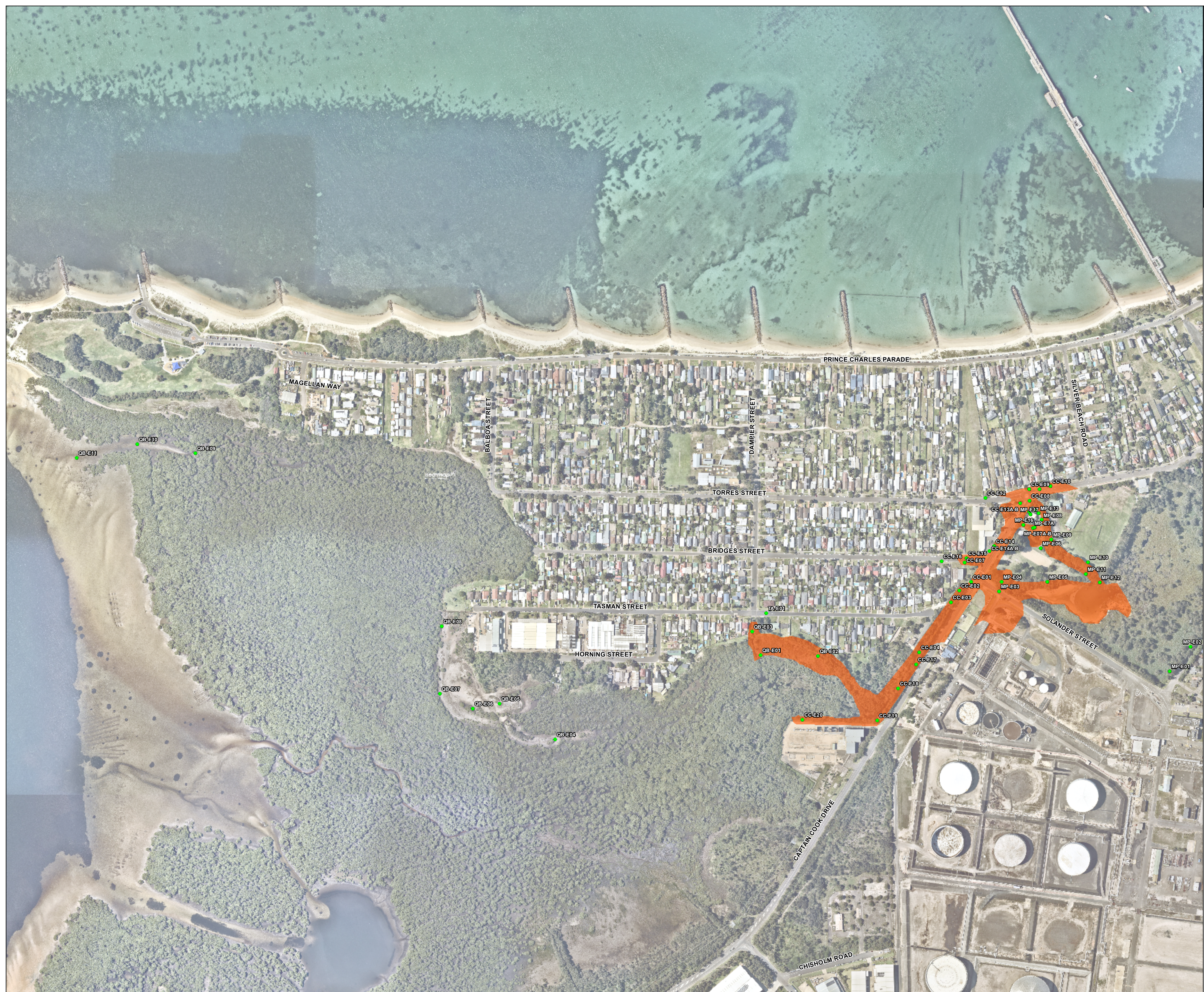


Ampol Kurnell Terminal – Flooding Incident Emergency Response

Figure 1
Estimated extent of impacted ground
surface and surface water bodies
based on visual assessments conducted
on 7th and 8th of April 2022

Legend

- Soil and Surface Water Monitoring Locations
- Estimated Initial Impact Area



0 0.15 0.3 km



Coordinate system: GDA2020 MGA Zone 56
 Scale ratio correct when printed at A1
 1:3,500 Date: 19/04/2022

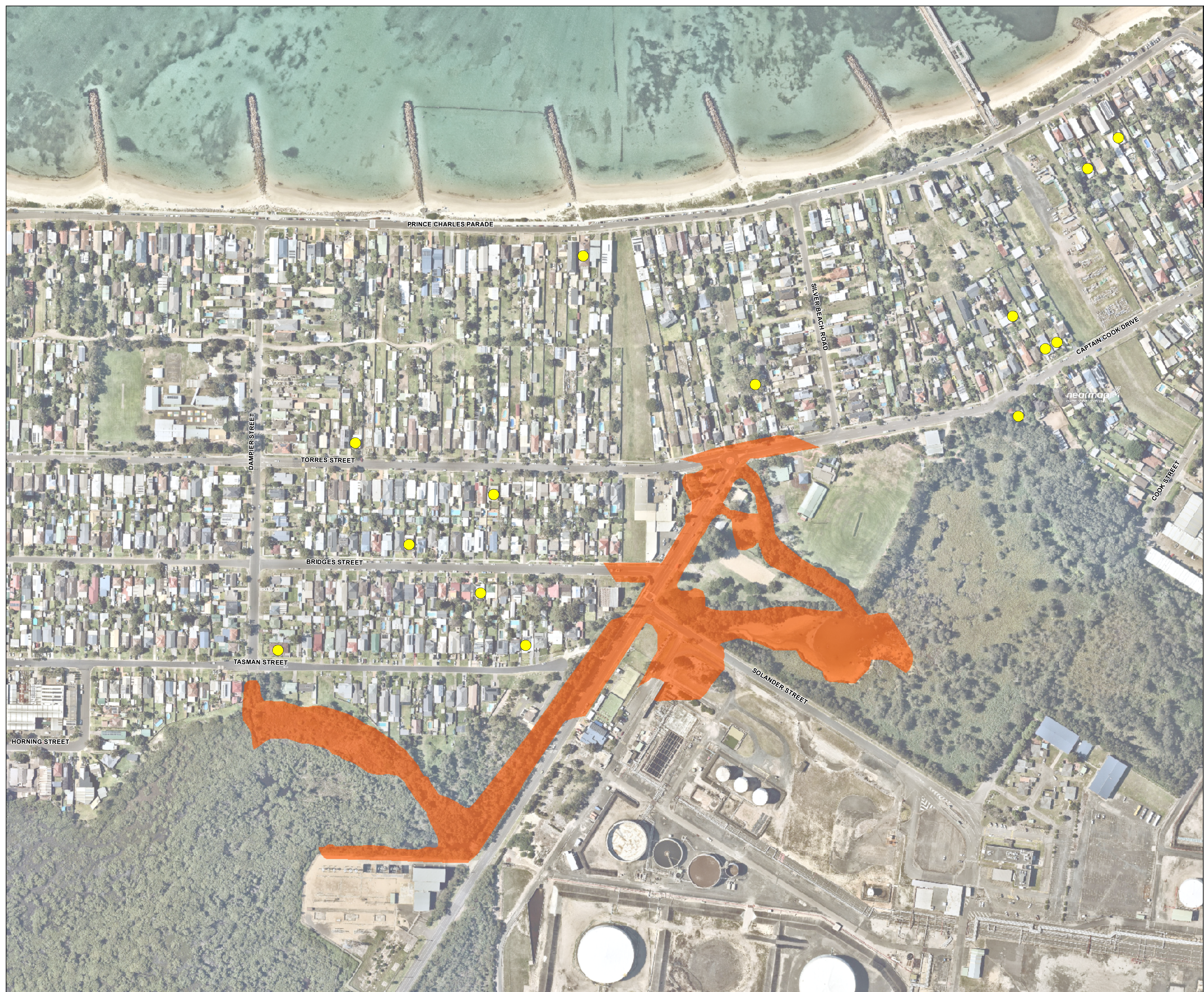
Data sources: ORNL, TNM, Topolink, Geoscience Australia

© WSP Australia Pty Ltd (WSP). Copyright in the drawings, information and data recorded (the Information) is the property of WSP. This document and the information are solely for the use of the addressee and are not to be used, copied or reproduced in any form or by any means without the prior written consent of WSP. WSP makes no representation or warranty, express or implied, as to the accuracy, completeness or reliability of the Information. WSP is not responsible for any loss or damage arising from the use of the Information. NCS Certified Quality System to ISO 9001. © APPROVED FOR AND ON BEHALF OF WSP Australia Pty Ltd

Figure 2
Properties sampled between the 7th
and 19th of April 2022

Legend

-  Sampled Residential Addresses
-  Estimated Initial Impact Area



0 0.1 0.2 km

Coordinate system: GDA2020 MGA Zone 56
Scale ratio correct when printed at A1
1:2,000 Date: 19/04/2022

Data sources: ONRME, TNM, Topolink, Geoscience Australia

© WSP Australia Pty Ltd (WSP). Copyright in the drawings, information and data recorded ("the information") is the property of WSP. This document and the information are solely for the use of the addressee and the recipient may not be used, copied or reproduced without the prior written consent from the sender. WSP does not warrant the accuracy of the information. WSP disclaims any responsibility for any loss or damage caused by the use of the information. NCS Certified Quality System is ISO 9001. © APPROVED FOR AND ON BEHALF OF WSP Australia Pty Ltd



Kurnell overflow incident response 7th April 2022 – Results of the initial sampling round

Table 1 - Soil Results

	BTEXN							TRH NEPM (2013 Fractions)						
	Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	Xylene (m & p) mg/kg	Xylene (o) mg/kg	Xylene (Sum) mg/kg	Naphthalene mg/kg	C6 - C10 mg/kg	C6 - C10 less BTEX (F1) mg/kg	C10 - C16 mg/kg	C10 - C16 less Naphthalene (F2) mg/kg	C16 - C34 mg/kg	C34 - C40 mg/kg	C10 - C40 (Sum) mg/kg
EQL	0.1	0.1	0.1	0.2	0.1	0.3	0.5	20	20	50	50	100	100	100
CRC Care 2011 Table 4 HSL-A Low Density Residential (Direct Contact)	100	14,000	4,500			12,000	1,400		4,400	3,300		4,500	6,300	

Monitoring Area	Field ID	Date	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene (Sum)	Naphthalene	C6 - C10	C6 - C10 less BTEX (F1)	C10 - C16	C10 - C16 less Naphthalene (F2)	C16 - C34	C34 - C40	C10 - C40 (Sum)
Captain Cook Dr	CC-E02	7/04/2022	<0.1	0.1	<0.1	0.8	0.4	1.2	1.7	40	39	480	478.3	670	100	1,250
	CC-E03	7/04/2022	<0.1	<0.1	0.4	2.4	1.4	3.8	9.2	260	260	15,000	14,990.8	14,000	120	29,120
	CC-E04	7/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	0.8	26	26	<50	<50	270	<100	270
	CC-E07	8/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	290	290	360	110	760
	CC-E08	7/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	960	960	1,100	<100	2,060
	CC-E09	7/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	250	250	610	160	1,020
	CC-E10	7/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	<50	<50	130	<100	130
	CC-E11	8/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	<100	<100	440	<200	440
	CC-E12	8/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	<100	<100	<200	<200	<200
	CC-E13A	8/04/2022	<0.1	<0.1	<0.1	0.4	0.3	0.7	8.1	74	73	1,500	1,491.9	1,700	<200	3,200
	CC-E13B	8/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	2,700	2,700	2,700	<200	5,400
	CC-E14A	8/04/2022	<0.1	<0.1	<0.1	<0.2	0.2	<0.3	4.4	51	51	2,000	1,995.6	2,000	<200	4,000
	CC-E14B	8/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	<100	<100	<200	<200	<200
	CC-E15	8/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	<100	<100	<200	<200	<200
	CC-E16	8/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	<100	<100	<200	<200	<200
	CC-E17	8/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	<50	<50	100	<100	100
	CC-E18	8/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	<50	<50	210	<100	210
CC-E19	8/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	<50	<50	<100	<100	<100	
CC-E20	8/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	<50	<50	<100	130	130	
Marton Park	MP-E01	7/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	<50	<50	<100	<100	<100
	MP-E02	7/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	2.0	67	67	<50	<50	240	170	410
	MP-E03	7/04/2022	<0.1	0.2	0.2	1.3	0.7	2.0	3.3	200	200	9,800	9,796.7	8,600	<200	18,400
	MP-E04	7/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	<50	<50	<100	<100	<100
	MP-E05	7/04/2022	<0.1	2.4	3.8	24	13	37	23	1,300	1,300	12,000	11,977	9,200	270	21,470
	MP-E06	8/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	<50	<50	<100	<100	<100
	MP-E07A	8/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	<50	<50	<100	<100	<100
	MP-E07B	8/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	<50	<50	230	100	330
	MP-E08	8/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	<50	<50	<100	<100	<100
	MP-E09	8/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	<50	<50	<100	<100	<100
	MP-E10	8/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	<50	<50	<100	<100	<100
	MP-E11	8/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	<50	<50	<100	<100	<100
	MP-E13	8/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	<50	<50	<100	<100	<100
	MP-E14	8/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	<50	<50	230	<100	230
	MP-E15	8/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	<50	<50	<100	<100	<100
	MP-E16	8/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	<50	<50	180	<100	180
	MP-E17	8/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	<50	<50	120	<100	120
Quibray Bay	QB-E01	8/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	62	62	630	530	1,222
	QB-E03	8/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	<50	<50	<100	<100	<100
	QB-E04	8/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	<50	<50	<100	<100	<100
	QB-E05	8/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	<50	<50	<100	<100	<100
	QB-E06	8/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	<50	<50	<100	<100	<100
	QB-E07	8/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	<50	<50	150	<100	150
	QB-E08	8/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	<50	<50	<100	<100	<100
	QB-E09	8/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	<50	<50	<100	<100	<100
	QB-E10	8/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	<50	<50	<100	<100	<100
	QB-E11	8/04/2022	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	<50	<50	<100	<100	<100

Statistics	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene (Sum)	Naphthalene	C6 - C10	C6 - C10 less BTEX (F1)	C10 - C16	C10 - C16 less Naphthalene (F2)	C16 - C34	C34 - C40	C10 - C40 (Sum)
Number of Results	51	51	51	51	51	51	102	51	51	51	51	51	51	51
Number of Detects	0	3	3	5	6	5	15	8	8	11	11	22	9	23
Minimum Concentration	<0.1	0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	<50	<50	100	100	100
Minimum Detect	ND	0.1	0.2	0.4	0.2	0.7	0.8	26	26	62	62	100	100	100
Maximum Concentration	<0.1	2.4	3.8	24	13	37	27	1,300	1,300	15,000	14,990.8	14,000	530	29,120
Maximum Detect	ND	2.4	3.8	24	13	37	27	1,300	1,300	15,000	14,990.8	14,000	530	29,120
Average Concentration *	0.05	0.1	0.13	0.66	0.36	1	1.5	48	48	905	904	893	83	1,808
Geometric Average *	0.05	0.056	0.058	0.13	0.069	0.2	0.39	15	15	63	63	154	69	186
Median Concentration *	0.05	0.05	0.05	0.1	0.05	0.15	0.25	10	10	25	25	100	50	100
Standard Deviation *	0	0.33	0.53	3.4	1.8	5.2	4.3	184	184	2,960	2,957	2,574	76	5,561
Geometric Standard Deviation *	1	1.8	2	2.7	2.8	2.7	3.2	2.7	2.7	6.2	6.1	4.7	1.7	6
95% UCL (Student's-t) *	0.05	0.177	0.257	1.444	0.785	2.226	2.242	91.26	91.22	1,600	1,598	1,497	101.1	3,113
% of Detects	0	6	6	10	12	10	15	16	16	22	22	43	18	45
% of Non-Detects	100	94	94	90	88	90	85	84	84	78	78	57	82	55

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

CRC Care, CRC Care 2011 Table 4 HSL-A Low Density Residential (Direct Contact)

Note that the most conservative and applicable assessment criteria for direct contact were applied to this Tier 1 screen



Kurnell overflow incident response 7th April 2022 – Results of the initial sampling round

Table 1 - Soil Results

	PAH																				Misc.
	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ (medium bound)	Benzo(a)pyrene TEQ (upper bound)	Benzo(a)pyrene TEQ calc (Zero)	Benzo(b&f)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Phenanthrene	Pyrene	PAHs (Sum)	Naphthalene	% Moisture
mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%
EQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1
CRC Care 2011 Table 4 HSL-A Low Density Residential (Direct Contact)																					1,400

Monitoring Area	Field ID	Date	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ (medium bound)	Benzo(a)pyrene TEQ (upper bound)	Benzo(a)pyrene TEQ calc (Zero)	Benzo(b&f)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Phenanthrene	Pyrene	PAHs (Sum)	Naphthalene	% Moisture		
Captain Cook Dr	CC-E02	7/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.6	1.6	59		
	CC-E03	7/04/2022	2.8	0.9	0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	1.0	5.7	<0.5	3.4	2.8	35	17	68		
	CC-E04	7/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	73	
	CC-E07	8/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	16
	CC-E08	7/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	2.2	1.6	19		
	CC-E09	7/04/2022	<0.5	<1	<0.5	<2	<4	<4	5.5	<4	<4	<2	<4	<4	<0.5	<4	<0.5	<1	<0.5	<4	<4	<0.5	<0.5	27	
	CC-E10	7/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	20	
	CC-E11	8/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	19
	CC-E12	8/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	22
	CC-E13A	8/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.1	<0.5	0.7	0.8	6.6	4.0	23		
	CC-E13B	8/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	35
	CC-E14A	8/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.3	<0.5	0.6	0.7	9.8	7.2	27		
	CC-E14B	8/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	17
	CC-E15	8/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	20
	CC-E16	8/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	25
	CC-E17	8/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	21
	CC-E18	8/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	35
CC-E19	8/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	24	
CC-E20	8/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	29	
Marton Park	MP-E01	7/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	26	
	MP-E02	7/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	84	
	MP-E03	7/04/2022	1.3	<0.5	0.9	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	4.5	<0.5	2.4	2.2	33	21	40		
	MP-E04	7/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	41	
	MP-E05	7/04/2022	1.5	<0.5	0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.5	<0.5	1.7	1.5	36	27	85		
	MP-E06	8/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	34	
	MP-E07A	8/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	20
	MP-E07B	8/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	40
	MP-E08	8/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	32
	MP-E09	8/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	69
	MP-E10	8/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	35
	MP-E11	8/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	36
	MP-E13	8/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	17
	MP-E14	8/04/2022	<0.5	<0.5	<0.5	<0.5	0.6	1.0	1.4	0.8	0.7	<0.5	0.7	0.7	<0.5	0.5	<0.5	<0.5	<0.5	0.7	3.9	<0.5	<0.5	22	
	MP-E15	8/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	16
	MP-E16	8/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	12
	MP-E17	8/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	65
Quibray Bay	QB-E01	8/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	1.0	<0.5	81		
	QB-E03	8/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	23	
	QB-E04	8/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	26	
	QB-E05	8/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	28
	QB-E06	8/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	43
	QB-E07	8/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	58
	QB-E08	8/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	37
	QB-E09	8/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	38
	QB-E10	8/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	26
	QB-E11	8/04/2022	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2																



Kurnell overflow incident response 7th April 2022 – Results of the initial sampling round

Table 2 - Surface water results

EQL	BTEXN							TRH NEPM (2013 Fractions)						
	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene (Sum)	Naphthalene	C6 - C10	C6 - C10 less BTEX (F1)	C10 - C16	C10 - C16 less Naphthalene (F2)	C16 - C34	C34 - C40	C10 - C40 (Sum)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	1	1	1	2	1	3	10	20	20	50	50	100	100	100

Location Type	Field ID	Date	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene (Sum)	Naphthalene	C6 - C10	C6 - C10 less BTEX (F1)	C10 - C16	C10 - C16 less Naphthalene (F2)	C16 - C34	C34 - C40	C10 - C40 (Sum)
Captain Cook Drive	CC-E02	7/04/2022	<1	12	2	10	6	15	10	220	190	2,000	1,990	3,700	<100	5,700
	CC-E03	7/04/2022	<1	21	<1	3	2	5	30	110	80	480,000	479,970	470,000	4,300	954,300
	CC-E04	7/04/2022	<1	18	2	14	7	21	<10	170	130	2,000	2,000	4,100	<100	6,100
	CC-E07	7/04/2022	<1	2	<1	<2	<1	<3	<10	<20	<20	<50	<50	300	<100	300
	CC-E08	7/04/2022	<1	7	2	11	7	19	20	210	180	5,200	5,180	9,800	<100	15,000
	CC-E09	7/04/2022	<1	3	1	6	4	10	10	160	150	51,000	50,990	68,000	1,100	120,100
	CC-E10	7/04/2022	<1	<1	<1	<2	<1	<3	<10	<20	<20	<50	<50	<100	<100	<100
	CC-E11	8/04/2022	<10	<10	<10	<20	<10	<30	<100	<200	<200	56,000	56,000	49,000	400	105,400
	CC-E12	8/04/2022	<1	<1	<1	<2	<1	<3	<10	<20	<20	70	70	200	<100	270
	CC-E13A	8/04/2022	<1	31	2	11	6	16	10	160	110	3,300	3,290	7,800	200	11,300
	CC-E14A	8/04/2022	<1	<1	<1	<2	2	3	<10	80	80	380	380	1,300	<100	1,680
	CC-E15	8/04/2022	<10	570	79	490	270	750	340	5,600	4,200	28,000	27,660	24,000	<1,000	52,000
	CC-E16	8/04/2022	<1	<1	<1	<2	<1	<3	<10	<20	<20	170	170	700	<100	870
CC-E17	8/04/2022	<1	1	<1	<2	1	<3	<10	<20	<20	110	110	300	<100	410	
CC-E18	8/04/2022	<1	1	<1	<2	1	<3	<10	20	<20	13,000	13,000	19,000	200	32,200	
CC-E19	8/04/2022	<1	<1	<1	<2	<1	<3	<10	<20	<20	<50	<50	<100	<100	<100	
CC-E20	8/04/2022	<1	<1	<1	<2	<1	<3	<10	<20	<20	<50	<50	<100	<100	<100	
Marton Park	MP-E01	7/04/2022	<1	<1	<1	<2	<1	<3	<10	<20	<20	<50	<50	<100	<100	<100
	MP-E02	7/04/2022	<1	<1	<1	<2	<1	<3	<10	<20	<20	<50	<50	<100	<100	<100
	MP-E03	7/04/2022	<10	17	<10	28	19	47	<100	460	400	98,000	98,000	87,000	900	185,900
	MP-E04	7/04/2022	<1	22	<1	5	3	8	<10	150	120	88,000	88,000	110,000	1,100	199,100
	MP-E05	7/04/2022	<10	150	43	230	150	380	140	2,600	2,000	390,000	389,860	270,000	3,200	663,200
	MP-E06	8/04/2022	<1	<1	<1	<2	<1	<3	<10	<20	<20	31,000	31,000	36,000	400	67,400
	MP-E07A	8/04/2022	<10	<10	<10	<20	<10	<30	<100	<200	<200	430,000	430,000	990,000	7,700	1,427,700
	MP-E08	8/04/2022	<1	7	1	23	13	36	20	320	280	<50	<50	100	<100	100
	MP-E09	8/04/2022	<1	11	2	24	14	37	30	350	300	50	<50	<100	<100	<100
	MP-E10	8/04/2022	<1	<1	<1	<2	<1	<3	<10	40	40	190	190	600	<100	790
	MP-E11	8/04/2022	<10	<10	<10	<20	<10	<30	<100	520	520	600	600	400	<100	1,000
	MP-E12	8/04/2022	<1	9	<1	22	14	36	20	310	270	<50	<50	100	<100	100
Quibray Bay	QB-E01	8/04/2022	<1	<1	<1	<2	<1	<3	<10	30	30	<50	<50	<100	<100	<100
	QB-E02	8/04/2022	<1	<1	<1	<2	<1	<3	<10	<20	<20	1,000	1,000	2,100	<100	3,100
	QB-E03	8/04/2022	<1	<1	<1	<2	<1	<3	<10	<20	<20	<50	<50	<100	<100	<100
	QB-E06	8/04/2022	<1	<1	<1	<2	<1	<3	<10	<20	<20	2,600	2,600	7,800	200	10,600
	QB-E09	8/04/2022	<1	<1	<1	<2	<1	<3	<10	<20	<20	590	590	400	<100	990
	QB-E10	8/04/2022	<1	<1	<1	<2	<1	<3	<10	<20	<20	<50	<50	<100	<100	<100
QB-E11	8/04/2022	<1	<1	<1	<2	<1	<3	<10	<20	<20	640	640	400	<100	1,040	
Tasman Street	TA-E01	8/04/2022	<1	<1	<1	<2	<1	<3	<10	<20	<20	<50	<50	<100	<100	<100

Statistics																
Number of Results	41	41	41	41	41	41	82	41	41	41	41	41	41	41	41	41
Minimum Detect	ND	1	1	3	1	3	1	20	30	50	70	100	100	100	100	100
Maximum Concentration	<10	570	79	490	270	750	<5,000	5,600	4,200	480,000	479,970	990,000	7,700	1,427,700		
Average Concentration *	1.2	22	4.1	23	13	36	57	291	232	41,082	41,068	52,788	529	94,343		
Standard Deviation *	1.6	91	14	83	47	129	210	945	712	114,374	114,362	172,397	1,419	279,844		
% of Detects	0	39	22	32	39	34	23	44	41	63	61	71	29	71		
% of Non-Detects	100	61	78	68	61	66	77	56	59	37	39	29	71	29		

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

No suitable screening level assessment criteria available for the current exposure scenario



Table 2 - Surface water results

EQL	PAH																
	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(b&f)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Phenanthrene	Pyrene	PAHs (Sum)	Naphthalene
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Location Type	Field ID	Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(b&f)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Phenanthrene	Pyrene	PAHs (Sum)	Naphthalene	
Captain Cook Drive	CC-E02	7/04/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	10	9	
	CC-E03	7/04/2022	<5	<100	<100	<20	<5	<5	<5	<5	<50	<5	<50	<500	<5	<200	<200	<500	<500	
	CC-E04	7/04/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	7	6
	CC-E07	7/04/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	1
	CC-E08	7/04/2022	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3	<1	3	1	39	30
	CC-E09	7/04/2022	16	<5	7	<5	<5	<5	<5	<5	<10	<5	<5	36	<5	27	21	140	37	
	CC-E10	7/04/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
	CC-E11	8/04/2022	15	6	7	<5	<5	<5	<5	<5	<20	<2	<100	120	<2	62	<100	500	330	
	CC-E12	8/04/2022	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<5	<1	<5	<5	
	CC-E13A	8/04/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	2	2	6	<1	
	CC-E14A	8/04/2022	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<5	<1	<5	<5	
	CC-E15	8/04/2022	6	1	1	<5	<5	<5	<5	<5	<5	<5	<10	17	<5	10	6	260	220	
	CC-E16	8/04/2022	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<5	<1	<5	<5	
	CC-E17	8/04/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
CC-E18	8/04/2022	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	4	4	9	<1		
CC-E19	8/04/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
CC-E20	8/04/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Marton Park	MP-E01	7/04/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
	MP-E02	7/04/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
	MP-E03	7/04/2022	<50	<5	<10	<5	<5	<5	<5	<5	<10	<5	<10	<100	<5	<100	<50	<500	<500	
	MP-E04	7/04/2022	<50	<5	<20	<5	<5	<5	<5	<5	<10	<5	<5	<100	<5	<50	<50	<100	<50	
	MP-E05	7/04/2022	<200	<5	<50	<10	<5	<5	<5	<5	<50	<5	<50	<200	<1	<200	<100	<5,000	<5,000	
	MP-E06	8/04/2022	<1	<1	2	<1	<1	<1	<1	<1	2	<1	4	11	<1	6	7	38	6	
	MP-E07A	8/04/2022	12	4	16	<10	<5	<5	<5	<5	<20	<5	<100	66	<5	56	<100	200	17	
	MP-E08	8/04/2022	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<5	<1	<5	<5	
	MP-E09	8/04/2022	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<5	<1	<5	<5	
	MP-E10	8/04/2022	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<5	<1	<5	<5	
	MP-E11	8/04/2022	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<5	<1	<50	<50	
	MP-E12	8/04/2022	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<5	<1	<5	<5	
Quibray Bay	QB-E01	8/04/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
	QB-E02	8/04/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
	QB-E03	8/04/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
	QB-E06	8/04/2022	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	1	<5	<1	<5	2	<5	<5	
	QB-E09	8/04/2022	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<5	<1	<5	<5	
	QB-E10	8/04/2022	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<5	<1	<5	<5	
Tasman Street	TA-E01	8/04/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	

Statistics																			
Number of Results	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	82
Minimum Detect	1	1	1	ND	ND	ND	ND	ND	ND	2	ND	1	1	ND	2	1	1	1	1
Maximum Concentration	<200	<100	<100	<20	<5	<5	<5	<5	<50	<5	<100	<500	<5	<200	<200	<5,000	<5,000	<5,000	
Average Concentration *	5.9	2.7	3.9	1.2	0.89	0.89	0.89	0.89	2.6	0.85	4.5	18	0.8	12	8.7	105	57	57	
Standard Deviation *	16	7.7	8.7	1.8	0.8	0.8	0.8	0.8	5.6	0.76	12	46	0.71	25	20	397	210	210	
% of Detects	15	7	12	0	0	0	0	0	2	0	5	22	0	20	17	27	23	23	
% of Non-Detects	85	93	88	100	100	100	100	100	98	100	95	78	100	80	83	73	77	77	

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

No suitable screening level assessment criteria available for the current exposure scenario