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Via e-mail: R.Simpson@linxcc.com.au

Ref: 18047 L02.2 18 November 2019

Re: Biannual Groundwater Monitoring Event 2 (2019)
240 Cormorant Road, Kooragang NSW 2304

This letter has been prepared on behalf of LINX Cargo Care Group to provide a summary of pollution monitoring data for the LINX facility located at 240 Cormorant Road, Kooragang Island, NSW 2304. A site locality plan is provided as Figure 1.

Under Section 66(6) of the *Protection of the Environment Operations Act 1997* (POEO Act), holders of an Environment Protection Licence (EPL) must publish or make pollution monitoring data available to members of the public. For this purpose, this letter is a summary of a more detailed report, *Biannual Groundwater Monitoring Event 2 (2019) – 240 Cormorant Road, Kooragang NSW 2304* prepared by Cavvanba Consulting Pty Ltd in November 2019.

This letter has been prepared in accordance with the guideline *Requirements for Publishing Monitoring Data* (NSW Environment Protection Authority (EPA), 2013), and Table 1 has been specifically designed to address Section 3.7 of the guideline.

Table 1: Published monitoring data requirements (NSW EPA, 2013)

Items requiring publishing	Response
EPL number:	12521.
Licensee's name:	LINX Logistics Pty Ltd.
Address of premises:	240 Cormorant Road, Kooragang NSW 2304
Link to the EPA's Public Register:	Link.
Location of monitoring point / area:	Figure 2.
Pollutant:	Tables 3 - 6.
Unit of measure:	Tables 3 - 6.
Monitoring frequency required by the licence:	Every 6 months, in accordance with *Groundwater Monitoring Plan – 240 Cormorant Road, Kooragang NSW 2304* (Cavvanba, 2018).
Any other relevant requirements of the monitoring condition:	Nil.
Any relevant limit imposed by the licence:	Nil.

Items requiring publishing	Response
Relevant dates	Groundwater sampling completed in October 2019. Groundwater monitoring report published in November 2019.
Upfront notes about apparent missing data:	Nil.

The results of biannual groundwater monitoring event 2 (2019) do not indicate that groundwater conditions have changed significantly, or adverse changes in environmental conditions have occurred.

✧ ✧ ✧ ✧

Please do not hesitate to contact the undersigned on (02) 6685-7811 should you require any additional information or clarification.

Yours sincerely
Cavvanba Consulting Pty Ltd

Ben Wackett
Principal Environmental Scientist

Drew Wood
Principal Environmental Scientist

Figures

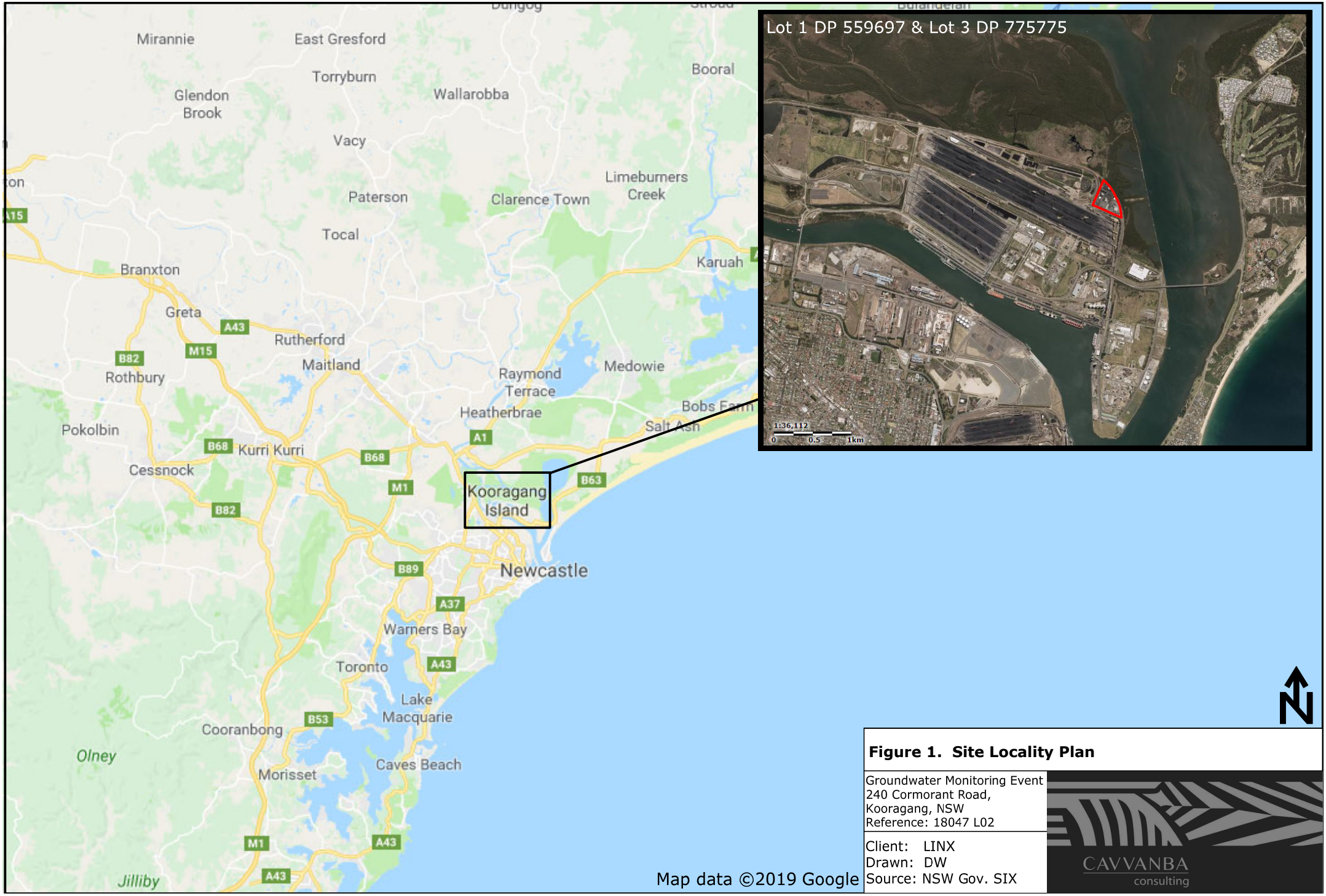

Figure 1. Site Locality Plan

Groundwater Monitoring Event
240 Cormorant Road,
Kooragang, NSW
Reference: 18047 L02

Client: LINX
Drawn: DW
Source: NSW Gov. SIX

CAVVANBA consulting

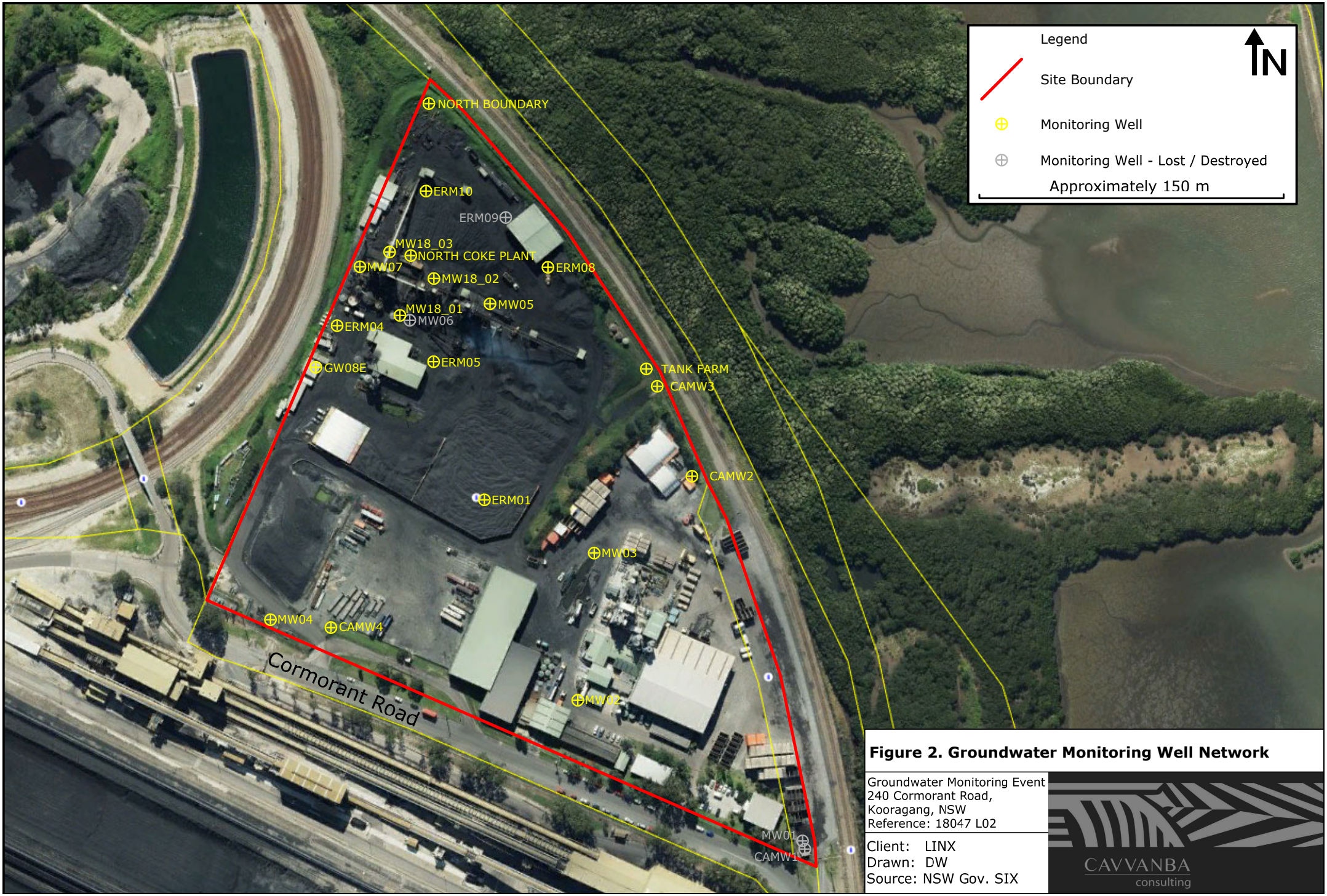

Figure 2. Groundwater Monitoring Well Network

Groundwater Monitoring Event
240 Cormorant Road,
Kooragang, NSW
Reference: 18047 L02

Client: LINX
Drawn: DW
Source: NSW Gov. SIX

CAVVANBA consulting

Tables

Table 1: Groundwater Gauging Data

Well ID	Gauging Date	Event	TOC Elevation (mAHD)	Ground Surface Elevation (mAHD)	Depth of Well (mbTOC)	Depth to NAPL (mbTOC)	Depth to Water (mbTOC)	NAPL Thickness (m)	Corrected Depth to Water (mbgl)	Water Elevation (mAHD)
CAMW2	10/10/2019	Pre - sampling	3.014	3.014	3.800	-	2.332	-	2.332	0.682
CAMW3	9/10/2019		3.365	3.365	3.932	-	2.642	-	2.642	0.723
CAMW4	10/10/2019		2.801	2.801	2.55	-	1.487	-	1.487	1.314
MW02	10/10/2019		2.309	2.309	2.93	-	1.103	-	1.103	1.206
MW03	10/10/2019		3.249	3.249	3.816	-	2.267	-	2.267	0.982
MW04	10/10/2019		-	-	2.930	-	1.194	-	-	-
Tank Farm	9/10/2019		3.736	3.13	5.834	-	2.964	-	2.358	0.772
ERM08	9/10/2019		3.087	3.14	3.720	-	1.745	-	1.798	1.342
North Boundary	9/10/2019		3.593	2.92	3.604	-	2.414	-	1.741	1.179
GW08E	10/10/2019		3.128	2.58	2.310	-	1.460	-	0.912	1.668
ERM01	9/10/2019		3.264	2.86	3.710	-	2.610	-	2.206	0.654
ERM05	9/10/2019		3.279	3.31	2.723	-	1.826	-	1.857	1.453
MW05	9/10/2019		3.795	3.02	3.779	-	2.480	-	1.705	1.315
North Coke Plant	9/10/2019		3.576	2.89	3.625	-	2.206	-	1.52	1.37
ERM04	9/10/2019		2.882	2.94	2.666	-	1.398	-	1.456	1.484
MW07	9/10/2019		3.528	2.95	3.520	-	2.099	-	1.521	1.429
ERM10	9/10/2019		2.609	2.7	2.315	-	1.277	-	1.368	1.332
MW18_01	9/10/2019		3.925	3.184	4.398	-	2.502	-	1.761	1.423
MW18_02	9/10/2019		3.72	3.031	3.948	-	2.355	-	1.666	1.365
MW18_03	9/10/2019		3.664	2.899	4.108	-	2.283	-	1.518	1.381

m AHD: metres Australian Height Datum
mbTOC: metres below top of casing
NAPL: non-aqueous phase liquid
mbgl: metres below ground level

Table 2: Groundwater Quality Parameters

Location ID	Date Sampled	DO (mg/L)	EC (µScm-¹)	Salinity (PPM)	pH	Eh (mV)	TEMP (ºC)	Purge Volume (L)	Comments
Groundwater									
CAMW2	10/10/2019	1.25	3,530	2,259	8.22	-60	14.4	3	Clear, strong organic odour, no sheen, well in good condition
CAMW3	9/10/2019	2.32	5,420	3,469	7.99	-65	19.3	2.5	Clear, no odour or sheen, well in good condition
CAMW4	10/10/2019	2.41	2,580	1,651	10.98	-30	21.2	2	Clear, no odour or sheen, gatic cover hidden under grass
MW02	10/10/2019	3.65	5,080	3,251	8	-20	13.2	3	Clear, no odour or sheen, gatic cover in good condition
MW03	10/10/2019	2.06	1,620	1,037	8.01	-18	23.0	2.5	Clear, strong organic odour, no sheen, well in good condition
MW04	10/10/2019	1.2	2,700	1,728	7.63	-3	21.8	2.5	Clear, no odour, no sheen, well in good condition
Tank Farm	9/10/2019	0.73	19,600	12,544	7.93	-102	21.6	3	Clear, no odour or sheen, well cover hinge broken
ERM08	9/10/2019	1.8	1,750	1,120	12.32	-91	18.0	2.5	Clear, no odour or sheen, well in good condition
North Boundary	9/10/2019	1.3	26,800	17,152	8.41	42	19.7	2.5	Slightly cloudy, grey tinge, slight organic odour, no sheen, well in good condition
GW08E	10/10/2019	2.97	726	465	8.11	-11	18.2	2.5	Slightly cloudy, grey tinge, no odour or sheen, well in good condition
ERM01	9/10/2019	2.28	2,180	1,395	7.53	105	18.6	3	Clear, no odour or sheen, well in good condition
ERM05	9/10/2019	5.99	1,310	838	10.3	-47	18.2	2.5	Clear, no odour or sheen, gatic in good condition
MW05	9/10/2019	1.86	1,140	730	10.51	-136	18.8	2.5	Clear, strong organic odour, no sheen, well in good condition
North Coke Plant	9/10/2019	2.14	1,020	653	12.04	-82	16.2	2.5	Clear, grey tinge, no odour or sheen, well in good condition
ERM04	9/10/2019	2.54	644	412	9.56	20	18.7	2.5	Slightly cloudy, grey tinge, no odour or sheen, gatic in good condition
MW07	9/10/2019	0.79	2,380	1,523	8.4	-74	15.8	3	Slightly cloudy, grey tinge, no odour or sheen, well in good condition
ERM10	9/10/2019	2.37	1,160	742	12.06	-32	19.3	2.5	Clear, green tinge, no odour or sheen, gatic in good condition
MW18_01	9/10/2019	1.16	1,890	1,210	12.16	-57	19.4	2.5	Clear, no odour or sheen, well in good condition
MW18_02	9/10/2019	2.39	1,120	717	12.37	-59	18.4	2	Clear, no odour or sheen, well in good condition
MW18_03	9/10/2019	5.15	1,090	698	10.6	-44	14.1	2.5	Clear, no odour or sheen, well in good condition

Table 3: Groundwater Analytical Summary - TRH & BTEXN (µg/L)

Sample Identification	Sample Location	Date	BTEXN					TRH					
			Benzene	Toluene	Ethyl benzene	Xylenes	Naphthalene	C_6 - C_{10} TRH	F1>C_6 - C_{10} TRH	F2 >C_{10} - C_{16} TRH	F3 >C_{16} - C_{34} TRH	F4 >C_{34} - C_{40} TRH	>C_{10} - C_{40} TRH
LOR			*1*	*2*	*2*	*2*	*2*	*20*	*20*	*100*	*100*	*100*	*100*
Analytical - Groundwater													
CAMW2	CAMW2	10/10/2019	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CAMW3	CAMW3	9/10/2019	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CAMW4	CAMW4	10/10/2019	-	-	-	-	-	-	-	-	-	-	-
MW02	MW02	10/10/2019	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW03	MW03	10/10/2019	-	-	-	-	-	-	-	-	-	-	-
MW04	MW04	10/10/2019	-	-	-	-	-	-	-	-	-	-	-
Tank Farm	Tank Farm	9/10/2019	-	-	-	-	-	-	-	-	-	-	-
ERM08	ERM08	9/10/2019	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
North Boundary	North Boundary	9/10/2019	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
GW08E	GW08E	10/10/2019	-	-	-	-	-	-	-	-	-	-	-
ERM01	ERM01	9/10/2019	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
ERM05	ERM05	9/10/2019	-	-	-	-	-	-	-	-	-	-	-
MW05	MW05	9/10/2019	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
North Coke Plant	North Coke Plant	9/10/2019	nd	nd	nd	nd	nd	nd	nd	220	280	140	640
ERM04	ERM04	9/10/2019	-	-	-	-	-	-	-	-	-	-	-
MW07	MW07	9/10/2019	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
ERM10	ERM10	9/10/2019	-	-	-	-	-	-	-	-	-	-	-
MW18_01	MW18_01	9/10/2019	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW18_02	MW18_02	9/10/2019	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW18_03	MW18_03	9/10/2019	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Statistics													
Samples analysed			12	12	12	12	12	12	12	12	12	12	12
Detects			0	0	0	0	0	0	0	1	1	1	1
% detect			0%	0%	0%	0%	0%	0%	0%	8%	8%	8%	8%
Maximum			<1	<2	<2	<2	<2	<20	<20	220	280	<100	640
Mean			<1	<2	<2	<2	<2	<20	<20	110	140	<100	640
Median			<1	<2	<2	<2	<2	<20	<20	110	140	<100	640
Minimum			<1	<2	<2	<2	<2	<20	<20	<100	<100	<100	<100
Criteria													
Marine Waters [1]			500	-	-	-	50	-	-	-	-	-	-
HSL D 2 m to < 4 m (Sand)			5,000	NL	NL	NL	NL	-	6,000	NL	-	-	-
HSL Intrusive Maintenance Worker 2 m to < 4 m (Sand)			NL	NL	NL	NL	NL	-	NL	NL	-	-	-

See tables notes at end of section

Table 4: Groundwater Analytical Summary - Metals (µg/L)

Sample Identification	Sample Location	Date	Arsenic	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Mercury
LOR			*1*	*0.1*	*1*	*1*	*1*	*1*	*5*	*0.1*
Analytical - Groundwater										
CAMW2	CAMW2	10/10/2019	2	nd	nd	nd	nd	4	nd	nd
CAMW3	CAMW3	9/10/2019	**6**	nd	nd	nd	nd	**8**	**24**	nd
CAMW4	CAMW4	10/10/2019	**68**	nd	nd	nd	nd	2	nd	nd
MW02	MW02	10/10/2019	**7**	nd	nd	nd	nd	3	14	nd
MW03	MW03	10/10/2019	1	nd	nd	nd	nd	nd	nd	nd
MW04	MW04	10/10/2019	**3**	nd	nd	nd	nd	6	**49**	nd
Tank Farm	Tank Farm	9/10/2019	-	-	-	-	-	-	-	-
ERM08	ERM08	9/10/2019	**10**	nd	nd	nd	nd	nd	nd	nd
North Boundary	North Boundary	9/10/2019	nd	nd	nd	nd	nd	**7**	**103**	nd
GW08E	GW08E	10/10/2019	2	0.1	1	nd	nd	1	nd	nd
ERM01	ERM01	9/10/2019	nd	nd	nd	nd	nd	4	**53**	nd
ERM05	ERM05	9/10/2019	**3**	nd	nd	nd	nd	nd	nd	nd
MW05	MW05	9/10/2019	**3**	nd	nd	nd	nd	nd	nd	**0.2**
North Coke Plant	North Coke Plant	9/10/2019	2	nd	nd	nd	nd	nd	nd	nd
ERM04	ERM04	9/10/2019	nd	nd	nd	nd	nd	nd	nd	nd
MW07	MW07	9/10/2019	**3**	nd	nd	nd	nd	2	nd	nd
ERM10	ERM10	9/10/2019	**5**	nd	2	nd	nd	nd	nd	nd
MW18_01	MW18_01	9/10/2019	1	nd	nd	nd	nd	1	nd	nd
MW18_02	MW18_02	9/10/2019	1	nd	nd	nd	nd	nd	nd	nd
MW18_03	MW18_03	9/10/2019	**4**	nd	nd	nd	nd	nd	nd	nd
Statistics										
Samples analysed			19	19	19	19	19	19	19	19
Detects			16	1	2	0	0	10	5	1
% detect			84%	5%	11%	0%	0%	53%	26%	5%
Maximum			**68**	<0.1	2	<1	<1	**8**	**103**	**0.2**
Mean			7	<0.1	1	<1	<1	3	41	0.1
Median			3	<0.1	1	<1	<1	3	37	0.1
Minimum			<1	<0.1	<1	<1	<1	<1	<5	<0.1
Criteria										
Marine Waters [1]			**2.3 ****	0.7	4.4*	1.3	4.4	**7**	**15**	**0.1**

See table notes at end of section

Table 5: Groundwater Analytical Summary - PAHs and Phenols (µg/L)

Sample Identification	Sample Location	Date	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benz(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1.2.3.cd)pyrene	Dibenz(a.h)anthracene	Benzo(g.h.i)perylene	Phenol	Pentachlorophenol	2-Chlorophenol	Total PAHs	B(a)P TEQ
LOR			*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*0.5*	*1*	*1*	*1*	*1*	*2*	*1*	*0.5*	*0.5*
Analytical - Groundwater																							
CAMW2	CAMW2	10/10/2019	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CAMW3	CAMW3	9/10/2019	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CAMW4	CAMW4	10/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW02	MW02	10/10/2019	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW03	MW03	10/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW04	MW04	10/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tank Farm	Tank Farm	9/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ERM08	ERM08	9/10/2019	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
North Boundary	North Boundary	9/10/2019	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
GW08E	GW08E	10/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ERM01	ERM01	9/10/2019	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
ERM05	ERM05	9/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW05	MW05	9/10/2019	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
North Coke Plant	North Coke Plant	9/10/2019	1.1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	1.1	nd
ERM04	ERM04	9/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW07	MW07	9/10/2019	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
ERM10	ERM10	9/10/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW18_01	MW18_01	9/10/2019	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW18_02	MW18_02	9/10/2019	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MW18_03	MW18_03	9/10/2019	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Statistics																							
Samples analysed			12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Detects			1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
% detect			8%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	8%	0%
Maximum			1.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<2	<1	1.1	<0.5
Mean			0.6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<2	<1	0.6	<0.5
Median			0.6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<2	<1	0.6	<0.5
Minimum			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<2	<1	<0.5	<0.5
Criteria																							
Marine Waters [1]			50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	400	-	-	-	-

See table notes at end of section

Table 6: Groundwater Analytical Summary - Nutrients (µg/L)

Sample Identification	Sample Location	Date	Ammonia as N	Nitrite as N	Nitrate as N	Total Nitrogen as N	Nitrate + Nitrite as N	Total Kjeldahl Nitrogen	Total Nitrogen as N	Total Phosphorus as P
LOR			*10*	*10*	*10*	*100*	*10*	*100*	*100*	*10*
Analytical - Groundwater										
CAMW2	CAMW2	10/10/2019	**3,710**	nd	nd	3,600	nd	3,600	3,600	160
CAMW3	CAMW3	9/10/2019	**1,470**	nd	10	1,500	10	1,500	1,500	220
CAMW4	CAMW4	10/10/2019	**7,590**	1,450	70	9,200	1,520	7,700	9,200	130
MW02	MW02	10/10/2019	**1,860**	nd	**6,200**	8,500	6,020	2,500	8,500	230
MW03	MW03	10/10/2019	**12,900**	nd	nd	13,400	nd	13,400	13,400	110
MW04	MW04	10/10/2019	210	nd	140	300	140	200	300	170
Tank Farm	Tank Farm	9/10/2019	**13,400**	nd	290	14,900	290	14,600	14,900	2,560
ERM08	ERM08	9/10/2019	**4,390**	nd	nd	4,100	nd	4,100	4,100	nd
North Boundary	North Boundary	9/10/2019	410	nd	420	800	420	400	800	70
GW08E	GW08E	10/10/2019	30	nd	**2,540**	2,700	2,540	200	2,700	40
ERM01	ERM01	9/10/2019	340	nd	200	500	200	300	500	140
ERM05	ERM05	9/10/2019	**3,170**	nd	nd	300	nd	3,000	300	70
MW05	MW05	9/10/2019	**6,800**	nd	20	6,200	20	6,200	6,200	10
North Coke Plant	North Coke Plant	9/10/2019	**7,030**	1,630	40	8,400	1,670	6,700	8,400	nd
ERM04	ERM04	9/10/2019	290	nd	10	300	10	300	300	240
MW07	MW07	9/10/2019	**1,390**	nd	nd	1,400	nd	1,400	1,400	300
ERM10	ERM10	9/10/2019	**3,430**	470	90	4,000	560	3,400	4,000	nd
MW18_01	MW18_01	9/10/2019	**970**	1,160	180	2,200	1,340	900	2,200	20
MW18_02	MW18_02	9/10/2019	**2,140**	860	190	3,200	1,050	2,200	3,200	nd
MW18_03	MW18_03	9/10/2019	**4,450**	nd	20	4,800	20	4,800	4,800	20
Statistics										
Samples analysed			20	20	20	20	20	20	20	20
Detects			20	5	15	20	15	20	20	16
% detect			100%	25%	75%	100%	75%	100%	100%	80%
Maximum			**13,400**	1,630	**6,200**	14,900	6,020	14,600	14,900	2,560
Mean			3,618	928	651	4,300	988	3,686	4,300	264
Median			2,140	1,010	115	3,200	355	2,500	3,200	130
Minimum			30	<10	<10	300	<10	200	300	<10
Criteria										
Marine Waters [1]			**910**	**-**	**700**	-	-	-	-	-

See tables notes at end of section

Groundwater Analytical Summary Table Notes

LOR - limit of reporting (standard LOR unless otherwise shown)

nd - not detected above the LOR

Bold - Exceeds criteria

^ - LOR raised

- denotes not analysed/not available

*- Chromium criteria as Cr(VI)

** - Low reliability trigger value, used as interim working level only.

ANZECC/ARMCANZ (2000) as total ammonia-N at pH 8.0.

1. Aquatic ecosystem criteria from Australian New Zealand Environment and Conservation Council (ANZECC) / Agriculture and Resource Management Council of Australia and New Zealand (ARMCANZ) (2000) *Australian and New Zealand Guidelines for Fresh and Marine Water Quality* , including Table 3.4.1 and Section 8.3.7.

The 95% species protection levels are to be applied for slightly to moderately-disturbed ecosystems (most urban catchments) and the 99% species protection levels for pristine or vulnerable ecosystems or where the contaminants are intractable (e.g. bioaccumulative).