

## EPA Kurnell Sample Results

### EPA Water Sample Results

|            | Sample Date | 8/04/22 | 8/04/22 | 8/04/22 | 8/04/22 | 8/04/22 | 11/04/22 |
|------------|-------------|---------|---------|---------|---------|---------|----------|
|            | Location    | K1      | K2      | K3      | K4      | K5      | DB-1     |
| >C10 - C16 | mg/L        | 0.4     | 10      | 10      | <0.2    | <0.2    | 5.2      |
| >C16 - C34 | mg/L        | 0.5     | 26      | 20      | <0.5    | <0.5    | 11       |
| >C34 - C40 | mg/L        | <0.5    | <2.6    | <0.5    | <0.5    | <0.5    | <0.5     |

|                        | Sample Date | 8/04/22 | 8/04/22 | 8/04/22 | 8/04/22 | 8/04/22 |
|------------------------|-------------|---------|---------|---------|---------|---------|
|                        | Location    | K1      | K2      | K3      | K4      | K5      |
| Acenaphthene           | mg/L        | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  |
| Acenaphthylene         | mg/L        | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  |
| Anthracene             | mg/L        | <0.001  | <0.001  | 0.002   | <0.001  | <0.001  |
| Benz(a)anthracene      | mg/L        | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  |
| Benzo(a)pyrene         | mg/L        | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  |
| Benzo(b)fluoranthene   | mg/L        | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  |
| Benzo(g,h,i)perylene   | mg/L        | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  |
| Benzo(k)fluoranthene   | mg/L        | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  |
| Chrysene               | mg/L        | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  |
| Dibenz(a,h)anthracene  | mg/L        | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  |
| Fluoranthene           | mg/L        | <0.001  | <0.001  | 0.002   | <0.001  | <0.001  |
| Fluorene               | mg/L        | <0.001  | 0.002   | 0.012   | <0.001  | <0.001  |
| Indeno(1,2,3-cd)pyrene | mg/L        | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  |
| Naphthalene            | mg/L        | <0.001  | <0.001  | 0.001   | <0.001  | <0.001  |
| Perylene               | mg/L        | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  |
| Phenanthrene           | mg/L        | <0.001  | 0.001   | 0.007   | <0.001  | <0.001  |
| Pyrene                 | mg/L        | <0.001  | 0.001   | 0.008   | <0.001  | <0.001  |

## EPA Water Sample Results

|                                     | Sample Date | 11/04/2022 | 11/04/2022 | 19/04/2022 | 19/04/2022 | 19/04/2022 | 19/04/2022 | 19/04/2022      | 19/04/2022   |
|-------------------------------------|-------------|------------|------------|------------|------------|------------|------------|-----------------|--------------|
|                                     | Location    | DB-2       | DB-3       | MPDS       | MPUS       | SOL        | Wharf      | Wharf duplicate | Voodoo Point |
| <b>C6 - C9 Fraction</b>             | ug/L        | <20        | <20        | <20        | <20        | <20        | 230        | 240             | <20          |
| <b>C10 - C14 Fraction</b>           | ug/L        |            |            | 70         | 1340       | <50        | 100        | 110             | <50          |
| <b>C15 - C28 Fraction</b>           | ug/L        |            |            | <100       | 2210       | <100       | <100       | <100            | <100         |
| <b>C29 - C36 Fraction</b>           | ug/L        |            |            | <50        | <50        | <50        | <50        | 60              | <50          |
| <b>C10 - C36 Fractions (sum)</b>    | ug/L        |            |            | 70         | 3550       | <50        | 100        | 170             | <50          |
| <b>C6 - C10 Fraction</b>            | ug/L        | <20        | <20        | <20        | <20        | <20        | 280        | 300             | <20          |
| <b>C6 - C10 Fraction minus BTEX</b> | ug/L        | <20        | <20        | <20        | <20        | <20        | 180        | 190             | <20          |
| <b>&gt;C10 - C16 Fraction</b>       | ug/L        |            |            | <100       | 1840       | <100       | <100       | <100            | <100         |
| <b>&gt;C16 - C34 Fraction</b>       | ug/L        |            |            | <100       | 1620       | <100       | <100       | <100            | <100         |
| <b>&gt;C34 - C40 Fraction</b>       | ug/L        |            |            | <100       | <100       | <100       | <100       | <100            | <100         |
| <b>&gt;C10 - C40 Fraction (sum)</b> | ug/L        |            |            | <100       | 3460       | <100       | <100       | <100            | <100         |
| <b>Benzene</b>                      | ug/L        | <1         | <1         | <1         | <1         | <1         | 5          | 6               | <1           |
| <b>Toluene</b>                      | ug/L        | <2         | <2         | <2         | <2         | <2         | 18         | 19              | <2           |
| <b>Ethylbenzene</b>                 | ug/L        | <2         | <2         | <2         | <2         | <2         | 4          | 4               | <2           |
| <b>meta- &amp; para-Xylene</b>      | ug/L        |            |            | <2         | <2         | <2         | 56         | 59              | <2           |
| <b>ortho-Xylene</b>                 | ug/L        |            |            | <2         | <2         | <2         | 22         | 24              | <2           |
| <b>Total Xylenes</b>                | ug/L        | <2         | <2         | <2         | <2         | <2         | 78         | 83              | <2           |
| <b>Sum of BTEX</b>                  | ug/L        | <1         | <1         | <1         | <1         | <1         | 105        | 112             | <1           |
| <b>Naphthalene</b>                  | ug/L        | <5         | <5         | <5         | <5         | <5         | 5          | 6               | <5           |

## EPA Water Sample Results

|                                     | Sample Date | 22/04/2022 | 22/04/2022 | 22/04/2022 | 29/04/2022 | 29/04/2022 | 29/04/2022 |
|-------------------------------------|-------------|------------|------------|------------|------------|------------|------------|
|                                     | Location    | SB1        | SB2        | SB3        | SD1        | SD2        | SD3        |
| <b>C6 - C9 Fraction</b>             | ug/L        | <20        | <20        | <20        | 40         | <20        | <20        |
| <b>C10 - C14 Fraction</b>           | ug/L        | <50        | <50        | <50        | <200*      | <200*      | <1700*     |
| <b>C15 - C28 Fraction</b>           | ug/L        | <100       | <100       | <100       | <500*      | <500*      | <4300*     |
| <b>C29 - C36 Fraction</b>           | ug/L        | <50        | <50        | <50        | <500*      | <500*      | <4300*     |
| <b>C10 - C36 Fractions (sum)</b>    | ug/L        | <50        | <50        | <50        |            |            |            |
| <b>C6 - C10 Fraction</b>            | ug/L        | <20        | <20        | <20        | 60         | <20        | <20        |
| <b>C6 - C10 Fraction minus BTEX</b> | ug/L        | <20        | <20        | <20        | 30         | <20        | <20        |
| <b>&gt;C10 - C16 Fraction</b>       | ug/L        | <100       | <100       | <100       | <200*      | <200*      | <1700*     |
| <b>&gt;C16 - C34 Fraction</b>       | ug/L        | <100       | <100       | <100       | <500*      | <500*      | <4300*     |
| <b>&gt;C34 - C40 Fraction</b>       | ug/L        | <100       | <100       | <100       | <500*      | <500*      | <4300*     |
| <b>&gt;C10 - C40 Fraction (sum)</b> | ug/L        | <100       | <100       | <100       |            |            |            |
| <b>Benzene</b>                      | ug/L        | <1         | <1         | <1         | 4          | <1         | <1         |
| <b>Toluene</b>                      | ug/L        | <2         | <2         | <2         | 5          | <2         | <2         |
| <b>Ethylbenzene</b>                 | ug/L        | <2         | <2         | <2         | <2         | <2         | <2         |
| <b>meta- &amp; para-Xylene</b>      | ug/L        | <2         | <2         | <2         | 11         | <2         | <2         |
| <b>ortho-Xylene</b>                 | ug/L        | <2         | <2         | <2         | 6          | <2         | <2         |
| <b>Total Xylenes</b>                | ug/L        | <2         | <2         | <2         | 17         | <2         | <2         |
| <b>Sum of BTEX</b>                  | ug/L        | <1         | <1         | <1         | 26         | <1         | <1         |
| <b>Naphthalene</b>                  | ug/L        | <5         | <5         | <5         | <5         | <5         | <5         |

\* The reporting limit for these samples was required to be raised due to low sample volume

## EPA Soil Sample Results

|                                     | Sample Date | 19/04/22 | 19/04/22 | 19/04/22 | 19/04/22 | 19/04/22       |
|-------------------------------------|-------------|----------|----------|----------|----------|----------------|
|                                     | Location    | MP1      | MP2      | MP3      | SOL1     | SOL1 duplicate |
| <b>C6 - C9 Fraction</b>             | mg/kg       | <10      | <10      | <10      | <10      | <10            |
| <b>C10 - C14 Fraction</b>           | mg/kg       | <50      | <50      | <50      | <50      | <50            |
| <b>C15 - C28 Fraction</b>           | mg/kg       | <100     | <100     | <100     | 320      | 370            |
| <b>C29 - C36 Fraction</b>           | mg/kg       | <100     | <100     | <100     | 100      | 110            |
| <b>C10 - C36 Fractions (sum)</b>    | mg/kg       | <50      | <50      | <50      | 420      | 480            |
| <b>C6 - C10 Fraction</b>            | mg/kg       | <10      | <10      | <10      | <10      | <10            |
| <b>C6 - C10 Fraction minus BTEX</b> | mg/kg       | <10      | <10      | <10      | <10      | <10            |
| <b>&gt;C10 - C16 Fraction</b>       | mg/kg       | <50      | <50      | <50      | 90       | 110            |
| <b>&gt;C16 - C34 Fraction</b>       | mg/kg       | <100     | <100     | <100     | 320      | 350            |
| <b>&gt;C34 - C40 Fraction</b>       | mg/kg       | <100     | <100     | <100     | 100      | 120            |
| <b>&gt;C10 - C40 Fraction (sum)</b> | mg/kg       | <50      | <50      | <50      | 510      | 580            |
| <b>Benzene</b>                      | mg/kg       | <0.2     | <0.2     | <0.2     | <0.2     | <0.2           |
| <b>Toluene</b>                      | mg/kg       | <0.5     | <0.5     | <0.5     | <0.5     | <0.5           |
| <b>Ethylbenzene</b>                 | mg/kg       | <0.5     | <0.5     | <0.5     | <0.5     | <0.5           |
| <b>meta- &amp; para-Xylene</b>      | mg/kg       | <0.5     | <0.5     | <0.5     | <0.5     | <0.5           |
| <b>ortho-Xylene</b>                 | mg/kg       | <0.5     | <0.5     | <0.5     | <0.5     | <0.5           |
| <b>Sum of BTEX</b>                  | mg/kg       | <0.2     | <0.2     | <0.2     | <0.2     | <0.2           |
| <b>Total Xylenes</b>                | mg/kg       | <0.5     | <0.5     | <0.5     | <0.5     | <0.5           |
| <b>Naphthalene</b>                  | mg/kg       | <1       | <1       | <1       | <1       | <1             |

### NSW Environment Protection Authority

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April 2022

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REFER TO MAP BELOW



|                                       |
|---------------------------------------|
| <b>Date</b>                           |
| 29 April 2022                         |
| <b>Image</b>                          |
| Nearmap Imagery @ 2022 – 5 April 2022 |



| Point ID  | Sample Type | Description   |
|-----------|-------------|---|
| K1        | Water       | Southern corner of Marton Park where a small stream ran down into Marton Park wetland |
| K2        | Water       | Pond of water in a stream leading to Marton Park wetland                              |
| K3        | Water       | Drain at the corner of Solander Street and Captain Cook Drive                         |
| K4        | Water       | Waterway alongside Captain Cook Drive   |
| K5        | Water       | Waterway alongside Captain Cook Drive   |
| DB-1      | Water       | Stormwater outlet directly east of the Kurnell wharf                                  |
| DB-2      | Water       | Stormwater outlet directly east of the Kurnell wharf                                  |
| DB-3      | Water       | Stormwater outlet directly east of the Kurnell wharf                                  |
| MPDS      | Water       | Marton Park downstream  |
| MPUS      | Water       | Marton Park upstream  |
| SOL       | Water       | Solander Street   |
| Wharf     | Water       | Kurnell wharf   |
| Voodoo Pt | Water       | Voodoo Point  |
| SB1       | Water       | Silver Beach  |
| SB2       | Water       | Silver Beach  |
| SB3       | Water       | Silver Beach  |
| SD1       | Water       | Stormwater drain  |
| SD2       | Water       | Stormwater drain  |
| SD3       | Water       | Stormwater drain  |
| MP1       | Soil        | Marton Park   |
| MP2       | Soil        | Marton Park   |
| MP3       | Soil        | Marton Park   |
| SOL1      | Soil        | Solander Street   |

**Date**  
 29 April 2022

**Image**  
 Nearmap Imagery @ 2022 – 5 April 2022