

PROJECT: KEMPSEY, 638 Crescent Head Road 0089781.00 DATE: 15/11/2021

SUBJECT: 89781.00 - Q1 Surface and Ground Water Monitoring Results TRANSMITTAL ID: 00003

PURPOSE: For your use VIA: Email

FROM

NAME	COMPANY	EMAIL	PHONE
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TO

NAME	COMPANY	EMAIL	PHONE
Louise Hoade PO Box 3078 West Kempsey NSW 2440 Australia	Kempsey Shire Council	louise.hoade@kempsey.nsw.gov.au	(02) 6566 3200

REMARKS: Hi Louise,

As requested – Interim results from the 2021-2022 Q1 quarterly monitoring are summarised below:

DP Project Number	89781.00
Inspection and Sampling Date	Q1 – 25 and 26 October 2021
Description	Fieldwork comprised the following: <ul style="list-style-type: none"> • Collection of surface water samples at locations S4, S5, S6, S7 and L8; • Gas monitoring using landfill gas analyser at wells B01-02, BH1, BH2, BH3 and BH4; • Photo-ionization detector screening of well headspace at wells B01-02, BH1, BH2, BH3 and BH4; and • Assessment of methane gas within existing buildings and capped landfill areas.
Fieldwork Observations	Standing water was observed at surface water locations S4, S5, S6, S7 and L8; The following table indicates the recorded water and well

	<p>details for this monitoring round.</p> <table border="1"> <thead> <tr> <th>Well ID</th> <th>TOC Elevation (AHD)</th> <th>Total depth of well (mbTOC)</th> <th>Depth to water (mbTOC)</th> <th>Standing water level (AHD)</th> </tr> </thead> <tbody> <tr> <td>BH1</td> <td>50.17</td> <td>25.13</td> <td>20.82</td> <td>29.34</td> </tr> <tr> <td>BH01-2</td> <td>29.64</td> <td>25.30</td> <td>5.62</td> <td>24.02</td> </tr> <tr> <td>BH2</td> <td>25.72</td> <td>25.63</td> <td>1.95</td> <td>23.77</td> </tr> <tr> <td>BH3</td> <td>29.78</td> <td>25.88</td> <td>6.42</td> <td>23.36</td> </tr> <tr> <td>BH4</td> <td>26.35</td> <td>21.77</td> <td>3.02</td> <td>23.33</td> </tr> </tbody> </table> <p>Notes to table: TOC – top of casing mbTOC – metres below top of casing</p>	Well ID	TOC Elevation (AHD)	Total depth of well (mbTOC)	Depth to water (mbTOC)	Standing water level (AHD)	BH1	50.17	25.13	20.82	29.34	BH01-2	29.64	25.30	5.62	24.02	BH2	25.72	25.63	1.95	23.77	BH3	29.78	25.88	6.42	23.36	BH4	26.35	21.77	3.02	23.33
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Surface Water	<p>Refer to attached laboratory testing results (281278-[R00]) and summary tables (89781.00.L.002.Rev0.Q1 Results).</p> <p>With reference to Kempsey Landfill EPL there were a number of exceedances reported within the lab samples as indicated by the highlighted cells in the attached summary table.</p>																														
Methane Gas	<p>No methane exceedances were recorded within onsite structures.</p> <p>Surface methane readings were not able to be taken during the site walkover of the capped area due to stockpiled material over some areas and malfunction of the testing equipment. When the equipment is repaired we will complete the walkover of accessible capped areas.</p>																														

The above interim results have been provided for the exclusive use of Kempsey Shire Council. Further details will be provided in the annual report.

Please don't hesitate to contact me if you have any questions.

Regards,

Joel Cowan | Associate / Geotechnical Engineer
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Transmittal

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DESCRIPTION OF CONTENTS

QTY	DATED	TITLE	NOTES
1	15/11/2021	89781.00.L.002.Rev0.Q1 - Lab Results -October 2021.pdf	
1	15/11/2021	89781.00.L.002.Rev0.Q1 - Field Monitoring Data - October 2021.pdf	
1	15/11/2021	281278-[R00].pdf	

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