



JBS&G 60081-138,315

L02 (JBS&G Assessment of Sediment Redistribution Volumes - New Sydney Fish Market Rev 0)

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ATT: City of Sydney Council

CC: Jennifer Chang

Infrastructure NSW

Via email: jennifer.chang@infrastructure.nsw.gov.au

Assessment of Revised Sediment Redistribution Volumes at the New Sydney Fish Market and Potential Implications to Remediation and Validation of Site Contamination

The new Sydney Fish Market, 1A to 1C Bridge Rd, Glebe and Part 56-60 Pyrmont Bridge Road, Pyrmont, NSW

To whom it may concern,

JBS&G Australia Pty Ltd (JBS&G) has previously been engaged by Infrastructure NSW (INSW, the client) to complete an Environmental Site Assessment (JBS&G 2019a¹), Remedial Action Plan (RAP, JBS&G 20120²) and Acid Sulfate Soil Management Plan (ASSMP, JBS&G 2019b³) for the new Sydney Fish Market development located at 1A to 1C Bridge Rd, Glebe and Part 56-60 Pyrmont Bridge Road, Pyrmont, NSW (the site).

Subsequent to the preparation of JBS&G (2019a, 2019b, 2020), the presence of sediment to a higher elevation than previously documented was identified beneath the footprint of the former Hanson wharf during recent demolition of the structure – that will result in an increased volume of materials (approximately 12,000 m³) that will require redistribution to facilitate the construction of the basement. JBS&G undertook an assessment of these additional sediments as documented in *Sediment Characterisation Assessment* (JBS&G 2021)⁴. The additional sediments were considered to comprise those present at an elevation above the previously assumed sediment bed level (interpolated by others using sediment level survey data points from beyond the former Hanson Wharf footprint) that were not identified until the demolition works of the wharf had begun late last year.

JBS&G (2021) reported that the additional sediment materials were largely consistent (visually) across each sampling location to the maximum depth of the investigation (2.2 m below bed level). In addition, contaminant concentrations within the materials were largely uniformly distributed, in which elevated levels of heavy metals, polycyclic aromatic hydrocarbons (PAHs) and total recoverable hydrocarbons (TRH) were identified and found to be consistent with, and / or less than the corresponding impacts from historical investigations within the balance of the site and wider Blackwattle Bay area. All the materials assessed were further considered to comprise potential acid sulfate soils (PASS).

¹ *Environmental Site Assessment, The new Sydney Fish Market, 1A to 1C Bridge Road, Glebe, NSW*. JBS&G 4 April 2019 (JBS&G 2019a)

² *Remedial Action Plan, The new Sydney Fish Market, 1A to 1C Bridge Road, Glebe, NSW*. JBS&G 8 July 2020 (JBS&G 2020)

³ *Acid Sulfate Soil Management Plan, The new Sydney Fish Market, 1A to 1C Bridge Road, Glebe, NSW*. JBS&G 4 April 2019 (JBS&G 2019b)

⁴ *Sediment Characterisation Assessment, The new Sydney Fish Market, 1A to 1C Bridge Road, Glebe, NSW*. JBS&G 12 January 2021 (JBS&G 2021)

Given that the additional materials assessed are largely uniform (both in terms of physical and chemical contaminant characteristics) and that the sampling density / vertical extent of the works was appropriate, it is considered that JBS&G (2021) has sufficiently characterised the additional sediments underlying the former Hanson wharf. As such, the conclusions drawn, being that the additional sediments present in this portion of the site are considered suitable for on-site retention (i.e. can be reprofiled) as documented in the RAP (JBS& 2020) is considered valid.

Based on the results and findings from JBS&G (2021), it is therefore considered that the redistribution of the additional sediments identified under the former Hanson wharf will result in no material variations to the scope of remediation and/or validation works required to be conducted at the site. Therefore, the recommendations/conclusions within JBS&G (2019a, 2019b, 2020) remain valid.

Should you require clarification, please contact the undersigned on 02 8245 0300 or by email cbielby@jbsg.com.au.

Prepared by:



Chris Bielby
Senior Environmental Consultant
JBS&G Australia Pty Ltd

Reviewed by:



Joanne Rosner
Senior Principal Consultant
JBS&G Australia Pty Ltd

Attachments:

- 1) Limitations

Attachment 1 – Limitations

This report has been prepared for use by the client who has commissioned the works in accordance with the project brief only, and has been based in part on information obtained from the client and other parties.

The advice herein relates only to this project and all results conclusions and recommendations made should be reviewed by a competent person with experience in environmental investigations, before being used for any other purpose.

JBS&G accepts no liability for use or interpretation by any person or body other than the client who commissioned the works. This report should not be reproduced without prior approval by the client, or amended in any way without prior approval by JBS&G, and should not be relied upon by other parties, who should make their own enquires.

Sampling and chemical analysis of environmental media is based on appropriate guidance documents made and approved by the relevant regulatory authorities. Conclusions arising from the review and assessment of environmental data are based on the sampling and analysis considered appropriate based on the regulatory requirements.

Limited sampling and laboratory analyses were undertaken as part of the investigations undertaken, as described herein. Ground conditions between sampling locations and media may vary, and this should be considered when extrapolating between sampling points. Chemical analytes are based on the information detailed in the site history. Further chemicals or categories of chemicals may exist at the site, which were not identified in the site history and which may not be expected at the site.

Changes to the subsurface conditions may occur subsequent to the investigations described herein, through natural processes or through the intentional or accidental addition of contaminants. The conclusions and recommendations reached in this report are based on the information obtained at the time of the investigations.

This report does not provide a complete assessment of the environmental status of the site, and it is limited to the scope defined herein. Should information become available regarding conditions at the site including previously unknown sources of contamination, JBS&G reserves the right to review the report in the context of the additional information.