

PHASE 3b INTERIM VALIDATION REPORT

Plots NT02-NT04, Dantzic Street, Manchester

for

FEC Ltd



01/09/2025



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1.0 INTRODUCTION

1.1 Background

1.1.1 RoC Consulting have been appointed by FEC Ltd to collate a Phase 3b Site Validation Report for the remediation of Plots NT02-NT04 Dantzic Street, Manchester.

1.1.2 The site is divided into three development plots termed NT02, NT03 and NT04. These boundaries are indicated on Drawing 4328-ROC-ZZ-XX-DR-ES-ES200 presented in Appendix A. In this report 'the site' refers to all of the above areas.

1.1.3 It is understood that the site is to be developed with a mixture of high and medium rise residential buildings to heights of between 20 and 35 storeys with smaller buildings varying in heights of between 4 and 8 storeys. The development is also anticipated to include small areas of soft landscaping, and a new access road passing between NT02 and NT03 and continuing to the east along the southern site boundary. The current proposed layout is presented in drawing RDB-MLA-2D-XX-DR-A-00110XXX presented in Appendix A.

1.1.4 An enabling works phase for the site has been completed by BAM Nuttal, which included the following scope items:

- site clearance and enabling works associated with the proposed works including the demolition of existing structures across the site and removal of existing hardstanding.
- reduced level dig to form development platforms and creation of temporary access roads;
- excavation of chlorinated solvent impacted soils in the southern portion of Plot NT02;
- in-situ remediation of ground water impacted by chlorinated solvent contamination;
- formation of a new piled retaining wall;
- diversion of an existing gas main, and
- other miscellaneous enabling activities, such as service disconnections and site hoardings

This report forms the interim reporting of the remediation objective completed during the enabling works phase.

1.1.5 This report has been completed to support the partial discharge of Condition 18, relating to Interim Validation, of Manchester City Council planning application ref: 136814/FO/2023. This report follows on from a number of site investigations, a targeted detailed quantitative risk assessment (DQRA) and a site remediation strategy relating to the development site, specifically:

- 1) RSK Geosciences, February 2024, Detailed Phase 3a Remediation Strategy, Plots NT02, NT03 & NT04 (ref: 11834 R02 (04))
- 2) RSK Geosciences, July 2023, Controlled Waters Detailed Quantitative Risk Assessment (ref: 11847 R01 (01))
- 3) RoC Consulting, January 2023. Technical Note on Plot NT03 Network Rail Mound (ref. 4328-ROC-ZZ-XX-TN-ES-TN2)
- 4) RoC Consulting, January 2023. Phase 1 Desktop Study (ref: 4328-ROC-ZZ-XX-RP-ES-PH1DTS)
- 5) Phase 2 Site Investigation Report, completed by RoC Consulting in October 2022 (ref. 4328-ROC-ZZ-XX-RP-ES-P2-101 Rev05)
- 6) LK Group, March 2020. Phase 2 Geo-Environmental Investigation, Risk Assessment and Remediation Strategy, at Plot NT02 only (ref: CL-602-LKC 20 1060-01)
- 7) Allied Exploration & Geotechnics Ltd, March 2019. Northern Gateway Final Factual Report (Contract Number: NW1580)
- 8) Hydrock, December 2015. Ground Conditions Desk Study (ref: R/151819/G001)

1.1.6 The following reports were provided on completion of the remedial works at the site by the main remediation subcontractors for this section of the works:

- Provectus, Victoria North NT02 to NT04, Factual report covering works April to October 2024. Produced by Provectus Remediation Ltd, who were appointed by the main site contractor BAM Nuttal to complete the remediation works for Plots NT02 to NT04. This report provides a factual account of the works completed between the dates shown. A copy of this report is included in Appendix B.
- Remedx – ISCR Injection works, Victoria North, Manchester – Verification Report 171111-RO1(00) July 2025. This report was produced to verify the insitu chemical reduction (ISCR) injection installation carried out at that site by Remedx and forms an interim validation. Final validation of ground water remediation will be reported following completion of the ongoing phases of groundwater monitoring currently being carried out by RoC. The interim report is summarised in Section 5.9 and is included in Appendix B.

1.1.7 It is recommended that reference be made to the above-mentioned reports when reviewing this validation report.

1.1.8 This Phase 3b Interim Validation Report has been completed as evidence of the completion of the site remediation, primarily to initial site formation levels, in line with the Detailed Phase 3a Remediation Strategy, Plots NT02, NT03 & NT04 (ref: 11834 R02 (04)) completed by RSK Geosciences in February 2024.



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1.2 Limitations

- 1.2.1 The comments made in this report are based on the data available at the time of its completion. Any unusual or conflicting evidence discovered during any future site works must be presented to RoC Consulting as soon as possible so that any implications may be considered.
- 1.2.2 Additional information, changes in legislation or revised practices may necessitate reinterpretation of part or all of this report. Additionally, site redevelopment and/or a change in end use will require reinterpretation of the assessment.
- 1.2.3 The accuracy of data supplied by third parties should be considered in the context of any known site conditions for which RoC Consulting cannot be held liable.
- 1.2.4 The report has been produced by RoC Consulting for the client solely for the purposes of a review of information for the abovementioned site. It may not be used by any person for any other purpose other than that specified without the express written permission of RoC Consulting. Any liability arising out of its use by a third party for purposes not wholly connected with the above shall be the responsibility of that party who shall indemnify RoC Consulting against all claims, costs, damages and losses arising out of such use.



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2.0 BACKGROUND INFORMATION

2.1 Site Description

- 2.1.1 The subject site covers an area of approximately 2.30 hectares located to the south of Dantzic Street in Manchester and is centred at National Grid Reference E384690, N399470, as indicated on Drawing 4328-ROC-ZZ-XX-DR-ES-ES200 presented in Appendix A.
- 2.1.2 The site termed “Plot NT02” covers a roughly rectangular parcel of land within the wider Plot NT03 and NT04 development master plan area. The site is bounded by Dantzic Street to the north beyond which lies a travellers site and the River Irk (flowing roughly northeast to southwest) approximately 20.00 m to the north; an electrified railway line on a viaduct to the south with car repair garages, beneath, within the viaduct arches; the wider Plot NT0 site to the east (comprising a former waste management operator); and the Victoria Riverside high rise apartment scheme to the west.
- 2.1.3 The southern light industrial building was operated by Astra Signs Ltd; a sign making company. The topography of the Plot NT02 is relatively flat with levels varying between 31.20 m above ordnance datum (AOD) at the interface with Dantzic Street and 34.80 mAOD in the southern portion of the site. Plot NT02 is accessed from the east through a gate leading from Dantzic Street via Plot NT03.
- 2.1.4 Plot NT03 currently comprises a large National Rail owned soil mound built up against the Network Rail viaduct at the southern boundary of the site. Immediately north of this, and along the wall to the east of the Network Rail mound, are smaller stockpiles of loose, topsoil-like material left in place by the former operators of the site, Ryan Topsoil Ltd. Large portions of the central part of the site are covered in concrete slabs.
- 2.1.5 The Plot NT03 is also accessed via a gate onto Dantzic Street. A small portion of this plot, also covered with hardstanding, is fenced off from the remainder and accessed separately, also from Dantzic Street. Levels on Plot NT03 vary significantly due to the presence of a large stockpile of soil which rises to 45.65 mAOD at its peak, sloping to 33.27 mAOD at its base in the centre of the plot. The hardstanding working area, extending from the base of the mound to the northern boundary, varies in elevation from 33.00 mAOD to 31.38 mAOD.
- 2.1.6 Plot NT04 is comprised of semi vegetated disused land. The southern boundary is formed by the Network Rail viaduct. Dantzic Street and Dalton Street form the northern boundary with a disused warehouse and the River Irk beyond.
- 2.1.7 The eastern boundary is formed by Dalton Street and residential housing. Relic walls of a former structure are present in the northern portion of the Plot, likely part of the historic Dalton Print Works.



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- 2.1.8 Parts of the south of the site are covered with hardstanding, with stockpiles of construction material present at the time of the site works. Levels in this plot fall from south (41.50 mAOD) to north (32.00 mAOD). Levels in the eastern portion of NT04 are higher than the remainder of the plot, with the northeastern corner of the site generally sitting at approximately 39.00 mAOD to 40.00 mAOD. Plot NT04 is accessed via a gate onto Dalton Street in the east of the plot.



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3.0 TIMELINE OF CONSULTATION, INVESTIGATION AND REPORTING

3.1 Introduction

3.1.1 The following is a list of investigations on the site.

3.2 Phase 1 Desktop Study – Hydrock

3.2.1 Hydrock completed a ground conditions desk study in December 2015 (ref: R/151819/G001). The aspects covered in this report were subsequently re assessed in the RoC Consulting Phase 1 Desktop study summarised in Section 3.3.

3.3 Phase 1 Desktop Study - RoC

3.3.1 RoC Consulting completed a phase 1 desktop study (ref: 4328-ROC-ZZ-XX-RP-ES-PH1DTS, Phase 1 Desktop Study Report, dated April 2022). A summary of this report is as follows:

- Previous site investigations undertaken by LK Consult indicate that the site is underlain by made ground deposits, with low thickness of superficial deposits and relatively shallow bedrock. Additional intrusive investigation of ground conditions will be required to inform geotechnical design.
- The site has had an industrial history from the late 1800s with past site uses including print works, paint works, the Collyhurst Foundry, rubber works, scrap metal works, asphalt works, a nut and bolt works and numerous other forms of industry that have a contaminative potential. The surrounding local area has also had a heavy industrial past with nearby land uses including gas works, iron works, garages and depots, chemical works and railways / railway sidings.
- A previous programme of site investigation works on Plot NT02 completed by LK Consult identified potential contamination in this location and recommended remedial measures. There is currently evidence to support these recommendations. However, it is recommended that they are reassessed in the context of the entire site following additional site investigation.
- Further investigation of potential contaminants via intrusive investigation is required in order to provide a detailed risk assessment of the risks posed by the identified sources of contamination to receptors (particularly human health and controlled waters).

- There is a significant area of the site occupied by a topsoil stockpile (most of Plot NT03) which will require removal to facilitate the development. Located adjacent this stockpile is an embankment which used to accommodate a signal box associated with the adjacent railway. It is currently unknown whether this embankment provides support to the adjacent railway viaduct or if there is a separate structure supporting the viaduct obscured by the embankment. Further investigation as well as consultation with Network Rail is proposed to ascertain how structural support is provided to the viaduct in this area and any potential constraints that may be presented to the proposed development in either eventuality.
 - Given the extensive past development of the site, it is highly likely that relict foundations and potentially basements will be encountered in future works.
- 3.3.2 With reference to the above it is noted the site has the potential to impact on identified receptors, both during the construction process and as part of its subsequent operation as a high-rise residential development with areas of soft landscaping.
- 3.3.3 As such it was recommended that a programme of site investigation works be completed to further investigate the quality and composition of site soils with respect to risks posed by sources of contamination and ground gas ingress. Consideration should also be given to establishing the foundation design parameters and sufficient geotechnical information to support new building design.

3.4 Phase 2 Site Investigation - AEG

- 3.4.1 Factual site investigation completed by AEG in 2019 results of which were interpreted in the Phase 2 Site Investigation report by LK.

3.5 Phase 2 Site Investigation – LK Group

- 3.5.1 The LK Group completed a phase 2 geo-environmental investigation (ref: CL-602-LKC 20 1060-01, Phase 2 Geo-Environmental Investigation, Risk Assessment and Remediation Strategy, at Plot NT02 only, dated March 2020). A summary of the report is as follows:
- 3.5.2 Site works comprised of 7 window sample locations to a maximum depth of 4.45 m below ground level (bgl) and 2 rotary borehole locations to a maximum depth of 20.00 mbgl covering the whole of Plot NT02.



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3.5.3 Key findings are summarised as follows:

- Elevated levels of heavy metals (lead) in soil at WS104, SP1 and SP2 (likely associated with ash, clinker and coal noted within made ground deposits).
- Elevated levels of polycyclic aromatic hydrocarbons (PAHs) – benzo(a)pyrene and naphthalene in soil at WS102, WS103, WS105, TP103, TP105, SP1 and WS205 (likely associated with ash, clinker and coal noted within made ground deposits).
- Elevated levels of petroleum hydrocarbons (TPHs) – aliphatic >C12-C16, aromatic >C8-C10 and aromatic >C10-C12 in soil at WS205, WS201, WS202 and WS204. Photo-Ionisation Detector (PID) readings in the southwest of the plot also indicate the presence of volatile organic compound contamination with readings between 4.3ppm and 207ppm (likely associated with former industrial activity in this area of the site).
- Elevated concentrations of contaminants in groundwater including vinyl chloride (VC) at RBH101 and trichloroethylene (TCE) in RBH103. The report hypothesizes these may be linked to historic industrial activity on site or a result of historic industry across the wider area, such as the former gasworks.

3.6 Phase 2 Site Investigation - RoC

3.6.1 RoC Consulting completed a phase 2 site investigation report (ref: 4328-ROC-ZZXX-RP-ES-P2-101, Phase 2 Site Investigation Report, dated between October 2022 and December 2023). A summary of this report is as follows:

3.6.2 The Phase 2a (2022) RoC site investigation covered the entire site to establish baseline ground conditions and target known or suspected sources of contamination highlighted by the Phase 1 Desk Study. The Phase 2e (April to May 2023) supplementary site investigation works were completed to address the data gaps identified by the initial site investigation, namely, to explore the extent of the TCE plume identified within Plot NT02 and to increase general coverage across Plot NT03 and NT04.

3.6.3 Further investigation works were completed within the National Rail (NR) mound within the southern area of Plot NT03, and a final phase of the investigation works, Phase 2f (October – November 2023) within Plot NT02 and the western portion of NT03 in order to further characterise the TCE plume.

Site works comprised:

- Phase 2a: 11 window sample boreholes, 16 trial pits and 10 rotary borehole locations.
- Phase 2e: 13 window sampling boreholes, 9 trial pits and 7 rotary boreholes.
- The NR mound: 3 window sampling with rotary follow-on boreholes.
- Phase 2f: 5 rotary boreholes across Plot NT02 and western part of NT03.

3.6.4 Soil contamination details are as follows:

- Plot NT02: Lead and PAH concentrations within unsaturated made ground at several locations were found to exceed generic assessment criteria (GAC) relating to a proposed commercial land use. A delineation exercise also revealed TCE contamination within made ground beneath the warehouse in the southern area of this plot, thought to have arisen as a result of long-term industrial operations onsite, possibly through the use of lubrication or degreasing agents in bolt making operations and their leakage over time into soils through floor slabs or drainage networks.

A total of 25 soil samples from Plot NT02 were scheduled for asbestos identification testing, of these, 10 returned a positive result. Quantification testing revealed that only one sample had concentrations of asbestos high enough to classify the material as hazardous waste (>0.1% by weight). Generally, the lateral and horizontal distribution of these contaminants across the Plot indicated that the source of these contaminants may have been the result of long-term on-site industrial operations.

- Plot NT03: Lead concentrations exceeding relevant GACs (either commercial or public open space, depending on the likely proposed land use at the plot) were also detected at a single location in the west of NT03.

Of the 14 samples tested for asbestos at this plot, 5 samples returned a positive asbestos result, one of which was determined at a concentration which exceeded the hazardous waste threshold. The occurrence of soil contamination is thought to be associated with the previous construction/demolition activities, along with the site's former use as an unspecified works and later scrap metal works.

During the September 2023 NR soil mound investigation, hydrocarbon odours were noted within the made ground of boreholes RBH401 to RBH403. Given that no residential development is proposed within the mound area, soil samples retained from the mound were screened against criteria for a proposed commercial end use – no exceedances of commercial GAC's were reported. Additionally, no positive asbestos results were returned for the 3 soil samples collected from the NR mound.

- Plot NT04: Lead contamination appears to be generally widespread across NT04 within made ground deposits. A total of 3 of the 27 samples tested for asbestos

returned a positive result, though concentrations within these samples were all below the hazardous waste threshold.

3.6.5 Ground gas details are as follows:

- Plot NT03: Results across 6 return gas monitoring visits revealed maximum methane and carbon dioxide concentrations of 0.1% and 8.3% respectively, with gas flow rates ranging between 0.0 and 0.1l/hr. These worse case gas levels and borehole flow rates equate to a gas screening value (GSV) of 0.0083l/hr which falls into the classification of CS1, however, BS8485:2015+A1:2019 (BS8485) guidance recommends that (CS2) is adopted in instances where carbon dioxide exceeds 5%. Since carbon dioxide concentrations exceeded 5% at the site during several monitoring visits, the site should be classified as CS2.
- Plots NT02 and NT04: 6 return visits were conducted across a 10 week period, the maximum methane concentration was recorded as 0.0% and the maximum carbon dioxide level as 4.4% with gas flow rates between 0.0 and 0.1l/hr the worse-case scenario gas levels and borehole flow rates equate to a GSV of 0.0044l/hr which corresponds to an anticipated Characteristic Situation of CS1. However, given that several boreholes at Plot NT02 recorded concentrations of CO₂ >5% on several occasions, in line with BS8485:2015+A1:2019, Plot NT02 was classified as CS2. NT04 still remains as CS1. Given the presence of volatile organic compound (VOC) contamination within soils and groundwater within the Plot NT02 site, and required remediation works, there is potential for soil vapour ingress into the new structures in this area. However, the severity of this risk will be determined by the proposed remediation works relating to the identified TCE contamination. As such, further consideration of these risks will be required once an approved remediation approach for TCE has been reached.

3.6.6 Groundwater details are as follows:

- During previous ground investigation phases undertaken by RoC, 12 soil leachate samples in total were collected from plots NT02-NT04 to assess the probability of contaminants having entered the groundwater (dissolved phase). The test results were screened against appropriate target concentrations (Drinking Water Standards (DWS)).

- Soil leachate concentrations were found to exceed DWS target values at the following locations in Plot NT02: arsenic at TP202, WS301, WS397 and WS309; lead at TP202 and WS309; nickel at WS309; sulphate at TP202, TP203, WS301 and WS307; PAH at WS202, WS309 and RBH203; carbon tetrachloride at WS202; TPH at WS202, WS209 and RBH203; and trichloroethane at WS202 and WS304. In addition, groundwater samples were collected during return monitoring visits. Results of laboratory testing revealed the following exceedances when screened against DWS: arsenic at LK BH01, RBH201, RBH301 and RBH502; sulphate at RBH201, RBH301, RBH502 P2 and RBH503; carbon tetrachloride at WS202; chloroform at RBH203; cis 1,2-dichloroethane at LK BH1, RBH301 and RBH503; trans 1,2-dichloroethane at LK BH01; vinyl chloride at LK BH01, RBH301 and RBH503; TPH at RBH502; trichloroethane at WS202 and WS304; benzene at LK BH01, RBH301, RBH502 P2 (385), RBH503 and RBH505.
- At plot NT03 results revealed arsenic, lead, sulphate, PAH and TPH exceedances when screened against DWS within RBH403 (NR mound). Results of groundwater analysis results screen identified the following exceedances: arsenic at RBH403; cadmium at RBH403; lead at RBH403; sulphate at RBH306 and RBH202; manganese at RBH205; nickel at RBH306 and RBH403; PAH at RBH403; carbon tetrachloride at RBH303; cis 1,2-dichloroethane at RBH303; trichloroethane at RBH303; and benzene at RBH303.
- Samples taken from Plot NT04 had results exceeding leachable screening criteria at the following locations: lead (leachable) at TP214 and TP216; nickel (leachable) at TP307; and sulphate (leachable) at TP307. Additional samples were collected directly from the groundwater during return visits, the exceedances when screened against DWS screening values are as follows: sulphate at RBH208 and RBH209; arsenic at RBH208; and manganese at RBH206.

3.6.7 Surface water details are as follows:

- Due to the close proximity of the River Irk to the north of the site, 2 surface water samples (SS301 and SS304, one up and one downstream) were collected from up and down stream of the site to provide a direct assessment of the water quality. Contaminant concentrations were screened against relevant environmental quality standards (EQS) and both upstream and downstream samples exhibited concentrations which exceeded the EQS for zinc. The downstream samples also exhibited concentrations which exceeded the EQS for nickel and copper.

- Further assessment was undertaken using the United Kingdom Technical Advisory Group (UKTAG) Metal Bioavailability Tool (M-BAT) approach. The tool was used to calculate the site-specific predicted no effect concentrations (PNEC) for those compounds for which EQS exceedances had been identified. Laboratory results were then compared with the PNEC. The regional background concentration of zinc of 2.90µg/l was then subtracted from the identified exceedances.
- The analytical results for surface waters indicated that concentrations of copper, nickel and zinc recorded in groundwater had not resulted in the presence of unacceptable concentrations of determinants within the adjacent surface water.

3.6.8 The conclusions from the RoC Consulting assessments are as follows:

- Given the elevated concentrations of contaminants, including heavy metals, PAH, and asbestos, detected in the unsaturated made ground soils across Plots NT02, NT03 and NT04, it was concluded that a risk to human health exists at the site with regards to future site users within the proposed residential apartment scheme. It was recommended that detailed remediation design should be undertaken as part of a Remediation Strategy for the site, likely to include provision of a clean soil capping system in areas of proposed soft landscaping, with a minimum thickness of 600 mm, of which 150 mm should be topsoil.
- It was also recommended that, with regards to the TCE contamination noted within the made ground within Plot NT02, the risk posed to human health and controlled waters should be further assessed via the production of a Detailed Quantitative Risk Assessment (DQRA), which in turn would inform site specific remedial targets for the remediation design. This work was subsequently completed and is included within the RSK DQRA report for Plot NT02 (see Section 3.7, below).
- Elevated concentrations of heavy metals, TPH and PAH have been detected in soils across the site, due to the absence of limited thickness of glacial till, particularly in the west at Plot NT02 and Plot NT03 there is the potential for leaching of contamination from unsaturated soils into the underlying Chester Formation Principal aquifer and Manchester Marls Formation Secondary B aquifer, particularly in areas not covered with buildings or hard standing. i.e. proposed areas of public open space.



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- 3.6.9 Additionally, a diffuse TCE source in unsaturated soils has been identified beneath the warehouse in the southern portion of Plot NT02, extending into the southwestern area of Plot NT03, in an area where historic industrial activities including the bolt works and foundry were located. The leaching potential of the soils was initially investigated in the July 2022 and April 2023 site investigations by the analysis of 12 soil leachate samples. This was later supplemented in subsequent phases of site investigation by groundwater sampling from locations across the site and an additional 3 soil leachate samples from the Network Rail mound in November 2023.
- 3.6.10 As the primary controlled waters receptor is the principal aquifer (Chester Formation (sandstone)), the analytical results for groundwater samples have been assessed against DWS. 45 groundwater samples (plus three duplicate samples) have been tested from across the site (17 groundwater samples (plus three duplicate samples from September / October 2022), 3 groundwater samples from January 2023, 13 groundwater samples from May 2023 and 12 groundwater samples from November 2023).
- 3.6.11 TCE exceedances of the DWS were reported in groundwater in the shallow Chester Formation sandstone in LK BH03, RBH203 and RBH501 located in the south of Plot NT02 and extending over the eastern site boundary to RBH303 and RBH504 located in Plot NT03. Carbon tetrachloride was also reported to exceed the DWS in LK BH01, LK BH03, RBH203, RBH302, RBH501, RBH502 and RBH504 and chloroform exceedances were reported at RBH203.
- 3.6.12 TCE daughter compounds cis-1,2-dichloroethene, trans 1,2-dichloroethene (DCE) and VC were reported to exceed the DWS in the shallow Chester Formation sandstone on the outskirts of the TCE groundwater plume and down hydraulic gradient to the north of the site. An exceedance of the DWS was also reported for DCE in the shallow Manchester Marl ground water body to the west of the TCE plume core at RBH502 P2.
- 3.6.13 Benzene exceedances were reported in groundwater in the Chester Formation sandstone and Manchester Marls Formation in the north of Plot NT02 and TPH fractions (aliphatic and aromatic C12-C16), and benzene were reported to exceed the DWS in the southwest of the site.
- 3.6.14 The profile of the TPH fractions indicates that these contaminants likely represent two distinct sources of TPH and benzene at the site and considering the absence of benzene detections in soils and leachate, the report concludes that both sources are most likely to off-site to the west and south.



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- 3.6.15 It was noted that the metals, PAH compounds and TPH fractions detected in leachate testing and the other semi-volatile organic compound (SVOC) detected in soils testing were not reported at concentrations exceeding relevant screening standards, likely due to degradation in the unsaturated zone and / or more preferential sorption to soils.
- 3.6.16 The report concluded that a potentially complete pollutant linkage exists for the migration of chlorinated VOC to the wider principal and secondary aquifers and recommended further assessment of potential risks to controlled waters via DQRA specifically for TCE, carbon tetrachloride, cis and trans-1,2-DCE and VC.
- 3.6.17 Benzene was detected in the Manchester Marls Formation at depths of between about 15.00 mbgl to 20.00 mbgl with evidence to suggest the contamination was coming from an off-site source (namely a former gasworks up gradient to the south of the site, and former gas holders to the north). As such we have not considered the benzene contamination to require further assessment, modelling or remediation as part of the proposed development process.

3.7 Detailed Quantitative Risk Assessment - RSK

- 3.7.1 RSK completed a Controlled Waters Risk Assessment (ref: 11847 R01 (01), Plot NT02 Dantzic Street, dated December 2023, prepared for RoC consulting). A summary of this report is as follows:
- 3.7.2 The main contaminants of concern identified at the site are TCE detected as a diffuse source within the unsaturated soils in the south of the site (Plot NT02) (within the footprint of the historic bolt works) and TCE, its daughter products, DCE and VC, and carbon tetrachloride, present as a dissolved phase plume within the underlying the Chester Formation (sandstone), designated as principal aquifer by the Environment Agency (EA).
- 3.7.3 The following plausible potential pollutant pathways exist in relation to sensitive controlled waters:
- Migration of leachable contaminants from impacted soils present in the unsaturated zone.
 - Vertical and lateral migration of dissolved phase contaminants within the Chester Formation sandstone aquifer and, to a lesser degree, the less productive Manchester Marls aquifer.
 - Lateral migration of dissolved phase contaminants within the Chester Formation and Manchester Marls Formation to the River Irk approximately 20.00 m to the north of the site.
- 3.7.4 Remediation Target Values (RTV) have been derived for the protection of the Chester Formation aquifer, using the EA's Remedial Targets Methodology (RTM), at a compliance

point of 50.00 m from the boundary of the source zone, in accordance with current best practice guidance.

- 3.7.5 Screening of the soil and groundwater results against the proposed RTV indicates exceedances of TCE in soil at WS302, WS304, WS305 and WS308 in the south of Plot NT02 and 3 exceedances at for groundwater at LKBH03, RBH203 and RBH303 located in the south of Plot NT02 and approximately 5.00 m beyond the eastern site boundary within Plot NT03. An exceedance is also reported in groundwater for DCE and VC at LKBH01 in the north of the NT02 site.
- 3.7.6 The derived RTVs for TCE and carbon tetrachloride were 0.224 mg/kg and 0.116 mg/kg, respectively and the report concluded remediation would be required at the site. These remedial target concentrations and associated the derived RTVs, were used inform the design of the proposed remedial works at the site.

3.8 Remediation Strategy - RSK

- 3.8.1 RSK completed a remediation strategy report (ref: 11834 R02 (04)), Plots NT02, NT03 and NT04 Dantzic Street, Phase 3a Remediation Strategy Report, dated February 2024. A summary of the remedial requirements is provided in Section 4.



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4.0 REMEDIAL REQUIREMENTS

4.1 Introduction

- 4.1.1 The requirements for the remediation of the site were established in the RSK Remediation Strategy Report (Report ref: 11834 R02 (04)) in February 2024) and are detailed as follows:

4.2 Excavations, on-site processing and off-site treatment/disposal of TCE impacted unsaturated soils

- 4.2.1 TCE and its breakdown products DCE, VC and carbon tetrachloride, were detected as diffuse sources within unsaturated made ground on site. The majority of soil contamination was concentrated in the southern portion of Plot NT02 and southwest of Plot NT03. A single exceedance was noted for elevated levels of TCE, in soils, when compared to commercial GACs as part of the screening assessment for human health. Elevated concentrations of TCE were identified in the majority of exploratory boreholes and the risk to controlled waters posed by the presence of TCE impacted soils has been proven by the presence of VOC contamination within the groundwater of the Chester Formation sandstone (Principal aquifer). The risk to controlled waters was the main driver for remediation of this material.
- 4.2.2 Remediation works required the excavation and treatment/removal of TCE impacted soils in this area involving the selective excavation of contaminated soils, on site processing (screening and testing) to recover an acceptable fraction (for re-use on site) and offsite disposal of the heavily impacted soils for either further treatment at an offsite recovery centre or disposal to an appropriately licensed disposal facility I. Furthermore, after the proposed cut and fill operation onsite, additional excavation may be required beneath the existing enabling works cut/fill level to ensure all contaminated material, as defined by the remediation criteria is sufficiently remediated.

4.3 Removal of domestic landfill material identified at Plot NT04

- 4.3.1 During the October 2022 RoC site investigation works, material relating to an informal domestic waste landfill was encountered within TP214 at Plot NT04. This material was not encountered in any other exploratory boreholes therefore it was considered likely to be localised. Under the remediation strategy, there is a requirement for this material to be chased out during enabling works, excavated and removed offsite to an appropriately licensed treatment or disposal facility.

4.4 Management of previously unidentified contamination (Discovery Strategy)

- 4.4.1 Other primary sources of contamination (e.g. below ground storage tanks, significantly contaminated soils, immediate risks to controlled waters, etc.) and secondary sources (e.g. lower-level soil contamination, minor or localised hydrocarbon impacted material) requiring removal have not been identified at the site but may be present. To address this a Discovery Strategy was to be put in place as part of the Remediation Strategy providing a framework for the management of unforeseen contamination during the planned remediation and site preparation works. An outline Strategy was present in section 7.8 of the Remediation Strategy (Report ref: 11834 R02 (04) in February 2024) with contractors required to document and implement the strategy. Any new sources of contamination that are reported and covered by the above Discovery Strategy should be subject to the same validation requirements of the wider remediation process, noting these validation works may require additional treatment measures or recording that should also be captured.

4.5 Soil Capping System (landscaped zones)

- 4.5.1 The proposed development comprises predominantly surface hard cover (buildings and car park), which will offer sufficient breakage in the contamination linkage toward end-users of the site, however, there are several communal green planting and green paving/soil cell areas proposed.
- 4.5.2 Given the presence of identified contamination within shallow made ground soils across plots NT02, NT03 and NT04, site-derived "topsoil" or made ground will not be suitable to remain within 600mm of soft cover finish level and imported natural sub and topsoil's will be required to fill these areas.
- 4.5.3 A minimum 600mm capping layer will be required in proposed soft landscaping zones with 600mm taken as the final depth below final finished floor levels. Site won soils from these soft standing areas will need to be either retained onsite (where possible) beneath areas of hard standing; or disposed of from site to a suitably licensed facility.
- 4.5.4 Any imported soils used in the soft landscaping areas should be subject to chemical validation testing of material imported and compared against determinants and requirements for a simple soil cover system. In addition, any material used as a capping layer in these soft landscaped areas will need to possess sufficient infiltration characteristics to allow site drainage networks to function.
- 4.5.5 As part of the validation process, photographs recording soil capping depth will be required once the soil cover system has been emplaced along with information regarding the source for any imported clean soils. Photographs are to include a survey staff for measurement as evidence the 600mm capping requirements have been fulfilled.

4.6 Asbestos

4.6.1 Loose fibre asbestos (chrysotile, amosite, anthophyllite and crocidolite) and fragment (chrysotile) was identified in 18 of the 83 samples of made ground submitted for testing from the RoC site investigation. Eleven of the 18 samples subjected to quantification analysis recorded asbestos concentrations above the laboratory lower limit of detection of 0.001%. The distribution of asbestos contamination encountered across site suggests that it is likely to be present across all plots. It will be necessary to employ asbestos mitigation measures during redevelopment work to safeguard the health and safety of the site workers and users of adjacent sites. Remedial actions and guidelines were proposed in the RSK Remediation Strategy Report (Report ref: 11834 R02 (04) in February 2024), summarised below:

- Use of a clean soil cover layer in areas where a potential contamination linkage applies of made ground below the soft landscaped areas of the proposed development (for details see Section 4.5).
- Due to exposure risk to ground workers and adjacent commercial/residential settings during ground and earthworks, where practicable, measures to prevent the spread of asbestos should follow the Control of Asbestos Regulations (2012).

4.6.2 To further manage the exposure risk, the remediation strategy recommended:

- Excavations within granular made ground and stockpiles compiling granular made ground (incorporating rubble waste) be dampened down.
- Stockpiles of granular made ground (incorporating rubble waste) to be covered.
- All site staff to receive training on the identification of asbestos containing materials (ACM) and an understanding of actions to be implemented if ACM is identified.
- A watching brief should be implemented during the excavation of all granular made ground to identify presence of ACM.
- Implement stop work procedures if potential unforeseen ACM is identified.

4.6.3 Boundary monitoring was also recommended in close proximity to areas where the public may be present, to be undertaken during periods when excavating, handling and transporting rubble waste. If fibre levels are above the limit of quantification (0.01 fibres/ml (f/ml)), additional air monitoring should be undertaken until clearance levels are satisfactory (0.01f/ml).

4.6.4 Mitigation measures will be used to manage the spreading and exposure of potential asbestos within granular made ground material. Disturbance onsite by vehicles and excavation activity has the potential to cause airborne fibre release. Fibre release is generally considered to be greatest from granular material with low moisture content. This type of material is potentially present across the site and shall be minimised using the following measures:

- The exposed made ground material should be dampened down to reduce the potential for asbestos fibre release. The moisture content at the surface of the area being excavated and in any uncovered stockpiles should be kept >10%.
 - Granular made ground material should be stored on and removed from hard standing areas, if not possible, stockpiles should be placed on plastic sheeting.
 - Stockpiles should be covered if left in place for more than 12 hours.
 - Impacted soils remaining onsite, outside of normal working hours, should be placed within appropriate fencing, and signage should be present to secure the area.
 - Vehicle movements will be managed to avoid the spread of asbestos fibres. To minimise the potential for affecting natural soils within the site, vehicle movement routes should be signed and where possible loading areas will be restricted either to hard-standing, or to haul roads constructed of 'clean' imported fill or natural soils from the site.
 - Should the exterior or wheels of any tipper lorry be affected by potentially contaminated material, a vehicle jet-wash will be used to clean the vehicle, with the wastewater directed into the contaminated area.
- 4.6.5 In order to manage unforeseen ACM, RSK recommended a watching brief from a suitably qualified engineer during the excavation of granular made ground material. The engineer should carefully examine the material for the presence of clumps or fibrous asbestos, material that may contain asbestos such as board, rope, textile, vinyl or ceramics. Work should cease if the engineer suspects ACMs during the watching brief and the situation should be re-evaluated. Re-evaluation may require wetting of soils, additional monitoring, risk assessment and personal protective equipment should be utilised. Should samples be required for bulk analysis or quantification testing, samples will be taken in the correct manner and utilising dust suppression techniques. Samples will be double bagged at the sampling location and uniquely labelled. The approximate location will be recorded on the site plan for reference.

4.7 Ground Gas

- 4.7.1 Worst case scenario results from previous gas monitoring have classified the areas proposed as Plots NT02 and NT03 as Characteristic Situation 2 (CS2) due to elevated concentrations of carbon dioxide observed in boreholes from the previous site investigation. Both areas will require gas protection measures protective of carbon dioxide for which more details are provided in section of the RSK Remediation Strategy Report (Report ref: 11834 R02 (04) in February 2024).
- 4.7.2 The verification of the gas protection measures does not form part of this phase of verification. Verification of the installation of the gas protection measures will be reported in separate validation report on completion and validation of the associated works.



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4.8 Soil Vapours

- 4.8.1 The remediation strategy identified that TCE contamination beneath Plot NT02 has the potential to generate SVOC and VOC vapours that could pose a risk to human health during construction and operational phases of the development. The soil contamination zone affected by TCE and its daughter products will be subject to screening and removal in accordance with re-use criteria outlined in the remediation strategy primarily in the context of the protection of controlled waters.
- 4.8.2 The reduction and removal of VOC contaminants in soils will also significantly reduce the potential for soil and gas vapour generation and ingress post completion of the remedial works. As such, the use of specific gas vapour resistant barriers within new buildings is not considered necessary. However, it will be necessary for contractors completing TCE remediation works to undertake validation gas monitoring on conclusion of the soil treatment works. This monitoring should confirm what, if any, residual VOC vapour contamination may be present in site soils and confirm that there is still no requirement for gas vapour resistant membranes within buildings.
- 4.8.3 There will be risks posed to construction workers during the primary TCE soil source removal phase. Due consideration should be given to the range of mitigation measures required for site operatives engaged in these works to reduce risk of chronic exposure to airborne VOC contaminants. This could include the use of disposable overalls, certified face masks or exclusion zones around the most grossly impacted soils reported during the remediation process. Regular PID monitoring of soils would also be prudent to check levels of vapour release.

4.9 Groundwater remediation

- 4.9.1 Based on the results of the previous site investigation works and controlled waters DQRA model produced for Plot NT02 (ref: 11847 R01), a pollutant linkage is considered to exist between TCE, DCE, VC and carbon tetrachloride soil source and dissolved phase plume extending beneath Plot NT02 and controlled waters via leaching/vertical migration through the unsaturated zone and/or lateral migration through dissolved phase to the wider Principal aquifer of the Chester Formation. The high density and low solubility of TCE can mean that the compound can often manifest as a dense non-aqueous phase liquid (DNAPL) within the groundwater environment, however the drilling of boreholes and subsequent monitoring rounds completed as part of the previous site investigation did not encounter any measurable DNAPL thickness.
- 4.9.2 In the absence of any identified DNAPL and following the removal of the soil source, direct treatment of the groundwater within the underlying soils and bedrock was proposed to be carried out across the southern area of NT02 and southwestern NT03 within the area of TCE contamination.
- 4.9.3 An initial appraisal of the remediation options for the treatment of TCE impacted groundwater was presented within the RSK Outline Remediation and Options Appraisal report for the site (ref: 11834 R01 (00), dated August 2023). The appraisal considered in-situ chemical reduction (ISCR) a viable treatment option for the VOC contaminated groundwater in the underlying Principal aquifer of the Chester Formation due to its successful operation at targeting chlorinated solvents, the minimal need for significant remedial plant and no requirement to quarantine areas of the site allowing other site activities to be undertaken around the remedial works. As a result of additional site investigation to increase confidence in the groundwater model and characterise the contamination plume, and production of the DQRA model, ISCR was taken forward as the preferred groundwater treatment option.
- 4.9.4 This technique involves the injection of reducing chemicals into the contaminated aquifer to produce a strongly reducing environment within the groundwater body, such that residual contaminants of concern are reduced to their ultimate daughter compounds through a combination of direct chemical reduction and anaerobic degradation.

- 4.9.5 It is considered that the use of reducing chemicals across the affected area would produce a strongly reducing environment within the groundwater body resulting in VOC compounds being reduced to their ultimate daughter compounds through a combination of direct chemical reduction and anaerobic degradation. The existing groundwater data and aquifer parameters indicated that the groundwater environment is currently aerobic within the plume and anaerobic at the edges of the plume. This process would therefore force anaerobic conditions, increasing the capability of biodegradation and faster reduction in concentrations within the aquifer and reduce the spread to the wider aquifers. The required injection frequency and dose concentration should be calculated by a specialist remediation contractor, relative to contaminant concentration and persistence.
- 4.9.7 Timescales for this method of remediation are based on the size of the source area and will be estimated by the remediation specialist. It should be noted that the treatment process can be slowed if contaminants are trapped in hard-to-reach areas such as rock fractures which is potentially the case within the Chester Formation. There is also potential for contaminant concentrations to rebound following treatment, requiring further injection. This would be determined by ongoing groundwater monitoring and sampling. Once contaminant concentrations have decreased sufficiently, in cases where the aquifer conditions allow, continued remediation of the plume could be implemented through monitored natural attenuation (MNA).
- 4.9.8 The remediation process detailed above has been put in place by the specialist remediation contractor RemedX and a brief summary is presented in Section 5.9 .

4.10 Ongoing Groundwater Monitoring

- 4.10.1 The ongoing monitoring of selected wells will be required to further refine the design of groundwater remediation works, and further laboratory testing of groundwater and groundwater level monitoring will be required to support the finalisation of the remediation method statement. The construction of further monitoring wells may also be required by remediation specialists to either support the design of remediation works or to complete compliance monitoring during and following on from the remediation process. Monitoring wells no longer required should be decommissioned as described in Section 4.10.2, whilst those being retained are set out in Section 4.10.3.

- 4.10.2 Well removal works: Boreholes shown as blue in drawing 4328-ROC-ZZ-DR-ES-ES214 were to be removed and treated in accordance with the EA guidance Science Report SC020093. The removal of these wells should be completed by appropriately qualified contractors and documented with a validation note provided with evidence of the well removal process. If wells are to be retained in the short to medium term it is recommended that quarterly inspection visits are completed to confirm their current condition and that no damage has occurred that could compromise their integrity. As with the well removal works, these validation inspections should be documented, and a well condition survey report provided following each visit. This information, along with the documentation of well removal works, should be provided within the Phase 3b Site validation pack and may also be required in advance of remediation works by the regulatory authorities. Locations of buried wells should be confirmed and recorded in accompanying reports.
- 4.10.3 Well retention: The following RoC Consulting monitoring wells are to be retained to support the design and validation of remedial works (BH501, BH502, BH203, BH503, BH504, BH505, BH305 and LKBH1). In addition to the monthly groundwater level gauging visits on these wells, it is recommended that water quality samples are obtained on a quarterly basis to support the design of groundwater remediation works prior to commencement of site construction works. This sampling should include for the analysis of the following determinants: heavy metal, PAH, SVOC and VOC, TPHCWG and hardness, dissolved oxygen and pH values. Samples should be collected and dispatched to a suitably accredited UKAS testing facility with the results reported in a brief letter report. This report should also include a Tier 1 screen of water quality testing results against published UK DWS and EQS screening criteria, in line with assessment of water quality during previous investigation works. In the event the results of this sample indicate a deterioration of water quality; it will be necessary to further consider the implications of this issue in the context of proposed remediation works.
- 4.10.4 The sampling frequency will likely increase during soil and groundwater remediation works. Similarly, the monitoring wells indicated for retention and further monitoring/sampling have been agreed with the EA collation with this project. In the event of any damage to borehole well installations, the EA must be contacted, and any associated repair or replacement must be utilised. The protection of the monitoring wells during remediation works, and following their conclusion, solely relies on the Principal Contractor. As such, the following is recommended as part of the wider construction plan: The locations of all monitoring wells should be clearly displayed on notice boards within site cabins and other appropriate areas to increase awareness. Reference should be made during toolbox talks with an emphasis on their importance. Monitoring well caps should be replaced with 'top hat' style covers raised relative to ground level and painted bright colours to help improve visibility. Protective measures should be implemented to help protect the wells from site works.

- 4.10.5 Additional monitoring wells may be required during the remediation process. The location and design of any additional monitoring wells should be described within the Remediation Method Statement and any wells that require removal subject to the same requirements of those outlined in Section 4.10.2.
- 4.10.6 It must be emphasised that retaining the monitoring wells is a critical part of the overall remediation validation process and that failure to protect them may result in the groundwater treatment process not being approved by regulatory authorities. Any damaged wells will need to be repaired or, worse case scenario, replaced. The monitoring programme will extend beyond the physical treatment phase and could encroach into the building process stage.
- 4.10.7 Groundwater monitoring is being reported separately to this interim report in a series of Groundwater monitoring reports which will be issued on a periodic basis.

4.11 Re-use of Materials

- 4.11.1 The intention is to reuse a portion of the site generated material elsewhere onsite. This material will be subject to additional chemical testing to confirm its suitability for reuse. Soils that are excavated are anticipated to be screened and sorted, temporarily stockpiled and tested, where appropriate to confirm suitability for the following categories of use:
- Material suitable for use as general fill material below proposed buildings, as backfill or re-grade materials.
 - Material suitable for inclusion within 600mm of surface landscaped areas.
 - Material suitable for placing beneath single storey, overground car parks and roadways.
- 4.11.2 Soils found unsuitable for reuse will be consigned to offsite disposal. It is also possible that soils will be disposed offsite despite suitability, if stockpiling is impracticable or a surplus volume of material is present. In addition, aggregate may also be generated by processing of concrete slabs and old foundations to provide suitable granular fill.
- 4.11.3 Reuse of materials on site shall be subject to provision of a materials management plan (MMP).

5.0 REMEDIAL WORK & VALIDATION

5.1 Introduction

- 5.1.1 Provectus Remediation Ltd (PRL) were appointed by BAM Nuttal to undertake the soil remediation works on Plots NT02, NT03 and NT04, whilst RemedX were appointed (also by BAM Nuttall) to undertake remediation of the groundwater beneath NT02.
- 5.1.2 The soil remediation works were undertaken in two phases with initial removal of Japanese Knotweed impacted materials from NT04 completed in April 2024 and the main works carried out between May 2024 and November 2024. On completion of the works Provectus produced the following report:
- Provectus, Victoria North NT02 to NT04, Factual report covering works April to October 2024, a copy of which is provided in Appendix B. This report provides further detailed information on the remedial works completed and should be referenced in conjunction with this report.
- 5.1.3 The groundwater remediation works were undertaken between October 2024 and June 2025. On completion of the works RemedX produced the following report:
- RemedX – ISCR Injection works, Victoria North, Manchester – Verification Report 171111-RO1(00) July 2025. This report was produced to verify the insitu chemical reduction (ISCR) injection works carried out at that site by RemedX and forms an interim validation. Final validation of ground water remediation will be reported following completion of the ongoing phases of groundwater monitoring currently being carried out by RoC. The interim report is summarised in Section 5.9 and is included in Appendix B.
- 5.1.4 The works completed by PRL and RemedX were in line with the requirements of the Remediation Strategy previously summarised in Section 4.0 and included:
- 5.1.5 The remediation by excavation and finish level validation and subsequent screening and disposal of the identified TCE source area in the unsaturated superficial materials within plot NT02 (see Section 4.2).
- 5.1.6 Remediation and validation of known plus a number of subsequently identified tanks and buried structures. This work included some areas with previously unidentified ACMs which were identified during excavations works (see Section 4 of the PRL report included as Appendix B).

- 5.1.7 In relation to groundwater monitoring, during the works a number of monitoring wells were retained for ongoing monitoring, these included boreholes RBH203, RBH501 and RBH502.

5.2 Excavation of the Chlorinated Solvent Impacted Soils

- 5.2.1 PRL completed remedial excavation works on the TCE contaminated material in the southernmost corner of NT02. The area was covered by a concrete floor slab and bounded by a retaining wall to the southeast. Due to the presence of the retaining wall to an adjacent garage building, it was necessary to implement a temporary works design for this area which resulted in a 3.00 m standoff from the wall and the construction of a batter to support the existing floor slab (to remain in-situ) down to the formation level resulting in an effective no excavation zone of approximately 5.0 m from the retaining wall.

- 5.2.2 The completed RSK DQRA reported soil RTVs for TCE and carbon tetrachloride at 0.224 mg/kg and 0.116 mg/kg, respectively.

Excavation works:

- 5.2.3 Excavation works were undertaken in mid-June 2024 and involved the saw cutting of the concrete slab approximately 1.20m from the site perimeter, followed by breaking and removal of aforementioned slab. As some areas in NT02 still awaited demolition the slab removal was limited to the floor slab furthest to the south of NT02.
- 5.2.4 Excavations were supervised by a PRL engineer with periodic visits made by RoC engineers to confirm adherence to the remediation specification. Records of the RoC engineers site visits with photographs are provided in Appendix C.
- 5.2.5 Soil removal was undertaken to approximately 32.6 mAOD, with material being stockpiled on the remaining NT02 concrete floor slabs. There was no obvious olfactory or visual evidence of contamination and PID readings taken during the works did not indicate evidence of chlorinated solvents. Further excavations of the impact area were therefore primarily determined by soil results from previous ground investigations.
- 5.2.6 The vertical extent of the excavations averaged approximately 32 mAOD, with additional excavation of areas of granular made ground. A total of approximately 360m³ of material was excavated from this area and covered with visqueen sheeting. Prior to this, testing was carried out for waste classification purposes with materials classified as non-hazardous soil materials.
- 5.2.7 Where boreholes were to be retained material around the boreholes were excavated as close as possible to the installations whilst not damaging their integrity. During the excavation works an initially unidentified borehole was also retained, this was located in the southern corner of NT02 and was subsequently assumed to be RBH302. The other boreholes successfully retained were RBH203, RBH501 and RBH502.

- 5.2.8 Material was subsequently removed from site on Wednesday 26th June 2024 (39 loads) and Thursday 27th June 2024 (10 loads) to a licensed landfill facility as non-hazardous soil material.
- 5.2.9 Validation samples were taken by the PRL engineer from the sides and base of the excavation, with side samples collected at the same depth as the contaminated material encountered during the site investigation works, where possible.
- 5.2.10 The chemical testing results revealed that samples NT02/F, NT02/G and NT02/L returned concentrations of TCE in exceedance of the RTV (310 mg/kg, 330 mg/kg and 340 mg/kg, respectively), these samples were taken from the northernmost edge of the excavation, therefore further horizontal and vertical excavation works were completed in this area.
- 5.2.11 The materials identified in the regions of NT02/F, NT02/G and NT02/L were excavated and loaded straight into wagons for disposal at the same landfill facility, to a depth of 31.4m AOD but extending to 31m AOD where drainage runs were encountered.
- 5.2.12 On Tuesday 9th July 2024, an additional approximately 310m³ (33 loads) were removed. A redundant drain was also noted immediately below this area; the material excavated in this area was chased out and stockpiled on visqueen sheeting. A total 3 loads were removed as part of drainage chasing on Tuesday 11th July 2024 and this material was removed as hazardous waste to a licensed waste treatment facility. Details of materials removed from site are included in the PRL report in Appendix B.
- 5.2.13 Further validation samples were collected from the base and sides of the excavation and chemical results confirmed the soils did not exceed the RTVs. Additional samples were collected from the trial pits excavated beyond the northern edge of the main TCE hotspot excavation. Chemical testing of soils recovered from these trial pits confirmed that TCE impact did not extend past the extent of the excavation.
- 5.2.14 Analytical results for the validation samples and for stockpiles with associated location drawings are contained in Appendix J of the PRL report contained in Appendix B.

Air Monitoring:

- 5.2.15 PIDs were used to measure real-time total photo ionisable vapours along with hand pumps with TCE-specific “Drager” absorption tubes for real time TCE vapour concentrations. No significant qualitative PID or quantitative TCE vapours were identified at any point during either round of excavation works.
- 5.2.16 Air was also sampled for laboratory testing using “Tenax” carbon absorption tubes. A pump was placed on top of RBH203 which allowed a comparison of the actual VOC concentrations

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with the PID and Drager measurements. The tenax tube results were also compared to a background measurement made in this location prior to excavation works starting.

- 5.2.17 Analysis of the samples collected during the first round of excavation revealed the presence of benzoic acid and aliphatic and aromatic organic compounds as well as TCE vapours (as did the initial background screen). Concentrations of TCE did not exceed 1,400 ng on the tube, converted to a concentration of 6.24 mg/kg. The concentrations do not pose a risk to human health and release of vapours is considered normal in relation to the volume of soil excavated.
- 5.2.18 The second round of excavation works did not reveal the presence of TCE vapours although benzoic acid and aliphatic and aromatic compounds (including naphthalene) were recorded. The results indicate the majority of TCE impacted materials were excavated as part of the first round of the excavation works. The measured concentrations in air did not pose a risk to human health.

Backfill:

- 5.2.19 Upon the completion of excavation and receipt of validation samples, the area was backfilled and compacted to formation level.
- 5.2.20 The material used in the backfilling operation was a Class 1A ash fill originating from the centre of Plot NT03. The material was passed through a 60 mm sieve to remove oversized material, and subsequent geotechnical analysis classified the material as Class 1A. The material was placed in less than 275 mm thick layers and compacted using 13 tonne vibrating roller.
- 5.2.21 Several samples of post-screened ash fill material were collected and submitted for laboratory chemical analysis. Results confirmed the materials to be chemically suitable when compared to site wide chemical re-use criteria set for material reuse within the Remediation Strategy.
- 5.2.22 Approximately 275m³ of the ash material was used during the backfilling of the TCE remediation excavations within Plot NT02, with an average fill depth of approximately 600 mm. This depth did vary across the filled area between a low of 200 mm and a high of 1,000 mm.
- 5.2.23 The results of analysis for the ash fill materials are included in Appendix A of the Provectus report along with sample descriptions (Appendix Aa) in Appendix B. The testing included for a range of determinants including speciated PAHs, total PAH, heavy metals, petroleum hydrocarbons (speciated TPH) and VOCs.

- 5.2.24 Geotech testing was also carried out on the materials to assess its suitability from an engineering perspective. Results for this are included in the PRL report Appendix B but are not discussed further here.

5.3 Additional Areas of Remedial Works

- 5.3.1 Several areas of the site were subject to additional remediation works, both expected i.e. previously identified underground tanks, as well as unexpected remediation works. These are summarised in the following sub-sections.
- 5.3.2 Below ground tanks: several underground tanks were identified at the start of the works. Any contents remaining in tanks was removed and tested prior to disposal off site. Tanks were then broken out, the sides and bases of the excavations tested to confirm only materials meeting the site-specific acceptability criteria remained, and the concrete crushed for reuse on site. Details of each of the three tanks and probable vehicle wheel wash pit are set out in Section 4.1 of the PRL report in Appendix B.
- 5.3.3 An additional previously unknown tank ('NT02 Tank') was identified during the excavation works and this was remediated in the same manner as described above. ACM materials comprising roofing sheets were identified in Plot NT04, ACM impacted soils and roofing sheets were identified in Plot NT02 and an asbestos cement former water main was excavated from the eastern boundary of NT02. These materials were all excavated and disposed of off site under duty of care. Full details of the additional remedial works are set out in Section 4.2 of the PRL report in Appendix B.

5.4 Removal of Buried Structures / Obstructions

- 5.4.1 Prior to the start of remedial works, significant portions of Plots NT02 and NT03 were covered in hardstanding, either as redundant floor slabs across Plot NT02, or as concrete and asphalt / tarmac roads across Plot NT03. These roads and floor slabs were broken out and transferred to a stockpile area in Plot NT03. Asphalt / tarmac was removed separately and moved to different areas to maintain segregation.
- 5.4.2 Once slabs were removed, any redundant foundations and drain runs were chased out and removed. The highest concentration of obstructions encountered was in the central area of Plot NT02. These obstructions typically ranged from floor slab level of about 32 mAOD to a maximum depth of approximately 30 mAOD for redundant foundations. Once excavated and broken out, the concrete was removed to a stockpile in Plot NT03 to await crushing. Obstructions were also encountered on Plot NT04, comprising foundations linked to demolished structures, typically brick retaining walls and foundations linked to the former Dalton Works printworks. These materials were also removed to the stockpile on Plot NT03 for crushing.

- 5.4.3 Other buried obstructions that were specifically chased out that were below formation included redundant drainage lines. Within Plot NT02, these ran the southern two-thirds of the length of NT02 from south to north. Redundant drainage lines were also identified aligned north - south through the eastern 'lower' portion of Plot NT04. All areas excavated for redundant drainage removal were backfilled and compacted in accordance with the earthworks specification.

5.5 Additional Areas that Required Observation and/or Sample Analysis and Review

- 5.5.1 Archaeological works were undertaken (by others) on the foundations of the former Dalton Works printworks. These investigations involved the uncovering of the printworks foundations, including the removal of untested backfill materials around these foundations, and resulted in the creation of a large stockpile of material. Since this material was an agglomeration of various untested materials, this was riddled to remove oversize materials and tested to confirm suitability for reuse
- 5.5.2 Other areas that required unexpected testing included an apparent land drain encountered during excavations on Plot NT04 close to the redundant drainage noted in Section 5.4.3, above. Water appeared to flow within this drain following rainfall, albeit with a time lag, suggesting the water took time to enter the drain. Samples of this water were sent for laboratory analysis, the results of which indicated a non-foul water origin, suggesting the drain was a surface or rainwater drain run originating either from the former Dalton Works printworks or the railway viaduct to the south of the site.

5.6 Site Won Materials (6F2)

- 5.6.1 Obstructions and oversize materials were stockpiled in Plot NT03, prior to crushing. Crushing commenced in July 2024 and produced 3,219 m³ of 6F2 material.
- 5.6.2 Chemical and geotechnical testing was undertaken as the 6F2 material was being produced. One sample was identified as containing a low concentration (<0.01%) of chrysotile asbestos. Additional testing was undertaken and identified the presence of low concentrations of amosite asbestos in addition to chrysotile. This established that a small hotspot of 6F2 with a potential low-level asbestos impact was present, most likely due to limited areas of contamination within the pre-crushed concrete (although analysis of samples of pre-crush materials did not reveal any asbestos). There was also the potential for low level asbestos impact from the underlying soils to be accidentally transferred to the stockpile alongside the oversize, although the oversize was generally riddled prior to loading into the crusher and significant asbestos was not encountered on the site immediately below any floor slabs, either during the site investigation or remediation phases.

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- 5.6.3 The asbestos impacted portion of the stockpile was segregated from the remainder of the stockpile for off-site disposal. Additional sampling of the rest of the completed stockpile confirmed the absence of asbestos. The segregated material was disposed of as a part load with oversize collected post-demobilisation of the crusher.
- 5.6.4 All other chemical and geotechnical analyses confirmed the suitability of the 6F2 for reuse on site. It should be noted that 100 loads of this material were transferred by Bam Nutall to the BAM HIF site on the opposite bank of the River Irk for use in upfilling works. In addition, approximately 200m³ of this 6F2 was used to form a 100mm base layer before the temporary piling platform.
- 5.6.5 Further excavation and obstruction removal works were undertaken following the demobilisation of the crusher from site. These materials were exported to DHI's facility in Mies Platten for offsite crushing. A total of 58 loads plus the asbestos-impacted part load described above were exported post-demobilisation of the crusher.
- 5.6.6 All asphalt / tarmac surfaces at the site were also ripped up and stockpiled separately (to avoid accidental contamination of the 6F2 during the crushing). These materials were also exported to DHI's facility in Mies Platten.
- 5.6.7 Following the original demolition of the buildings by others, the crushing of oversize materials resulted in approximately 350m³ of 6F2 that was left in a stockpile on the northern portion of Plot NT02. Chemical and geotechnical tested verified this material's suitability for reuse

5.7 Areas of Site Raising

- 5.7.1 The site reprofiling works required the movement of materials into four main areas:
- The first area was to facilitate the construction of a piling mat to allow the construction of a retaining wall along the southern site boundary with the viaduct. The piling mat was underlain by materials assessed against the site-specific acceptability criteria, with the temporary piling mat being constructed of chemically acceptable site won 6F2 and imported MOT Type 1 material which was removed from site once the piling works had been completed.
 - The second area was the extension of the piling platform described above to the west that could not be undertaken until an existing medium pressure gas pipeline had been diverted. The piling mat was underlain by materials assessed against the site-specific acceptability criteria, with the temporary piling mat being constructed of chemically acceptable site won 6F2 and imported MOT Type 1 material which was removed from site once the piling works had been completed.
 - The third area was the upfilling of the central portion of NT02 where the redundant foundations and other buried obstructions had been excavated and removed.

- The fourth area was the backfill of the TCE area on the southern third of NT02 and is discussed in Section 5.2, above.

5.7.2 A number of materials were utilised from various areas of cut across the site:

- Two areas of Class 1 granular fill excavated from the northern end of Plot NT03 adjacent to Dantzic Street. These areas were the first area to cut to level, since these areas were used as a storage area for oversize material and a receiving area for produced 6F2.
- Materials obtained from the ramp/embankment on the southern side of Plot NT03, consisting mainly of Class 2 cohesive fill (categorised as suitable for reuse in permanent works by the earthworks specification).
- Materials obtained from the foot of the ramp/embankment on the southern side of Plot NT03, consisting of a mix of the underlying Class 1 ash fill as well as the ramp material.
- A triangular shaped area excavated at the foot of the batter resulting from the extension of the ramp piling mat. Materials in this area consisted predominantly of a Class 1 granular ash fill
- The route of the existing medium pressure gas main: this area could not be cut until the new gas main was installed and commissioned, and the existing main decommissioned and removed. These materials were predominantly Class 1 granular material overlying a Class 6A material.
- Due to the deficit of suitable Class 1 material towards the end of the works, some material was removed from the northern area of Plot NT02 adjacent to Dantzic Street for use in the temporary fill works. This was replaced with a Class 6A material also obtained from the route of the existing gas main.
- Following the removal of the redundant foundations across the central section of Plot NT02, due the shallow groundwater and the potential for the creation of soft spots where a stanchion base had been removed from a relatively impermeable strata, approximately 200m³ of the 6F2 remaining on site from the demolition of the original buildings was used as primary backfill.
- *Temporary works only:* as described above, the piling mat consisted of approximately 100mm of site-won 6F2 overlain by approximately 440mm of imported virgin Type 1 material (interspersed with SS40 and SS60 geomembranes).

5.7.3 A number of samples were collected to assess and confirm the geotechnical suitability of the material for both the underlying permanent and the temporary works. These samples exceeded the specified sampling frequency of one sample per 500m³. Results for this are included the PRL report Appendix B but are not discussed further here.

- 5.7.4 Samples were also collected and analysed for those chemical reuse parameters described in the Remediation Strategy Report. The results of these analyses were compared to these parameters and this confirmed that all materials were suitable for reuse.
- 5.7.5 A full record of materials movements will be presented in detail in the MMP.
- 5.7.6 Several site-won materials were used for backfilling across the site:
- Class 1A materials
 - Class 2C materials
 - Class 6 materials
 - 6F2
- 5.7.7 All of these materials (except some cohesive Class 6 and the 6F2 materials) were excavated, stockpiled before passing through a 60 mm screen to remove oversized materials.
- 5.7.8 In accordance with the Enabling Works Performance Specification, materials were subject to method compaction of general fill materials in accordance with Table 1 of the Specification for Highway Works, Series 600 Earthworks.
- 5.7.9 To verify that the materials had been compacted, a number of CBR and deformation plate tests were undertaken in three rounds. The tests were undertaken at both the top of the permanent works and the top of the temporary works. The Enabling Works Performance Specification required all permanent subgrades to achieve a CBR $\geq 3\%$.
- 5.7.10 All but 2 CBR tests exceeded the 3% specification. Where the 2 tests marginally failed (at finished level on the plateaux across Plot NT04), the materials across the entire plateau were re-compacted, and the surface retested in the vicinity of the original tests. These repeat results achieved $\geq 3\%$. The remaining ten tests also exceeded the 3% CBR requirement.

5.8 Site Works Monitoring

Asbestos in Air Monitoring:

- 5.8.1 A total of three asbestos air monitoring visits were undertaken during the remediation works by a third party (28th June 2024, 10th July 2024 and 22nd July 2024). Pumps were placed at various points around the perimeter of the site, including in close proximity to excavation areas and loading areas. No significant fibres were measured with all results reported to be < 0.01 f/ml.



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Site Perimeter Dust Monitoring:

5.8.2 'Frisbee'-type dust deposition gauges were placed at four points around the perimeter of the site:

- MP1 was in the southwestern corner of the site in the TCE area of Plot NT02
- MP2 was in the northwestern corner of Plot NT02 adjacent to Dantzic Street
- MP3 was situated in the site compound adjacent to Dantzic Street, effectively the northeastern corner of Plot NT03
- MP4 was located halfway along NT04's boundary with Dalton Street

Significant dust in excess of the guidance criteria of 200mg/m²/day deposition rate was not observed.

Vibration Monitoring:

5.8.3 A Vibrock vibration meter was placed at various positions around the site, with the location determined by the proximity of a sensitive structure and the nature of the works being undertaken nearby. These structures included the railway viaduct along the southern boundary of the site; the medium pressure gas main and the garage retaining wall on the southern boundary of Plot NT02 / TCE remediation excavation area.

5.8.4 Results were compared to guidance criteria provided in BS 5228-2:2009 and NGN's "Safe working in the vicinity of Northern Gas Networks high pressure gas pipelines and associated installations".

5.8.5 Significant vibration likely to cause damage to any receptor was not observed.

5.9 Groundwater remediation

5.9.1 The specific objective of the ISCR works undertaken by the specialist remediation contractor RemedX was to deliver reagents capable of producing reducing conditions within the target saturated zone, for the long-term treatment of the contaminants of concern.

5.9.2 A total of 22 injection wells were installed to depths of between 13 mbgl to 15 mbgl on a regular grid covering the identified target area. Installation was undertaken between December 2024 and March 2025. Upon completion of the baseline groundwater monitoring (January 2025), a further 4 multipurpose monitoring and injection wells were installed, refining the site conceptual model and providing additional delineation of the plume on site. Baseline groundwater monitoring for the second phase of well installation was completed in April 2025.

- 5.9.3 Injection of ISCR took place between February 2025 and June 2025 and was divided into 2 phases enhance the distribution of the chemicals in the ground and to facilitate monitoring of physical parameters during injection. A third injection phase was later implemented to target the additional 4 multipurpose wells.
- 5.9.4 Following monitoring during the initial injection procedure , the injection method was altered slightly and ultimately comprised four rounds of injection consisting of:
1. Injection of trace water (a solution of water and sodium sulphite; to deplete dissolved oxygen in the water used for injection, creating an anoxic solution);
 2. Injection of diluted reagent (combination of a fermentable carbon source - Enhanced Reductive Dechlorination (ERD) amendment and Dual Valent Iron (DVI)) to 50% with trace water, and;
 3. Post reagent injection flush injection with trace water.
- 5.9.5 A total of 26 t of ERD, 1.95 t of DVI, 35 kg of sodium sulfite and 201.126 t of trace water was injected in the injection process.
- 5.9.6 Immediately following injection, groundwater was monitored for changes in geochemistry to ascertain the behaviour of reagents in the subsurface and confirm trends in oxidation-reduction potential (ORP), pH, conductivity and dissolved oxygen (DO). The results from the geochemistry monitoring confirmed the groundwater changed into a more anoxic and reductive environment during the course of the works, creating favourable conditions to reductive dechlorination.
- 5.9.7 Baseline groundwater sampling and laboratory analysis was completed to delineate the extent and magnitude of the plume prior to starting the remediation works (January and April 2025). Intermediate samples were taken during the works (April and May 2025) from selected wells to monitor the immediate effect of the remediation process on the contaminant profile. Visual inspection of the wells for the presence of reagents was also used as line of evidence of successful injection and distribution of reagents in the subsurface.
- 5.9.8 In order to provide further evidence to support the remediation works and the likelihood of ongoing microbial degradation of contaminants post injection, samples were taken from selected wells before (October 2024) and after (June 2025) the injection works for microbial counting and profiling. The results provided additional evidence confirming the successful implementation of the works.
- 5.9.9 Throughout the duration of the project, environmental monitoring of noise, odour, VOC release to air and visual dust was undertaken. No exceedances of monitoring limits set out in the construction environmental management plan were encountered during the course of the project.



**COMPLEX CHALLENGES ...
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- 5.9.10 As noted in Section 3.6.16, benzene exceedances were reported in groundwater in the Chester Formation sandstone and Manchester Marls Formation beneath the northern area of Plot NT02, and TPH fractions (aliphatic and aromatic C12-C16) and benzene were reported to exceed the DWS in the southwest of the site.
- 5.9.11 The profile of the TPH fractions indicates that these contaminants likely represent two distinct sources of TPH and benzene at the site and considering the absence of benzene detections in soils and leachate, the RoC phase 2 site investigation report (ref: 4328-ROC-ZZXX-RP-ES-P2-101) concluded that both sources are most likely to off-site to the west and south, where historic gasworks were located. The presence of former gasworks in close proximity to the site is also considered highly likely to be the source of dissolved cyanide that has also been identified in the groundwater beneath NT02. The benzene, TPH and cyanide are all considered to represent off-site contaminant sources and are currently the subject of continuing groundwater monitoring.
- 5.9.12 Final validation of ground water remediation will be reported following completion of the ongoing phases of groundwater monitoring currently being carried out by RoC and will include comment on the previously identified contaminants associated with off-site sources.

6.0 CONCLUSIONS

- 6.0.1 In line with the accordance of the approved Phase 3a Remediation Strategy for the Plot NT02-04 site, a program of soil remediation works has been completed across the site to support the treatment and removal of previously identified sources of soil and groundwater contamination.
- 6.0.2 The current Phase 3b site validation report has been collated as an interim summary of remediation works across the site relating to the treatment of soil borne contaminants and other associated enabling earthworks. With reference to the aforementioned Phase 3a Remediation Strategy, a program of groundwater treatment works were also completed as part of the wider remediation works, with this report capturing completion of the ISCR works as an interim position, the final validation reporting from which will be captured following on from conclusion of residual ground water monitoring for these works by RoC.
- 6.0.3 A final Validation Report will be completed at the end of the main works Construction Phase, capturing validation of outstanding remediation recommendations from the Phase 3a report, namely capping systems and gas barriers. This final Validation Report will also formally report on completion of the ground water remediation, evidencing the ongoing ground water monitoring.

6.1 Soil Remediation Works

- 6.1.1 PRL completed remedial excavation works on the TCE contaminated material in the southernmost corner of NT02. Verification testing of the materials forming the edges of the TCE remediation excavation demonstrated the effectiveness of the TCE soil source remediation. A total of approximately 670m³ of material was excavated from this area. The material used in the backfilling operation was site won and shown to be geotechnically suitable (Class 1A) and chemical suitability when compared to re-use criteria set out in the Remediation Strategy.
- 6.1.2 Several areas of the site were subject to additional remediation works, both expected i.e. previously identified underground tanks, as well as unexpected remediation works including an additional underground tank, ACM and redundant drainage runs. Any contents remaining in tanks was removed and tested prior to disposal off site. Tanks were then broken out, the sides and bases of the excavations tested to confirm only materials meeting the site-specific acceptability criteria remained, and the concrete crushed for reuse on site. Identified ACM materials were all excavated and disposed of off-site under duty of care. All areas excavated were backfilled and compacted in accordance with the earthworks specification, using materials meeting the chemical acceptability criteria.

**COMPLEX CHALLENGES ...
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- 6.1.3 Excavated floor slabs, redundant foundations and drainage run materials were crushed on site to produce Class 6F2 materials suitable for re-use, following testing to show acceptability for re-use. The movement of both site-won and imported materials from origin, processing, stockpiling, testing and final placement (or off-site for processing or disposal) has been confirmed, demonstrating that the material was actually used for its intended purpose or disposed of under duty of care.
- 6.1.4 Verification chemical laboratory testing of the site-won and imported materials was undertaken to demonstrate the effectiveness and suitability of the materials for re-use throughout the remediation processes.
- 6.1.5 The site reprofiling works required the movement of materials into four main areas. The material used in the permanent works comprised suitable site won materials, with small amounts of site won materials and imported virgin aggregates for temporary works. Site won materials were all tested and shown to be both geotechnically and chemically suitable for use. CBR testing was successfully used to verify that the materials had been compacted to meet the earthworks specification.
- 6.1.6 Air monitoring confirmed that no significant qualitative PID or quantitative TCE vapours were identified at any point during excavation works, confirming that measured concentrations in air did not pose a risk to human health.
- 6.1.7 Asbestos air monitoring around the perimeter of the site, including in close proximity to excavation areas and loading areas indicated that no significant fibres were measured with all results reported to be <0.01 f/ml. Site perimeter dust monitoring showed that significant dust in excess of the guidance criteria of 200mg/m²/day deposition rate was not observed.
- 6.1.8 Vibration monitoring was undertaken within close proximity of sensitive structures during the times works being undertaken nearby. Significant vibration likely to cause damage to any receptor was not observed
- 6.1.9 At the conclusion of the works the final quantity of materials used and its final placement locations will be presented in the MMP. Given these conclusions, there is considered to be no residual risk to controlled waters or future site users from the soils placed within the TCE remediation area and the wider NT02 – NT04 site.

6.2 Groundwater Remediation Works

- 6.2.1 The ISCR remediation strategy implemented at the site has yielded clear and measurable evidence of successful reagent delivery and the establishment of reducing subsurface conditions necessary for effective contaminant degradation. This conclusion is supported by the strong alignment of four independent lines of evidence; physical presence,

geochemical transformation, intermediate contaminant reduction, and biological response, that collectively confirm the effectiveness of the approach.

- 6.2.2 The physical distribution of the reagents, confirmed via visual observation, demonstrated that the ERD amendment and associated compounds were successfully delivered into the target zones. This is further corroborated by the measured injection volumes and spatial coverage across both the primary and supplementary injection phases, which ensured reagent reach within and beyond the original contaminant plume.
- 6.2.3 Post-injection groundwater monitoring revealed a sustained and significant shift in geochemical parameters consistent with the onset of strongly reducing conditions.
- 6.2.4 Microbial profiling indicated a pronounced microbial response in both target and control boreholes. The simultaneous increases in both reductive and aerobic (co-metabolic) degraders highlight a resilient and adaptive microbial ecology, capable of responding to dynamic redox conditions and promoting the breakdown of a wide range of contaminants.
- 6.2.5 The evidence from chemical analysis, alongside field observations of parameters such as DO and ORP indicating more strongly reducing conditions further bolsters evidence of the initial and ongoing breakdown of the contaminants of concern and success of the injection works.
- 6.2.6 The integration of physical distribution data, geochemical shifts, reduction of target contaminants within the plume area and microbial population dynamics provides a comprehensive and converging body of evidence confirming that:
- The ISCR reagents were successfully delivered to the intended subsurface zones;
 - Reducing and anoxic conditions were established and sustained, and;
 - Indigenous microbial communities responded positively, enhancing the site's intrinsic capacity for continued contaminant breakdown.
- 6.2.7 Accordingly, the remediation activities at the site have effectively established the necessary preconditions for ongoing natural attenuation and complete reductive dechlorination of target VOC contaminants. The outcomes validate the design and implementation of the ISCR strategy and demonstrate a high likelihood of continued remediation success.
- 6.2.8 Final validation of ground water remediation will be reported following completion of the ongoing phases of groundwater monitoring currently being carried out by RoC and will include comment on the previously identified contaminants associated with off-site sources.



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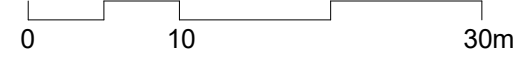
APPENDIX A – SITE DRAWINGS

Note: Remediation specific drawings are included within the PRL report Appendix D and RemedX report within Appendix B to this report.



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Do not scale from this drawing. Verify all dimensions on site. Drawing should be read in conjunction with information from all other design consultants and contractors. All drawings in digital format are for reference only, paper copies are available on request.



- Legend**
- Application boundary
 - Land owned or controlled by the applicant

FIRST DRAFT STAGE 3B

NOTES:

- Stage 3B first draft.
- Coordination ongoing with S.E. MEP consultant, Façade Consultant, Fire Engineer and wider design team.
- These drawings are not to be used as the sole basis of any assessment of value, cost or areas. They are indicative layout drawings appropriate to the current stage of the project.
- Ongoing coordination with Landscape

P12	S3-Suitable for review
P10.01	S0-Initial Status
P09.04	S0-Initial Status
P09.01	S0-Initial Status
P08.01	S0-Initial Status
P07.04	S0-Initial Status
Rev	Details

28/07/23	
02/06/23	
13/04/23	
31/03/23	
16/03/23	
14/03/23	
Date	

MACCREANOR LAVINGTON

Proj. No. RDB
Sheet Name Site Plan

Project Red Bank NT04

Client FEC

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Status S3-Suitable for review

CDE ID RDB-MLA-00-XX-DR-AR-00110000

Scale 1:500

Size A1

Rev P12

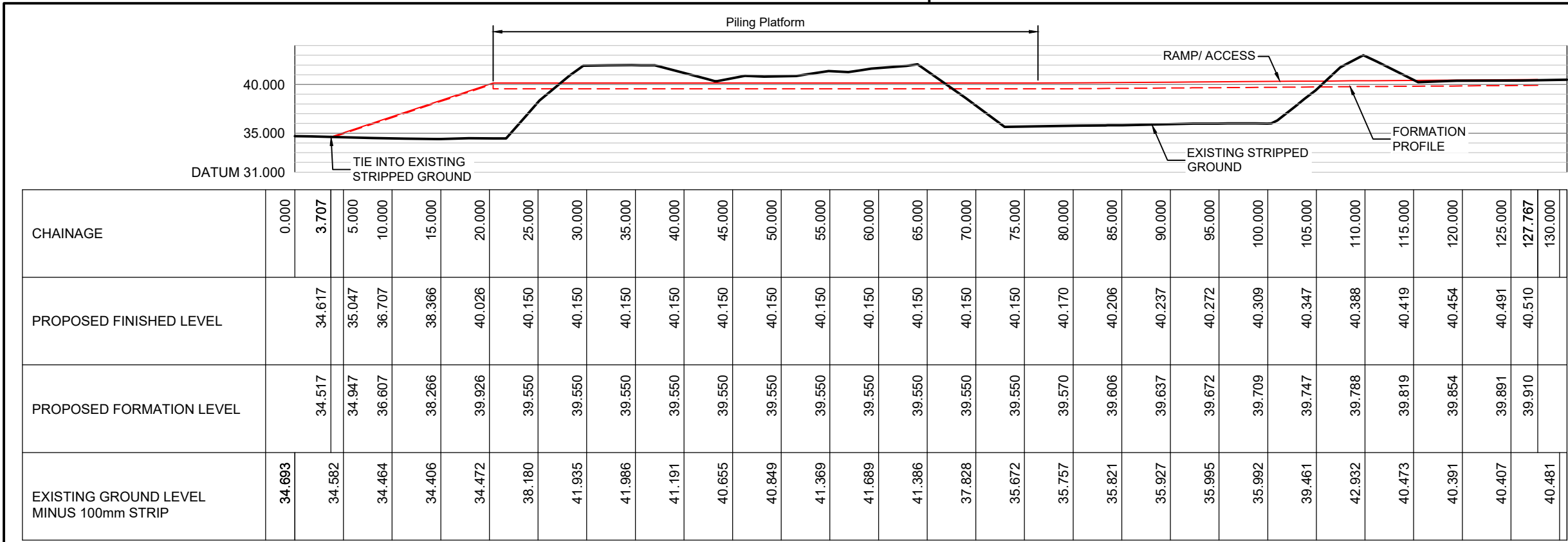


Key to Symbols

- Approximate Site Boundary
- Approximate Plot Boundaries

1) All features or points of note are shown at approximate locations and extents.
 2) Reference should be made to source information provided within this assessment when reviewing this drawing.

	JOB NO	4328	SKETCH NO	4328-ROC-XX-XX-SK-ESK102	DRAWN BY
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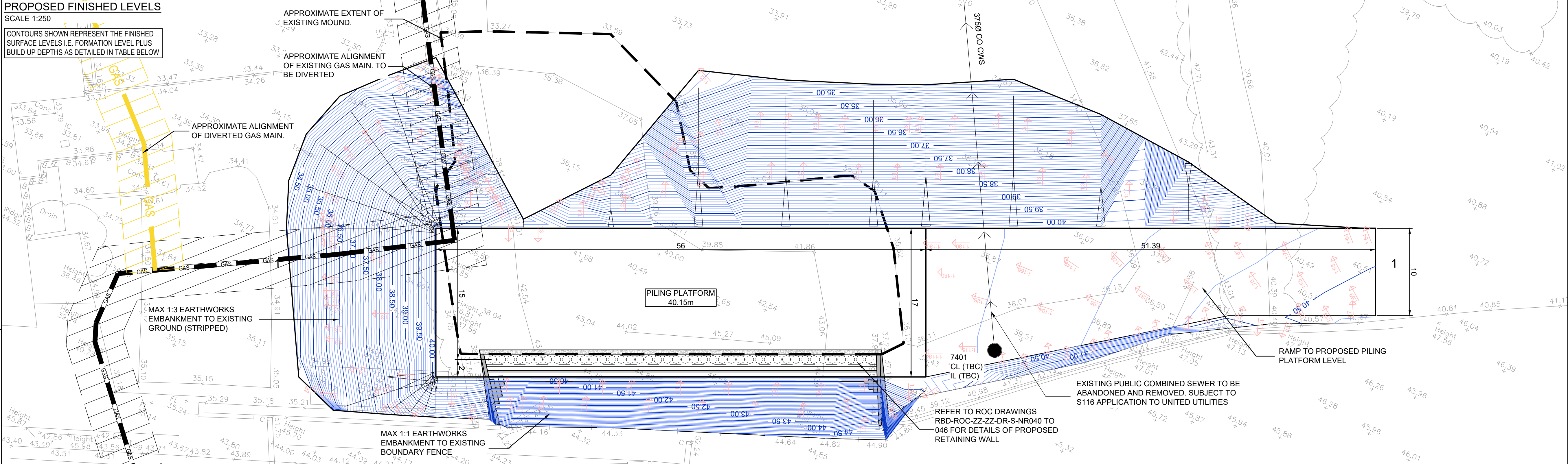


1-1 RAMP/ PLATFORM LONG SECTION

PROPOSED FINISHED LEVELS

SCALE 1:250

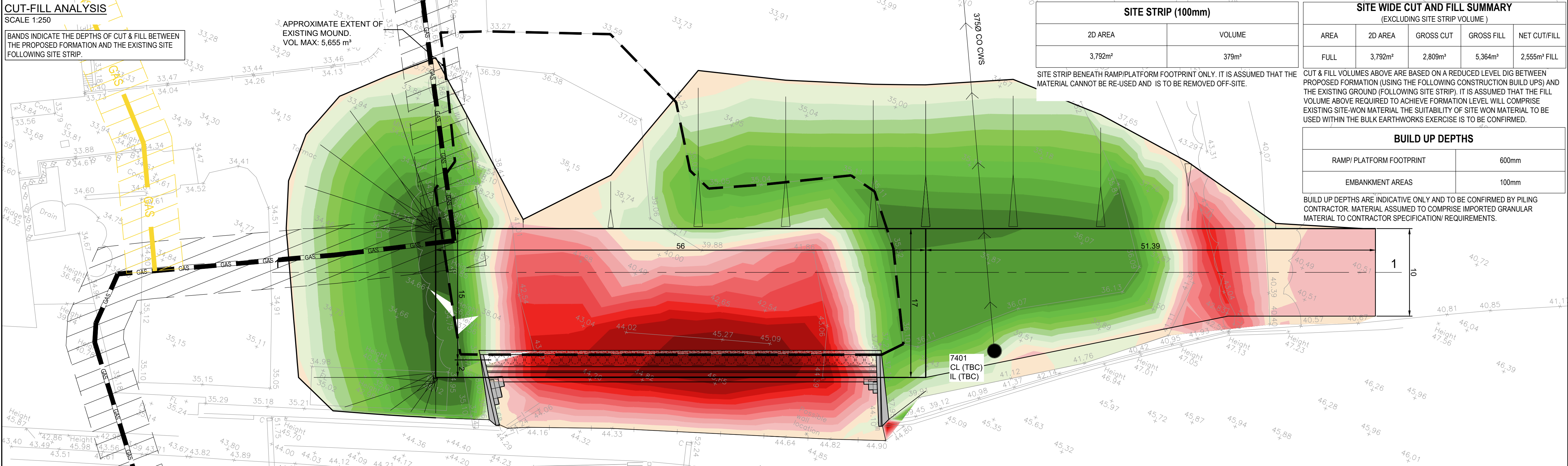
CONTOURS SHOWN REPRESENT THE FINISHED SURFACE LEVELS I.E. FORMATION LEVEL PLUS BUILD UP DEPTHS AS DETAILED IN TABLE BELOW



CUT-FILL ANALYSIS

SCALE 1:250

BANDS INDICATE THE DEPTHS OF CUT & FILL BETWEEN THE PROPOSED FORMATION AND THE EXISTING SITE FOLLOWING SITE STRIP.



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CUT / FILL BANDS

CUT	FILL
0.00 - 0.50m	0.00 - 0.50m
0.50 - 1.00m	0.50 - 1.00m
1.00 - 1.50m	1.00 - 1.50m
1.50 - 2.00m	1.50 - 2.00m
2.00 - 2.50m	2.00 - 2.50m
2.50 - 3.00m	2.50 - 3.00m
3.00 - 3.50m	3.00 - 3.50m
3.50 - 4.00m	3.50 - 4.00m
4.00 - 5.00m	4.00 - 5.00m
5.00 - 6.00m	5.00 - 6.00m

BANDS INDICATE THE DEPTHS OF CUT & FILL BETWEEN THE PROPOSED FORMATION AND THE EXISTING SITE FOLLOWING SITE STRIP.

THE SITE STRIP MATERIAL IS NOT CONSIDERED SUITABLE FOR RE-USE WITHIN THE BULK EARTHWORKS AND IS TO BE REMOVED FROM SITE.

THE SUITABILITY OF SITE WON MATERIAL TO BE USED WITHIN THE BULK EARTHWORKS EXERCISE IS TO BE CONFIRMED.

P01	19.05.23	FIRST ISSUE	ARJ	MN
REV	DATE	DETAILS	DRN	CHK

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PRELIMINARY

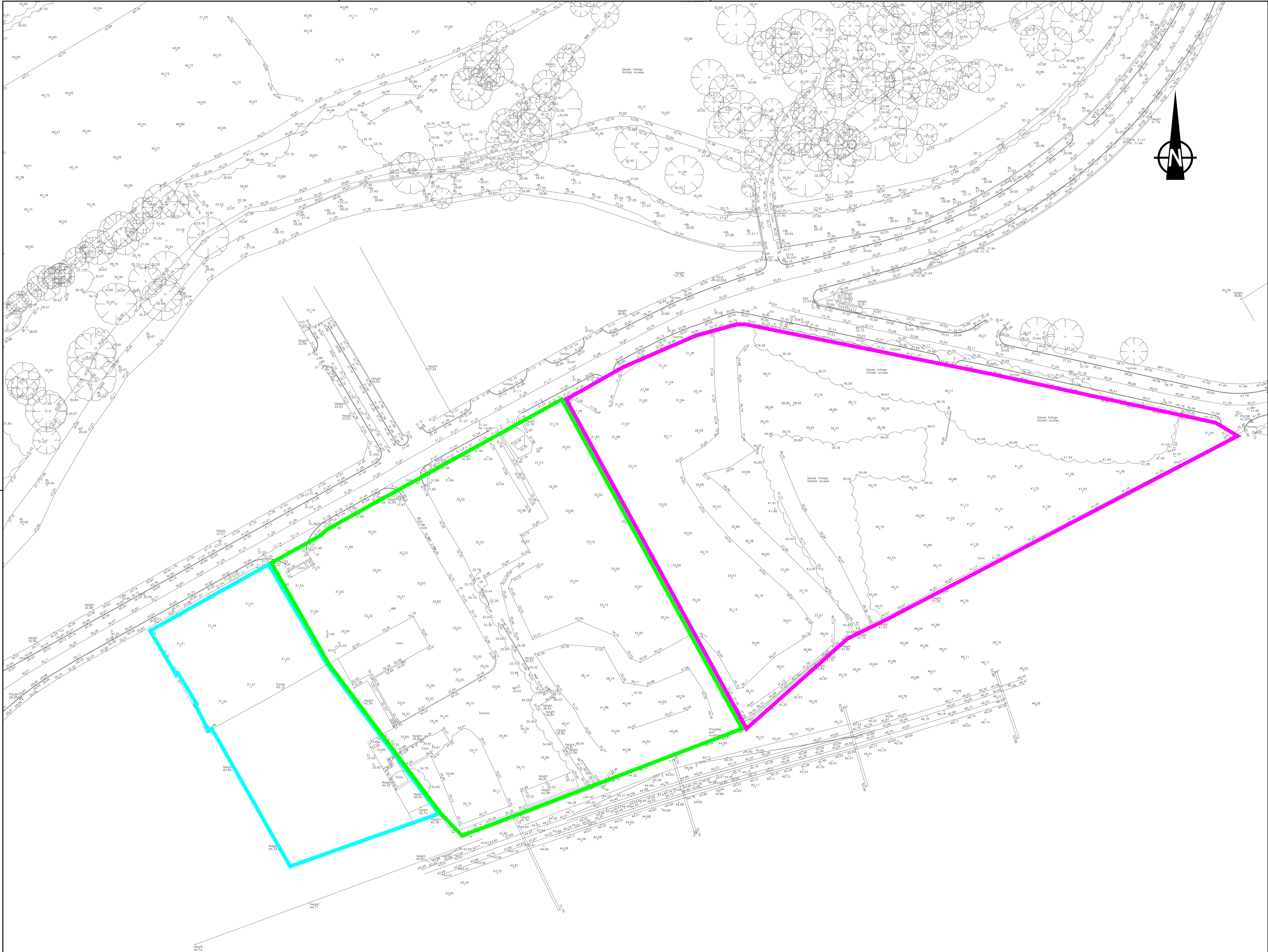
RIBA STAGE
STAGE 3

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NORTHERN GATEWAY**

DRAWING TITLE
**NETWORK RAIL VIADUCT
PILING PLATFORM OPTION 2
LEVEL & CUT-FILL ANALYSIS**
DRAWING No.
RDB/ROC/ZZ/XX/DR/C/0611
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NOTES

SITE FEATURES

RIVER IRK

APPROX PLOT NTO2 BOUNDARY

APPROX PLOT NTO3 BOUNDARY

APPROX PLOT NTO4 BOUNDARY

DRAWING NOTES

- TO BE READ IN CONJUNCTION WITH ROC CONSULTING PHASE 1 DESKTOP STUDY REF: 4328-ROC-ZZ-XX-RP-ES-PH10TS AND PHASE 2 SITE INVESTIGATION REPORT REF: 4328-ROC-ZZ-XX-RP-ES-P2-101.
- EXPLORATORY HOLE LOCATIONS SHOWN AT APPROXIMATE EXTENTS
- EXISTING SITE LEVEL INFORMATION TAKEN FROM PARAGON SURVEYS TOPOGRAPHICAL SURVEY REF: PS-2158-TS-00
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FAR EAST CONSORTIUM INTERNATIONAL LTD				
PROJECT TITLE				
PLOTS NTO2, NTO3 & NTO4 NORTHERN GATEWAY				
DRAWING TITLE				
SITE LOCATION PLAN				
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GROUNDWATER MONITORING WELLS

BH I.D.	Easting	Northing	Response zone from (mOD)	Response zone to (mOD)	Lithology at response zone
RBH505 P1	384588.94	399458.10	26.91	19.61	CF
RBH505 P2	384588.94	399458.10	18.41	16.91	MM
RBH504	384644.07	399415.75	29.54	22.09	CF
RBH503	384612.61	399439.30	26.65	21.65	CF
RBH502 P1	384599.85	399394.37	28.09	15.29	CF
RBH502 P2	384599.85	399394.37	14.29	13.29	MM
RBH501	384638.99	399388.87	29.09	18.59	CF
RBH403	384717.73	399423.13	31.98	26.53	RD
RBH401	384697.40	399411.32	32.02	26.57	RD
RBH301	384576.68	399444.27	27.41	21.41	CF
RBH302	384608.42	399383.57	28.59	21.59	CF
RBH303	384640.07	399422.36	28.01	23.01	CF
RBH304	384680.66	399402.07	29.66	25.66	Terrace Deposits
RBH305	384636.01	399469.21	27.15	23.15	CF
RBH306	384692.00	399446.81	24.73	22.73	MM
RBH307	384749.15	399493.27	30.84	19.84	MM
RBH201	384597.08	399455.18	10.40	6.40	MM
RBH202	384638.05	399446.26	11.76	7.76	MM
RBH203	384619.36	399403.83	23.59	18.59	CF
RBH205	384721.68	399517.64	11.38	6.38	MM
RBH206	384701.70	399491.17	11.00	7.00	MM
RBH207	384797.90	399510.73	16.17	11.17	MM
RBH208	384757.48	399461.38	23.00	18.00	MM
RBH209	384796.49	399492.29	28.46	23.46	MM
RBH210	384845.14	399489.02	21.38	16.38	MM
LKBH01	384593.48	399443.85	26.41	16.41	CF & MM
LKBH03	384634.56	399391.59	30.59	13.59	CF & MM

ALL GROUNDWATER MONITORING WELLS ARE TO BE RETAINED UNTIL THE GROUNDWATER REMEDIATION DESIGN IS FINALISED BY THE REMEDIATION CONTRACTOR

RETAINED MONITORING WELLS ARE TO HAVE RAISED COVERS FITTED TO PROVIDE ADDITIONAL PROTECTION DURING DEMOLITION WORKS.

DECOMMISSIONING OF WELLS IS TO BE UNDERTAKEN IN ACCORDANCE WITH ENVIRONMENT AGENCY SCIENCE REPORT SC020093 "GUIDANCE ON THE DESIGN AND INSTALLATION OF GROUNDWATER QUALITY MONITORING POINTS".

[illegible]



Example 1 : Fenced in well enclosure

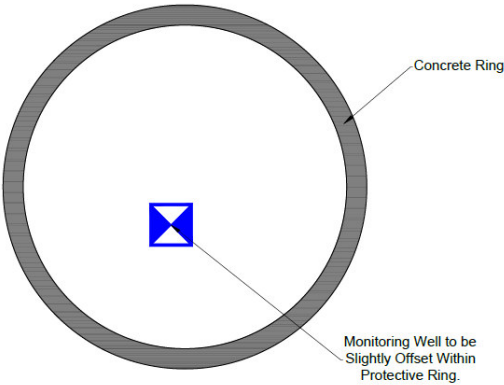


Example 2 : Marker post well identification

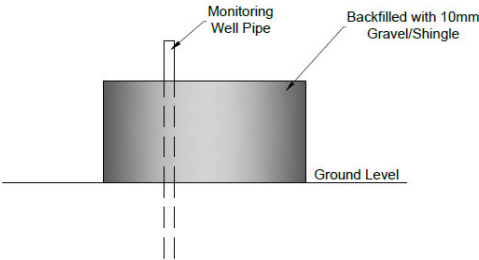


Example 3 : Concrete manhole rig enclosure

Plan View:



Section:



Example 3 : Concrete manhole rig enclosure design example

Note : Example 3 using concrete manhole chamber is likely to be the most effective on this site

JOB NO	11834	SKETCH NO	ESK100	DRAWN BY : 10 01 2024 AS
PROJECT TITLE	Plot NT02,03 & 04	SKETCH TITLE	Examples of Groundwater Monitoring Well Protection Measure	

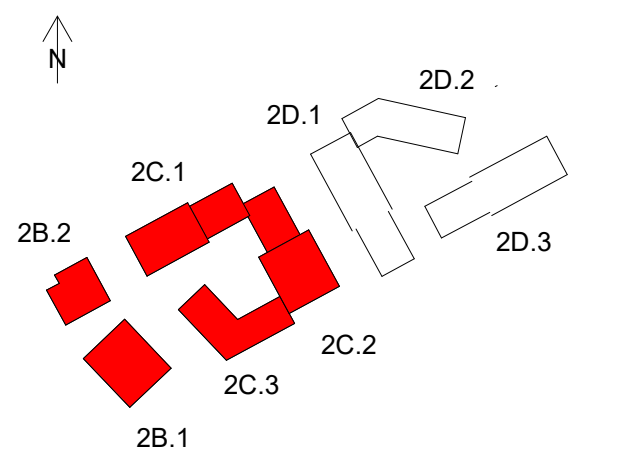
WORK IN PROGRESS

The information on this drawing is an optimised solution based upon external information as of . It may be subject to change through external influences such as client brief and scope changes, services BWIC, sub-contractor requirements etc. Therefore a suitable contingent approach must be applied where the information is used for strategic decision making, procurement or construction in advance of final design requirements from other designers and sub-contractors.

NOTES

- 1.RoC drawings are to be read in conjunction with relevant documents, specifications, architectural and services drawings, including approved builders work drawings. The contractor should notify CA of any discrepancies between the structural drawings and specifications or other drawings.
- 2.Do not scale from the drawings or the computer digital date. Only figured dimensions are to be used.
3. It is the responsibility of the lead consultant (architect) to check the setting out provided on these drawings and the co-ordination of the frame with the envelope & other elements of the building.
- 4.All dimensions are in millimetres unless noted otherwise.
- 5.All levels are in metres above Ordnance Datum unless noted otherwise.
- 6.This drawing is to be read in conjunction with General Notes Drawing, NT-01

VOLUME / BLOCK PLAN



REV	DATE	DETAILS	DRN	CHK
-----	------	---------	-----	-----

DRAWING STATUS PRELIMINARY

RIBA STAGE STAGE 3

RoC

CONSULTING

Commercial Wharf

6 Commercial Street

Manchester M15 4PZ

T 0161 214 5390

W rocconsulting.com

DRAWN	SJB	DATE	05.2023	SCALES	1 : 200
CHECKED	DC	DATE	05.2023	THE ABOVE SCALES APPLY WHEN PLOTTED AT A1 SIZE -DO NOT SCALE-	
APPRVD	MJN	DATE	05.2023	EMAIL FOR DRAWINGS: info@rocconsulting.com	

CLIENT

FEC

PROJECT TITLE

RED BANK DEVELOPMENT

DRAWING TITLE

BLOCK NT02 DEMOLITION PLAN

DRAWING No.	REV
-------------	-----

RDB-ROC-NT02-XX-DR-S-DP00

1 DEMOLITION PLAN 1 : 200

IN ADDITION TO HIGHLIGHTED STRUCTURES, DEMOLITION TO INCLUDE REMOVAL OF ALL HARD FEATURES INCLUDING BOUNDARY FENCES (UNO) AND OTHER HARDSTANDING.

BOUNDARY AND RETAINING WALL STRUCTURE

AUXILIARY BUILDINGS

CONCRETE LOADING PLATFORM

SOUTHERN WAREHOUSE

EXISTING BOUNDARY RETAINING WALL TO REAMAIN

NORTHERN WAREHOUSE

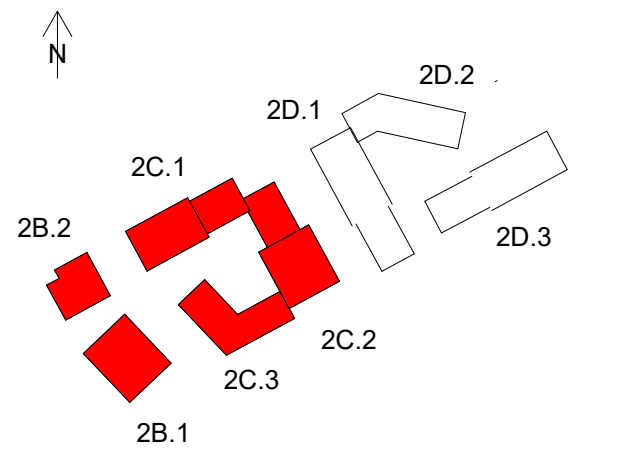
WORK IN PROGRESS

The information on this drawing is an optimised solution based upon external information as of . It may be subject to change through external influences such as client brief and scope changes, services BWIC, sub-contractor requirements etc. Therefore a suitable contingent approach must be applied where the information is used for strategic decision making, procurement or construction in advance of final design requirements from other designers and sub-contractors.

NOTES

- 1.RoC drawings are to be read in conjunction with relevant documents, specifications, architectural and services drawings, including approved builders work drawings. The contractor should notify CA of any discrepancies between the structural drawings and specifications or other drawings.
- 2.Do not scale from the drawings or the computer digital date. Only figured dimensions are to be used.
3. It is the responsibility of the lead consultant (architect) to check the setting out provided on these drawings and the co-ordination of the frame with the envelope & other elements of the building.
- 4.All dimensions are in millimetres unless noted otherwise.
- 5.All levels are in metres above Ordnance Datum unless noted otherwise.
- 6.This drawing is to be read in conjunction with General Notes Drawing. NT-01

VOLUME / BLOCK PLAN



REV	DATE	DETAILS	DRN	CHK
-----	------	---------	-----	-----

DRAWING STATUS
PRELIMINARY

RIBA STAGE
STAGE 3

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DRAWN SJB	DATE	SCALES 1 : 100
CHECKED DC	DATE	THE ABOVE SCALES APPLY WHEN PLOTTED AT A1 SIZE -DO NOT SCALE-
APPRVD MJN	DATE	EMAIL FOR DRAWINGS: info@roconsulting.com

CLIENT
FEC

PROJECT TITLE
RED BANK DEVELOPMENT

DRAWING TITLE
BLOCK NT02
DEMOLITION SECTION

DRAWING No. RDB-ROC-NT02-XX-DR-S-DP01	REV
--	-----

NETWORK RAIL VIADUCT

STEEL FRAMED BUILDING TAKEN DOWN TO SLAB LEVEL
UNTIL READY TO COMMENCE GROUND REMEDIATION

SOUTHERN WAREHOUSE

NORTHERN WAREHOUSE

MEZZANINE AND OFFICE

BOUNDARY
RETAINING WALL
TO REMAIN

DEMOLITION TO INCLUDE
LOCAL EXPOSURE WALL
FOUNDATION TO CONFIRM
FORM, LEVEL AND SIZE.

SLABS AND FOUNDATIONS TO REMAIN IN PLACE UNTIL READY TO
COMMENCE GROUND REMEDIATION, CONTAMINATED SOILS UNDER

1 DEMOLITION SECTION
1 : 100



COMPLEX CHALLENGES ...
MADE SIMPLE

APPENDIX B – PROVECTUS AND REMEDIATION VERIFICATION REPORTS

Note: See full list of data included in the Provectus report in Appendices in Page 34 of the report.

Interim TCE validation report

NT02 Victoria

Issued August 2024

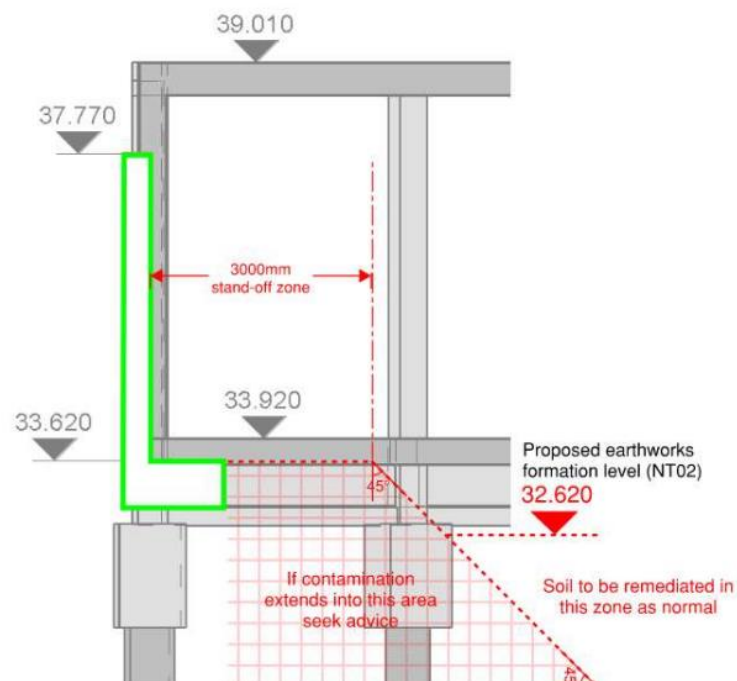
Introduction

This report covers the excavation and validation of a soil-phase chlorinated solvent hotspot encountered during site investigation works at the Dantzic St site, Manchester. The investigation identified an area of chlorinated solvents within soil materials in the southernmost corner of NT02, believed linked to historical uses of the site (see 4328-ROC-ZZ-XX-RP-ES-P2-101 R3). This area was covered by a concrete floor slab and bounded on two sides by a retaining wall to the southeast with a car garage; the neighbouring building site to the immediate southwest; and the remainder of NT02 to the northeast and northwest. Any groundwater impact will be dealt with by others.

Subsequent DQRA works reported L2 soil RTVs for TCE and CCl_4 at 0.224mg/kg and 0.116mg/kg: these are included within the remediation strategy 11834 R02 (02). Exceedances of these RTVs were observed in the following locations:

- WS302 at 1.5m bogl (0.602mg/kg TCE)
- WS304 at 0.5m bogl (0.23mg/kg TCE)
- WS305 at 1.0m bogl (0.427mg/kg TCE)
- WS308 at 0.6m and 1.0m bogl (max 1.13mg/kg TCE)

As described above, these exceedances were encountered at the southern end of NT02, with WS308 being immediately adjacent to the garage retaining wall. The proximity of this garage retaining wall to the proposed excavation works necessitated a temporary works design, effectively giving a 3m standoff from the wall plus an allowance for a batter from existing floor slab level to the formation level (effectively no excavation works ~5m from the wall).



(as taken from p2 4328-ROC-2B-XX-TN-S-0001 NT02)



Excavation works

The first round of excavation works was undertaken in mid-June 2024 and involved the saw cutting of the existing concrete slab at ~1.2m from the site perimeter, followed by the breaking and removal of the concrete floor slab. At this time, this slab removal was restricted to the southernmost floor slab 'terrace' of NT02, with the remaining areas awaiting demolition.

Excavation works were undertaken under the supervision of a PRL engineer and initially involved the removal of all soil materials down to the formation (~32.6m), with this material being stockpiled on the remaining extant 'lower terraces' of the NT02 floor slabs. Since there was no obvious PID, olfactory or visual evidence of chlorinated solvent impact, further excavations of the visually-undisturbed soil materials were based upon the soil results of the site investigation i.e. those concentrations observed in WS302, WS304 and WS305 (with WS308 remaining within the 5m standoff from the garage retaining wall).

The groundwater monitoring boreholes RBH203, RBH501 and RBH502 were to remain *in situ* for future monitoring: the materials around these boreholes were excavated as far as practicable. An unknown borehole was also encountered just inside the standoff in the southernmost corner of NT02 during the excavation: it was assumed that this borehole was RBH302. This was also retained for future decommissioning (by others).

The vertical extent of these excavations extended to an average of ~32m, although the exact elevation was determined by local conditions e.g. areas of obvious granular material were also excavated. Based upon the volumes of the stockpiles, a total of ~360m³ of material was excavated from this area. This was tested for waste classification purposes (see samples "ES1 to ES7" and "ES8", see reports 24-025303 and 24-025309) and covered with visqueen sheeting.

These materials were removed from site on Wednesday 26th June (39x loads) and Thursday 27th June (10x loads) to a licensed landfill facility as non-hazardous soil material.

Validation samples were collected from the sides and the base of the excavation at the discretion of the engineer, with side samples collected at the same depth as the materials encountered during the site investigation works where possible (see samples "NT02/A to NT02/M", see report 24-025376). Further samples were collected at formation level from the western end of the excavation to verify absence from this area (~32.6m, see samples "NT02 TCE 1 and 2" as part of report 24-029493).

The receipt of the analyses revealed that samples NT02/F, NT02/G and NT02/L returned concentrations of TCE in exceedance of the RTV (310mg/kg, 330mg/kg and 340mg/kg). These samples were in the northernmost edge of the excavation, and this necessitated further horizontal and vertical excavation works in this area.

Note that although the site investigation works identified the presence of TCE at 0.6m and 1.0m bogl in WS308, sample NT02/C was collected from 32.2m in the excavation at the closest point to WS308. This sample did not reveal concentrations of TCE exceeding the RTVs, suggesting that the impact observed in WS308 may be localised to this immediate area as opposed part of a larger issue.

These materials identified in the region of NT02/F, NT02/G and NT02/L were excavated and loaded straight onto wagons for disposal at the same landfill facility, typically to a depth of 31.4m but extending to 31m where drainage runs were encountered, see below.

A total of 33x loads were removed as part of this phase (~310m³, Tuesday 9th July). A redundant drain was also noted immediately below this area: this was also chased and stockpiled on/under visqueen. A total of 3x loads were removed as part of drainage chasing on Tuesday 11th July: as a precaution, this material was removed as hazardous waste to a licensed hazardous waste treatment facility.



Further validation samples were collected from the base and sides of the excavation (see samples “NT02 TCE 3 to 7”, see report 24-030450). These confirmed remaining soils did not exceed the RTVs. As a precaution, additional samples were collected from trial pits excavated past the northern elevation of the main TCE hotspot excavation (see samples “TCE TP 1 to 3”, as part of reports 24-031424 and 24-032291). These confirmed TCE impact did not extend past the extents of the excavation.

Copies of the stockpile and validation analytical results and drawings are included within the appendices.

Air monitoring works

Due to the potential adverse health effects from chlorinated solvent vapours upon site workers and members of the public/neighbours, several types of air monitoring were undertaken during the excavation works. These included the use of PIDs to measure real-time total photo ionisable vapours (effectively any VOC with a C=O or C=C bond), as well as hand pumps with TCE-specific “Dräger” absorption tubes for real-time TCE vapour concentrations. No significant qualitative PID or quantitative TCE vapours were observed at any point during either round of excavation works.

Additionally, air was sampled during both phases of excavation works using “Tenax” carbon absorption tubes for *ex situ* lab analysis. A pump was placed on top of RBH203 and this allowed a comparison of the actual airborne VOC concentrations with the PID and Dräger measurements (see reports 11484-1 for the first round and 11732-1 for the second round). These Tenax tubes were also compared to a background measurement made in this location prior to the start of works (early May, see report 11105-2).

The results of the background analysis revealed the predominant peaks present within the atmosphere at this location were long-chain and branched aliphatics and simple aromatics, including some PAHs. The predominant species was benzoic acid. Whilst there could be natural and anthropogenic local sources for the benzoic acid, it is likely the majority of the aliphatics and aromatics originated from the five chambered tank nearby (known to contain degraded fuel and oil-related hydrocarbons: an odour was obvious in this area).

Analysis of the samples collected during the first round of excavation again revealed the presence of benzoic acid and aliphatics and aromatics as well as TCE vapours. Concentrations of TCE did not exceed 1400ng on the tube, converted to a concentration of 6.24mg/kg. Note that the 8hr TWA for TCE is 550mg/kg. These concentrations did not pose a risk to human health and a release of vapours at these concentrations is to be expected given the volume of soil excavated.

The second round of excavation works did not reveal the presence of any TCE vapours although as previous, benzoic acid, and aliphatics and aromatics including naphthalene were also observed. These concentrations reflect the fact that the majority of the TCE impacted materials were excavated as part of the first round of excavation works. As before, these concentrations did not pose a risk to human health.

All analysis is included within the appendices.



Backfill

Upon completion of the excavation and the receipt of the validation samples, the area was backfilled and compacted to formation level with a suitable material as part of filling operations undertaken across the wider NT02 site.

The material used in this backfilling operation was a Class 1A ash fill material that originated from an area in centre of NT03. This material was excavated and passed through a 60mm screen to remove oversized materials. Subsequent geotechnical classification of this material designated it as Class 1A (see PSD determination C1087613 / 299203.3.1.1). This material was placed in $\leq 275\text{mm}$ layers and compacted using a 13t vibrator roller with four passes (as per Method 2, Table 6/4 S600).

As part of the upfilling of the wider area, several samples of this post-screened ash fill material were submitted for laboratory analyses (see samples “ash fill” and “ash fill 1 to 5” as part of reports 24-024257 and 24-031413). These analyses confirmed the material’s chemical suitability when compared to the site-wide reuse criteria described within the remediation strategy 11834 R02 (02).

Approximately 275m^3 of the ash fill material was used during the backfilling of this TCE portion of NT02, with an average fill depth of $\sim 600\text{mm}$ (although this was varied between 200mm and 1m in places).

All analysis is included within the appendices.



Appendices

- First round of excavation validation analysis
 - 24-025376
 - 24-029493
- Second round of excavation validation analysis
 - 24-030450
- Additional validation trial pits outside of hotspot
 - 24-031424
 - 24-032291
- Stockpile analysis
 - 24-025303
 - 24-025309
- Backfill analysis
 - 24-024257
 - 24-031413
 - PSD determination C1087613 / 299203.3.1.1
- Tenax analysis
 - Background: 11105-2
 - First round: 11481-1
 - Second round: 11732-1
- Stockpile volumes and drawings
 - Stockpile Volumes - 21.06.2024
- First excavation extents
 - TCE 110624- Layout1
 - TCE val samples 110624-Layout1
- Second excavation extents
 - TCE 110724-Layout1
 - TCE 110724 val sample-Layout1
- Photos

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Analytical Report Number : 24-025376

Project / Site name:	Victoria North	Samples received on:	14/06/2024
Your job number:	101221	Samples instructed on/ Analysis started on:	14/06/2024
Your order number:	11181	Analysis completed by:	20/06/2024
Report Issue Number:	1	Report issued on:	21/06/2024
Samples Analysed:	13 soil samples		

Signed: 

Dominika Liana
Junior Reporting Specialist
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 24-025376
Project / Site name: Victoria North
Your Order No: 11181

Lab Sample Number	229327	229328	229329	229330	229331
Sample Reference	NT02/A	NT02/B	NT02/C	NT02/D	NT02/E
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	14/06/2024	14/06/2024	14/06/2024	14/06/2024	14/06/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	16	13	14	12	8.7
Total mass of sample received	kg	0.1	NONE	0.8	0.8	0.8	0.8	0.8

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	1.5	< 0.05	< 0.05	< 0.05	0.52
Acenaphthylene	mg/kg	0.05	MCERTS	0.15	< 0.05	< 0.05	< 0.05	0.1
Acenaphthene	mg/kg	0.05	MCERTS	7.2	< 0.05	< 0.05	0.06	1.4
Fluorene	mg/kg	0.05	MCERTS	4.3	< 0.05	< 0.05	< 0.05	0.93
Phenanthrene	mg/kg	0.05	MCERTS	37	< 0.05	0.17	0.61	7.7
Anthracene	mg/kg	0.05	MCERTS	8.3	< 0.05	< 0.05	0.16	2.4
Fluoranthene	mg/kg	0.05	MCERTS	46	< 0.05	0.34	1.6	12
Pyrene	mg/kg	0.05	MCERTS	40	< 0.05	0.34	1.4	11
Benzo(a)anthracene	mg/kg	0.05	MCERTS	19	< 0.05	0.2	0.78	5
Chrysene	mg/kg	0.05	MCERTS	23	< 0.05	0.27	0.88	4.8
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	24	< 0.05	0.27	1.1	6.1
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	7.3	< 0.05	0.12	0.34	2.3
Benzo(a)pyrene	mg/kg	0.05	MCERTS	19	< 0.05	0.16	0.84	5.3
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	8.7	< 0.05	0.14	0.45	2.7
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	3.2	< 0.05	< 0.05	0.14	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	9.8	< 0.05	0.17	0.53	3.1

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	260	< 0.80	2.19	8.83	65.4
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	22	6.6	21	18	11
Boron (water soluble)	mg/kg	0.2	MCERTS	0.7	0.5	0.5	0.3	0.9
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	0.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	26	22	21	19	22
Copper (aqua regia extractable)	mg/kg	1	MCERTS	79	12	22	52	45
Lead (aqua regia extractable)	mg/kg	1	MCERTS	220	15	73	330	140
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	28	18	13	18	23
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	170	51	75	280	230

Analytical Report Number: 24-025376
Project / Site name: Victoria North
Your Order No: 11181

Lab Sample Number				229327	229328	229329	229330	229331
Sample Reference				NT02/A	NT02/B	NT02/C	NT02/D	NT02/E
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				14/06/2024	14/06/2024	14/06/2024	14/06/2024	14/06/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	4.1	< 2.0	< 2.0	< 2.0	4.1
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	17
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	20	< 8.0	< 8.0	16	160
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	24	< 10	< 10	16	180

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	1.7	< 1.0	< 1.0	< 1.0	1.1
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	26	< 2.0	< 2.0	< 2.0	8.5
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	110	< 10	< 10	< 10	53
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	150	< 10	< 10	14	310
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	280	< 10	< 10	14	380

VOCs

Chloromethane	µg/kg	5	ISO 17025	< 5.0 ^{##}	< 5.0 ^{##}	< 5.0 ^{##}	< 5.0 ^{##}	< 5.0 ^{##}
Chloroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromomethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl Chloride	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichlorofluoromethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trans 1,2-dichloroethylene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	NONE	< 5.0	< 5.0	19	< 5.0	< 5.0
1,2-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethene	µg/kg	5	ISO 17025	47	87	200	32	71
Dibromomethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromoethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

Analytical Report Number: 24-025376
Project / Site name: Victoria North
Your Order No: 11181

Lab Sample Number				229327	229328	229329	229330	229331
Sample Reference				NT02/A	NT02/B	NT02/C	NT02/D	NT02/E
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				14/06/2024	14/06/2024	14/06/2024	14/06/2024	14/06/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Styrene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromoform	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromobenzene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Propylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
tert-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
sec-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p-Isopropyltoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Butylbenzene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Hexachlorobutadiene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 24-025376
Project / Site name: Victoria North
Your Order No: 11181

Lab Sample Number				229332	229333	229334	229335	229336
Sample Reference				NT02/F	NT02/G	NT02/H	NT02/I	NT02/J
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				14/06/2024	14/06/2024	14/06/2024	14/06/2024	14/06/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	14	14	11	14	11
Total mass of sample received	kg	0.1	NONE	0.8	0.8	0.8	0.8	0.8

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.43	0.35	0.76	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	0.07	0.07	0.06	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.87	1.4	1.2	< 0.05	0.05
Fluorene	mg/kg	0.05	MCERTS	0.85	0.91	0.73	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	3.8	13	7.1	0.16	0.55
Anthracene	mg/kg	0.05	MCERTS	1.3	3.3	1.7	< 0.05	0.11
Fluoranthene	mg/kg	0.05	MCERTS	4.8	20	10	0.2	0.65
Pyrene	mg/kg	0.05	MCERTS	4.3	17	9	0.24	0.58
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.6	8.9	3.9	< 0.05	0.29
Chrysene	mg/kg	0.05	MCERTS	1.6	9.4	3.8	0.06	0.35
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	1.8	11	4.7	< 0.05	0.37
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.65	3.5	1.3	< 0.05	0.12
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.5	9.4	3.6	< 0.05	0.31
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.74	4.5	1.9	< 0.05	0.16
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.24	1.4	0.53	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.84	5	2.1	< 0.05	0.19

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	25.4	110	52.6	< 0.80	3.74
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	12	20	16	5.6	7.7
Boron (water soluble)	mg/kg	0.2	MCERTS	0.4	0.6	0.6	1.5	0.5
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	1.1	1.3	< 0.2	< 0.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	23	22	22	27	21
Copper (aqua regia extractable)	mg/kg	1	MCERTS	29	88	45	11	17
Lead (aqua regia extractable)	mg/kg	1	MCERTS	100	230	110	15	36
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	20	25	21	20	19
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	110	330	270	63	65



Analytical Report Number: 24-025376
Project / Site name: Victoria North
Your Order No: 11181

Lab Sample Number				229332	229333	229334	229335	229336
Sample Reference				NT02/F	NT02/G	NT02/H	NT02/I	NT02/J
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				14/06/2024	14/06/2024	14/06/2024	14/06/2024	14/06/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	8.9	3.2	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	36	23	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	130	65	30	< 8.0	< 8.0
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	180	91	30	< 10	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	12	8.1	4.5	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	57	62	37	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	99	100	76	< 10	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	170	170	120	< 10	< 10

VOCs

Chloromethane	µg/kg	5	ISO 17025	< 5.0 ##	< 5.0 ##	< 5.0 ##	< 5.0 ##	< 5.0 ##
Chloroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromomethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl Chloride	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichlorofluoromethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trans 1,2-dichloroethylene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	NONE	17	30	18	13	< 5.0
1,2-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethene	µg/kg	5	ISO 17025	310	330	150	89	49
Dibromomethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromoethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

Analytical Report Number: 24-025376
Project / Site name: Victoria North
Your Order No: 11181

Lab Sample Number				229332	229333	229334	229335	229336
Sample Reference				NT02/F	NT02/G	NT02/H	NT02/I	NT02/J
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				14/06/2024	14/06/2024	14/06/2024	14/06/2024	14/06/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Styrene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromoform	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromobenzene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Propylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
tert-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
sec-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p-Isopropyltoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Butylbenzene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Hexachlorobutadiene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



Analytical Report Number: 24-025376
Project / Site name: Victoria North
Your Order No: 11181

Lab Sample Number				229337	229338	229339
Sample Reference				NT02/K	NT02/L	NT02/M
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				14/06/2024	14/06/2024	14/06/2024
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	13	12
Total mass of sample received	kg	0.1	NONE	0.7	0.8	0.8

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.06	0.11	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	0.07	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.1	0.3	< 0.05
Fluorene	mg/kg	0.05	MCERTS	0.14	0.17	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	1.3	1.6	0.16
Anthracene	mg/kg	0.05	MCERTS	0.37	0.35	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	1.5	1.7	0.23
Pyrene	mg/kg	0.05	MCERTS	1.6	1.5	0.21
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.81	0.69	0.09
Chrysene	mg/kg	0.05	MCERTS	0.87	0.91	0.13
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.86	0.86	0.15
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.3	0.37	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.85	0.74	0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.36	0.36	0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.09	0.07	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.45	0.42	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	9.68	10.2	1.12
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	11	9.7	8.2
Boron (water soluble)	mg/kg	0.2	MCERTS	0.9	0.4	0.9
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	23	23	25
Copper (aqua regia extractable)	mg/kg	1	MCERTS	41	25	13
Lead (aqua regia extractable)	mg/kg	1	MCERTS	94	280	17
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	2	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	26	20	17
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	74	95	53

Analytical Report Number: 24-025376
Project / Site name: Victoria North
Your Order No: 11181

Lab Sample Number				229337	229338	229339
Sample Reference				NT02/K	NT02/L	NT02/M
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				14/06/2024	14/06/2024	14/06/2024
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	< 2.0	4.6	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	13	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	33	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	51	< 10

VOCs

Chloromethane	µg/kg	5	ISO 17025	< 5.0 ##	< 5.0 ##	< 5.0 ##
Chloroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0
Bromomethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
Vinyl Chloride	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0
Trichlorofluoromethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0
Trans 1,2-dichloroethylene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0
Chloroform	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
1,2-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
1,1-Dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	NONE	< 5.0	27	17
1,2-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
Trichloroethene	µg/kg	5	ISO 17025	77	340	83
Dibromomethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
Bromodichloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
1,3-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
Dibromochloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
Tetrachloroethene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0
1,2-Dibromoethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
Chlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0



Analytical Report Number: 24-025376
Project / Site name: Victoria North
Your Order No: 11181

Lab Sample Number				229337	229338	229339
Sample Reference				NT02/K	NT02/L	NT02/M
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				14/06/2024	14/06/2024	14/06/2024
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0
Styrene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
Bromoform	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0
Bromobenzene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0
n-Propylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
2-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
4-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
tert-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
sec-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
p-Isopropyltoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
Butylbenzene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
Hexachlorobutadiene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



Analytical Report Number : 24-025376
Project / Site name: Victoria North

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
229327	NT02/A	None Supplied	None Supplied	Brown clay and sand with gravel
229328	NT02/B	None Supplied	None Supplied	Brown clay and sand
229329	NT02/C	None Supplied	None Supplied	Brown sand with gravel
229330	NT02/D	None Supplied	None Supplied	Brown sand with gravel
229331	NT02/E	None Supplied	None Supplied	Brown sand with gravel and brick
229332	NT02/F	None Supplied	None Supplied	Brown clay and gravel
229333	NT02/G	None Supplied	None Supplied	Brown clay and loam with gravel
229334	NT02/H	None Supplied	None Supplied	Brown clay and loam with gravel
229335	NT02/I	None Supplied	None Supplied	Brown clay and loam with gravel
229336	NT02/J	None Supplied	None Supplied	Brown clay and loam with gravel
229337	NT02/K	None Supplied	None Supplied	Brown clay and loam with gravel
229338	NT02/L	None Supplied	None Supplied	Brown clay and loam with gravel
229339	NT02/M	None Supplied	None Supplied	Brown clay and loam with gravel

Analytical Report Number : 24-025376
 Project / Site name: Victoria North

Water matrix abbreviations:
 Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS



Analytical Report Number : 24-025376
Project / Site name: Victoria North

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088	D/W	MCERTS

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

Quality control parameter failure associated with individual result applies to calculated sum of individuals.
The result for sum should be interpreted with caution

- Quality control parameter has a high recovery (outside of limit); however the associated result is below the reporting limit, other checks applied prior to reporting the data have been accepted. The result should be considered as being deviating and may be compromised.

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Analytical Report Number : 24-029493

Project / Site name:	Victoria North	Samples received on:	08.07.2024
Your job number:	101221	Samples instructed on / Analysis started on:	08.07.2024
Your order number:	11181	Analysis completed by:	12.07.2024
Report Issue Number:	1	Report issued on:	12.07.2024
Samples Analysed:	7 soil samples		

Signed: _____



Rafał Szczepańczyk
Technical Reviewer
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 24-029493
Project / Site name: Victoria North
Your Order No: 11181

Lab Sample Number	250690	250691	250692	250693	250694
Sample Reference	NT02 TCE 1	NT02 TCE 2	small tank N	small tank E	small tank S
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	04/07/2024	04/07/2024	04/07/2024	04/07/2024	04/07/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Stone Content	%	0.1	NONE	36.5	40.5	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	5.3	6	22	14	11
Total mass of sample received	kg	0.1	NONE	1.3	1.4	1.4	1.4	1.3

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.59	7.3	< 0.05	< 0.05	0.87
Acenaphthylene	mg/kg	0.05	MCERTS	0.23	2.7	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	1.5	7.9	< 0.05	< 0.05	0.59
Fluorene	mg/kg	0.05	MCERTS	1	7.4	< 0.05	< 0.05	0.57
Phenanthrene	mg/kg	0.05	MCERTS	12	54	0.16	< 0.05	2.7
Anthracene	mg/kg	0.05	MCERTS	3.5	12	< 0.05	< 0.05	0.77
Fluoranthene	mg/kg	0.05	MCERTS	23	48	0.2	< 0.05	2.5
Pyrene	mg/kg	0.05	MCERTS	20	45	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	14	19	< 0.05	< 0.05	1.6
Chrysene	mg/kg	0.05	MCERTS	13	20	0.12	< 0.05	1.6
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	17	18	< 0.05	< 0.05	1.7
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	8.5	6.8	< 0.05	< 0.05	0.5
Benzo(a)pyrene	mg/kg	0.05	MCERTS	17	17	< 0.05	< 0.05	1.4
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	9.2	7.3	0.09	< 0.05	0.72
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	2.6	2.2	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	10	9.1	< 0.05	< 0.05	0.81

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	153	284	< 0.80	< 0.80	16.3
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	12	13	-	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	1.8	0.9	-	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.8	1.3	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	35	17	-	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	68	65	-	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	250	1400	-	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	20	19	-	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	330	210	-	-	-

Analytical Report Number: 24-029493

Project / Site name: Victoria North

Your Order No: 11181

Lab Sample Number	250690	250691	250692	250693	250694
Sample Reference	NT02 TCE 1	NT02 TCE 2	small tank N	small tank E	small tank S
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	04/07/2024	04/07/2024	04/07/2024	04/07/2024	04/07/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	4.3
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	2.1	< 2.0	< 2.0	9.3
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	28	8.8	11	< 8.0	19
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	270	93	44	< 8.0	51
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	300	100	55	< 10	84

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	5.5	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	8.6	38	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	93	160	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	480	250	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	580	450	< 10	< 10	< 10

VOCs

Chloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Chloroethane	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
Bromomethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Vinyl Chloride	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
Trichlorofluoromethane	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
1,1-Dichloroethene	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
Trans 1,2-dichloroethylene	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
2,2-Dichloropropane	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
Chloroform	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,2-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,1-Dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon tetrachloride	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
1,2-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Trichloroethene	µg/kg	5	ISO 17025	< 5.0	51	-	-	-
Dibromomethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Bromodichloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1,2-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,3-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Dibromochloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Tetrachloroethene	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
1,2-Dibromoethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Chlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-

Analytical Report Number: 24-029493
 Project / Site name: Victoria North
 Your Order No: 11181

Lab Sample Number				250690	250691	250692	250693	250694
Sample Reference				NT02 TCE 1	NT02 TCE 2	small tank N	small tank E	small tank S
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				04/07/2024	04/07/2024	04/07/2024	04/07/2024	04/07/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Styrene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Bromoform	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
Bromobenzene	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
n-Propylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
2-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
4-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
tert-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
sec-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
p-Isopropyltoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Butylbenzene	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Hexachlorobutadiene	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 24-029493
Project / Site name: Victoria North
Your Order No: 11181

Lab Sample Number	250695	250696
Sample Reference	small tank W	small tank B
Sample Number	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied
Date Sampled	04/07/2024	04/07/2024
Time Taken	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection
		Accreditation Status

Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	17	19
Total mass of sample received	kg	0.1	NONE	1.4	1.4

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.07	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.48	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.51	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.38	< 0.05
Chrysene	mg/kg	0.05	MCERTS	0.39	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.45	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.52	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.32	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.07	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.3	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	3.5	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-

Analytical Report Number: 24-029493
Project / Site name: Victoria North
Your Order No: 11181

Lab Sample Number	250695	250696
Sample Reference	small tank W	small tank B
Sample Number	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied
Date Sampled	04/07/2024	04/07/2024
Time Taken	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection
		Accreditation Status

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.02	NONE	< 0.020	< 0.020
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.02	NONE	< 0.020	< 0.020
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.05	NONE	< 0.050	< 0.050
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	NONE	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	NONE	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.05	NONE	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	4.2	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	19	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	25	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	48	< 10

VOCs

Chloromethane	µg/kg	5	ISO 17025	-	-
Chloroethane	µg/kg	5	NONE	-	-
Bromomethane	µg/kg	5	ISO 17025	-	-
Vinyl Chloride	µg/kg	5	NONE	-	-
Trichlorofluoromethane	µg/kg	5	NONE	-	-
1,1-Dichloroethene	µg/kg	5	NONE	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	-	-
Trans 1,2-dichloroethylene	µg/kg	5	NONE	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	ISO 17025	-	-
2,2-Dichloropropane	µg/kg	5	NONE	-	-
Chloroform	µg/kg	5	ISO 17025	-	-
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	-	-
1,2-Dichloroethane	µg/kg	5	ISO 17025	-	-
1,1-Dichloropropene	µg/kg	5	ISO 17025	-	-
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	-	-
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0
Carbon tetrachloride	µg/kg	5	NONE	-	-
1,2-Dichloropropane	µg/kg	5	ISO 17025	-	-
Trichloroethene	µg/kg	5	ISO 17025	-	-
Dibromomethane	µg/kg	5	ISO 17025	-	-
Bromodichloromethane	µg/kg	5	ISO 17025	-	-
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	-	-
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	-	-
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	-	-
1,3-Dichloropropane	µg/kg	5	ISO 17025	-	-
Dibromochloromethane	µg/kg	5	ISO 17025	-	-
Tetrachloroethene	µg/kg	5	NONE	-	-
1,2-Dibromoethane	µg/kg	5	ISO 17025	-	-
Chlorobenzene	µg/kg	5	ISO 17025	-	-
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	-	-

Analytical Report Number: 24-029493
 Project / Site name: Victoria North
 Your Order No: 11181

Lab Sample Number				250695	250696
Sample Reference				small tank W	small tank B
Sample Number				None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied
Date Sampled				04/07/2024	04/07/2024
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0
Styrene	µg/kg	5	ISO 17025	-	-
Bromoform	µg/kg	5	NONE	-	-
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	ISO 17025	-	-
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	-	-
Bromobenzene	µg/kg	5	NONE	-	-
n-Propylbenzene	µg/kg	5	ISO 17025	-	-
2-Chlorotoluene	µg/kg	5	ISO 17025	-	-
4-Chlorotoluene	µg/kg	5	ISO 17025	-	-
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	-	-
tert-Butylbenzene	µg/kg	5	ISO 17025	-	-
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	-	-
sec-Butylbenzene	µg/kg	5	ISO 17025	-	-
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	-	-
p-Isopropyltoluene	µg/kg	5	ISO 17025	-	-
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	-	-
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	-	-
Butylbenzene	µg/kg	5	NONE	-	-
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	-	-
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	-	-
Hexachlorobutadiene	µg/kg	5	NONE	-	-
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 24-029493

Project / Site name: Victoria North

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
250690	NT02 TCE 1	None Supplied	None Supplied	Brown loam with gravel and stones
250691	NT02 TCE 2	None Supplied	None Supplied	Brown loam with gravel and stones
250692	small tank N	None Supplied	None Supplied	Brown clay and loam with gravel
250693	small tank E	None Supplied	None Supplied	Brown clay and loam with gravel
250694	small tank S	None Supplied	None Supplied	Brown clay and sand with gravel
250695	small tank W	None Supplied	None Supplied	Brown clay and sand with gravel
250696	small tank B	None Supplied	None Supplied	Brown clay and sand with gravel

Analytical Report Number : 24-029493

Project / Site name: Victoria North

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088	D/W	MCERTS

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution



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Analytical Report Number : 24-030450

Project / Site name:	Victoria North	Samples received on:	12/07/2024
Your job number:	101221	Samples instructed on/ Analysis started on:	12/07/2024
Your order number:	11181	Analysis completed by:	18/07/2024
Report Issue Number:	1	Report issued on:	18/07/2024
Samples Analysed:	5 soil samples		

Signed: _____

Joanna Wawrzeczko
Senior Reporting Specialist
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.



Analytical Report Number: 24-030450
Project / Site name: Victoria North
Your Order No: 11181

Lab Sample Number				255327	255328	255329	255330	255331
Sample Reference				NT02 TCE 3	NT02 TCE 4	NT02 TCE 5	NT02 TCE 6	NT02 TCE 7
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				11/07/2024	11/07/2024	11/07/2024	11/07/2024	11/07/2024
Time Taken				b	b	b	b	b
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	15	17	11	16	17
Total mass of sample received	kg	0.1	NONE	0.2	0.3	0.2	0.3	0.2

VOCs

Chloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromomethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl Chloride	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichlorofluoromethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trans 1,2-dichloroethylene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	9.5	< 5.0
1,2-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethene	µg/kg	5	ISO 17025	9.1	20	7.1	44	130
Dibromomethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromoethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Styrene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromoform	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromobenzene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Propylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
tert-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	72
sec-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

Analytical Report Number: 24-030450
Project / Site name: Victoria North
Your Order No: 11181

Lab Sample Number				255327	255328	255329	255330	255331
Sample Reference				NT02 TCE 3	NT02 TCE 4	NT02 TCE 5	NT02 TCE 6	NT02 TCE 7
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				11/07/2024	11/07/2024	11/07/2024	11/07/2024	11/07/2024
Time Taken				b	b	b	b	b
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p-Isopropyltoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Butylbenzene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Hexachlorobutadiene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



Analytical Report Number : 24-030450
Project / Site name: Victoria North

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
255327	NT02 TCE 3	None Supplied	None Supplied	Brown clay
255328	NT02 TCE 4	None Supplied	None Supplied	Brown clay and sand with gravel
255329	NT02 TCE 5	None Supplied	None Supplied	Brown loam and sand with gravel and vegetation
255330	NT02 TCE 6	None Supplied	None Supplied	Brown clay and sand with gravel
255331	NT02 TCE 7	None Supplied	None Supplied	Brown clay and sand with gravel



Analytical Report Number : 24-030450
Project / Site name: Victoria North

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.
The result for sum should be interpreted with caution

Sample Deviation Report



Analytical Report Number : 24-030450
Project / Site name: Victoria North
This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
NT02 TCE 3	N/A	S	255327	b	BTEX and/or Volatile organic compounds in soil	L073B	b
NT02 TCE 4	N/A	S	255328	b	BTEX and/or Volatile organic compounds in soil	L073B	b
NT02 TCE 5	N/A	S	255329	b	BTEX and/or Volatile organic compounds in soil	L073B	b
NT02 TCE 6	N/A	S	255330	b	BTEX and/or Volatile organic compounds in soil	L073B	b
NT02 TCE 7	N/A	S	255331	b	BTEX and/or Volatile organic compounds in soil	L073B	b



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Analytical Report Number : 24-031424

Project / Site name: Victoria North

Samples received on: 18/07/2024

Your job number: 101221

Samples instructed on /
Analysis started on: 18/07/2024

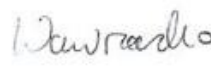
Your order number: 11181

Analysis completed by: 24/07/2024

Report Issue Number: 1

Report issued on: 24/07/2024

Samples Analysed: 4 soil samples

Signed: 

Joanna Wawrzeczko
Senior Reporting Specialist
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.



Analytical Report Number: 24-031424
Project / Site name: Victoria North
Your Order No: 11181

Lab Sample Number				260854	260855	260856	260857
Sample Reference				export 160724 HAZ	export 170724 HAZ	6F2 crush	TLE TP1
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				16/07/2024	17/07/2024	16/07/2024	17/07/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status				

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	19	15	9.3	15
Total mass of sample received	kg	0.1	NONE	1	1	0.8	0.9

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-	-	Not-detected	-
Asbestos Analyst ID	N/A	N/A	N/A	-	-	IZJ	-

General Inorganics

Loss on Ignition @ 450°C	%	0.2	MCERTS	10	13	-	-
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	-	0.73	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	0.09	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	1.5	-
Fluorene	mg/kg	0.05	MCERTS	-	-	1.3	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	7.8	-
Anthracene	mg/kg	0.05	MCERTS	-	-	2.2	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	10	-
Pyrene	mg/kg	0.05	MCERTS	-	-	9.6	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	3.8	-
Chrysene	mg/kg	0.05	MCERTS	-	-	3.9	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-	4.4	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-	1.8	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	3.9	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	1.9	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	0.39	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	2.1	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-	-	55.6	-
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	15	19	10	-
Boron (water soluble)	mg/kg	0.2	MCERTS	22	7	0.5	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	6.8	11	0.5	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	130	130	19	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	1900	3800	44	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	690	770	76	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	4.3	3.3	< 0.3	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	140	170	15	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	4100	4300	140	-



Analytical Report Number: 24-031424
Project / Site name: Victoria North
Your Order No: 11181

Lab Sample Number				260854	260855	260856	260857
Sample Reference				export 160724 HAZ	export 170724 HAZ	6F2 crush	TLE TP1
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				16/07/2024	17/07/2024	16/07/2024	17/07/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status				

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.02	MCERTS	-	-	< 0.020	-
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.02	MCERTS	-	-	< 0.020	-
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.05	MCERTS	-	-	< 0.050	-
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-	-	< 1.0	-
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-	-	4.9	-
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	27	-
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	200	-
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-	230	-

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	-	-	< 0.010	-
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	-	-	< 0.010	-
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.05	MCERTS	-	-	< 0.050	-
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	-	-	2	-
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	-	-	14	-
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	53	-
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	170	-
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	-	-	240	-

TPH (EC10 - EC40) _{EH_CU_1D_TOTAL}	mg/kg	10	MCERTS	2200	1100	-	-
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VOCs

Chloromethane	µg/kg	5	ISO 17025	-	-	-	< 5.0
Chloroethane	µg/kg	5	NONE	-	-	-	< 5.0
Bromomethane	µg/kg	5	ISO 17025	-	-	-	< 5.0
Vinyl Chloride	µg/kg	5	NONE	-	-	-	< 5.0
Trichlorofluoromethane	µg/kg	5	NONE	-	-	-	< 5.0
1,1-Dichloroethene	µg/kg	5	NONE	-	-	-	< 5.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	-	-	-	< 5.0
Trans 1,2-dichloroethylene	µg/kg	5	NONE	-	-	-	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	ISO 17025	-	-	-	< 5.0
2,2-Dichloropropane	µg/kg	5	NONE	-	-	-	< 5.0
Chloroform	µg/kg	5	ISO 17025	-	-	-	< 5.0
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	-	-	-	< 5.0
1,2-Dichloroethane	µg/kg	5	ISO 17025	-	-	-	< 5.0
1,1-Dichloropropene	µg/kg	5	ISO 17025	-	-	-	< 5.0
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	-	-	-	< 5.0
Benzene	µg/kg	5	MCERTS	-	-	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	NONE	-	-	-	< 5.0
1,2-Dichloropropane	µg/kg	5	ISO 17025	-	-	-	< 5.0 ^{##}
Trichloroethene	µg/kg	5	ISO 17025	-	-	-	170
Dibromomethane	µg/kg	5	ISO 17025	-	-	-	< 5.0
Bromodichloromethane	µg/kg	5	ISO 17025	-	-	-	< 5.0
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	-	-	-	< 5.0
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	-	-	-	< 5.0
Toluene	µg/kg	5	MCERTS	-	-	< 5.0	< 5.0
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	-	-	-	< 5.0
1,3-Dichloropropane	µg/kg	5	ISO 17025	-	-	-	< 5.0
Dibromochloromethane	µg/kg	5	ISO 17025	-	-	-	< 5.0
Tetrachloroethene	µg/kg	5	NONE	-	-	-	< 5.0



Analytical Report Number: 24-031424
Project / Site name: Victoria North
Your Order No: 11181

Lab Sample Number				260854	260855	260856	260857
Sample Reference				export 160724 HAZ	export 170724 HAZ	6F2 crush	TLE TP1
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				16/07/2024	17/07/2024	16/07/2024	17/07/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status				
1,2-Dibromoethane	µg/kg	5	ISO 17025	-	-	-	< 5.0
Chlorobenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	-	-	-	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	-	-	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	-	-	< 5.0	< 5.0
Styrene	µg/kg	5	ISO 17025	-	-	-	< 5.0
Bromoform	µg/kg	5	NONE	-	-	-	< 5.0
o-Xylene	µg/kg	5	MCERTS	-	-	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	-	-	-	< 5.0
Bromobenzene	µg/kg	5	NONE	-	-	-	< 5.0
n-Propylbenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0
2-Chlorotoluene	µg/kg	5	ISO 17025	-	-	-	< 5.0
4-Chlorotoluene	µg/kg	5	ISO 17025	-	-	-	< 5.0
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0
tert-Butylbenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0
sec-Butylbenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0
p-Isopropyltoluene	µg/kg	5	ISO 17025	-	-	-	< 5.0
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0
Butylbenzene	µg/kg	5	NONE	-	-	-	< 5.0
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	-	-	-	< 5.0
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0
Hexachlorobutadiene	µg/kg	5	NONE	-	-	-	< 5.0
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



Analytical Report Number : 24-031424
Project / Site name: Victoria North

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
260854	xport 160724 HA	None Supplied	None Supplied	Brown loam and sand with gravel and vegetation
260855	xport 170724 HA	None Supplied	None Supplied	Brown loam and sand with gravel and vegetation
260856	6F2 crush	None Supplied	None Supplied	Brown sand with gravel and brick
260857	TLE TP1	None Supplied	None Supplied	Brown clay



Analytical Report Number : 24-031424
Project / Site name: Victoria North

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Loss on ignition of soil @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	In-house method	L047	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088	D/W	MCERTS
Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS	In-house method	L076B/L088	D/W	MCERTS

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics



Analytical Report Number : 24-031424
Project / Site name: Victoria North

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
AR	Aromatics				
#1	EH_2D_Total but with humics mathematically subtracted				
#2	EH_2D_Total but with fatty acids mathematically subtracted				
-	Operator - underscore to separate acronyms (exception for +)				
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total				

Quality control parameter failure associated with individual result applies to calculated sum of individuals.
The result for sum should be interpreted with caution

- Quality control parameter has a high recovery (outside of limit); however the associated result is below the reporting limit, other checks applied prior to reporting the data have been accepted. The result should be considered as being deviating and may be compromised.



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Analytical Report Number : 24-032291

Project / Site name:	Victoria North	Samples received on:	23/07/2024
Your job number:	101221	Samples instructed on / Analysis started on:	23/07/2024
Your order number:	11181	Analysis completed by:	30/07/2024
Report Issue Number:	1	Report issued on:	30/07/2024
Samples Analysed:	8 soil samples		

Signed: _____

Anna Goc
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :	soils	- 4 weeks from reporting
	leachates	- 2 weeks from reporting
	waters	- 2 weeks from reporting
	asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 24-032291
Project / Site name: Victoria North
Your Order No: 11181

Lab Sample Number				265788	265789	265790	265791	265792
Sample Reference				SP1	SP2	SP3	SP4	SP5
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	20	17	18	18	18
Total mass of sample received	kg	0.1	NONE	1.1	1.1	1.1	1.1	1.2

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	DBU	DBU	DBU	DBU	DBU

General Inorganics

Loss on Ignition @ 450°C	%	0.2	MCERTS	8.2	8	8.1	4.9	10
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.4	0.26	0.26	0.3	0.27
Acenaphthylene	mg/kg	0.05	MCERTS	0.08	0.09	0.07	0.07	0.29
Acenaphthene	mg/kg	0.05	MCERTS	0.84	0.64	0.42	0.46	0.47
Fluorene	mg/kg	0.05	MCERTS	0.62	0.45	0.35	0.31	0.58
Phenanthrene	mg/kg	0.05	MCERTS	4.4	4.1	2.8	3.1	4
Anthracene	mg/kg	0.05	MCERTS	1.1	0.98	0.7	0.66	0.99
Fluoranthene	mg/kg	0.05	MCERTS	5.9	5.7	4.9	4.3	5.8
Pyrene	mg/kg	0.05	MCERTS	5.3	5.3	4.6	4	5.4
Benzo(a)anthracene	mg/kg	0.05	MCERTS	2.4	2.6	2.2	1.9	2.6
Chrysene	mg/kg	0.05	MCERTS	2.4	2.6	2.3	2	2.7
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	2.7	3.3	2.8	2.5	3.1
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	1.5	1.2	0.96	0.95	1.5
Benzo(a)pyrene	mg/kg	0.05	MCERTS	2.6	2.8	2.4	2.2	3
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	1.2	1.2	1.2	1.2	1.5
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.28	0.3	0.3	0.25	0.41
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.4	1.3	1.4	1.3	1.8

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	33	32.7	27.7	25.5	34.4
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	16	17	21	16	17
Boron (water soluble)	mg/kg	0.2	MCERTS	12	8.9	8.1	1.9	2.5
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	10	10	61	6.4	7.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	100	120	84	63	130
Copper (aqua regia extractable)	mg/kg	1	MCERTS	3400	1600	1500	780	3800
Lead (aqua regia extractable)	mg/kg	1	MCERTS	690	570	5100	420	870
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	2.1	3.7	3.4	2.5	8.5
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	230	110	100	68	170
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	3500	2400	2100	1200	4400



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Environmental Science

Analytical Report Number: 24-032291

Project / Site name: Victoria North

Your Order No: 11181

Lab Sample Number				265788	265789	265790	265791	265792
Sample Reference				SP1	SP2	SP3	SP4	SP5
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	4.2
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	20	20	12	9.6	15
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	90	83	64	40	93
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	700	580	410	250	680
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	810	680	490	300	790

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	1.3	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	12	12	4.4	4.2	10
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	66	68	29	20	49
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	320	300	140	85	310
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	400	380	170	110	370

VOCs

Chloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromomethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl Chloride	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichlorofluoromethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trans 1,2-dichloroethylene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromomethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromoethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0



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Environmental Science

Analytical Report Number: 24-032291

Project / Site name: Victoria North

Your Order No: 11181

Lab Sample Number				265788	265789	265790	265791	265792
Sample Reference				SP1	SP2	SP3	SP4	SP5
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Ethylbenzene	µg/kg	5	MCERTS	10	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	11	< 5.0	< 5.0	< 5.0	< 5.0
Styrene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromoform	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	9.5	< 5.0	< 5.0	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromobenzene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Propylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
tert-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
sec-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p-Isopropyltoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Butylbenzene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Hexachlorobutadiene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 24-032291
 Project / Site name: Victoria North
 Your Order No: 11181

Lab Sample Number	265793	265794	265795
Sample Reference	SP6	TCE TP2	TCE TP3
Sample Number	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied
Date Sampled	19/07/2024	19/07/2024	19/07/2024
Time Taken	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	18	12	10
Total mass of sample received	kg	0.1	NONE	1.2	0.9	1.2

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	-	-
Asbestos Analyst ID	N/A	N/A	N/A	DBU	-	-

General Inorganics

Loss on Ignition @ 450°C	%	0.2	MCERTS	8.9	-	-
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.37	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	0.09	-	-
Acenaphthene	mg/kg	0.05	MCERTS	0.55	-	-
Fluorene	mg/kg	0.05	MCERTS	0.52	-	-
Phenanthrene	mg/kg	0.05	MCERTS	4.3	-	-
Anthracene	mg/kg	0.05	MCERTS	1.4	-	-
Fluoranthene	mg/kg	0.05	MCERTS	6.7	-	-
Pyrene	mg/kg	0.05	MCERTS	6.4	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	2.9	-	-
Chrysene	mg/kg	0.05	MCERTS	3.1	-	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	3.7	-	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	1.5	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	3.3	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	1.7	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.4	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.9	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	38.8	-	-
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	18	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	7.5	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	5.8	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	100	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	2200	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	780	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	4.6	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	120	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	3800	-	-

Analytical Report Number: 24-032291
Project / Site name: Victoria North
Your Order No: 11181

Lab Sample Number	265793	265794	265795
Sample Reference	SP6	TCE TP2	TCE TP3
Sample Number	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied
Date Sampled	19/07/2024	19/07/2024	19/07/2024
Time Taken	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.020	-	-
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.020	-	-
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.050	-	-
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	-	-
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	15	-	-
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	85	-	-
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	550	-	-
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	650	-	-

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	-	-
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	-	-
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.050	-	-
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	-	-
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	8.1	-	-
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	50	-	-
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	290	-	-
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	350	-	-

VOCs

Chloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
Chloroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0
Bromomethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
Vinyl Chloride	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0
Trichlorofluoromethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0
Trans 1,2-dichloroethylene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0
Chloroform	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
1,2-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
1,1-Dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	< 5.0	< 5.0	13
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0
1,2-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
Trichloroethene	µg/kg	5	ISO 17025	< 5.0	< 5.0	120
Dibromomethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
Bromodichloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
1,3-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
Dibromochloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
Tetrachloroethene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0
1,2-Dibromoethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
Chlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0

Analytical Report Number: 24-032291

Project / Site name: Victoria North

Your Order No: 11181

Lab Sample Number				265793	265794	265795
Sample Reference				SP6	TCE TP2	TCE TP3
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				19/07/2024	19/07/2024	19/07/2024
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status			
Ethylbenzene	µg/kg	5	MCERTS	7.5	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	5.3	< 5.0	< 5.0
Styrene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
Bromoform	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0
Bromobenzene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0
n-Propylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
2-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
4-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
tert-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
sec-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
p-Isopropyltoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
Butylbenzene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0
Hexachlorobutadiene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 24-032291

Project / Site name: Victoria North

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
265788	SP1	None Supplied	None Supplied	Brown loam and clay with gravel and vegetation
265789	SP2	None Supplied	None Supplied	Brown loam and clay with gravel and vegetation
265790	SP3	None Supplied	None Supplied	Brown loam and sand with gravel and vegetation
265791	SP4	None Supplied	None Supplied	Brown loam and sand with gravel and vegetation
265792	SP5	None Supplied	None Supplied	Brown loam and sand with gravel and vegetation
265793	SP6	None Supplied	None Supplied	Brown loam and sand with gravel and vegetation
265794	TCE TP2	None Supplied	None Supplied	Brown clay and sand with gravel
265795	TCE TP3	None Supplied	None Supplied	Brown loam and sand with gravel

Analytical Report Number : 24-032291

Project / Site name: Victoria North

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Loss on ignition of soil @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	In-house method	L047	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS

Analytical Report Number : 24-032291

Project / Site name: Victoria North

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088	D/W	MCERTS

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution



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Analytical Report Number : 24-025303

Project / Site name: Victoria North

Samples received on: 14/06/2024

Your job number: 101221

Samples instructed on /
Analysis started on: 14/06/2024

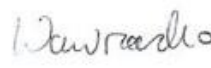
Your order number: 11181

Analysis completed by: 21/06/2024

Report Issue Number: 1

Report issued on: 21/06/2024

Samples Analysed: 7 soil samples

Signed: 

Joanna Wawrzeczko
Senior Reporting Specialist
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.



Analytical Report Number: 24-025303
Project / Site name: Victoria North
Your Order No: 11181

Lab Sample Number				228829	228830	228831	228832	228833
Sample Reference				ES1	ES2	ES3	ES4	ES5
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				12/06/2024	12/06/2024	12/06/2024	12/06/2024	12/06/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Stone Content	%	0.1	NONE	9.4	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	8.4	9.5	12	9.1	7.3
Total mass of sample received	kg	0.1	NONE	0.3	0.3	0.2	0.3	0.3

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.21	0.16	0.11	0.38	0.44
Acenaphthylene	mg/kg	0.05	MCERTS	0.07	< 0.05	< 0.05	< 0.05	0.14
Acenaphthene	mg/kg	0.05	MCERTS	0.6	0.48	0.25	0.63	0.82
Fluorene	mg/kg	0.05	MCERTS	0.37	0.37	0.17	0.36	0.64
Phenanthrene	mg/kg	0.05	MCERTS	4.4	4.9	2.2	3.5	6.9
Anthracene	mg/kg	0.05	MCERTS	1	1.3	0.56	< 0.05	1.6
Fluoranthene	mg/kg	0.05	MCERTS	6.2	8	4.3	3	9.7
Pyrene	mg/kg	0.05	MCERTS	5.8	7.4	3.9	3.2	9.2
Benzo(a)anthracene	mg/kg	0.05	MCERTS	3	3.6	2.1	1.3	4.9
Chrysene	mg/kg	0.05	MCERTS	3.1	3.7	2.2	1.6	4.7
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	3.1	3.4	2.6	1.3	5.2
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	1.5	2	1.1	0.65	2
Benzo(a)pyrene	mg/kg	0.05	MCERTS	3	3.4	2.3	1.4	4.7
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	1.4	1.6	1.2	0.6	2.3
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.37	0.32	< 0.05	0.18	0.5
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.7	1.8	1.3	0.8	2.6

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	35.6	42.5	24.2	18.9	56.4
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Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	7.3	4.1	4.9	< 2.0	2.3
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	28	18	37	< 8.0	18
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	92	55	150	8.9	66
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	130	77	190	< 10	86

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	1.3	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	5.8	6	6.1	7.6	7.2
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	39	36	36	20	41
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	98	86	110	36	83
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	140	130	150	65	130



Analytical Report Number: 24-025303
Project / Site name: Victoria North
Your Order No: 11181

Lab Sample Number				228829	228830	228831	228832	228833
Sample Reference				ES1	ES2	ES3	ES4	ES5
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				12/06/2024	12/06/2024	12/06/2024	12/06/2024	12/06/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

VOCS

Chloromethane	µg/kg	5	ISO 17025	< 5.0 ##	< 5.0 ##	< 5.0 ##	< 5.0 ##	< 5.0 ##
Chloroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromomethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl Chloride	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichlorofluoromethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trans 1,2-dichloroethylene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	µg/kg	5	ISO 17025	18	30	30	34	27
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	NONE	23	55	57	17	72
1,2-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethene	µg/kg	5	ISO 17025	260	670	760	340	610
Dibromomethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromoethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Styrene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromoform	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromobenzene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Propylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
tert-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
sec-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p-Isopropyltoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Butylbenzene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0



Analytical Report Number: 24-025303
Project / Site name: Victoria North
Your Order No: 11181

Lab Sample Number				228829	228830	228831	228832	228833
Sample Reference				ES1	ES2	ES3	ES4	ES5
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				12/06/2024	12/06/2024	12/06/2024	12/06/2024	12/06/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Hexachlorobutadiene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



Analytical Report Number: 24-025303
Project / Site name: Victoria North
Your Order No: 11181

Lab Sample Number				228834	228835
Sample Reference				ES6	ES7
Sample Number				None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied
Date Sampled				12/06/2024	12/06/2024
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	21.8
Moisture Content	%	0.01	NONE	8.5	10
Total mass of sample received	kg	0.1	NONE	0.2	0.3

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.28	0.11
Acenaphthylene	mg/kg	0.05	MCERTS	0.19	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.44	0.2
Fluorene	mg/kg	0.05	MCERTS	0.36	0.15
Phenanthrene	mg/kg	0.05	MCERTS	4.5	1.7
Anthracene	mg/kg	0.05	MCERTS	0.97	0.4
Fluoranthene	mg/kg	0.05	MCERTS	7.1	2.9
Pyrene	mg/kg	0.05	MCERTS	7.1	2.7
Benzo(a)anthracene	mg/kg	0.05	MCERTS	3.2	1.5
Chrysene	mg/kg	0.05	MCERTS	3.4	1.5
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	3.6	1.5
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	1.4	0.75
Benzo(a)pyrene	mg/kg	0.05	MCERTS	3.2	1.4
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	1.6	0.69
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.36	0.17
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.9	0.8

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	39.5	16.3
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Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.02	NONE	< 0.020	< 0.020
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.02	NONE	< 0.020	< 0.020
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.05	NONE	< 0.050	< 0.050
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	2.8	2
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	30	14
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	89	54
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	120	70

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	NONE	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	NONE	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.05	NONE	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	5.6	3.8
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	48	21
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	120	61
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	170	85



Analytical Report Number: 24-025303
Project / Site name: Victoria North
Your Order No: 11181

Lab Sample Number				228834	228835
Sample Reference				ES6	ES7
Sample Number				None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied
Date Sampled				12/06/2024	12/06/2024
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

VOCs

Chloromethane	µg/kg	5	ISO 17025	< 5.0 ##	< 5.0 ##
Chloroethane	µg/kg	5	NONE	< 5.0	< 5.0
Bromomethane	µg/kg	5	ISO 17025	< 5.0	< 5.0
Vinyl Chloride	µg/kg	5	NONE	< 5.0	< 5.0
Trichlorofluoromethane	µg/kg	5	NONE	< 5.0	< 5.0
1,1-Dichloroethene	µg/kg	5	NONE	< 5.0	< 5.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	< 5.0	< 5.0
Trans 1,2-dichloroethylene	µg/kg	5	NONE	< 5.0	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0
2,2-Dichloropropane	µg/kg	5	NONE	< 5.0	< 5.0
Chloroform	µg/kg	5	ISO 17025	25	24
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0
1,2-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0
1,1-Dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	NONE	35	24
1,2-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0 ##
Trichloroethene	µg/kg	5	ISO 17025	500	380
Dibromomethane	µg/kg	5	ISO 17025	< 5.0	< 5.0
Bromodichloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0
1,3-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0
Dibromochloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0
Tetrachloroethene	µg/kg	5	NONE	< 5.0	< 5.0
1,2-Dibromoethane	µg/kg	5	ISO 17025	< 5.0	< 5.0
Chlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0
Styrene	µg/kg	5	ISO 17025	< 5.0	< 5.0
Bromoform	µg/kg	5	NONE	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	< 5.0	< 5.0
Bromobenzene	µg/kg	5	NONE	< 5.0	< 5.0
n-Propylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0
2-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0
4-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0
tert-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0
sec-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0
p-Isopropyltoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0
Butylbenzene	µg/kg	5	NONE	< 5.0	< 5.0



Analytical Report Number: 24-025303
Project / Site name: Victoria North
Your Order No: 11181

Lab Sample Number				228834	228835
Sample Reference				ES6	ES7
Sample Number				None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied
Date Sampled				12/06/2024	12/06/2024
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0
Hexachlorobutadiene	µg/kg	5	NONE	< 5.0	< 5.0
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



Analytical Report Number : 24-025303
Project / Site name: Victoria North

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
228829	ES1	None Supplied	None Supplied	Brown sandy loam with gravel and stones
228830	ES2	None Supplied	None Supplied	Brown clay and sand with gravel
228831	ES3	None Supplied	None Supplied	Brown sand with gravel
228832	ES4	None Supplied	None Supplied	Brown sand with gravel
228833	ES5	None Supplied	None Supplied	Brown sandy loam with gravel
228834	ES6	None Supplied	None Supplied	Brown sandy loam with gravel
228835	ES7	None Supplied	None Supplied	Brown sand with gravel and stones



Analytical Report Number : 24-025303
Project / Site name: Victoria North

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088	D/W	MCERTS

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

Quality control parameter failure associated with individual result applies to calculated sum of individuals.
The result for sum should be interpreted with caution

- Quality control parameter has a high recovery (outside of limit); however the associated result is below the reporting limit, other checks applied prior to reporting the data have been accepted. The result should be considered as being deviating and may be compromised.



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Analytical Report Number : 24-025309

Project / Site name:	Victoria North	Samples received on:	14/06/2024
Your job number:	101221	Samples instructed on/ Analysis started on:	14/06/2024
Your order number:	11181	Analysis completed by:	20/06/2024
Report Issue Number:	1	Report issued on:	20/06/2024
Samples Analysed:	1 soil sample		

Signed: 

Dominika Liana
Junior Reporting Specialist
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.



Analytical Report Number: 24-025309
Project / Site name: Victoria North
Your Order No: 11181

Lab Sample Number				228874
Sample Reference				ES8
Sample Number				None Supplied
Depth (m)				None Supplied
Date Sampled				13/06/2024
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	10
Total mass of sample received	kg	0.1	NONE	1.3

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.09
Anthracene	mg/kg	0.05	MCERTS	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.2
Pyrene	mg/kg	0.05	MCERTS	0.17
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.09
Chrysene	mg/kg	0.05	MCERTS	0.12
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.13
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.06
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.07
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.09

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	1.12
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	12
Boron (water soluble)	mg/kg	0.2	MCERTS	0.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	22
Copper (aqua regia extractable)	mg/kg	1	MCERTS	25
Lead (aqua regia extractable)	mg/kg	1	MCERTS	49
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	19
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	69



Analytical Report Number: 24-025309
Project / Site name: Victoria North
Your Order No: 11181

Lab Sample Number	228874			
Sample Reference	ES8			
Sample Number	None Supplied			
Depth (m)	None Supplied			
Date Sampled	13/06/2024			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.02	NONE	< 0.020
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.02	NONE	< 0.020
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.05	NONE	< 0.050
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	32
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	32

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	NONE	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	NONE	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.05	NONE	< 0.050
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10

VOCs

Chloromethane	µg/kg	5	ISO 17025	< 5.0 ^{##}
Chloroethane	µg/kg	5	NONE	< 5.0
Bromomethane	µg/kg	5	ISO 17025	< 5.0
Vinyl Chloride	µg/kg	5	NONE	< 5.0
Trichlorofluoromethane	µg/kg	5	NONE	< 5.0
1,1-Dichloroethene	µg/kg	5	NONE	< 5.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	< 5.0
Trans 1,2-dichloroethylene	µg/kg	5	NONE	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0
1,1-Dichloroethane	µg/kg	5	ISO 17025	< 5.0
2,2-Dichloropropane	µg/kg	5	NONE	< 5.0
Chloroform	µg/kg	5	ISO 17025	19
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	< 5.0
1,2-Dichloroethane	µg/kg	5	ISO 17025	< 5.0
1,1-Dichloropropene	µg/kg	5	ISO 17025	< 5.0
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0
Carbontetrachloride	µg/kg	5	NONE	36
1,2-Dichloropropane	µg/kg	5	ISO 17025	< 5.0 ^{##}
Trichloroethene	µg/kg	5	ISO 17025	550
Dibromomethane	µg/kg	5	ISO 17025	< 5.0
Bromodichloromethane	µg/kg	5	ISO 17025	< 5.0
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	< 5.0
1,3-Dichloropropane	µg/kg	5	ISO 17025	< 5.0
Dibromochloromethane	µg/kg	5	ISO 17025	< 5.0
Tetrachloroethene	µg/kg	5	NONE	< 5.0
1,2-Dibromoethane	µg/kg	5	ISO 17025	< 5.0
Chlorobenzene	µg/kg	5	ISO 17025	< 5.0
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0



Analytical Report Number: 24-025309
Project / Site name: Victoria North
Your Order No: 11181

Lab Sample Number				228874
Sample Reference				ES8
Sample Number				None Supplied
Depth (m)				None Supplied
Date Sampled				13/06/2024
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
p & m-Xylene	µg/kg	5	MCERTS	< 5.0
Styrene	µg/kg	5	ISO 17025	< 5.0
Bromoform	µg/kg	5	NONE	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0
Isopropylbenzene	µg/kg	5	ISO 17025	< 5.0
1,1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	< 5.0
Bromobenzene	µg/kg	5	NONE	< 5.0
n-Propylbenzene	µg/kg	5	ISO 17025	< 5.0
2-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0
4-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0
tert-Butylbenzene	µg/kg	5	ISO 17025	< 5.0
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0
sec-Butylbenzene	µg/kg	5	ISO 17025	< 5.0
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0
p-Isopropyltoluene	µg/kg	5	ISO 17025	< 5.0
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0
Butylbenzene	µg/kg	5	NONE	< 5.0
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	< 5.0
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0
Hexachlorobutadiene	µg/kg	5	NONE	< 5.0
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



Analytical Report Number : 24-025309
Project / Site name: Victoria North

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
228874	ES8	None Supplied	None Supplied	Brown clay and sand with gravel

Analytical Report Number : 24-025309
 Project / Site name: Victoria North

Water matrix abbreviations:
 Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS



Analytical Report Number : 24-025309
Project / Site name: Victoria North

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088	D/W	MCERTS

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

Quality control parameter failure associated with individual result applies to calculated sum of individuals.
The result for sum should be interpreted with caution

- Quality control parameter has a high recovery (outside of limit); however the associated result is below the reporting limit, other checks applied prior to reporting the data have been accepted. The result should be considered as being deviating and may be compromised.



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Analytical Report Number : 24-024257

Project / Site name:	Victoria North	Samples received on:	10/06/2024
Your job number:	101221	Samples instructed on / Analysis started on:	10/06/2024
Your order number:	11181	Analysis completed by:	14/06/2024
Report Issue Number:	1	Report issued on:	17/06/2024
Samples Analysed:	3 soil samples		

Signed: _____

Anna Goc
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :	soils	- 4 weeks from reporting
	leachates	- 2 weeks from reporting
	waters	- 2 weeks from reporting
	asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 24-024257
Project / Site name: Victoria North
Your Order No: 11181

Lab Sample Number				222923	222924	222925
Sample Reference				Export 070624	Ramp	Ash Fill
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				07/06/2024	07/06/2024	07/06/2024
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	15	17	10
Total mass of sample received	kg	0.1	NONE	0.7	0.9	0.8

General Inorganics

Loss on Ignition @ 450°C	%	0.2	MCERTS	5.2	-	-
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	0.34	0.82
Acenaphthylene	mg/kg	0.05	MCERTS	-	< 0.05	0.43
Acenaphthene	mg/kg	0.05	MCERTS	-	0.52	3.4
Fluorene	mg/kg	0.05	MCERTS	-	0.48	2.7
Phenanthrene	mg/kg	0.05	MCERTS	-	3.6	20
Anthracene	mg/kg	0.05	MCERTS	-	< 0.05	5.7
Fluoranthene	mg/kg	0.05	MCERTS	-	5.8	24
Pyrene	mg/kg	0.05	MCERTS	-	5.4	21
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	3	9.5
Chrysene	mg/kg	0.05	MCERTS	-	3.2	11
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	3.4	12
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	1.6	3.6
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	3.1	11
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	1.7	5.9
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	0.38	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	1.9	7.4

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-	34.3	139
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	14	18	35
Boron (water soluble)	mg/kg	0.2	MCERTS	6.4	14	0.5
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	1.6	6.6	< 0.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	40	330	25
Copper (aqua regia extractable)	mg/kg	1	MCERTS	530	3500	78
Lead (aqua regia extractable)	mg/kg	1	MCERTS	630	2000	160
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	1.5	2.2	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	46	160	42
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	820	3800	140

Analytical Report Number: 24-024257
Project / Site name: Victoria North
Your Order No: 11181

Lab Sample Number				222923	222924	222925
Sample Reference				Export 070624	Ramp	Ash Fill
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				07/06/2024	07/06/2024	07/06/2024
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.02	NONE	-	< 0.020	< 0.020
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.02	NONE	-	< 0.020	< 0.020
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.05	NONE	-	< 0.050	< 0.050
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-	11	11
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	54	39
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	430	500
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	490	550

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	NONE	-	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	NONE	-	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.05	NONE	-	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	-	< 1.0	2.5
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	-	7.2	25
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	26	70
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	110	430
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	-	140	530

TPH (EC10 - EC40) _{EH_CU_1D_TOTAL}	mg/kg	10	MCERTS	480	-	-
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VOCs

Chloromethane	µg/kg	5	ISO 17025	-	< 5.0	< 5.0
Chloroethane	µg/kg	5	NONE	-	< 5.0	< 5.0
Bromomethane	µg/kg	5	ISO 17025	-	< 5.0	< 5.0
Vinyl Chloride	µg/kg	5	NONE	-	< 5.0	< 5.0
Trichlorofluoromethane	µg/kg	5	NONE	-	< 5.0	< 5.0
1,1-Dichloroethene	µg/kg	5	NONE	-	< 5.0	< 5.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	-	< 5.0	< 5.0
Trans 1,2-dichloroethylene	µg/kg	5	NONE	-	< 5.0	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	ISO 17025	-	< 5.0	< 5.0
2,2-Dichloropropane	µg/kg	5	NONE	-	< 5.0	< 5.0
Chloroform	µg/kg	5	ISO 17025	-	< 5.0	< 5.0
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	-	< 5.0	< 5.0
1,2-Dichloroethane	µg/kg	5	ISO 17025	-	< 5.0	< 5.0
1,1-Dichloropropene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	-	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	NONE	-	< 5.0	< 5.0
1,2-Dichloropropane	µg/kg	5	ISO 17025	-	< 5.0	< 5.0
Trichloroethene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0
Dibromomethane	µg/kg	5	ISO 17025	-	< 5.0	< 5.0
Bromodichloromethane	µg/kg	5	ISO 17025	-	< 5.0	< 5.0
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	-	< 5.0	< 5.0
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	-	< 5.0	< 5.0
1,3-Dichloropropane	µg/kg	5	ISO 17025	-	< 5.0	< 5.0
Dibromochloromethane	µg/kg	5	ISO 17025	-	< 5.0	< 5.0
Tetrachloroethene	µg/kg	5	NONE	-	< 5.0	< 5.0
1,2-Dibromoethane	µg/kg	5	ISO 17025	-	< 5.0	< 5.0

Analytical Report Number: 24-024257
 Project / Site name: Victoria North
 Your Order No: 11181

Lab Sample Number				222923	222924	222925
Sample Reference				Export 070624	Ramp	Ash Fill
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				07/06/2024	07/06/2024	07/06/2024
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Chlorobenzene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	-	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	-	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	-	< 5.0	< 5.0
Styrene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0
Bromoform	µg/kg	5	NONE	-	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	-	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	-	< 5.0	< 5.0
Bromobenzene	µg/kg	5	NONE	-	< 5.0	< 5.0
n-Propylbenzene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0
2-Chlorotoluene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0
4-Chlorotoluene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0
tert-Butylbenzene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0
sec-Butylbenzene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0
p-Isopropyltoluene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0
Butylbenzene	µg/kg	5	NONE	-	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	-	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0
Hexachlorobutadiene	µg/kg	5	NONE	-	< 5.0	< 5.0
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 24-024257

Project / Site name: Victoria North

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
222923	Export 070624	None Supplied	None Supplied	Brown loam and clay with brick and vegetation
222924	Ramp	None Supplied	None Supplied	Brown loam and sand with gravel and plastic
222925	Ash Fill	None Supplied	None Supplied	Brown loam and sand with gravel

Analytical Report Number : 24-024257

Project / Site name: Victoria North

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Loss on ignition of soil @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	In-house method	L047	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088	D/W	MCERTS

Analytical Report Number : 24-024257

Project / Site name: Victoria North

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS	In-house method	L076B/L088	D/W	MCERTS

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution



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Analytical Report Number : 24-031413

Project / Site name:	Victoria North	Samples received on:	18/07/2024
Your job number:	101221	Samples instructed on / Analysis started on:	18/07/2024
Your order number:	11181	Analysis completed by:	29/07/2024
Report Issue Number:	1	Report issued on:	30/07/2024
Samples Analysed:	9 soil samples		

Signed: _____

Anna Goc
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 24-031413

Project / Site name: Victoria North

Your Order No: 11181

Lab Sample Number				260789	260790	260791	260792	260793
Sample Reference				ash fill 1	ash fill 2	ash fill 3	ash fill 4	ash fill 5
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				16/07/2024	16/07/2024	16/07/2024	16/07/2024	16/07/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	24.5	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	11	13	14	14
Total mass of sample received	kg	0.1	NONE	0.8	0.8	0.7	0.8	0.8

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.88	0.83	0.78	0.44	0.68
Acenaphthylene	mg/kg	0.05	MCERTS	0.23	0.33	0.17	0.18	0.15
Acenaphthene	mg/kg	0.05	MCERTS	3.6	2.7	1.5	1.7	0.55
Fluorene	mg/kg	0.05	MCERTS	2.8	2.4	1.3	1.3	0.75
Phenanthrene	mg/kg	0.05	MCERTS	18	14	7.7	9.9	3.7
Anthracene	mg/kg	0.05	MCERTS	5.4	4.9	2.3	3.1	1.1
Fluoranthene	mg/kg	0.05	MCERTS	25	27	13	16	6.2
Pyrene	mg/kg	0.05	MCERTS	23	24	12	15	5.7
Benzo(a)anthracene	mg/kg	0.05	MCERTS	11	12	5.3	7.2	2.8
Chrysene	mg/kg	0.05	MCERTS	11	12	6.1	8	3
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	12	14	7.4	10	3.8
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	4.9	6.5	2.9	3.7	1.8
Benzo(a)pyrene	mg/kg	0.05	MCERTS	11	13	6.8	8.9	3.5
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	6.1	7.5	3.1	4.3	1.7
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	1.2	1.6	0.78	1.1	0.43
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	6.6	7.8	3.8	4.9	2.1

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	143	150	74	95.6	38
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	17	14	17	15	17
Boron (water soluble)	mg/kg	0.2	MCERTS	1.3	0.7	2	1.2	1.5
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	1.6	2.1	1.2	1.2	1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	36	32	32	31	37
Copper (aqua regia extractable)	mg/kg	1	MCERTS	150	130	130	110	100
Lead (aqua regia extractable)	mg/kg	1	MCERTS	400	420	430	260	420
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.7	0.9	0.7	0.6	0.8
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	26	28	25	21	25
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.2	1	1.3	< 1.0	1.1
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	740	700	520	440	770



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Environmental Science

Analytical Report Number: 24-031413

Project / Site name: Victoria North

Your Order No: 11181

Lab Sample Number				260789	260790	260791	260792	260793
Sample Reference				ash fill 1	ash fill 2	ash fill 3	ash fill 4	ash fill 5
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				16/07/2024	16/07/2024	16/07/2024	16/07/2024	16/07/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	2	1.2	< 1.0	1.1	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	17	27	18	8.9	14
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	79	100	65	45	53
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	510	650	430	370	330
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	610	780	510	430	390

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	6.2	2.8	3.3	3.8	6
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	28	27	15	17	9.7
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	130	200	78	86	50
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	420	790	300	340	260
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	590	1000	400	450	320

VOCs

Chloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromomethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl Chloride	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichlorofluoromethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trans 1,2-dichloroethylene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloropropane	µg/kg	5	ISO 17025	< 5.0 **	< 5.0 **	< 5.0 **	< 5.0 **	< 5.0 **
Trichloroethene	µg/kg	5	ISO 17025	8.6	< 5.0	37	11	< 5.0
Dibromomethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromoethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0



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Environmental Science

Analytical Report Number: 24-031413

Project / Site name: Victoria North

Your Order No: 11181

Lab Sample Number				260789	260790	260791	260792	260793
Sample Reference				ash fill 1	ash fill 2	ash fill 3	ash fill 4	ash fill 5
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				16/07/2024	16/07/2024	16/07/2024	16/07/2024	16/07/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Styrene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromoform	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromobenzene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Propylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
tert-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
sec-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p-Isopropyltoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Butylbenzene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Hexachlorobutadiene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 24-031413

Project / Site name: Victoria North

Your Order No: 11181

Lab Sample Number				260794	260795	260796	260797
Sample Reference				NT02 Tank N	NT02 Tank E	NT02 Tank S	NT02 Tank Base
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				16/07/2024	16/07/2024	16/07/2024	16/07/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	31.2
Moisture Content	%	0.01	NONE	12	11	10	12
Total mass of sample received	kg	0.1	NONE	0.8	0.9	0.9	0.8

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.07	0.62	0.11	0.96
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.12
Acenaphthene	mg/kg	0.05	MCERTS	0.08	1.7	1.4	3
Fluorene	mg/kg	0.05	MCERTS	0.05	1.5	1.4	2.9
Phenanthrene	mg/kg	0.05	MCERTS	0.25	9.9	12	17
Anthracene	mg/kg	0.05	MCERTS	0.06	3.1	3.7	5.6
Fluoranthene	mg/kg	0.05	MCERTS	0.34	14	17	19
Pyrene	mg/kg	0.05	MCERTS	0.35	13	14	17
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.17	6	6.4	8.2
Chrysene	mg/kg	0.05	MCERTS	0.17	7	6.1	9.4
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.2	7.6	7.3	8.8
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.08	2.4	3	4.5
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.21	6.6	6.3	8.4
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.09	3.8	2.9	4.2
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.93	0.64	0.87
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.14	4.3	3.2	4.4

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	2.25	82.9	84.9	115
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	4.2	14	4.3	12
Boron (water soluble)	mg/kg	0.2	MCERTS	< 0.2	0.4	< 0.2	0.6
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	0.9	0.2	0.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	8	24	8.4	31
Copper (aqua regia extractable)	mg/kg	1	MCERTS	13	65	13	75
Lead (aqua regia extractable)	mg/kg	1	MCERTS	16	210	18	220
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	0.4	< 0.3	0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	9	24	8.2	22
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	1.1
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	32	330	33	340

Analytical Report Number: 24-031413

Project / Site name: Victoria North

Your Order No: 11181

Lab Sample Number				260794	260795	260796	260797
Sample Reference				NT02 Tank N	NT02 Tank E	NT02 Tank S	NT02 Tank Base
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				16/07/2024	16/07/2024	16/07/2024	16/07/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status				

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	15	2.7	17
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	58	< 8.0	55
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	420	9	380
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	490	12	460

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	3.5	5.6	1.6
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	< 2.0	16	20	13
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	100	85	85
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	540	130	370
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	650	240	470

VOCs

Chloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
Chloroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
Bromomethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl Chloride	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
Trichlorofluoromethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
Trans 1,2-dichloroethylene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloropropane	µg/kg	5	ISO 17025	< 5.0 **	< 5.0 **	< 5.0 **	< 5.0 **
Trichloroethene	µg/kg	5	ISO 17025	< 5.0	24	22	< 5.0
Dibromomethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
1,3-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromoethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0



4041



Environmental Science

Analytical Report Number: 24-031413

Project / Site name: Victoria North

Your Order No: 11181

Lab Sample Number				260794	260795	260796	260797
Sample Reference				NT02 Tank N	NT02 Tank E	NT02 Tank S	NT02 Tank Base
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				16/07/2024	16/07/2024	16/07/2024	16/07/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status				
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
Styrene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
Bromoform	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
Bromobenzene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
n-Propylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
2-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
4-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
tert-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
sec-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
p-Isopropyltoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
Butylbenzene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
Hexachlorobutadiene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 24-031413

Project / Site name: Victoria North

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
260789	ash fill 1	None Supplied	None Supplied	Brown loam and sand with gravel and vegetation
260790	ash fill 2	None Supplied	None Supplied	Brown loam and clay with gravel
260791	ash fill 3	None Supplied	None Supplied	Brown loam and clay with gravel and stones
260792	ash fill 4	None Supplied	None Supplied	Brown loam and clay with gravel
260793	ash fill 5	None Supplied	None Supplied	Brown loam and clay with gravel
260794	NT02 Tank N	None Supplied	None Supplied	Brown sandy loam with gravel
260795	NT02 Tank E	None Supplied	None Supplied	Brown sand with gravel
260796	NT02 Tank S	None Supplied	None Supplied	Brown sand with gravel
260797	NT02 Tank Base	None Supplied	None Supplied	Brown clay and sand with gravel and stones

Analytical Report Number : 24-031413

Project / Site name: Victoria North

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS

Analytical Report Number : 24-031413
Project / Site name: Victoria North

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088	D/W	MCERTS

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

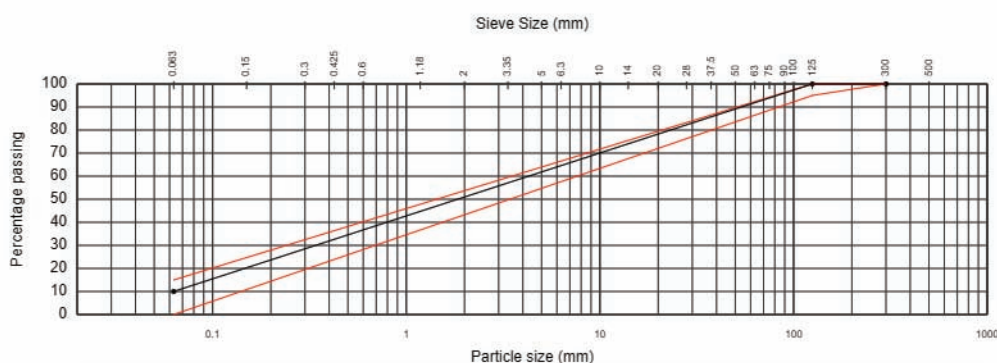
Quality control parameter failure associated with individual result applies to calculated sum of individuals.
The result for sum should be interpreted with caution

- Quality control parameter has a high recovery (outside of limit); however the associated result is below the reporting limit, other checks applied prior to reporting the data have been accepted. The result should be considered as being deviating and may be compromised.

TEST REPORT: DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in accordance with BS 1377 - 2 : 1990, Method 9.2 Washing & Dry Sieving and BS 1377 - 2 : 1990, Method 3.2

REPORT NUMBER:	C1087613 / 299203.3.1.1	CLIENT:	Provectus Remediation Ltd
SAMPLE NUMBER:	470459	ADDRESS:	Regent House , Bath Avenue , Wolverhampton , WV1 4EG
CLIENT REF:	DN6381/1	SITE:	Central Manchester
DATE SAMPLED:	06/06/2024	SOURCE / SUPPLIER:	Ex-Site, N/S
SAMPLED BY:	Client	MATERIAL DESCRIPTION:	Black clayey very sandy GRAVEL (Crushed Brick, Occasional Cobbles)
DATE RECEIVED:	10/06/2024	PROPOSED CLASSIFICATION:	Class 1A
DATE COMPLETED:	19/06/2024	LOCATION:	Ash Fill
TESTED BY:	CL, CA, PC	PREPARATION METHOD:	BS 1377:Part 1:2016 clause 8.3 & 8.4.5
TYPE OF SAMPLE:	Disturbed	SAMPLING PLAN:	Client Specification
VARIATIONS:	No variations	LOCATION AND ORIENTATION WITHIN SAMPLE:	Ash Fill
METHOD OF SAMPLING:	Sampled by client		
ENVIRONMENTAL CONDITIONS:	Overcast		

RESULT Test Location: CTS Doncaster Soils


Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse		
0.020	0.063	0.20	0.63	2.0	6.3	20	63	200
SILT/CLAY	SAND		GRAVEL				COBBLE	BOULDERS

Percentage BOULDERS: 0%
Percentage COBBLES: 0%
Percentage GRAVEL: 70%
Percentage SAND: 20%
Percentage SILT/CLAY: 10%

Applied Specification: Class 1A - Specification for Highway Works (2016) Table 6/2 Earthworks Materials - Class 1A
Specification stated as requested, no indication of conformity applied

SIEVE ANALYSIS

Particle Diameter mm	Passing %	Specification Limits
500	100	
300	100	100 - 100
125	100	95 - 100
100	100	
90	100	
75	100	
63	100	
50	100	
37.5	86	
28	80	
20	72	
14	63	
10	55	
6.3	45	
5	41	
3.35	35	
2	30	
1.18	27	
0.6	24	
0.425	22	
0.3	19	
0.15	13	
0.063	10	0 - 15

Remarks:

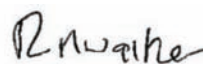
Test results reported relate only to the items tested.
This report shall not be reproduced except in full without approval of the Laboratory.
Opinions and interpretations expressed herein are outside the scope of UKAS Accreditation. The laboratory does not apply a conformity statement to test reports as standard, unless specifically requested by the customer.

Report Format: PSDsoil/TP02/Rep Issue 1 Rev 1 09/23

Bootham Lane Industrial Estate,
Dunscroft,
Doncaster,
South Yorkshire DN7 4JU

0343 227 8545
enquiries@constructiontesting.co.uk
www.constructiontesting.co.uk
END OF REPORT

For and on behalf of CTS
Reece Walker - Senior Technician



Approved Signatory
Report date 05-Jul-24

Construction Testing Solutions Ltd.
Registered in England No. 05998333

Report version 1



4161

CERTIFICATE OF ANALYSIS



Environmental Science

MULTI-SAMPLE
REPORT REFERENCE
11105-2

REGISTERED
DATE
07/05/2024

RECEIVED
DATE
14/05/2024

ANALYSIS
STARTED
15/05/2024

ANALYSIS
COMPLETE
30/05/2024

Replaces certificate of analysis 11105-1

LABORATORY

i2 Analytical
Croxley Green Business Park
7 Woodshots Meadow
Watford
WD18 8YS

CUSTOMER

Provectus Remediation Ltd
Regeant House
Bath Avenue
Wolverhampton
WV1 4EG

AIR VOLUME (L)	81	PO NUMBER	11181
CLIENT CODE	101221	PRE PRINTED BARCODE	749621
CLIENT SITE	Victoria North	SAMPLE REFERENCE	Background 080524
DATE SAMPLED (DD/MM/YY)	09/05/2024		

Matrix: Tenax TD Tube

Determinand	Technique	LOD	i2 Sample Number	
			Accreditation	765096
Misc Charge	T352	0.0	None	Complete
Number of significant peaks	T352	0.0	None	45
Total VOC (excluding Targets)	T352	10.0 ng	None	2200
Total VOC (excluding Targets) mg/m3	T352	0.0 mg/m3	None	0.0275
VOC TIC1 Quant	T352	10.0 ng	None	480 - Benzoic Acid
VOC TIC1 Quant mg/m3	T352	0.0 mg/m3	None	0.0059
VOC TIC10 Quant	T352	10.0 ng	None	190 - Nonanal
VOC TIC10 Quant mg/m3	T352	0.0 mg/m3	None	0.0024
VOC TIC11 Quant	T352	10.0 ng	None	190 - 2,3-dihydro-5-methyl-1H-Indene
VOC TIC11 Quant mg/m3	T352	0.0 mg/m3	None	0.0023
VOC TIC12 Quant	T352	10.0 ng	None	180 - Acetophenone
VOC TIC12 Quant mg/m3	T352	0.0 mg/m3	None	0.0023
VOC TIC13 Quant	T352	10.0 ng	None	170 - Benzaldehyde
VOC TIC13 Quant mg/m3	T352	0.0 mg/m3	None	0.0021
VOC TIC14 Quant	T352	10.0 ng	None	160 - Naphthalene
VOC TIC14 Quant mg/m3	T352	0.0 mg/m3	None	0.0019
VOC TIC15 Quant	T352	10.0 ng	None	160 - 1,2,4-trimethyl benzene ⁴⁷⁵
VOC TIC15 Quant mg/m3	T352	0.0 mg/m3	None	0.0019
VOC TIC16 Quant	T352	10.0 ng	None	150 - 1,2,3,4-tetrahydro-naphthalene
VOC TIC16 Quant mg/m3	T352	0.0 mg/m3	None	0.0018
VOC TIC17 Quant	T352	10.0 ng	None	140 - Decane
VOC TIC17 Quant mg/m3	T352	0.0 mg/m3	None	0.0017
VOC TIC18 Quant	T352	10.0 ng	None	140 - m/p-Xylene
VOC TIC18 Quant mg/m3	T352	0.0 mg/m3	None	0.0017
VOC TIC19 Quant	T352	10.0 ng	None	130 - 1-methyl-2-(2-propenyl)-benzene
VOC TIC19 Quant mg/m3	T352	0.0 mg/m3	None	0.0016
VOC TIC2 Quant	T352	10.0 ng	None	410 - Dodecane
VOC TIC2 Quant mg/m3	T352	0.0 mg/m3	None	0.0050
VOC TIC20 Quant	T352	10.0 ng	None	120 - 3-methyl undecane
VOC TIC20 Quant mg/m3	T352	0.0 mg/m3	None	0.0015
VOC TIC3 Quant	T352	10.0 ng	None	330 - 6-ethyl undecane ⁴⁷⁵
VOC TIC3 Quant mg/m3	T352	0.0 mg/m3	None	0.0040
VOC TIC4 Quant	T352	10.0 ng	None	270 - Undecane
VOC TIC4 Quant mg/m3	T352	0.0 mg/m3	None	0.0033
VOC TIC5 Quant	T352	10.0 ng	None	240 - 2,6-Dimethyl undecane
VOC TIC5 Quant mg/m3	T352	0.0 mg/m3	None	0.0030
VOC TIC6 Quant	T352	10.0 ng	None	230 - Decanal

Determinand	i2 Sample Number			765096
	Technique	LOD	Accreditation	
VOC TIC6 Quant mg/m3	T352	0.0 mg/m3	None	0.0029
VOC TIC7 Quant	T352	10.0 ng	None	230 - 2,3-dihydro-1,1-dimethyl-1H-Indene
VOC TIC7 Quant mg/m3	T352	0.0 mg/m3	None	0.0028
VOC TIC8 Quant	T352	10.0 ng	None	200 - Pentamethyl-benzene
VOC TIC8 Quant mg/m3	T352	0.0 mg/m3	None	0.0025
VOC TIC9 Quant	T352	10.0 ng	None	200 - 3-methyl dodecane
VOC TIC9 Quant mg/m3	T352	0.0 mg/m3	None	0.0025

Technical Reviewer	Role
Mrs Jeanette Abbott	Customer Service Manager
Mrs Kathryn Holt	Senior Customer Service Advisor

Extra Testing Information

Technique Code	Technique Name	Samples
T352	AIR02-1-GCMS-TD	765096

Testing Location	Samples
All analysis was carried out at i2 Analytical (Poland), i2 Analytical Limited Sp z.o.o, Oddział w Polsce, ul.Pionierow 39, 41-711 Ruda Slaska, Poland	765096

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Tests covered by this certificate were conducted in accordance with i2 Analytical's SOPs.

Note: All assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement of uncertainty can be provided on request.

This is a simplified test report

This certificate should not be reproduced, except in full, without the express permission of the laboratory.

Results in black are positive/detected results. Results in gray are below the LOD or have not been found.

LOD = Limit of Determination. This is the lowest reportable limit of the test.

The multi-sample report reference takes the form of [job number]-[version number].

475 - Additional compounds have been identified within 1% of the library best fit.



CERTIFICATE OF ANALYSIS



Environmental Science

MULTI-SAMPLE
REPORT REFERENCE

11481-1

REGISTERED
DATE

04/06/2024

RECEIVED
DATE

20/06/2024

ANALYSIS
STARTED

21/06/2024

ANALYSIS
COMPLETE

01/07/2024

LABORATORY

i2 Analytical
Croxley Green Business Park
7 Woodshots Meadow
Watford
WD18 8YS

CUSTOMER

Provectus Remediation Ltd
Regeant House
Bath Avenue
Wolverhampton
WV1 4EG

CLIENT CODE	101221	PRE PRINTED BARCODE	792051
CLIENT SITE	Victoria North	SAMPLE REFERENCE	TCE 130624
DATE SAMPLED (DD/MM/YY)	13/06/2024	SAMPLING TIME (MIN)	790
PO NUMBER	11181		

Matrix: Tenax TD Tube

Determinand	Technique	LOD	i2 Sample Number 782265	
			Accreditation	
Number of significant peaks	T352	0.0	None	74
Total VOC (excluding Targets)	T352	10.0 ng	None	2500
Total VOC (excluding Targets) mg/m3	T352	0.0 mg/m3	None	7.26
VOC TIC1 Quant	T352	10.0 ng	None	1000 - Benzoic Acid
VOC TIC1 Quant mg/m3	T352	0.0 mg/m3	None	4.11 ⁴⁸³
VOC TIC10 Quant	T352	10.0 ng	None	98 - Benzoyl bromide
VOC TIC10 Quant mg/m3	T352	0.0 mg/m3	None	0.386 ⁴⁸³
VOC TIC2 Quant	T352	10.0 ng	None	1400 - Trichloroethylene
VOC TIC2 Quant mg/m3	T352	0.0 mg/m3	None	6.24
VOC TIC3 Quant	T352	10.0 ng	None	350 - Toluene
VOC TIC3 Quant mg/m3	T352	0.0 mg/m3	None	1.38
VOC TIC4 Quant	T352	10.0 ng	None	210 - Benzaldehyde
VOC TIC4 Quant mg/m3	T352	0.0 mg/m3	None	0.846 ⁴⁸³
VOC TIC5 Quant	T352	10.0 ng	None	150 - m/p-Xylene
VOC TIC5 Quant mg/m3	T352	0.0 mg/m3	None	0.532
VOC TIC6 Quant	T352	10.0 ng	None	130 - Acetophenone
VOC TIC6 Quant mg/m3	T352	0.0 mg/m3	None	0.517 ⁴⁸³
VOC TIC7 Quant	T352	10.0 ng	None	120 - Nonanal
VOC TIC7 Quant mg/m3	T352	0.0 mg/m3	None	0.460 ⁴⁸³
VOC TIC8 Quant	T352	10.0 ng	None	110 - Hexanal
VOC TIC8 Quant mg/m3	T352	0.0 mg/m3	None	0.387 ⁴⁸³
VOC TIC9 Quant	T352	10.0 ng	None	98 - 1,2,4-trimethyl benzene
VOC TIC9 Quant mg/m3	T352	0.0 mg/m3	None	0.386

Technical Reviewer	Role
Mrs Jeanette Abbott	Customer Service Manager
Yacub Mohamed	Customer Service Advisor

Extra Testing Information

Technique Code	Technique Name	Samples
T352	AIR02-1-GCMS-TD	782265

Testing Location	Samples
All analysis was carried out at i2 Analytical (Poland), i2 Analytical Limited Sp z.o.o, Oddział w Polsce, ul.Pionierow 39, 41-711 Ruda Slaska, Poland	782265

The mg/m3 result for the following compounds has been calculated using the passive uptake rate of Toluene
Total VOC (excluding Targets)

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Tests covered by this certificate were conducted in accordance with i2 Analytical's SOPs.
Note: All assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement of uncertainty can be provided on request.
This is a simplified test report
This certificate should not be reproduced, except in full, without the express permission of the laboratory.
Results in black are positive/detected results. Results in gray are below the LOD or have not been found.
LOD = Limit of Determination. This is the lowest reportable limit of the test.
The multi-sample report reference takes the form of [job number]-[version number].
483 - Uptake rate used to calculate mg/m3 is based on Toluene



CERTIFICATE OF ANALYSIS



Environmental Science

MULTI-SAMPLE
REPORT REFERENCE

11732-1

REGISTERED
DATE

04/06/2024

RECEIVED
DATE

15/07/2024

ANALYSIS
STARTED

15/07/2024

ANALYSIS
COMPLETE

23/07/2024

LABORATORY

i2 Analytical
Croxley Green Business Park
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Watford
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CUSTOMER

Provectus Remediation Ltd
Regeant House
Bath Avenue
Wolverhampton
WV1 4EG

CLIENT CODE	101221	PRE PRINTED BARCODE	749745
CLIENT SITE	Victoria North	SAMPLE REFERENCE	TCE 110724
DATE SAMPLED (DD/MM/YY)	13/07/2024	SAMPLING TIME (MIN)	960
PO NUMBER	11181		

Matrix: Tenax TD Tube

Determinand	i2 Sample Number			782266
	Technique	LOD	Accreditation	
Number of significant peaks	T352	0.0	None	43
Total VOC (excluding Targets)	T352	10.0 ng	None	1400
Total VOC (excluding Targets) mg/m3	T352	0.0 mg/m3	None	3.37
VOC TIC1 Quant	T352	10.0 ng	None	1500 - Naphthalene
VOC TIC1 Quant mg/m3	T352	0.0 mg/m3	None	4.05
VOC TIC10 Quant	T352	10.0 ng	None	110 - Toluene
VOC TIC10 Quant mg/m3	T352	0.0 mg/m3	None	0.360
VOC TIC2 Quant	T352	10.0 ng	None	300 - m/p-Xylene
VOC TIC2 Quant mg/m3	T352	0.0 mg/m3	None	0.879
VOC TIC3 Quant	T352	10.0 ng	None	210 - 1-Ethenyl-2-methylbenzene ^{475, 483}
VOC TIC3 Quant mg/m3	T352	0.0 mg/m3	None	0.672
VOC TIC4 Quant	T352	10.0 ng	None	180 - Benzoic Acid ⁴⁸³
VOC TIC4 Quant mg/m3	T352	0.0 mg/m3	None	0.574
VOC TIC5 Quant	T352	10.0 ng	None	140 - Nonanal ⁴⁸³
VOC TIC5 Quant mg/m3	T352	0.0 mg/m3	None	0.445
VOC TIC6 Quant	T352	10.0 ng	None	130 - Ethyl Benzene
VOC TIC6 Quant mg/m3	T352	0.0 mg/m3	None	0.384
VOC TIC7 Quant	T352	10.0 ng	None	120 - 1-ethyl-3-methylbenzene ^{475, 483}
VOC TIC7 Quant mg/m3	T352	0.0 mg/m3	None	0.401
VOC TIC8 Quant	T352	10.0 ng	None	120 - 1,2,4-trimethyl benzene
VOC TIC8 Quant mg/m3	T352	0.0 mg/m3	None	0.350
VOC TIC9 Quant	T352	10.0 ng	None	110 - o-Xylene
VOC TIC9 Quant mg/m3	T352	0.0 mg/m3	None	0.344

Technical Reviewer Role

Mrs Jeanette Abbott	Customer Service Manager
Mrs Kathryn Holt	Senior Customer Service Advisor

Extra Testing Information

Technique Code	Technique Name	Samples
T352	AIR02-1-GCMS-TD	782266

Testing Location	Samples
All analysis was carried out at i2 Analytical (Poland), i2 Analytical Limited Sp z.o.o, Oddział w Polsce, ul.Pionierow 39, 41-711 Ruda Slaska, Poland	782266

The mg/m3 result for the following compounds has been calculated using the passive uptake rate of Toluene
Total VOC (excluding Targets)

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Tests covered by this certificate were conducted in accordance with i2 Analytical's SOPs.
Note: All assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement of uncertainty can be provided on request.
This is a simplified test report
This certificate should not be reproduced, except in full, without the express permission of the laboratory.
Results in black are positive/detected results. Results in gray are below the LOD or have not been found.
LOD = Limit of Determination. This is the lowest reportable limit of the test.
The multi-sample report reference takes the form of [job number]-[version number].
475 - Additional compounds have been identified within 1% of the library best fit.
483 - Uptake rate used to calculate mg/m3 is based on Toluene



STOCKPILE VOLUMES

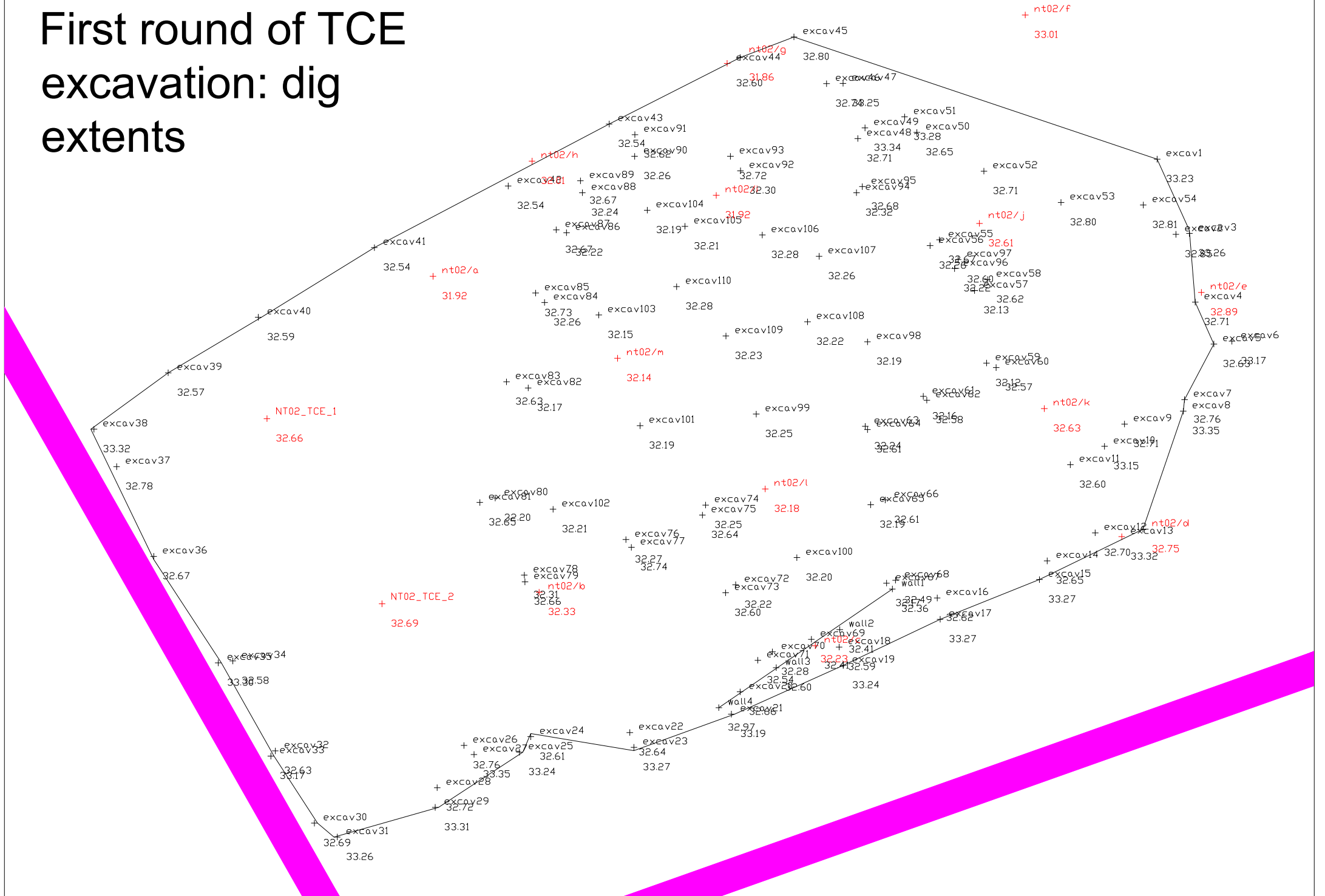
Manchester North
21.06.2024

Legend

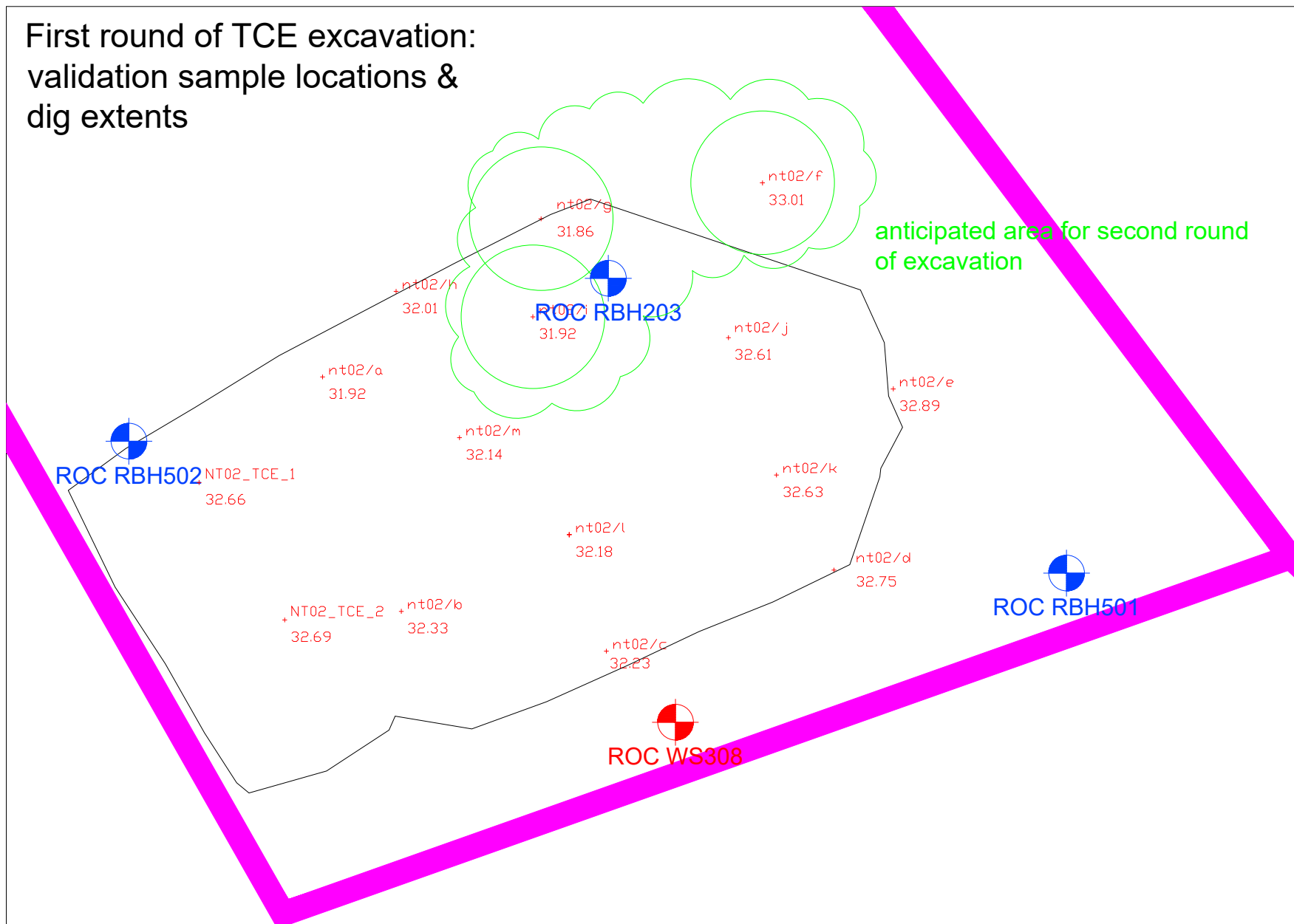
-  STOCKPILE A = 242m³
-  STOCKPILE B = 117m³



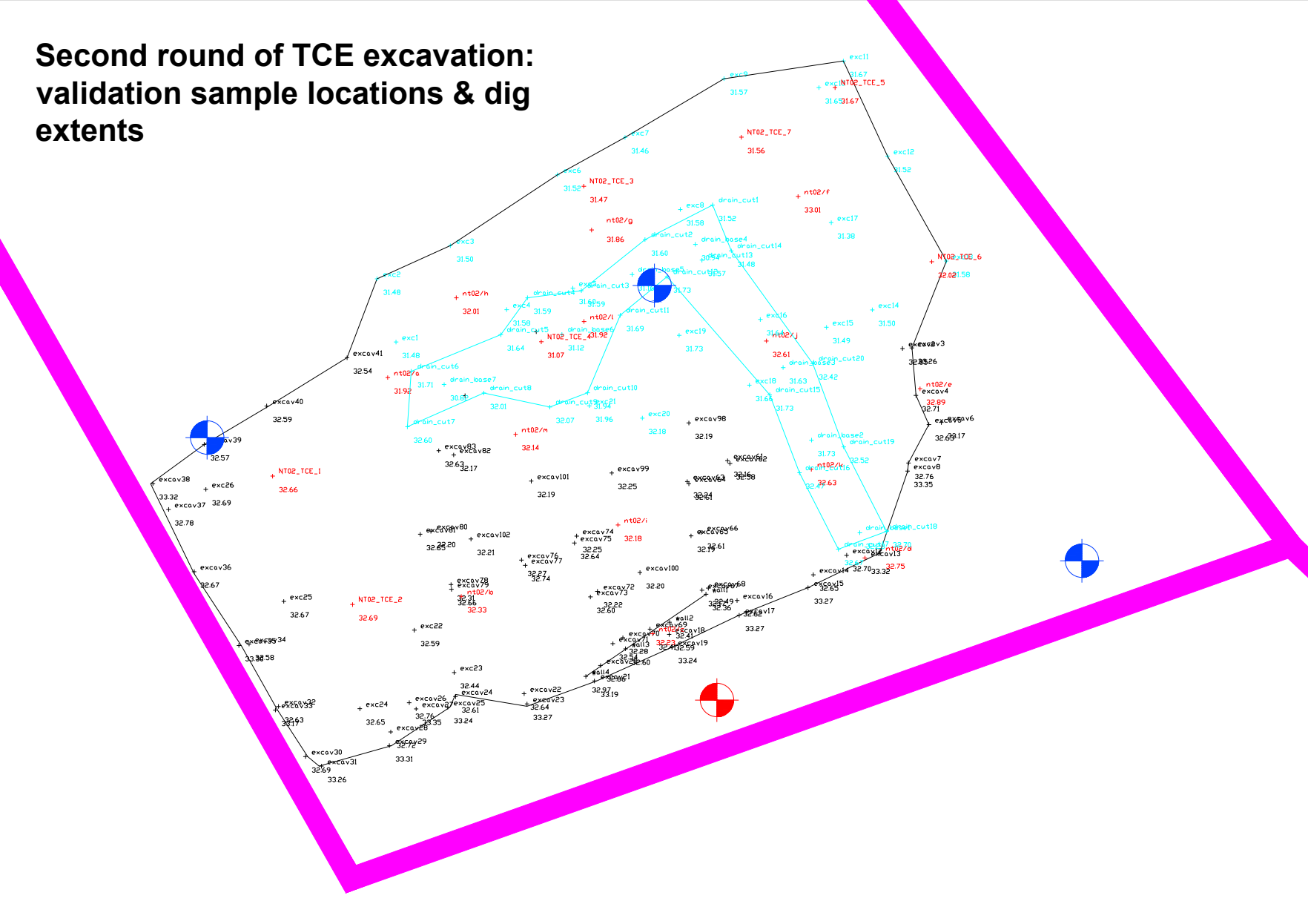
First round of TCE excavation: dig extents



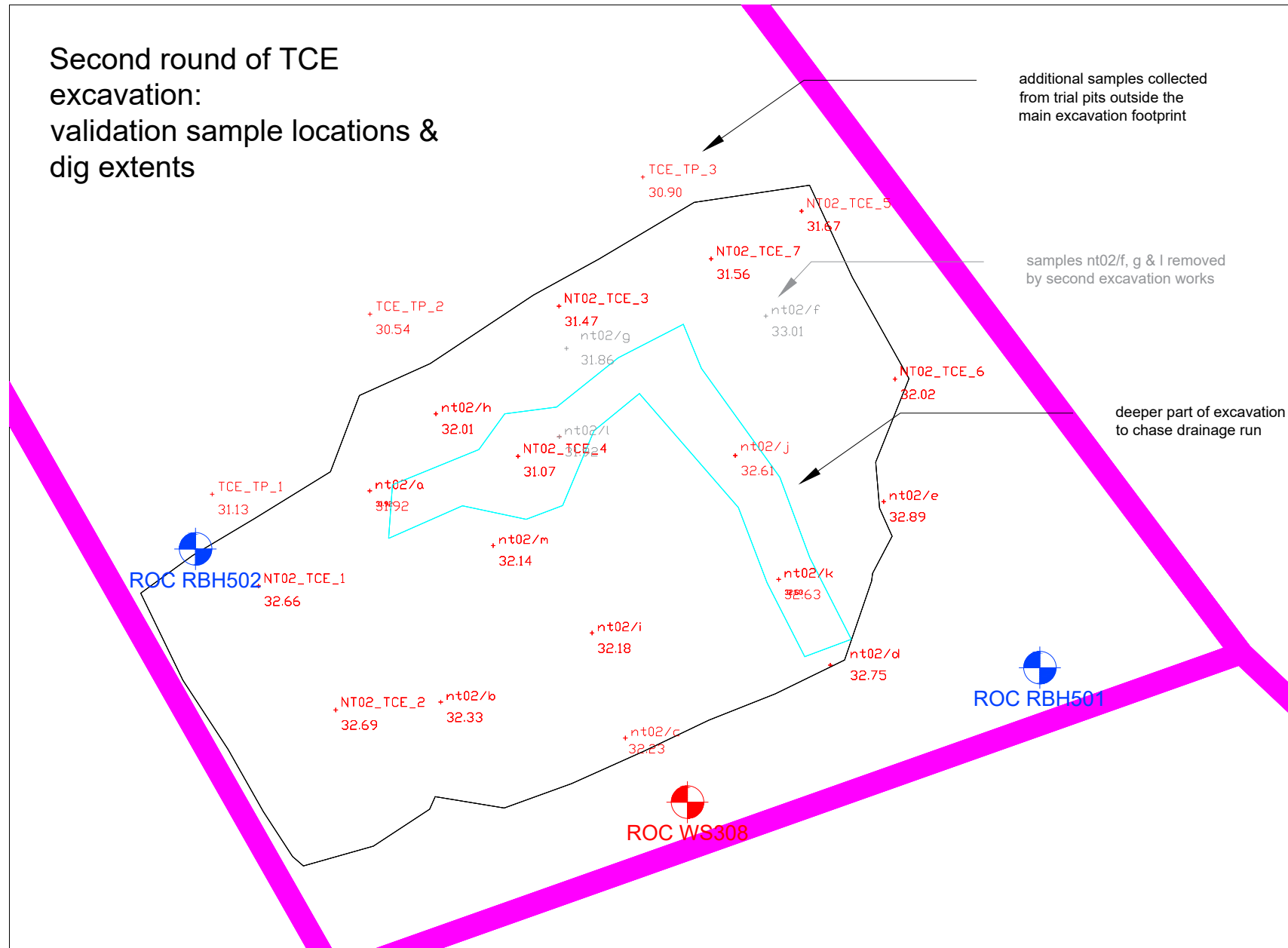
First round of TCE excavation:
validation sample locations &
dig extents



Second round of TCE excavation:
validation sample locations & dig
extents



Second round of TCE
excavation:
validation sample locations &
dig extents





Facing west in TCE area.

First round of excavations. note BH203 and visqueen covered stockpiles to right



Facing north west in TCE area during first round of excavations



Facing east in TCE area. Note standoff from garage retaining wall to right



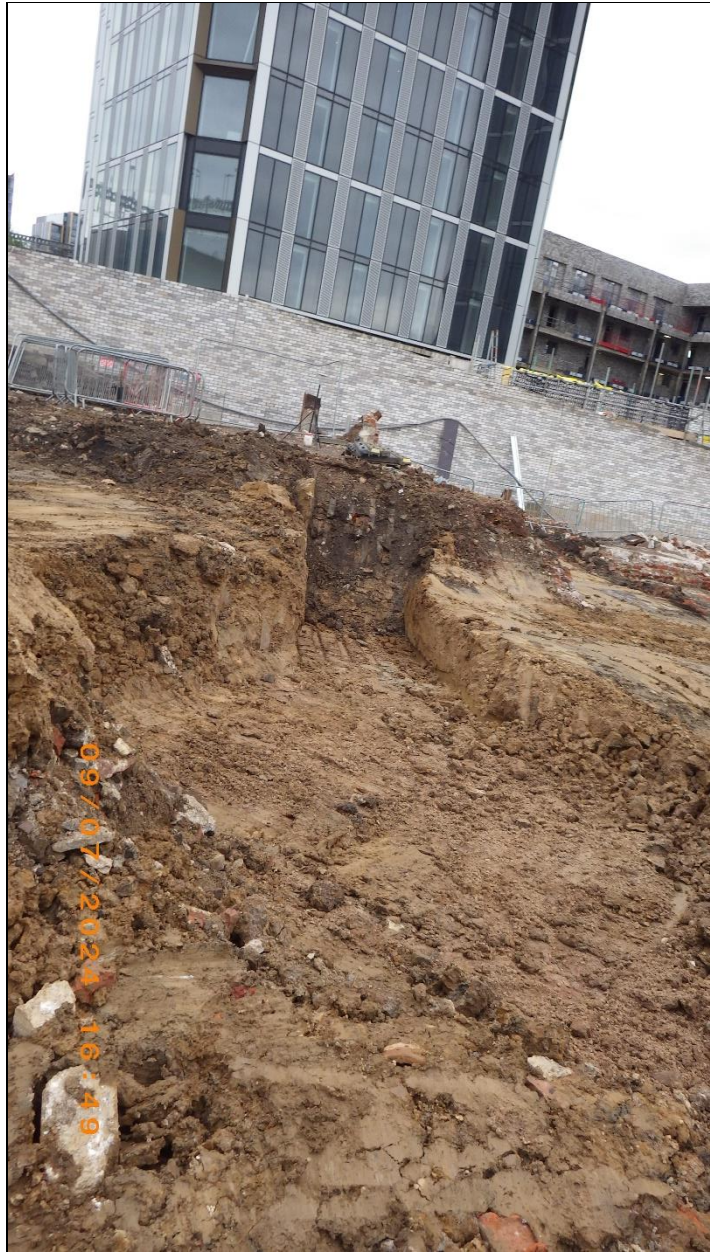
Facing south, note standoff from garage retaining wall



Second round of excavation works: soils being loaded from TCE



Facing east, second round continuing



Facing west, drainage run encountered and excavated



Facing south, TCE area post-upfill. Concrete rings now placed around BHs



BAM Nuttall Limited

ISCR Injection Works, Victoria North, Manchester

Verification Report

171111-R01 (01)

AUGUST 2025



REMEDIATION X GENERAL NOTES

Project No.: 171111-R01 (01)

Title: ISCR Injection Works, Victoria North, Manchester – Verification Report

Client: BAM Nuttall Limited

Date: July 2025

Office: Bristol

Status: FINAL

Author	Muhammad Zahid	Technical reviewer	Felipe Couto
Signature		Signature	
Date:	26 August 2025	Date:	26 August 2025
Project manager	Pete Findon	Quality reviewer	Pete Findon
Signature		Signature	
Date:	26 August 2025	Date:	26 August 2025

RemedX Ltd (RemedX) has prepared this report for the sole use of the client, showing reasonable skill and care, for the intended purposes as stated in the agreement under which this work was completed. The report may not be relied upon by any other party without the express agreement of the client and RemedX. No other warranty, expressed or implied, is made as to the professional advice included in this report.

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Where field investigations have been carried out, these have been restricted to a level of detail required to achieve the stated objectives of the work.

This work has been undertaken in accordance with the quality management system of RemedX Ltd.

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FIGURES

APPENDICES

1 INTRODUCTION

1.1 Background

RemedX Limited (RemedX) was commissioned by BAM Nutall Ltd (BAM), to carry out remediation works at the NT02 Victoria North site, which is proposed to be redeveloped into high and medium rise residential property.

The works have been completed in line with the agreed specification and this report details the results from the works.

This report should be read in conjunction with the following reports:

- RemedX Ltd, BAA.210 Victoria North, Remediation Method Statement, ref. 171086 R02 (02) dated October 2024
- RemedX Ltd, BAA.210 Victoria North, Remediation Implementation Plan, ref. 171086 R01 (00) dated July 2024

1.2 Site description / location

The site covers a total area of approximately 2.30 hectares and is located to the south of Dantzic Street, Manchester. The subject plot, NT02, is a rectangular parcel of land that lies in the western part of the site. The total area of the subject plot is approximately 0.32 hectares.

The subject plot mostly comprise of loose ground with a platform of made ground on the eastern part of the plot for mobile plant used during this remediation activity.

The Site is located within a residential and commercial setting. Immediate surrounding land uses are described in Table 1, below.

North	Dantzic Street
East	Remaining site area
South	Railway Lines
West	Victoria Riverside high-rise apartments

Table 1: Land uses surrounding plot NT02

The River Irk, flowing northeast to southwest lies approximately 21 meters to the north of the site. The site was understood to have been previously occupied by light industrial buildings, which have now been demolished. The site location plan is shown on Figure 1.

1.3 General project objectives

The remediation strategy is detailed within the RSK Geosciences, Plots NT02, NT03 and NT04, Northern Gateway, Dantzic Street, Phase 3a Detailed Remediation Strategy Report, Ref. 11834 R02 (04), dated February 2024.

The Remediation Strategy deals with the removal of primary and secondary contamination source in terms of impacted unsaturated soils, asbestos impact and general remedial works across the entire site. These works will be undertaken by others.

With specific relevance to groundwater remediation within plot NT02 which the scope of the ISCR works comprises, the Remediation Strategy identifies impact to the underlying principal aquifer of Cheshire Sandstone by trichloroethene (TCE), dichloroethane (DCE), vinyl chloride (VC) and carbon tetrachloride (CTC), with TCE and CTC being the main drivers for remediation. It is noted within the Remediation Strategy that the presence of TCE in the form of dense non-aqueous phase liquid (DNAPL) has not been detected during any monitoring of the groundwater body undertaken to date, including within the lowest elevation point available to monitor.

As such, following an options appraisal undertaken for the site, RSK Geosciences, Plot NT02-NT04 Northern Gateway, Dantzic Street, Remediation Strategy Report, ref. 11834 R01 (00), dated August 2023, it was determined that in situ chemical reduction (ISCR) be the preferred remediation technology to be deployed at the site to address the above contaminants of concern.

The specific objective of the ISCR works was to deliver reagents capable of producing reducing conditions within the target saturated zone, for the long term treatment of the contaminants of concern, to be monitored by others.

1.4 Summary of remediation method

1.4.1 Injection well installation

A total of 22 injection wells were installed on a regular grid covering the identified target area. Upon completion of the baseline monitoring, a further total of 4 new multipurpose monitoring and injection wells were requested to be installed, refining the site conceptual model and providing additional delineation of the plume on site.

1.4.2 Baseline monitoring

Upon completion of the injection wells, all wells were subjected to a baseline groundwater monitoring and sampling for laboratorial testing. Groundwater was tested on site for the presence of DNAPL and key geochemistry parameters including ORP, pH and dissolved oxygen, with groundwater samples taken from all wells for laboratorial analysis for target compounds.

1.4.3 Injection of reagents

Based on results from the bench trials and direct push field trials, reported within the referenced RemedX reports in Section 1.1, a fermentable carbon source enhanced reductive dechlorination (ERD) reagent plus water-soluble dual-valent iron (DVI) and anti-methanogenic reagent was selected to be used to enhance the in situ dechlorination

treatment on site. The delivery of reagents was achieved via dedicated injection wells installed to facilitate the injection and enable the distribution of the reagents in the subsurface within the target area.

The reagents were delivered to subsurface with the aid of clean water to the desired dosage and solution concentration. The water was de-oxygenated with the use of sodium sulfite to maintain lower levels of dissolved oxygen, keeping the water anoxic. A initial total of 22 tonnes of ERD was required to meet the prescribed average 0.2% dosage in mass, with anticipated solution concentration ranging between 10% and 15% to facilitate the injection process. A further 4 tonnes of ERD was later injected in a final injection event, following the installation of the four new injection/monitoring wells.

An injection system was mobilised to site comprising mixing tanks, water storage tanks, injection pumps and control manifold with valves and pressure gauges. The injection wells were connected to the control manifold via dedicated injection pipework and well heads. The well head contained pressure relief valves, pressure gauges and drop pipe to the target depth thus minimising agitation within the well.

During injection the newly installed wells and existing wells were observed for changes in the groundwater geochemistry and the distribution of reagents in the subsurface.

1.4.4 Monitoring and verification

Immediately following injection, groundwater was monitored for changes in geochemistry to ascertain the behaviour of reagents in the subsurface and confirm trends in ORP, pH and DO in first instance. Changes in the geochemistry and knowledge of the chemical reaction from the bench scale trials were reported to help inform the post remediation verification monitoring, to be undertaken by others. Intermediate groundwater samples were collected from selected wells within the plume for laboratorial testing, to indicate if contaminant reductions were occurring. Visual inspection of the wells for the presence of reagents were also used as line of evidence of successful injection and distribution of reagents in the subsurface.

1.4.5 Microbial profiling

In order to provide further evidence to support the remediation works and the likelihood for ongoing microbial degradation of contaminants post injection, samples were taken from selected wells before and after the injection works for microbial counting and profiling. The results provided lines of evidence over and above those listed within the remediation method statement and implementation plan, confirming the successful implementation of the works.

1.5 Limitations

The comments provided in this report and the opinions expressed are based on the available information that was gathered during the works, completed and assessed by RemedX.

However, there may be conditions pertaining to the site that have not been revealed by the works and therefore could not be taken into account during the completion of this report.

RemedX has only provided comment on works conducted and completed by RemedX.

2 INJECTION OF REAGENTS

2.1 Injection well installation

Two separate drilling activities were conducted at the site to install remediation injection wells. The first drilling activity commenced in December 2024, with a total of 22 injection wells installed. Towards the end of the initial injection phase, based on findings of the baseline monitoring, the scope of the works was revised to include 4 new multipurpose monitoring and injection wells for further delineation and targeted injection towards the northern part of the plume. The additional wells were installed in March 2025.

All wells were drilled to maximum depths ranging between 13-15 mbgl. The well location plan is shown on Figure 2. The borehole logs for each of the remediation wells are presented in Appendix A.

2.2 Procurement of chemicals

There were two main components that were injected:

1. Trace Water: a solution of water and sodium sulphite. The purpose of this was to deplete dissolved oxygen in the water used for injection, creating an anoxic solution.
2. Reagents: combination of Enhanced Reductive Dechlorination (ERD) amendment and Dual Valent Iron (DVI).

The amount of chemicals procured for this project is summarised in Table 1, below, and the safety datasheets for these can be found in Appendix H.

Chemical	Amount (kg)
ERD Amendment	26,000
Dual Valent Iron	1950
Sodium sulfite	35

Table 1 – Reagent quantities

2.3 Injection works

The aim of the injection activity was to deliver the ERD reagent and the DVI into the targeted contaminant plume area. The quantity of reagents were decided based on the bench scale trials, with the injection schedule further refined based on baseline conditions and observations during the works.

The injection works started on site on 10 February 2025 and was completed in June 2025.

The injection was divided into two phases to enhance the distribution of the chemicals in the ground and to facilitate monitoring of physical parameters during injection. A third

injection phase was later implemented to target the new 4 injection wells installed in March 2025.

Initially, the injection procedure in each well was decided as follows:

1. Injection of trace water;
2. Injection of reagents (average 0.5m³/well/phase), and;
3. Post injection flush injection with trace water.

At the early stages of the injection works, injection wells were constantly monitored to assess any discernible difference in geochemical properties at some distance from the injection wells thus providing additional information concerning injection rates and radius of influence.

It became apparent that due to the site low transmissivity geology and the viscous nature of the reagents, backpressure was gradually building up forcing the injection to stop to avoid fracturing of the fractures within the targeted geology. The injection process was revisited with reagents further diluted with trace water to 50% of its original concentration thus reducing viscosity and allowing the injection to proceed successfully. This resulted in each well being subject to four injection events as opposed to two as originally thought.

The revised injection procedure was as follows:

1. Injection with trace water;
2. Injection of diluted reagent to 50% with trace water;
3. Post injection flush with trace water

The above was repeated four times.

Phase 1 of injection was completed at the end of February 2025 with all wells (RXI01 to RXI22) targeted. During Phase 1, geochemical groundwater parameters were monitored before the start of and after finishing the injection procedure in each well developing lines of evidence to demonstrate successful injection and distribution of reagents in the subsurface thus confirming the methodology was correct for the site conditions. Another round of geochemical groundwater parameter monitoring was conducted in each of the injection and monitoring wells after the completion of Phase 1.

Phase 2 of the injections was conducted using the same methodology as the revised injection procedure described above with all injection wells (RXI01 to RXI22) targeted. Phase 2 was completed in 15 May 2025 with 4m³ of reagents left over to be used as a polishing stage upon completion of the post injection geochemistry monitoring. The final 4m³ injected into selected wells based on their geochemistry between 13 May and 15 May 2025.

A final, Phase 3 injection, was carried out from 13 June to 15 June 2025 targeting the 4 new injection wells installed in the northern part of the site.

A summary of the quantities of reagents injected at each well is presented in Table 2 below, while the injection reagent volumes and dates are presented in Appendix B.

Well I.D.	Volume Injected (litres)	
	ERD	Trace Water
RXI001	1000	8224
RXI002	1125	8325
RXI003	1500	11900
RXI004	375	2300
RXI005	1000	8250
RXI006	1925.5	13725.5
RXI007	575	4495
RXI008	1675	12925
RXI009	88	309
RXI010	1000	7900
RXI011	1040	8917
RXI012	1040	9170
RXI013	392	2922
RXI014	1514.5	11714.5
RXI015	750	5650
RXI016	1000	7900
RXI017	500	4200
RXI018	1000	7900
RXI019	1000	7036
RXI020	1000	7936
RXI021	1000	8221
RXI022	1000	7905
RXI023	1000	7400
RXI024	1000	7400
RXI025	1000	7400
RXI026	1500	11100
Total	26000	201125

Table 2 – Injection Volume Summary

2.4 Groundwater geochemistry monitoring

The geochemistry monitoring was carried out using a YSI multiparameter probe and the following parameters were monitored throughout the duration of the project:

- Temperature (°C)
- pH
- ORP (mV)
- Dissolved oxygen (mg/L)
- Conductivity (µS/cm)

Monitoring readings were taken at the following points of the project

- 15 January to 23 January 2025 - immediately after the first well installation activity was completed. These readings were considered baseline for the remediation well array.
- 10 February to 26 February 2025 - taken before and immediately after the Phase 1 injection into each of the wells.
- 3 March 2025 - taken after all of the wells had received their Phase 1 injection as a completion exercise.
- 20 March to 21 March 2025 - taken after all of the wells had received their Phase 2 injection as a completion exercise.
- 9 April to 15 April 2025 - taken after the development of the new 4 wells drilled on the site. The readings taken from the new wells were considered baseline for the additional wells installed.
- 30 April to 1 May 2025 - taken after the injection of 0.5 m³ of trace water in each well from above the water table.

Readings were taken every second using a YSI multiparameter probe and recorded when they were deemed to be stable, i.e. little to no fluctuations between similar values in a specific time range. A summary of the readings for some of the key parameters obtained during these monitoring events is presented in Table 3, below.

The full monitoring tables are attached in Appendix B and the surfer plots of the key parameters are attached in Appendix C.

Well I.D.	Date	Dissolved Oxygen (mg/l)	ORP (mV)	pH
RXI001	16-Jan	2.835	340.6	6.47
	10-Feb	5.41	126.3	6.41
	10-Feb	-0.18	202.8	2.92
	11-Feb	0.02	97.2	6.3
	20-Mar	5.11	-2.2	6.08
	14-Apr	4.79	-55.6	6.24
	01-May	4.07	-28.2	6.41
RXI002	21-Jan	0.063	5.87	6.78
	13-Feb	0.477	153.7	5.98
	13-Feb	-0.01	208	6.31
	17-Feb	-0.01	-126.5	5.86
	20-Feb	0.46	-71	6.77
	03-Mar	0.39	-226.5	5.88
	21-Mar	0.33	-334.1	5.8
	14-Apr	0.43	-41.4	5.93
	01-May	0.19	-18.1	6.23
RXI003	21-Jan	0.126	138.4	6.52
	16-Feb	0.12	220.1	5.3
	16-Feb	0.05	240.5	5.99
	17-Feb	0.03	122.1	5.57
	20-Feb	2.65	-11	5.98
	03-Mar	0.9	-83.9	5.98
	21-Mar	0.23	-102	6.17
	10-Apr	7.04	-147	6.17
	30-Apr	0.22	-103	6.13
RXI004	21-Jan	2.655	87.4	6.44
	12-Feb	4.2	2.4	6.66
	12-Feb	0.03	-120	5.43
	20-Feb	0.35	-92.5	6.02
	03-Mar	1.67	-60.1	6.04
	21-Mar	1.6	-47.8	5.87
	15-Apr	0.18	-59.2	5.95
	30-Apr	1.28	-148.5	5.86
RXI005	15-Jan	2.394	48.5	6.69
	17-Feb	1.46	30.9	6.67
	03-Mar	1.84	-67.2	6.12
	20-Mar	0.7	-35.5	5.73
	11-Apr	0.15	-127.5	6.23
	01-May	0.17	-17.4	6.35

Table 3 – Key parameter monitoring data

Well I.D.	Date	Dissolved Oxygen (mg/l)	ORP (mV)	pH
RXI006	16-Jan	1.062	131.3	6.61
	24-Feb	3.07	146.5	6.84
	25-Feb	1.45	-182.2	7.07
	03-Mar	0.52	-31.7	5.9
	20-Mar	0.43	22.4	5.9
	14-Apr	8.75	-55.8	6.43
	01-May	3.33	19.3	6.14
RXI007	17-Jan	0.666	86.4	9.97
	25-Feb	0.51	45	7.65
	26-Feb	2.88	-6	7
	03-Mar	0.47	-132	6.12
	20-Mar	0.4	-151	5.99
	14-Apr	3.63	-85.5	6.19
	01-May	3.91	19	5.85
RXI008	21-Jan	0.045	16	6.53
	25-Feb	2.19	5.5	6.73
	26-Feb	2.11	-83	3.62
	03-Mar	0.19	-83.8	5.67
	21-Mar	0.38	-58	5.7
	15-Apr	4.86	-50.7	6
	01-May	0.13	-19	6.17
RXI009	23-Jan	3.159	156.6	6.57
	24-Feb	6.22	153.2	6.7
	03-Mar	0.38	-32.4	6.27
	21-Mar	0.44	-35.7	6
	15-Apr	0.76	-35.7	6
	30-Apr	0.9	-124.8	5.86
RXI010	16-Jan	2.943	14.8	6.72
	26-Feb	6.12	-79.3	6.82
	27-Feb	0.96	-78	7.24
	03-Mar	0.32	-90.7	5.81
	20-Mar	0.48	-11.9	5.47
	01-May	0.1	-115.3	6.05
RXI011	16-Jan	0.405	45.5	6.66
	18-Feb	0.51	45	7.65
	20-Feb	0.69	-74.7	6.24
	03-Mar	0.28	-260.6	5.25
	20-Mar	0.33	-293.8	5.87
	14-Apr	0.89	-112.5	6.31
	01-May	0.33	-61.4	6.24

Table 3 – Key parameter monitoring data (cont)

Well I.D.	Date	Dissolved Oxygen (mg/l)	ORP (mV)	pH
RXI012	21-Jan	0.036	-62.9	6.66
	20-Feb	0.32	-148.5	7.19
	03-Mar	0.28	-248.7	5.97
	20-Mar	0.22	-289.4	5.2
	14-Apr	0.14	-127.7	6.28
	01-May	3.99	-7	5.9
RXI013	21-Jan	0.468	156.2	6.48
	17-Feb	0.34	92.6	6.48
	03-Mar	1.21	-61.9	6.13
	21-Mar	0.5	-52.7	6.12
	15-Apr	0.26	-75.1	5.85
	01-May	0.42	-44.4	6.12
RXI014	16-Jan	1.998	147.5	6.67
	26-Feb	2.56	-28	6.69
	27-Feb	0.86		6.59
	03-Mar	0.45	-21.9	5.75
	20-Mar	0.55	-2.1	5.29
	15-Apr	0.22	-77.5	6.36
	01-May	0.19	14.7	6.21
RXI015	17-Jan	0.513	77.4	6.59
	26-Feb	2.14	-144	6.75
	27-Feb	0.96	-53.3	7.73
	03-Mar	0.4	-8.2	5.49
	20-Mar	0.43	-41.1	5.98
	14-Apr	0.22	-120.8	6.14
	01-May	0.2	71.6	5.64
RXI016	23-Jan	3.735	136.5	6.76
	26-Feb	6.32	-80.3	6.86
	27-Feb	1.21	-96.5	7
	03-Mar	0.21	-44	6.02
	21-Mar	0.4	-24.1	5.85
	15-Apr	2.63	-39.3	5.9
	01-May	2.66	-1.6	6.23
RXI017	20-Jan	0.567	113.8	6.69
	26-Feb	2.41	-70.5	6.75
	28-Feb	0.57	62.9	7.25
	03-Mar	0.49	-11.2	5.58
	20-Mar	0.44	-45.1	5.6
	15-Apr	5.62	-58.6	6.32
	01-May	0.27	-10.7	6.28

Table 3 – Key parameter monitoring data (cont)

Well I.D.	Date	Dissolved Oxygen (mg/l)	ORP (mV)	pH
RXI018	20-Jan	4.23	169.6	6.79
	26-Feb	3.23	-126.8	6.8
	28-Feb	0.74	87.5	7.35
	03-Mar	0.4	-51.5	6.32
	21-Mar	0.34	-62.7	6.29
	15-Apr	0.77	-56.3	6.21
	01-May	1.05	-28.1	6.35
RXI019	16-Jan	6.381	223.3	6.75
	19-Feb	6.26	111.9	6.84
	03-Mar	0.51	40.2	5.98
	20-Mar	0.52	-10.6	5.62
	11-Apr	0.17	-146	6.16
	01-May	0.17	10.4	6.09
RXI020	17-Jan	1.413	130.8	6.65
	20-Feb	2.21	-110.5	6.7
	25-Feb	0.73	19.3	7.64
	03-Mar	0.78	-3	5.86
	20-Mar	0.43	-38.3	5.73
	11-Apr	8.57	-106.4	6.23
	01-May	0.58	-48.1	6.14
RXI021	20-Jan	3.285	132.1	6.77
	20-Feb	2.97	60.7	3.52
	25-Feb	0.83	73.1	6.87
	03-Mar	0.3	-40.4	6.61
	21-Mar	0.38	-45.7	6.28
	11-Apr	0.22	-138.3	6.52
	01-May	0.28	-3.4	6.33
RXI022	20-Jan	4.293	153.7	6.83
	19-Feb	5.22	150.7	6.85
	03-Mar	0.86	-33.7	6.51
	21-Mar	0.66	-42.9	6.17
	11-Apr	8.84	-128.1	6.44
	01-May	0.24	-11.7	6.29
RXI023	09-Apr	0.14	-146.4	6.85
RXI024	09-Apr	0.14	-161	6.96
RXI025	09-Apr	0.28	-168.3	7.07
RXI026	09-Apr	0.96	-145.2	6.89

Table 3 – Key parameter monitoring data (cont)

The results from the geochemistry monitoring confirmed the groundwater changes into a more anoxic and reductive environment during the course of the works, creating favourable conditions to reductive dechlorination.

2.5 Groundwater Sampling

Baseline and intermediate sampling were completed during the works to inform the verification of the works. The baseline sampling was completed to inform the extent and magnitude of the plume prior to commencing the remediation works. Intermediate samples were taken during the works from selected wells to monitor the immediate effect of the remediation process on the contaminant profile. The wells selected were historically known as contaminant hotspots and so would give an indication of the extent of the remediation progress. Groundwater sampling events were completed as follows:

- 24 January 2025 – baseline sampling completed immediately after the installation of the initial 22 injection wells. All 22 of the newly installed wells were sampled, in addition to LKBH01, BH503, BH501, BH502 and BH203
- 9 to 10 April 2025 - 8 wells were sampled immediately after the 4 new wells were installed with samples collected from RXI003, BH203, BH503, LKBH01, RXI023, RXI024, RXI025, and RXI026. The samples collected from the newly installed wells (RXI023 to 26) were considered baseline for the addition in the remediation well array. Samples RXI003 and BH203 were intermediated samples to assess initial changes in chemical concentrations post injection. The new wells were used for delineation of the source area and provide baseline conditions for these new wells.
- 2 May 2025 - 3 additional intermediate samples were collected from RXI006, RXI019, and RXI022

The samples were analysed by Envirolab to determine the concentration of the contaminants in the groundwater. Lab certificates can be found in Appendix E and full analysis results can be found in Appendix F.

Figures 3A, 3B, 3C, 3D, and 3E show the baseline concentrations of the five contaminants of concern plotted as a plume in GWSDAT. It can be observed from these figures that the initial concentrations were exceedingly high.

The groundwater sampled from the monitoring wells and the remediation well array during the second and third sampling event provided an insight into the effectiveness of the injection process by comparison with the baseline results.

The four new boreholes provided good delineation for TCE, a concern that was raised based on the baseline results. However, they show the presence of DCE and VC that are breakdown products of the TCE, providing a more detailed understanding of the extent of the plume in the area. It is difficult to ascertain if the DCE and VC are solely associated with historical degradation or whether there is already some influence of the initial remediation works, however it is considered very positive seeing breakdown products as it is demonstrative of the intended breakdown process occurring.

Particularly concerning DCE, the new boreholes provided a new understanding of the plume geometry at the western part of the site, with the centre of mass at RXI026 with 676ug/l concentration. This result indicates the potential for contamination to be present off site. Sampling of existing boreholes LKBH01 and BH503 proved to continue to provide boundary delineation but also show a downward trend in concentrations for the different parameters of concern, a positive trend. It should be noted that localised increases of VC are expected as TCE and DCE breaks down

Two additional samples were obtained for analysis from RXI03 and RBH203 in order to ascertain whether there were any interim changes within the injection area. Both results show reduction for all compounds, which is encouraging.

Spatial GWSDAT plots of the concentration of contaminants in the samples taken on their respective dates including historical data were plotted and can be found in Appendix G.

2.6 Identified presence of reagent in boreholes

In order to principally assess the physical distribution of reagents within the subsurface post injection, each injection and monitoring well was monitored using a down hole bailer to provide visual confirmation of the presence of the reagent. The presence of reagent in particular on monitoring wells within the injection area or injection wells yet to be injected are good indicators of the distribution of reagents. The reagent is partially composed of an edible oil, and therefore an observable layer of oil above the groundwater tends to form post injection.

A selection of photos of the wells as monitored are presented below in plates 1 to 4, for reference.



Plate 1 – RXI001



Plate 2 – RXI022



Plate 3 – RXI017



Plate 4 – RBH203

2.7 Microbial profiling

In October 2024, groundwater samples were taken from wells LKBH01, BH203 and BH503 using low flow sampling technique before any drilling works took place in order to determine the quantity of halorespiring bacteria inhabiting the aquifer, as well as the presence of any functional genes that are responsible for or a key part of both aerobic and anaerobic degradation of chlorinated solvent compounds.

In June 2025, upon completion of the injection works, samples were taken from wells BH503, BH203, as well as RXI006 and RXI026 to evaluate if changes in the microbial profiling occurred following the injection of reagents into the subsurface.

A comparison table of pre and post remediation population for the common boreholes across the two sampling events, BH203 and BH503, is provided with comment in Table 4, below. Key increase in microbial population is highlighted in bold and yellow. It is worth noting that BH203 is located within the injection area whilst BH503 is located circa 40m downgradient from the target area. Results for RXI06 and RXI026 are also discussed below.

The full set of microbial analysis before and after remediation can be found in Appendix H.

Parameter	RBH503 Oct 2024	RBH503 June 2025	RBH503 Status	RBH203 Oct 2024	RBH203 June 2025	RBH203 Status	RXI 006 June 2025	RXI 026 June 2025
	Cells/mL	Cells/mL	+/-	Cells/mL	Cells/mL	+/-	Cells/mL	Cells/mL
Reductive Dechlorination								
Dehalococcoides (DHC)	5.50E+01	2.30E+01	Decreased	<2.50E-01	<5.00E-01	Increased	3.70E-01	<2.50E+00
tceA Reductase (TCE)	<9.60E-01	2.60E+00	Increased	<2.50E-01	<5.00E-01	Increased	<5.00E-01	<2.50E+00
BAV1 Vinyl Chloride Reductase (BVC)	<9.60E-01	1.10E+01	Increased	<2.50E-01	<5.00E-01	Increased	<5.00E-01	<2.50E+00
Vinyl Chloride Reductase (VCR)	3.60E+01	2.20E+01	Decreased	<2.50E-01	<5.00E-01	Increased	<5.00E-01	<2.50E+00
Dehalobacter spp. (DHBt)	3.70E+01	1.30E+03	Increased	<2.50E-01	2.20E+05	Increased	2.20E+05	4.40E+04
Dehalobacter DCM (DCM)	<9.60E-01	<2.50E-01	Decreased	<2.50E-01	<5.00E-01	Increased	<5.00E-01	5.60E+02
Dehalogenimonas spp. (DHG)	<9.60E-01	2.20E+02	Increased	<2.50E-01	<5.00E-01	Increased	<5.00E-01	<2.50E+00
cerA Reductase (CER)	<9.60E-01	<2.50E-01	Decreased	<2.50E-01	<5.00E-01	Increased	<5.00E-01	<2.50E+00
trans-1,2-DCE Reductase (TDR)	<9.60E-01	<2.50E-01	Decreased	<2.50E-01	<5.00E-01	Increased	<5.00E-01	<2.50E+00
Desulfitobacterium spp. (DSB)	1.00E+02	6.20E+02	Increased	<2.50E-01	1.40E+05	Increased	2.90E+05	6.20E+03
Dehalobium chlorochoeria (DECO)	2.80E+02	5.00E+03	Increased	2.50E+02	1.60E+03	Increased	4.10E+03	1.90E+03
Desulfuromonas spp. (DSM)	1.60E+03	2.00E+03	Increased	7.40E+01	8.10E+03	Increased	<5.00E-01	1.40E+03
PCE Reductase (PCE-1)	<9.60E-01	<2.50E-01	Decreased	<2.50E-01	<5.00E-01	Increased	<5.00E-01	<2.50E+00
PCE Reductase (PCE-2)	<9.60E-01	<2.50E-01	Decreased	<2.50E-01	<5.00E-01	Increased	<5.00E-01	<2.50E+00
Chloroform Reductase (CFR)	<9.60E-01	<2.50E-01	Decreased	<2.50E-01	<5.00E-01	Increased	<5.00E-01	<2.50E+00
1,1 DCA Reductase (DCA)	<9.60E-01	<2.50E-01	Decreased	<2.50E-01	<5.00E-01	Increased	<5.00E-01	<2.50E+00
1,2 DCA Reductase (DCAR)	<9.60E-01	<2.50E-01	Decreased	<2.50E-01	<5.00E-01	Increased	<5.00E-01	<2.50E+00
Aerobic (Co) Metabolic								
Soluble Methane Monooxygenase (SMMO)	<9.60E-01	4.40E+01	Increased	<2.50E-01	4.10E+01	Increased	<5.00E-01	2.30E+02
Toluene Dioxygenase (TOD)	<9.60E-01	2.50E+01	Increased	<2.50E-01	<5.00E-01	Increased	3.10E+02	6.30E+02
Phenol Hydroxylase (PHE)	3.70E+04	6.30E+04	Increased	7.70E+03	7.60E+03	Maintained	7.90E+04	5.20E+04
Trichlorobenzene Dioxygenase (TCBO)	<9.60E-01	1.20E+02	Increased	<2.50E-01	<5.00E-01	Increased	<5.00E-01	<2.50E+00
Toluene Monooxygenase 2 (RDEG)	7.50E+03	1.30E+04	Increased	5.40E+03	4.20E+03	Decreased	2.30E+04	8.70E+03
Toluene Monooxygenase (RMO)	3.80E+02	6.80E+03	Increased	2.50E+01	6.60E+03	Increased	3.90E+03	7.90E+02
Ethene Monooxygenase (EtnC)	<9.60E-01	<2.50E-01	Decreased	<2.50E-01	<5.00E-01	Increased	7.30E-01	<2.50E+00
Epoxyalkane Transferase (EtnE)	<9.60E-01	8.00E+01	Increased	<2.50E-01	<5.00E-01	Increased	<5.00E-01	<2.50E+00
Dichloromethane Dehalogenase (DCMA)	<9.60E-01	<2.50E-01	Decreased	<2.50E-01	<5.00E-01	Increased	<5.00E-01	<2.50E+00
OTHER								
Total Eubacteria (EBAC)	3.40E+06	3.20E+06	Maintained	2.00E+06	1.10E+07	Increased	3.70E+07	7.50E+07
Sulfate Reducing Bacteria (APS)	4.40E+02	3.70E+04	Increased	2.30E+03	7.50E+04	Increased	5.40E+05	1.50E+04
Methanogens (MGN)	<9.60E-01	<2.50E-01	Decreased	<2.50E-01	7.90E-01	Increased	2.60E-01	1.40E+00

Table 4: Summary of the baseline Quant Array Chlor results before and after remediation activities.
Result are presented as number of cells per millilitre of groundwater filtered.

2.7.1 Summary of bacterial analysis

In general, over the period including the remediation works, populations within RBH203 and RBH503 demonstrated an overall increase in microbial diversity and abundance. The enhanced presence of key dechlorinating organisms and functional genes, suggests favourable conditions for reductive dechlorination.

Within RBH503 Dehalococcoides (DHC) decreased from $5.50\text{E}+01$ to $2.30\text{E}+01$, though still present above detection thresholds. Significant increases were noted in BVC and VCR genes, indicative of active VC reduction pathways, together with Dehalogenimonas spp. (DHG) and Desulfuromonas spp. (DSM), indicating broader dechlorination potential.

Supporting Reductives such as Dehalobacter spp. (DHBt) increased from $3.70\text{E}+01$ to $1.30\text{E}+03$, signifying growth of populations capable of PCE/TCE degradation. Desulfitobacterium spp. (DSB) also rose substantially ($1.00\text{E}+02$ to $6.20\text{E}+02$), reinforcing anaerobic dechlorination potential

With respect to Aerobic Co-Metabolism species, large increases in Phenol Hydroxylase (PHE) ($7.70\text{E}+03$ to $6.30\text{E}+04$), Toluene Monooxygenase (RMO), and RDEG reflect enhancement of cometabolic capabilities under oxic/mixed redox zones. Total Eubacteria rose from $3.40\text{E}+06$ to $3.20\text{E}+06$, showing maintained high microbial activity. Sulfate Reducing Bacteria (APS) also increased, supporting reducing redox conditions, and indirect reduction of CTC.

Concerning RBH 203, similar results overall were observed, with DHC levels remaining below detection ($<2.50\text{E}-01$ to $<5.00\text{E}-01$), suggesting their minimal role at this site, however Dehalobacter spp. (DHBt) exhibiting a significant increase from undetectable levels to $2.20\text{E}+05$, indicating active PCE/TCE dechlorination. DSB and DSM also increased dramatically, indicating a growing anaerobic dechlorinating community.

Again, Phenol Hydroxylase (PHE) remained high ($9.80\text{E}+03$ to $7.60\text{E}+03$), suggesting stable aerobic transformation potential and RMO increased from $1.20\text{E}+02$ to $6.60\text{E}+03$, supporting expanded aerobic co-metabolism. Total Eubacteria rose from $4.20\text{E}+06$ to $1.10\text{E}+07$, representing a near threefold increase in microbial abundance.

Sulfate Reducing Bacteria (APS) increased markedly ($1.10\text{E}+03$ to $7.50\text{E}+04$), indicating stronger reducing conditions, and potential for indirect reduction of CTC.

In conclusion, the microbial community shifts suggest progressive enrichment of both obligate and facultative dechlorinators in RBH 203, especially in the presence of Dehalobacter spp. RBH 503, while showing less dramatic microbial expansion, reflects a balanced population of both anaerobic and aerobic degraders, suggesting possible fluctuating redox or mixed biogeochemical conditions.

With respect to boreholes RXI006 and RXI026, whilst there are no baseline results from these wells as they were not installed at the time of the October 2024 sampling, assessing the results against the observed trends for RBH203 and RBH503 and the comparable microbial populations indicates a strong microbial presence within these wells, also.

It is noted that in terms of species distribution, there is some diversification between RXI006 and RXI026, which may be representative of the differing contaminant profiles at each location. It is however clear that both locations, in line with the data for RBH203 and RBH503, demonstrate strong microbial populations of a similar character and density,

and therefore it may be concluded that the remedial works have supported biological growth in these locations also.

Overall, the emergence and proliferation of functional genes (e.g., VCR, BVC, RMO) in all boreholes reinforce the site's capacity for complete dechlorination of contaminants such as TCE and VC.

Natural attenuation processes appear to be actively supported by the indigenous microbial populations, with evidence of ongoing biogeochemical transformations.

3 ENVIRONMENTAL MONITORING

3.1 Monitoring of Emissions to the Environment

Throughout the duration of the project, records of environmental monitoring adhering to the requirements set by the CEMP were maintained. Figure 4 shows the locations of the MTL monitoring locations on the site. A complete record of all data obtained across the project is included in Appendix I.

This data relates to the following potential emissions;

- Noise monitoring
- Odour monitoring
- VOC monitoring
- Visual dust monitoring

3.2 Exceedances of MTL Monitoring limits

3.2.1 Noise

No exceedances were encountered throughout the course of the project. From 21st February 2025 noise monitoring was not required if there were no exceedances.

3.2.2 Odour

No exceedances were encountered throughout the course of the project. The amendment had a sweet “garlicy” smell, but that was localised in the area where the plant was situated and didn’t carry out to the rest of the site or any neighbouring properties.

3.2.3 VOC

Aromatic smells were unexpectedly smelt during both drilling activities. Subsequently a PID was hired in order to monitor the VOCs and ensure the safety of the drill and supervisory staff. The readings on the PID didn’t exceed 1000 ppm, which is considered high for short-term outdoor exposure.

3.2.4 Visual dust

No dust was observed during the course of the project. Any handling of the powdered chemicals during this project was done with proper PPE and RPE. Any airborne particles of such chemicals settled fairly quickly.

3.3 Deployment closeout

At the time of writing, the deployment remains in place and active for the works, with a pending closure date of 31 August 2025, as agreed via extension with the Environment Agency in April 2025.

4 CONCLUSION

In summary, the ISCR remediation strategy implemented at the Victoria North site has yielded clear and measurable evidence of successful reagent delivery and the establishment of reducing subsurface conditions necessary for effective contaminant degradation. This conclusion is supported by a strong alignment of four independent lines of evidence; physical presence, geochemical transformation, intermediate contaminant reduction, and biological response, that collectively confirm the effectiveness of the approach.

The physical distribution of the reagents, confirmed via visual observation (e.g., emulsified oil layers within selected boreholes such as RBH203, RXI001, RXI022, and RXI017), demonstrates that the ERD amendment and associated compounds were successfully delivered into the target zones. This is further corroborated by the measured injection volumes and spatial coverage across both the primary and supplementary injection phases, which ensured reagent reach within and beyond the original contaminant plume.

Post-injection groundwater monitoring revealed a sustained and significant shift in geochemical parameters consistent with the onset of strongly reducing conditions:

- ORP values across all 26 monitored wells decreased from an average of +111 mV (oxidizing) to approximately –100 mV (reducing). Lowest ORP reported at RX011 with -260mV;
- Dissolved oxygen concentrations were successfully suppressed to <1 mg/L across the target area from maximum 6mg/L, assisting anaerobic microbial processes;

Microbial profiling indicate a pronounced microbial response in both target and control boreholes, especially:

- Substantial increases in *Dehalobacter* spp.
- Enhanced detection of functional genes such as *tceA*, *BVC*, and *VCR*, directly linked to the sequential dechlorination of chlorinated ethenes.
- Significant rises in *Desulfitobacterium* spp., *Desulfuromonas* spp., and sulfate-reducing bacteria, all indicative of a robust anaerobic microbial community.

The simultaneous increases in both reductive and aerobic (co-metabolic) degraders highlight a resilient and adaptive microbial ecology, capable of responding to dynamic redox conditions and promoting the breakdown of a wide range of contaminants.

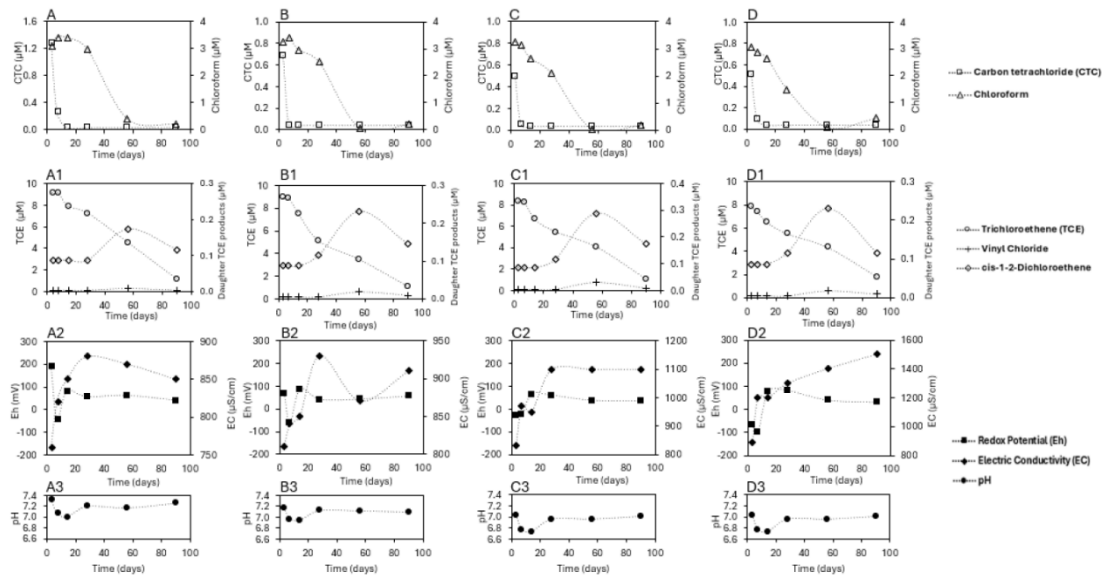
The microbial profiling analysis conducted in June 2025 continues to indicate the presence of dehalogenating species, continuing to evidence the conditions for degradation of the contaminants of concern, despite the rising ORP observed in May 2025.

Intermediate sampling between injection events conducted during April 2025 and May 2025 demonstrated good reduction of CTC and TCE, but the presence of DCE and VC as expected daughter products of the breakdown of TCE. Notably, the TCE reduction in RX03 from 1020ug/l (Jan 2025) to 23ug/l (April 2025) and in RX06 from 897ug/l (Jan 2025) to 540ug/l (May 2025). The slower TCE reduction at RX06 may be explained by the concurrent reduction of CTC concentration from 316ug/l (Jan 2025) to 89ug/L (May 2025). During the bench scale trials it was observed that CTC degradation takes place prior to the TCE degradation, indicative the reduction process was occurring at the time of the sampling. DCE reduced at RX03 from 93 ug/l (Jan 2025) to 29 ug/l (April 2025) indicating breakdown of by products with no detection of VC.

This evidence from chemical analysis, alongside field observations of parameters such as DO and ORP indicating more strongly reducing conditions further bolsters evidence of the initial and ongoing breakdown of the contaminants of concern and success of the injection works.

It should be noted that the observed ORP values trending towards a background position is expected. This behaviour was observed and reported on within the bench trials conducted in 2024, as illustrated below in an extract from the report. Performance monitoring of the reagents in use still demonstrating anaerobic degradation of the contaminants of concern, as expected.

Comparative continual reduction in the concentrations of contaminants of concern were observed. Refer to graphs A1 vs A2, B1 vs B2 etc, below.



It should also be noted that after the microbial profiling completed in June 2025, a final injection was completed targeting wells RX05, RX08, RX06, RX-14, RX-18, RX-23, RX-24, RX-25 and RX-26. Whilst no post injection monitoring was completed, it is expected that further enhancement of the groundwater geochemistry towards a more reductive environment would be expected, as observed during previous rounds.

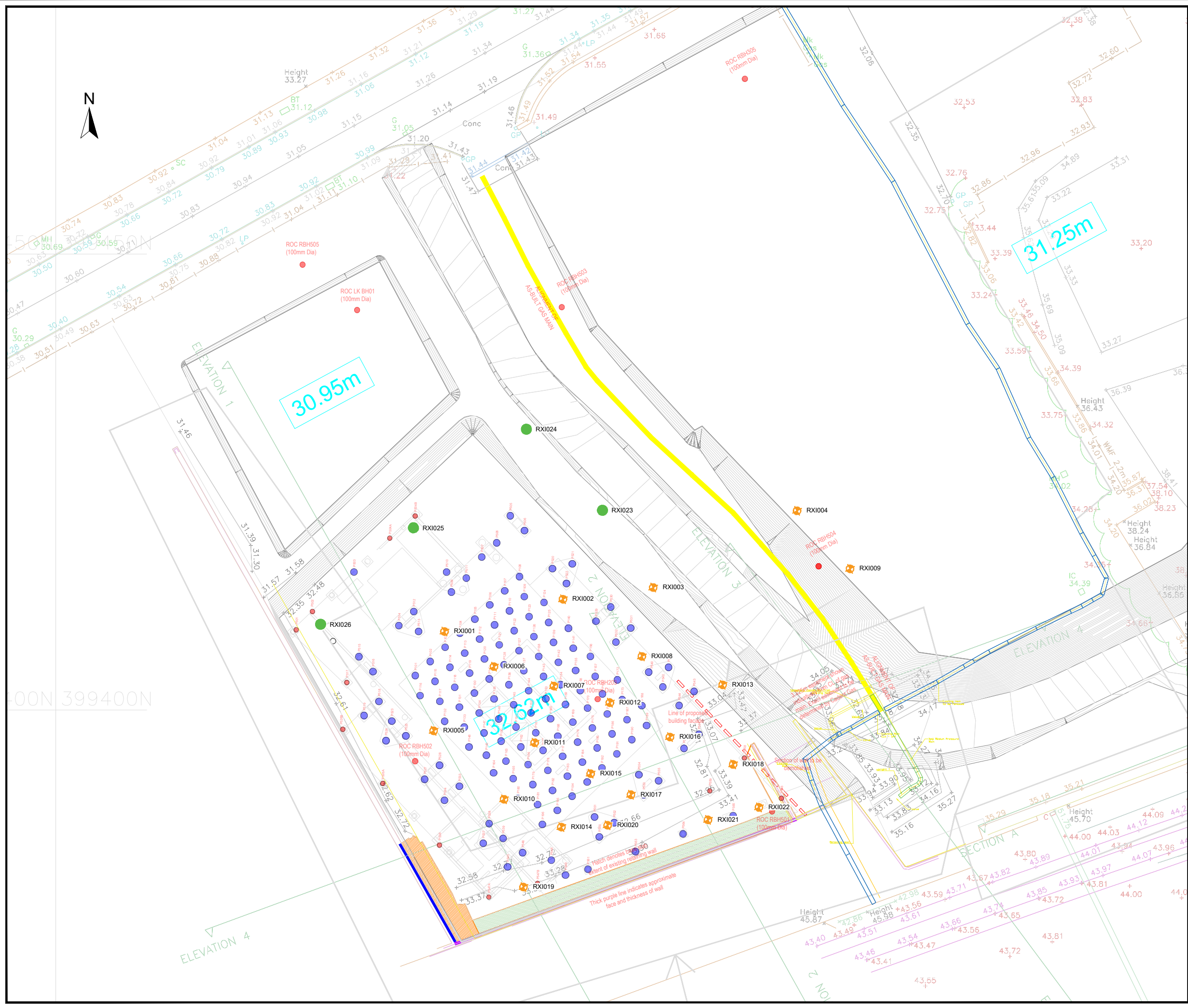
The integration of physical distribution data, geochemical shifts, reduction of target contaminants within the plume area and microbial population dynamics provides a comprehensive and converging body of evidence confirming that:

- The ISCR reagents were successfully delivered to the intended subsurface zones;
- Reducing and anoxic conditions were established and sustained, and;
- Indigenous microbial communities responded positively, enhancing the site's intrinsic capacity for continued contaminant breakdown.

Accordingly, the remediation activities at the Victoria North site have effectively established the necessary preconditions for ongoing natural attenuation and complete reductive dechlorination of target VOC contaminants.

The outcomes validate the design and implementation of the ISCR strategy and demonstrate a high likelihood of continued remediation success moving forward.

FIGURES



LEGEND

- INJECTION WELLS
- EXISTING WELLS
- ADDITIONAL INJECTION WELL

NOTES

00	27.06.2025	FIRST ISSUE	AA	PF	FC
Rev.	Date	Amendment	Drawn	Chkd.	Appd.

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BAM VICTORIA NORTH

Drawing Title

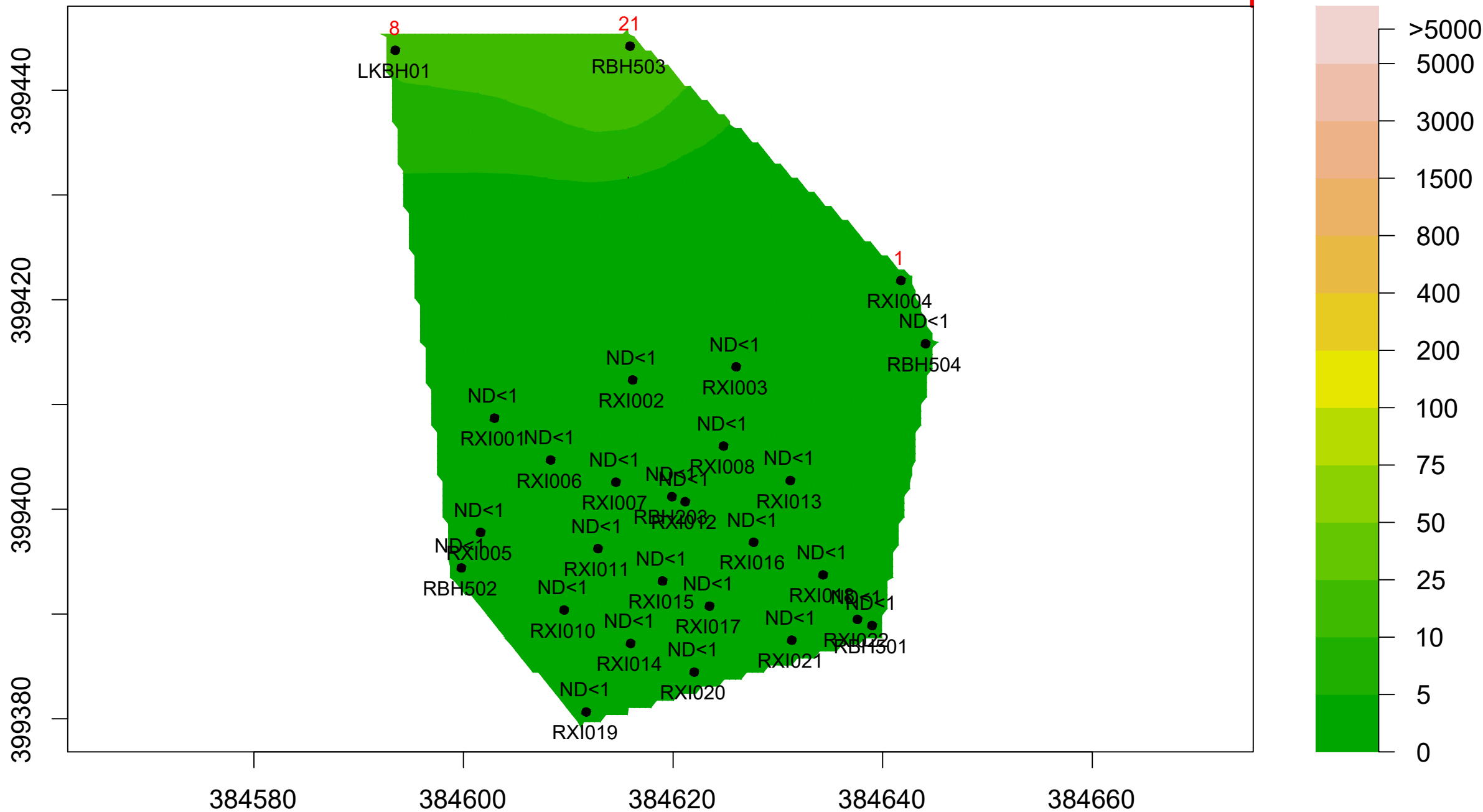
ADDITIONAL INJECTION WELL LOCATION PLAN

Drawn	Date	Checked	Date	Approved	Date
AA	27.06.2025	PF	27.06.2025	FC	27.06.2025

Dimensions	Scale	Original Size
m	1:400	A3

Project Number	171111	Drawing Number	FIGURE 2
Drawing File	171111 - REMEDIATION WELL LAYOUT - OVERLAY 2		Rev
		00	

VC : 25-Dec-2024 to 24-Jan-2025 : Aquifer-Blank



LEGEND

NOTES

00	27.06.2025	FIRST ISSUE	AA	PF	FC
Rev.	Date	Amendment	Drawn	Chkd.	Appd.

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Client

BAM NUTTALL LTD

Project Title

BAM VICTORIA NORTH

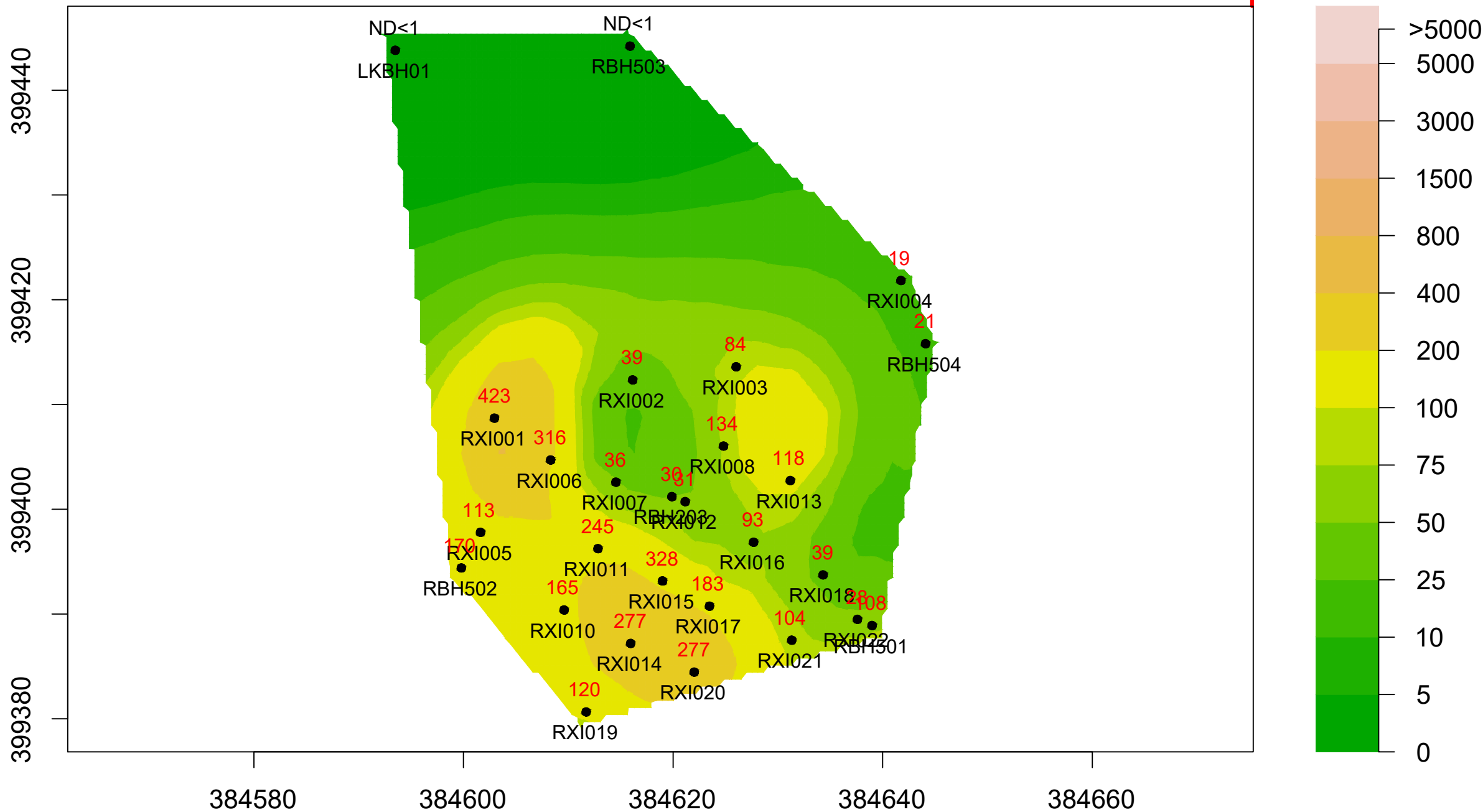
Drawing Title

BASELINE VC CONCENTRATION

Drawn	Date	Checked	Date	Approved	Date
AA	27.06.2025	PF	27.06.2025	FC	27.06.2025
Dimensions	Scale		Original Size		
m	1:400		A3		

Project Number	171111	Drawing Number	FIGURE 3C
Drawing File	171111 - FIG3A TO FIG3E - BASELINE CONCENTRATION		Rev 00

CTC : 25-Dec-2024 to 24-Jan-2025 : Aquifer-Blank



LEGEND

NOTES

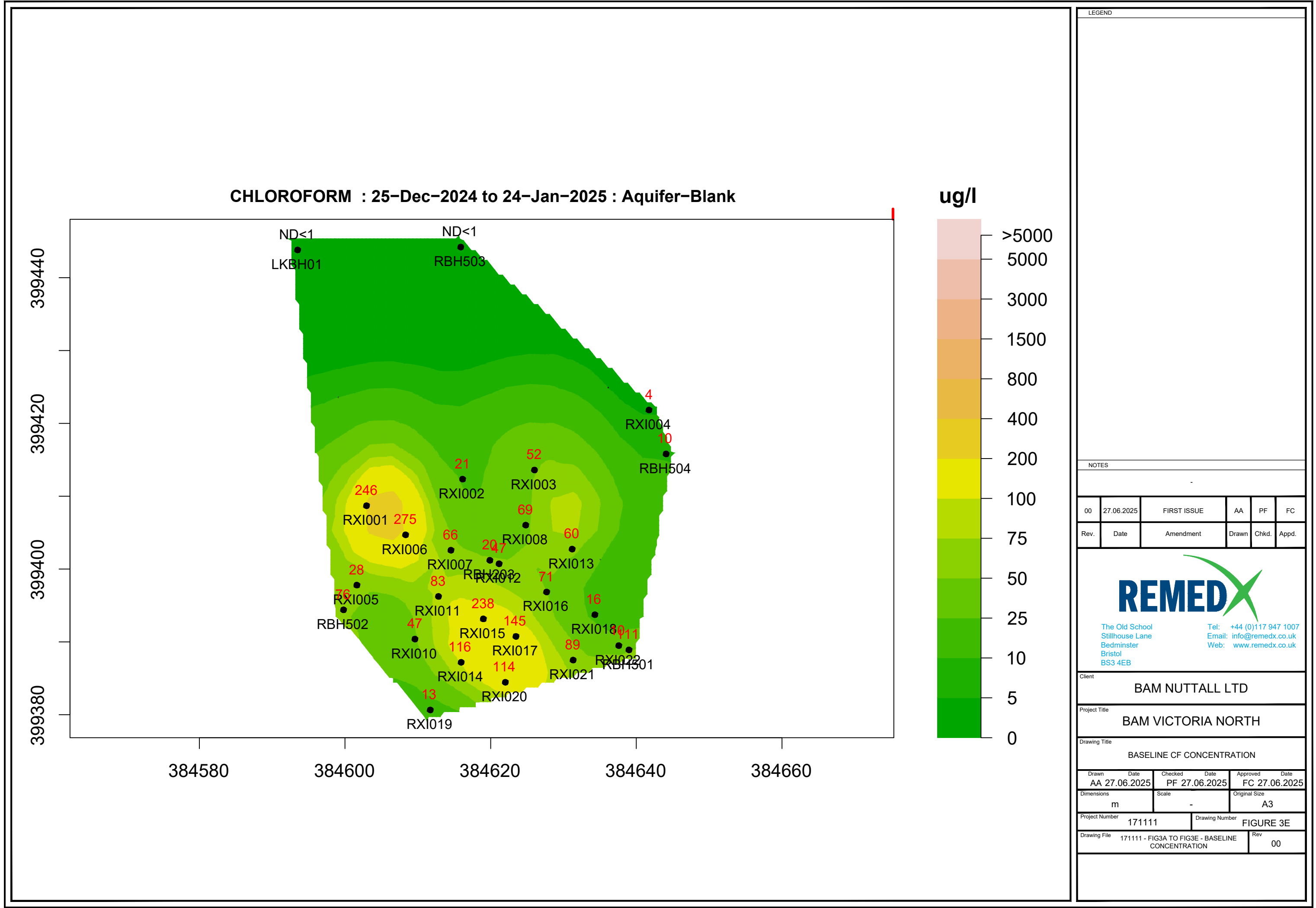
00	27.06.2025	FIRST ISSUE	AA	PF	FC
Rev.	Date	Amendment	Drawn	Chkd.	Appd.

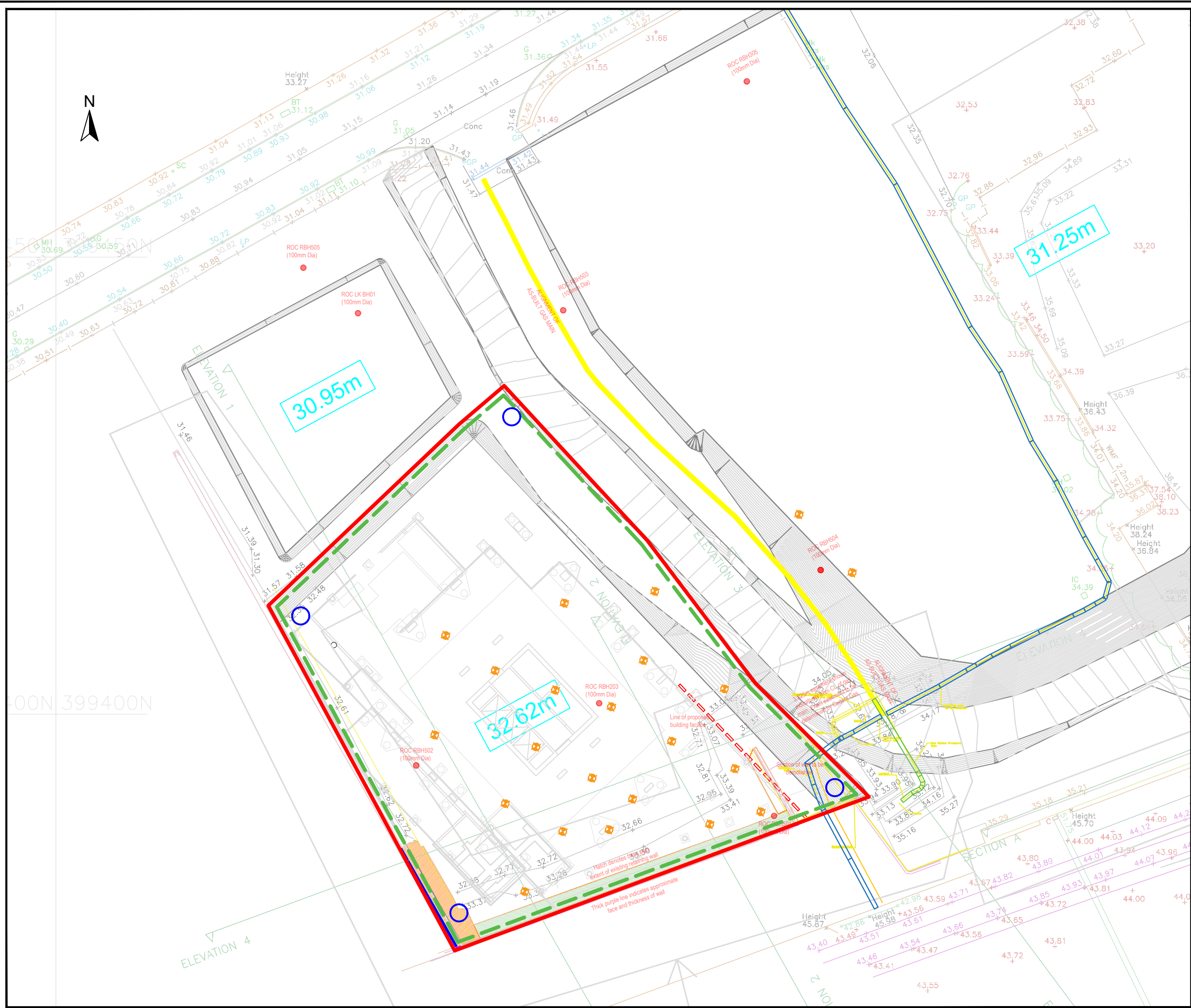


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Client		BAM NUTTALL LTD			
Project Title		BAM VICTORIA NORTH			
Drawing Title		BASELINE CTC CONCENTRATION			
Drawn	Date	Checked	Date	Approved	Date
AA	27.06.2025	PF	27.06.2025	FC	27.06.2025
Dimensions		Scale	Original Size		
m		-	A3		
Project Number		Drawing Number			
171111		FIGURE 3D			
Drawing File		Rev			
171111 - FIG3A TO FIG3E - BASELINE CONCENTRATION					00





LEGEND

- INJECTION WELLS
- EXISTING WELLS
- OPERATING SITE BOUNDARY
- PRINCIPAL PLANT LOCATION
- CONTAMINATED MATERIAL
- ENVIRONMENTAL MONITORING LOCATION

NOTES

00	27.06.2025	FIRST ISSUE	AA	PF	FC
Rev.	Date	Amendment	Drawn	Chkd.	Appd.

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Project Title

BAM VICTORIA NORTH

Drawing Title

MTL MONITORING LOCATION PLAN

Drawn	Date	Checked	Date	Approved	Date
AA	27.06.2025	PF	27.06.2025	FC	27.06.2025

Dimensions	Scale	Original Size
m	1:400	A3

Project Number	171086	Drawing Number	FIGURE 4
Drawing File	171111 - REMEDIATION WELL LAYOUT - OVERLAY 2		Rev
		00	

0 5 10 15 20m

APPENDIX A

BOREHOLE LOG

Contract: NT02 Victoria North ISCR Remediation			Client: BAM Nuttall		Borehole: RX1001
Contract Ref: 171111		Start: 16.12.24 End: 16.12.24	Ground Level: ---	National Grid Co-ordinate: E:384603.0 N:399408.7	Sheet: 1 of 1

Mechanical Log						Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation				
							MADE GROUND.	(4.00)	
							Red sands and gravels (SANDSTONE).	4.00	
								(11.00)	
							Borehole terminated at 15.00m depth.	15.00	

Drilling Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	1. All wells installed with 50mm PVC. 2. Drilling method - Open hole with air mist. 3. Drilling Rig - Commachio 205CA05. 4. Drilling Diameter - 120mm. 5. Backfill sequence: Cement/bentonite Grout mix - Bentonite Pellets - Sands/filter pack.			
16/12/24		15.00	-		5.39				
						All dimensions in metres		Scale:	1:89
Method Used: Rotary coring			Plant Used: Comacchio GEO 205		Drilled By: Central Alliance	Logged By: ???	Checked By:		

BOREHOLE LOG

Contract: NT02 Victoria North ISCR Remediation			Client: BAM Nuttall		Borehole: RX1002
Contract Ref: 171111	Start: 14.01.25	Ground Level: ---	National Grid Co-ordinate: E:384616.2 N:399412.3		Sheet: 1 of 1

Mechanical Log					Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)				
						MADE GROUND:	(3.00)	
						Red sands and gravels. (SANDSTONE)	(12.00)	
						Borehole terminated at 15.00m depth.	15.00	

Drilling Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	1. All wells installed with 50mm PVC. 2. Drilling method - Open hole with air mist. 3. Drilling Rig - Commachio 205CA05. 4. Drilling Diameter - 120mm. 5. Backfill sequence: Cement/bentonite Grout mix - Bentonite Pellets - Sands/filter pack.			
14/01/25		14.75	-		5.34				
All dimensions in metres						Scale: 1:89			
Method Used: Rotary coring			Plant Used: Comacchio GEO 205		Drilled By: Central Alliance	Logged By: SCowell	Checked By:		

BOREHOLE LOG

Contract: NT02 Victoria North ISCR Remediation			Client: BAM Nuttall		Borehole: RX1003
Contract Ref: 171111	Start: 14.01.25	Ground Level: ---	National Grid Co-ordinate: E:384626.0 N:399413.6		Sheet: 1 of 1

Mechanical Log					Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)					
							MADE GROUND.	(3.00)	
							Red sand and gravels. (SANDSTONE)	3.00	
								(11.00)	
							Borehole terminated at 14.00m depth.	14.00	

Drilling Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	1. Whilst putting casing down to 2.5 mbgl, strong odour encountered and air mist return water contained NAPL product. Sample collected 2.5m bgl 2. All wells installed with 50mm PVC. 3. Drilling method - Open hole with air mist. 4. Drilling Rig - Commachio 205CA05. 5. Drilling Diameter - 120mm. 6. Backfill sequence: Cement/bentonite Grout mix - Bentonite Pellets - Sands/filter pack.			
14/01/25		13.98	-		4.28				
All dimensions in metres						Scale: 1:83			
Method Used: Rotary coring			Plant Used: Comacchio GEO 205		Drilled By: Central Alliance	Logged By: SCowell	Checked By:		

BOREHOLE LOG

Contract: NT02 Victoria North ISCR Remediation			Client: BAM Nuttall		Borehole: RX1004
Contract Ref: 171111	Start: 14.01.25	Ground Level: ---	National Grid Co-ordinate: E:384641.8 N:399421.8		Sheet: 1 of 1

Mechanical Log					Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)					
							MADE GROUND.	(3.00)	
							Red sands and gravels. (SANDSTONE)	(11.00)	
							Borehole terminated at 14.00m depth.	14.00	

Drilling Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	1. All wells installed with 50mm PVC. 2. Drilling method - Open hole with air mist. 3. Drilling Rig - Commachio 205CA05. 4. Drilling Diameter - 120mm. 5. Backfill sequence: Cement/bentonite Grout mix - Bentonite Pellets - Sands/filter pack.			
14/01/25		13.98	-		4.28				
All dimensions in metres						Scale: 1:83			
Method Used: Rotary coring			Plant Used: Comacchio GEO 205		Drilled By: Central Alliance	Logged By: SCowell	Checked By:		

BOREHOLE LOG

Contract: NT02 Victoria North ISCR Remediation			Client: BAM Nuttall		Borehole: RX1005
Contract Ref: 171111	Start: 06.01.25	Ground Level: ---	National Grid Co-ordinate: E:384601.6 N:399397.8		Sheet: 1 of 1
End: 06.01.25					

Mechanical Log				Flush Returns & Details	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)					
							MADE GROUND.	(2.90)	
					70% return Air+Mist			2.90	
							Red sands and gravels. (SANDSTONE)	(12.10)	
					70% return Air+Mist			15.00	
							Borehole terminated at 15.00m depth.		

Drilling Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth				
06/01/25		15.00	-		7.00	1. All wells installed with 50mm PVC. 2. Drilling method - Open hole with air mist. 3. Drilling Rig - Commachio 205CA05. 4. Drilling Diameter - 120mm. 5. Backfill sequence: Cement/bentonite Grout mix - Bentonite Pellets - Sands/filter pack.			
						All dimensions in metres		Scale:	1:89
Method Used: Rotary coring			Plant Used: Comacchio GEO 205		Drilled By: Central Alliance	Logged By: SCowell	Checked By:		

BOREHOLE LOG

Contract: NT02 Victoria North ISCR Remediation			Client: BAM Nuttall		Borehole: RX1006
Contract Ref: 171111	Start: 13.01.25	Ground Level: ---	National Grid Co-ordinate: E:384608.3 N:399404.7		Sheet: 1 of 1

Mechanical Log					Flush Returns & Details	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)						
								MADE GROUND.	(3.00)	
					90% return Air+Mist				3.00	
								Red sands and gravels. (SANDSTONE)	(12.00)	
					90% return Air+Mist				15.00	
								Borehole terminated at 15.00m depth.		

Drilling Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	1. All wells installed with 50mm PVC. 2. Drilling method - Open hole with air mist. 3. Drilling Rig - Commachio 205CA05. 4. Drilling Diameter - 120mm. 5. Backfill sequence: Cement/bentonite Grout mix - Bentonite Pellets - Sands/filter pack.			
13/01/25		15.73	-		5.42				
Method Used: Rotary coring						All dimensions in metres Scale: 1:89			
Plant Used: Comacchio GEO 205			Drilled By: Central Alliance		Logged By: SCowell		Checked By: AGS		

BOREHOLE LOG

Contract: NT02 Victoria North ISCR Remediation			Client: BAM Nuttall		Borehole: RX1007
Contract Ref: 171111	Start: 06.01.25	Ground Level: ---	National Grid Co-ordinate: E:384614.6 N:399402.6		Sheet: 1 of 1
End: 06.01.25					

Mechanical Log					Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)				
						MADE GROUND.	(3.00)	
						Red sands and gravels. (SANDSTONE)	(12.00)	
						Borehole terminated at 15.00m depth.	15.00	

Drilling Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth				
06/01/25		14.80	-		5.80	1. All wells installed with 50mm PVC. 2. Drilling method - Open hole with air mist. 3. Drilling Rig - Commachio 205CA05. 4. Drilling Diameter - 120mm. 5. Backfill sequence: Cement/bentonite Grout mix - Bentonite Pellets - Sands/filter pack.			
						All dimensions in metres		Scale:	1:89
Method Used: Rotary coring			Plant Used: Comacchio GEO 205		Drilled By: Central Alliance	Logged By: SCowell	Checked By:		

BOREHOLE LOG

Contract: NT02 Victoria North ISCR Remediation			Client: BAM Nuttall		Borehole: RX1008
Contract Ref: 171111	Start: 13.01.25	Ground Level: ---	National Grid Co-ordinate: E:384624.8 N:399406.0		Sheet: 1 of 1

Mechanical Log					Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)				
						MADE GROUND.	(3.00)	
						Red sands and gravel. (SANDSTONE)	(12.00)	
						Borehole terminated at 15.00m depth.	15.00	

Drilling Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	<ol style="list-style-type: none"> Whilst putting casing down to approx. 2.0 mbgl, strong aromatic odour encountered and air mist return water contained NAPL product. Sample collected 0-0.1m & 0.5m All wells installed with 50mm PVC. Drilling method - Open hole with air mist. Drilling Rig - Commachio 205CA05. Drilling Diameter - 120mm. Backfill sequence: Cement/bentonite Grout mix - Bentonite Pellets - Sands/filter pack. 			
13/01/25		14.36	-		5.46				
All dimensions in metres						Scale:	1:89		
Method Used: Rotary coring			Plant Used: Comacchio GEO 205		Drilled By: Central Alliance	Logged By: SCowell	Checked By:		

BOREHOLE LOG

Contract: NT02 Victoria North ISCR Remediation			Client: BAM Nuttall		Borehole: RX1009
Contract Ref: 171111	Start: 13.01.25	Ground Level: ---	National Grid Co-ordinate: E:384647.7 N:399415.4		Sheet: 1 of 1
End: 13.01.25					

Mechanical Log					Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)				
						MADE GROUND.	(3.00)	
						Red sand and gravels. (SANDSTONE)	(12.00)	
						Borehole terminated at 15.00m depth.	15.00	

Drilling Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth				
13/01/25		15.37	-		4.26	1. At 0.3 - 0.4 mbgl encountered strong odour from red sand (dry). . Sample collected 0.4n bgl (red sands) 2. All wells installed with 50mm PVC. 3. Drilling method - Open hole with air mist. 4. Drilling Rig - Commachio 205CA05. 5. Drilling Diameter - 120mm. 6. Backfill sequence: Cement/bentonite Grout mix - Bentonite Pellets - Sands/filter pack.			
All dimensions in metres						Scale: 1:89			
Method Used: Rotary coring			Plant Used: Comacchio GEO 205		Drilled By: Central Alliance	Logged By: SCowell	Checked By:		

BOREHOLE LOG

Contract: NT02 Victoria North ISCR Remediation			Client: BAM Nuttall		Borehole: RX1010
Contract Ref: 171111	Start: 12.12.24	Ground Level: ---	National Grid Co-ordinate: E:384609.6 N:399390.4		Sheet: 1 of 1

Mechanical Log					Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)				
						MADE GROUND.	(3.00)	
						Red sands and gravels. (SANDSTONE)	(12.00)	
						Borehole terminated at 15.00m depth.	15.00	

Drilling Progress and Water Observations						General Remarks		
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	1. All wells installed with 50mm PVC. 2. Drilling method - Open hole with air mist. 3. Drilling Rig - Commachio 205CA05. 4. Drilling Diameter - 120mm. 5. Backfill sequence: Cement/bentonite Grout mix - Bentonite Pellets - Sands/filter pack.		
12/12/24		15.00	-		5.78			
Method Used: Rotary coring						All dimensions in metres Scale: 1:89		
Plant Used: Comacchio GEO 205			Drilled By: Central Alliance		Logged By: ???	Checked By:		

BOREHOLE LOG

Contract: NT02 Victoria North ISCR Remediation			Client: BAM Nuttall		Borehole: RX1011
Contract Ref: 171111	Start: 13.01.25	Ground Level: ---	National Grid Co-ordinate: E:384612.8 N:399396.2		Sheet: 1 of 1

Mechanical Log					Flush Returns & Details	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)						
					Air+Mist			MADE GROUND.	(2.90)	
					Air+Mist			Red sands and gravels. (SANDSTONE)	2.90	
									(12.10)	
									15.00	
								Borehole terminated at 15.00m depth.		

Drilling Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	1. All wells installed with 50mm PVC. 2. Drilling method - Open hole with air mist. 3. Drilling Rig - Commachio 205CA05. 4. Drilling Diameter - 120mm. 5. Backfill sequence: Cement/bentonite Grout mix - Bentonite Pellets - Sands/filter pack.			
13/01/25		15.08	-		5.61				
						All dimensions in metres		Scale:	1:89
Method Used: Rotary coring			Plant Used: Comacchio GEO 205		Drilled By: Central Alliance	Logged By: SCowell	Checked By:		

BOREHOLE LOG

Contract: NT02 Victoria North ISCR Remediation			Client: BAM Nuttall		Borehole: RX1012
Contract Ref: 171111	Start: 07.01.25	Ground Level: ---	National Grid Co-ordinate: E:384621.2 N:399400.7		Sheet: 1 of 1
End: 07.01.25					

Mechanical Log					Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)				
						MADE GROUND.	(3.00)	
						Red sands and gravels. (SANDSTONE)	(12.00)	
						Borehole terminated at 15.00m depth.	15.00	

Drilling Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	1. All wells installed with 50mm PVC. 2. Drilling method - Open hole with air mist. 3. Drilling Rig - Commachio 205CA05. 4. Drilling Diameter - 120mm. 5. Backfill sequence: Cement/bentonite Grout mix - Bentonite Pellets - Sands/filter pack.			
07/01/25		14.95	-		5.32				
						All dimensions in metres		Scale:	1:89
Method Used: Rotary coring			Plant Used: Comacchio GEO 205		Drilled By: Central Alliance	Logged By: SCowell	Checked By:		

BOREHOLE LOG

Contract: NT02 Victoria North ISCR Remediation			Client: BAM Nuttall		Borehole: RX1013
Contract Ref: 171111		Start: 18.12.24 End: 18.12.24	Ground Level: ---	National Grid Co-ordinate: E:384631.2 N:399402.7	Sheet: 1 of 1

Mechanical Log						Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation				
							MADE GROUND.	(1.00)	
							CLAY.	1.00	
								(3.00)	
								4.00	
							Red sands and gravels. (SANDSTONE)		
								(11.50)	
								15.50	
							Borehole terminated at 15.50m depth.		

Drilling Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	1. Slight aromatic odour noted from ~4.0 mbgl. Unidentified product in water return. 2. All wells installed with 50mm PVC. 3. Drilling method - Open hole with air mist. 4. Drilling Rig - Commachio 205CA05. 5. Drilling Diameter - 120mm. 6. Backfill sequence: Cement/bentonite Grout mix - Bentonite Pellets - Sands/filter pack.			
18/12/24		15.50	-		6.34				
						All dimensions in metres		Scale:	1:92
Method Used: Rotary coring			Plant Used: Comacchio GEO 205		Drilled By: Central Alliance	Logged By: ???	Checked By:		

BOREHOLE LOG

Contract: NT02 Victoria North ISCR Remediation			Client: BAM Nuttall		Borehole: RX1014
Contract Ref: 171111	Start: 12.12.24	Ground Level: ---	National Grid Co-ordinate: E:384616.0 N:399387.2		Sheet: 1 of 1
End: 12.12.24					

Mechanical Log					Flush Returns & Details	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)						
0.00-3.00								MADE GROUND.	(2.50)	
3.00-15.00					(Brown/Red)			Red sands and gravels. (SANDSTONE)	(12.50)	
								Borehole terminated at 15.00m depth.	15.00	

Drilling Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	1. All wells installed with 50mm PVC. 2. Drilling method - Open hole with air mist. 3. Drilling Rig - Commachio 205CA05. 4. Drilling Diameter - 120mm. 5. Backfill sequence: Cement/bentonite Grout mix - Bentonite Pellets - Sands/filter pack.			
12/12/24		15.00	-		5.60				
						All dimensions in metres		Scale:	1:89
Method Used: Rotary coring			Plant Used: Comacchio GEO 205		Drilled By: Central Alliance	Logged By: ???	Checked By:		

BOREHOLE LOG

Contract: NT02 Victoria North ISCR Remediation		Client: BAM Nuttall		Borehole: RX1015
Contract Ref: 171111	Start: 13.12.24 End: 13.12.24	Ground Level: ---	National Grid Co-ordinate: E:384619.0 N:399393.2	Sheet: 1 of 1

Mechanical Log						Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation				
							MADE GROUND.	(3.00)	
							Red sands and gravels. (SANDSTONE)	(12.00)	
							Borehole terminated at 15.00m depth.	15.00	

Drilling Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	1. All wells installed with 50mm PVC. 2. Drilling method - Open hole with air mist. 3. Drilling Rig - Commachio 205CA05. 4. Drilling Diameter - 120mm. 5. Backfill sequence: Cement/bentonite Grout mix - Bentonite Pellets - Sands/filter pack.			
13/12/24		15.00	-		4.82				
All dimensions in metres						Scale: 1:89			
Method Used: Rotary coring			Plant Used: Comacchio GEO 205		Drilled By: Central Alliance	Logged By: ???	Checked By:		

BOREHOLE LOG

Contract: NT02 Victoria North ISCR Remediation			Client: BAM Nuttall		Borehole: RX1016
Contract Ref: 171111		Start: 18.12.24 End: 18.12.24	Ground Level: ---	National Grid Co-ordinate: E:384627.7 N:399396.9	Sheet: 1 of 1

Mechanical Log					Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)				
						MADE GROUND.	0.50	
						CLAY.	(2.50)	
						Red sands and gravel. (SANDSTONE)	3.00	
							(12.00)	
						Borehole terminated at 15.00m depth.	15.00	

Drilling Progress and Water Observations						General Remarks		
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth			
18/12/24		14.50	-		5.59	1. Odour (solvent) from 6mbgl. Strong odour at 12m bgl. Sheen on rods 2. All wells installed with 50mm PVC. 3. Drilling method - Open hole with air mist. 4. Drilling Rig - Commachio 205CA05. 5. Drilling Diameter - 120mm. 6. Backfill sequence: Cement/bentonite Grout mix - Bentonite Pellets - Sands/filter pack.		
All dimensions in metres						Scale:	1:89	
Method Used: Rotary coring			Plant Used: Comacchio GEO 205		Drilled By: Central Alliance	Logged By: ???	Checked By:	

BOREHOLE LOG

Contract: NT02 Victoria North ISCR Remediation			Client: BAM Nuttall		Borehole: RX1017
Contract Ref: 171111	Start: 16.12.24	Ground Level: ---	National Grid Co-ordinate: E:384623.5 N:399390.8		Sheet: 1 of 1

Mechanical Log				Flush Returns & Details	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)						
							MADE GROUND.	(3.00)	
							Red sands and gravels. (SANDSTONE)	3.00	
								(12.00)	
								15.00	
							Borehole terminated at 15.00m depth.		

Drilling Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	1. Slightly odour in GW. 2. All wells installed with 50mm PVC. 3. Drilling method - Open hole with air mist. 4. Drilling Rig - Commachio 205CA05. 5. Drilling Diameter - 120mm. 6. Backfill sequence: Cement/bentonite Grout mix - Bentonite Pellets - Sands/filter pack.			
16/12/24		15.00	-		5.58				
All dimensions in metres						Scale:		1:89	
Method Used: Rotary coring			Plant Used: Comacchio GEO 205		Drilled By: Central Alliance	Logged By: ???	Checked By:		

BOREHOLE LOG

Contract: NT02 Victoria North ISCR Remediation			Client: BAM Nuttall		Borehole: RX1018
Contract Ref: 171111	Start: 18.12.24	Ground Level: ---	National Grid Co-ordinate: E:384634.3 N:399393.7		Sheet: 1 of 1
End: 18.12.24					

Mechanical Log					Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)				
						MADE GROUND.	(1.00)	
						CLAY.	(2.00)	
						Red sands and gravels. (SANDSTONE)	(12.50)	
						Borehole terminated at 15.50m depth.	15.50	

Drilling Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth		
18/12/24		15.50	-		6.38	1. Odour (solvent?) at 3m bgl. Slightly odour in GW 2. All wells installed with 50mm PVC. 3. Drilling method - Open hole with air mist. 4. Drilling Rig - Commachio 205CA05. 5. Drilling Diameter - 120mm. 6. Backfill sequence: Cement/bentonite Grout mix - Bentonite Pellets - Sands/filter pack.	
All dimensions in metres						Scale:	1:89
Method Used: Rotary coring			Plant Used: Comacchio GEO 202		Drilled By: Central Alliance	Logged By: ???	Checked By: 

BOREHOLE LOG

Contract: NT02 Victoria North ISCR Remediation			Client: BAM Nuttall		Borehole: RX1019
Contract Ref: 171111	Start: 17.12.24	Ground Level: ---	National Grid Co-ordinate: E:384611.7 N:399380.7		Sheet: 1 of 1

Mechanical Log					Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)					
							MADE GROUND.	(3.00)	
							Red sands and gravels. (SANDSTONE)	3.00	
								(12.50)	
								15.50	

Drilling Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	1. Slightly odour in GW. 2. All wells installed with 50mm PVC. 3. Drilling method - Open hole with air mist. 4. Drilling Rig - Commachio 205CA05. 5. Drilling Diameter - 120mm. 6. Backfill sequence: Cement/bentonite Grout mix - Bentonite Pellets - Sands/filter pack.			
17/12/24		15.00	-		5.75				
All dimensions in metres						Scale: 1:89			
Method Used: Rotary coring			Plant Used: Comacchio GEO 205		Drilled By: Central Alliance	Logged By: ???	Checked By:		

BOREHOLE LOG

Contract: NT02 Victoria North ISCR Remediation			Client: BAM Nuttall		Borehole: RX1020
Contract Ref: 171111	Start: 17.12.24	Ground Level: ---	National Grid Co-ordinate: E:384622.0 N:399384.5		Sheet: 1 of 1

Mechanical Log					Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)					
							MADE GROUND.	(2.00)	
							Red sands and gravels. (SANDSTONE)	2.00	
								(13.00)	
							Borehole terminated at 15.00m depth.	15.00	

Drilling Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	1. Potential brick wall. Location relocated. Slightly odour in GW. 2. All wells installed with 50mm PVC. 3. Drilling method - Open hole with air mist. 4. Drilling Rig - Commachio 205CA05. 5. Drilling Diameter - 120mm. 6. Backfill sequence: Cement/bentonite Grout mix - Bentonite Pellets - Sands/filter pack.			
17/12/24		15.00	-		5.77				
All dimensions in metres						Scale:		1:89	
Method Used: Rotary coring			Plant Used: Comacchio GEO 205		Drilled By: Central Alliance	Logged By: ???	Checked By:		

BOREHOLE LOG

Contract: NT02 Victoria North ISCR Remediation			Client: BAM Nuttall		Borehole: RX1021
Contract Ref: 171111	Start: 17.12.24	Ground Level: ---	National Grid Co-ordinate: E:384631.3 N:399387.5		Sheet: 1 of 1

Mechanical Log				Flush Returns & Details	Backfill & Instrumentation	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)					
0.00-3.00							MADE GROUND.	(3.00)	
3.00-15.00							Red sands and gravels. (SANDSTONE)	(12.50)	
								15.50	
Borehole terminated at 15.50m depth.									

Drilling Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth				
17/12/24		15.50	-		6.12	1. 0.5m slab obstruction cleared with excavator 2. All wells installed with 50mm PVC. 3. Drilling method - Open hole with air mist. 4. Drilling Rig - Commachio 205CA05. 5. Drilling Diameter - 120mm. 6. Backfill sequence: Cement/bentonite Grout mix - Bentonite Pellets - Sands/filter pack.			
						All dimensions in metres		Scale:	1:89
Method Used: Rotary coring			Plant Used: Comacchio GEO 205		Drilled By: Central Alliance	Logged By: ???	Checked By:		

BOREHOLE LOG

Contract: NT02 Victoria North ISCR Remediation			Client: BAM Nuttall		Borehole: RX1022
Contract Ref: 171111	Start: 17.12.24	Ground Level: ---	National Grid Co-ordinate: E:384637.6 N:399389.5		Sheet: 1 of 1
End: 17.12.24					

Mechanical Log					Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	TCR (%)	SCR (%)	RQD (%)	If (mm)				
						MADE GROUND.	(3.00)	
						Red sands and gravels. (SANDSTONE)	3.00	
							(12.50)	
						Borehole terminated at 15.50m depth.	15.50	

Drilling Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth		
17/12/24		15.50	-		6.19	1. All wells installed with 50mm PVC. 2. Drilling method - Open hole with air mist. 3. Drilling Rig - Commachio 205CA05. 4. Drilling Diameter - 120mm. 5. Backfill sequence: Cement/bentonite Grout mix - Bentonite Pellets - Sands/filter pack.	
All dimensions in metres						Scale:	1:89
Method Used: Rotary coring			Plant Used: Comacchio GEO 205		Drilled By: Central Alliance	Logged By: ???	Checked By: 

BOREHOLE LOG

Contract: NT02 Victoria North ISCR Remediation		Client: BAM Nuttall		Borehole: RX1023
Contract Ref: 171111	Start: 02.07.25 End: 02.07.25	Ground Level: ---	National Grid Co-ordinate: ---	Sheet: 2 of 2

Depth (m)	Samples & Testing			Mechanical Log		Backfill	Water	Description of Strata	Depth (m) (Thickness)	Legend
	No	Type	Results	TCR SCR ROD (%)	If (mm)					
								SANDSTONE. (stratum copied from 3.00m from previous sheet)	(12.00)	
								Terminated at 15.00m.	15.00	

Boring Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)		
Method Used: Rotary Cored						Plant Used: Comacchio 305 Rotary	
Drilled By: Central Alliance						Logged By: ???	
Checked By:						Scale: 1:50	

BOREHOLE LOG

Contract: NT02 Victoria North ISCR Remediation		Client: BAM Nuttall		Borehole: RX1024
Contract Ref: 171111	Start: 02.07.25 End: 02.07.25	Ground Level: ---	National Grid Co-ordinate: ---	Sheet: 1 of 2

Depth (m)	Samples & Testing			Mechanical Log		Backfill	Water	Description of Strata	Depth (m) (Thickness)	Legend
	No	Type	Results	TCR SCR ROD (%)	If (mm)					
								MADE GROUND.		
									(3.00)	
								SANDSTONE.	3.00	

Boring Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)				
02/07/25	17:00	15.00	None	N/R	-				

BOREHOLE LOG

Contract: NT02 Victoria North ISCR Remediation		Client: BAM Nuttall		Borehole: RX1025
Contract Ref: 171111	Start: 02.07.25 End: 02.07.25	Ground Level: ---	National Grid Co-ordinate: ---	Sheet: 1 of 2

Depth (m)	Samples & Testing			Mechanical Log		Backfill	Water	Description of Strata	Depth (m) (Thickness)	Legend
	No	Type	Results	TCR SCR ROD (%)	If (mm)					
								MADE GROUND.		
									(3.00)	
								SANDSTONE.	3.00	

Boring Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)				
02/07/25	17:00	15.00	None	N/R	-				

BOREHOLE LOG

Contract: NT02 Victoria North ISCR Remediation		Client: BAM Nuttall		Borehole: RX1026
Contract Ref: 171111	Start: 02.07.25 End: 02.07.25	Ground Level: ---	National Grid Co-ordinate: ---	Sheet: 1 of 2

Depth (m)	Samples & Testing			Mechanical Log		Backfill	Water	Description of Strata	Depth (m) (Thickness)	Legend
	No	Type	Results	TCR SCR ROD (%)	If (mm)					
								MADE GROUND.		
									(3.00)	
								SANDSTONE.	3.00	

Boring Progress and Water Observations						General Remarks			
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)				
02/07/25	17:00	15.00	None	N/R	-				

APPENDIX B

Well	Date	ERD Injected (m³)	Trace Water Injected (m³)
RBXI001	10-Feb		2.024
RBXI001	11-Feb	0.5	
RBXI001	12-Feb		1
RBXI001	17-Feb		1
RBXI001	04-Mar	0.5	3.7
RBXI001	16-Apr		0.5
Σ		1	8.224
RBXI002	13-Feb		2
RBXI002	14-Feb	0.125	0.125
RBXI002	17-Feb	0.5	2
RBXI002	04-Mar	0.5	3.7
RBXI002	16-Apr		0.5
Σ		1.125	8.325
RBXI003	16-Feb		2
RBXI003	17-Feb	0.5	2
RBXI003	04-Mar	0.25	1.45
RBXI003	05-Mar	0.25	2.25
RBXI003	16-Apr		0.5
RBXI003	14-May	0.5	3.7
Σ		1.5	11.9
RBXI004	12-Feb		2
RBXI004	13-Feb	0.075	
RBXI004	14-Feb	0.3	0.3
Σ		0.375	2.3
RBXI005	17-Feb		0.6
RBXI005	18-Feb	0.25	1.5
RBXI005	04-Mar	0.25	1.45
RBXI005	05-Mar	0.25	2.25
RBXI005	16-Apr		0.5
RBXI005	05-Jun	0.25	1.95
Σ		1	8.25
RBXI006	24-Feb		0.2
RBXI006	25-Feb	0.662	3.662
RBXI006	07-Mar	0.25	1.45
RBXI006	11-Mar	0.25	2.25
RBXI006	16-Apr		0.5
RBXI006	14-May	0.5	3.7
RBXI006	05-Jun	0.2635	1.9635
Σ		1.9255	13.7255
RBXI007	25-Feb	0.075	0.295
RBXI007	07-Mar	0.25	1.45
RBXI007	11-Mar	0.25	2.25
RBXI007	16-Apr		0.5
Σ		0.575	4.495
RBXI008	25-Feb	0.25	1.45
RBXI008	26-Feb	0.425	3.575
RBXI008	11-Mar	0.25	1.45
RBXI008	12-Mar	0.25	2.25
RBXI008	16-Apr		0.5
RBXI008	04-Jun	0.5	3.7
Σ		1.675	12.925
RBXI009	24-Feb		0.2
RBXI009	25-Feb	0.088	0.109
Σ		0.088	0.309
RBXI010	26-Feb	0.25	1.45
RBXI010	27-Feb	0.25	2.25
RBXI010	11-Mar	0.25	1.45
RBXI010	12-Mar	0.25	2.25
RBXI010	16-Apr		0.5
Σ		1	7.9
RBXI011	18-Feb	0.29	2.65
RBXI011	19-Feb	0.25	2.067
RBXI011	05-Mar	0.5	3.7
RBXI011	16-Apr		0.5
Σ		1.04	8.917
RBXI012	18-Feb	0.29	2.55
RBXI012	19-Feb	0.25	0.62
RBXI012	20-Feb		1.8
RBXI012	05-Mar	0.5	1.7
RBXI012	07-Mar		2
RBXI012	16-Apr		0.5
Σ		1.04	9.17
RBXI013	17-Feb		0.55
RBXI013	18-Feb	0.17	1.45
RBXI013	11-Mar		0.2
RBXI013	12-Mar	0.222	0.222
RBXI013	16-Apr		0.5
Σ		0.392	2.922
RBXI014	26-Feb		0.2
RBXI014	27-Feb	0.5	3.5
RBXI014	11-Mar		0.2
RBXI014	12-Mar	0.528	3.528
RBXI014	16-Apr		0.5
RBXI014	05-Jun	0.4865	3.7865
Σ		1.5145	11.7145
RBXI015	26-Feb		0.2
RBXI015	27-Feb	0.5	3.5
RBXI015	12-Mar	0.25	1.45
RBXI015	16-Apr		0.5
Σ		0.75	5.65
RBXI016	26-Feb	0.25	1.45
RBXI016	27-Feb	0.25	2.25
RBXI016	16-Apr		0.5
RBXI016	14-May	0.25	1.45
RBXI016	15-May	0.25	2.25
Σ		1	7.9
RBXI017	26-Feb		0.2
RBXI017	27-Feb	0.25	1.25
RBXI017	28-Feb	0.25	2.25
RBXI017	16-Apr		0.5
Σ		0.5	4.2
RBXI018	26-Feb		0.2
RBXI018	27-Feb	0.25	1.25
RBXI018	28-Feb	0.25	2.25
RBXI018	16-Apr		0.5
RBXI018	04-Jun	0.5	3.7
Σ		1	7.9
RBXI019	20-Feb	0.166	1.209
RBXI019	21-Feb	0.334	1.627
RBXI019	06-Mar	0.5	3.7
RBXI019	16-Apr		0.5
Σ		1	7.036
RBXI020	21-Feb	0.25	1.486
RBXI020	24-Feb	0.25	2.25
RBXI020	06-Mar	0.5	3.7
RBXI020	16-Apr		0.5
Σ		1	7.936
RBXI021	21-Feb	0.25	1.771
RBXI021	24-Feb	0.25	2.25
RBXI021	06-Mar	0.25	1.45
RBXI021	07-Mar	0.25	2.25
RBXI021	16-Apr		0.5
Σ		1	8.221
RBXI022	20-Feb	0.25	2
RBXI022	21-Feb	0.25	1.705
RBXI022	06-Mar	0.25	1.45
RBXI022	07-Mar	0.25	2.25
RBXI022	16-Apr		0.5
Σ		1	7.905
RBXI023	14-May	0.25	1.45
RBXI023	15-May	0.25	2.25
RBXI023	03-Jun	0.5	3.7
Σ		1	7.4
RBXI024	15-May	0.5	3.7
RBXI024	03-Jun	0.5	3.7
Σ		1	7.4
RBXI025	13-May	0.5	3.7
RBXI025	03-Jun	0.25	1.05
RBXI025	04-Jun	0.25	2.65
Σ		1	7.4
RBXI026	13-May	0.5	3.7
RBXI026	15-May	0.5	3.7
RBXI026	03-jun	0.25	1.05
RBXI026	04-jun	0.25	2.65
Σ		1.5	11.1
Total Volume Injected (m³):		26	201.125
Total Volume Injected (L):		26 000	201125

APPENDIX C

R0001									
Unit ID	Date	DTW (m/DC)	Temp (C)	DO (%)	DO (mg/l)	Cond (uS/cm)	pH	ORP (mV)	Redox Delta
19-Jan	5:05	11.1	31.5	2.825	455	6.47	340.0	105.03	
19-Feb	5:35	6.8	46.3	3.41	520	6.49	336.3	102.49	
19-Feb	5:54	7.6	6.3	0.02	1180	6.3	87.2	114.00	
19-Mar	5:26								
20-May	5:55	14.8	50.5	5.11	1023	6.58	-2.2	200.64	345.50
15-Apr	5:52	11.8	48.2	4.59	1000	6.59	-0.62	151.29	
15-May	6:13	14.3	38.1	4.07	144	6.41	-28.3	183.89	

R0002									
Unit ID	Date	DTW (m/DC)	Temp (C)	DO (%)	DO (mg/l)	Cond (uS/cm)	pH	ORP (mV)	Redox Delta
21-Jan	5:36	11.2	6.7	0.003	1205	6.78	5.87	220.73	
21-Jan	5:36	11.2	6.3	0.471	885	6.58	33.3	190.46	
17-Feb	5.7	7.5	-0.1	-0.01	1720	5.86	-126.5	96.46	
20-Feb	5:06	11.4	4.3	0.006	1095	6.77	-73	143.20	
20-May	5:05	10.4	34.4	3.39	1389	6.86	-220.5	-13.59	
21-May	5:56	10.7	3	0.23	985	5.8	-234.3	110.59	339.82
19-May	5:06	11.1	4	0.43	965	5.93	-41.4	174.53	
15-May	6:24	10.8	1.5	0.19	59.8	5.93	-15.1	182.34	

R0003									
Unit ID	Date	DTW (m/DC)	Temp (C)	DO (%)	DO (mg/l)	Cond (uS/cm)	pH	ORP (mV)	Redox Delta
21-Jan	5:59	8.6	3.3	0.32	960	5.3	220.3	426.29	
17-Feb	1:00	6.1	0.3	0.03	1055	5.97	122.1	340.03	
20-Feb	5:49	11.3	28.5	2.05	1035	5.98	-51	403.29	
19-May	6.4	10.9	8	0.9	1062	5.98	-45.0	120.74	
19-May	5:08	10.4	0.5	0.03	1467	6.02	-102	113.89	228.24
15-Apr	6:15	11.7	67.3	7.04	2585	6.17	140.9	68.01	
15-May	6:51	10.8	-3.3	0.27	2159	6.32	-103.2	133.56	

R0004									
Unit ID	Date	DTW (m/DC)	Temp (C)	DO (%)	DO (mg/l)	Cond (uS/cm)	pH	ORP (mV)	Redox Delta
21-Jan	6.4	11.1	28.3	2.855	660	6.29	87.4	90.3	
17-Feb	4:00	6.8	0.3	4.2	1050	6.86	2.4	218.84	
19-Feb	4:00	11.1	8.3	0.06	2295	6.89	60.4	153.53	
20-May	4:00	6.8	16.3	1.87	1053	6.94	-40.3	155.24	
21-May	4:06	9.5	19.8	1.8	1284	5.87	-47.4	167.76	134.15
15-May	4:00	11.1	1.8	0.18	1453	5.96	-38.3	153.61	
20-Apr	4.7	11.3	11.3	1.28	355	5.86	-145.5	49.55	

R0005									
Unit ID	Date	DTW (m/DC)	Temp (C)	DO (%)	DO (mg/l)	Cond (uS/cm)	pH	ORP (mV)	Redox Delta
15-Jan	5:10	11.2	28.8	2.368	778	6.89	46.5	282.85	
17-Feb	5:32	9.8	12.3	1.48	585	6.87	38.3	248.24	
20-May	5:22	5.9	14.8	1.84	655	6.12	-47.7	150.67	
20-May	5:19	12.4	6	0.7	607	5.72	-16.3	178.62	84.84
15-Apr	5:40	13.4	1.4	0.15	790	6.23	127.5	83.52	
15-May	5:27	34.3	1.6	0.17	1181	6.20	-17.4	184.79	

R0006									
Unit ID	Date	DTW (m/DC)	Temp (C)	DO (%)	DO (mg/l)	Cond (uS/cm)	pH	ORP (mV)	Redox Delta
19-Jan	6:12	11.4	11.8	0.092	1020	6.81	113.4	265.20	
24-Feb	5:49	11.3	28.5	0.27	760	6.84	148.5	260.79	
21-May	5:54	11.8	1.8	0.06	2444	7.07	102.2	51.3	
20-May	5:53	8.2	4.7	0.32	835	5.9	-31.3	184.09	
20-May	5.8	11	0	4.3	875	5.9	22.4	233.3	139.82
15-May	5:57	11.8	65	8.75	875	6.93	-55.5	156.14	
15-May	6.1	11.5	31.3	3.33	98.4	6.14	19.3	229.55	

R0007									
Unit ID	Date	DTW (m/DC)	Temp (C)	DO (%)	DO (mg/l)	Cond (uS/cm)	pH	ORP (mV)	Redox Delta
17-Jan	6:09	11	7.4	0.665	754	5.97	86.4	285.9	
20-May	5:52	7	4.8	0.51	577	7.05	-8	260.9	
20-May	5:52	10.8	20.3	2.83	618	7.1	-5	205.64	
19-May	5:02	10.8	4.3	0.47	960	6.32	-130	84.9	
20-May	5:02	11.3	1.8	0.4	954	5.99	-153	51.75	238.15
18-Apr	6:05	10.1	36	3.63	2333	6.19	-66.3	127.49	
15-May	6:05	10.9	39.8	3.91	45.3	5.85	19	228.64	

R0008									
Unit ID	Date	DTW (m/DC)	Temp (C)	DO (%)	DO (mg/l)	Cond (uS/cm)	pH	ORP (mV)	Redox Delta
21-Jan	6:23	11.1	0.5	0.045	1139	6.83	18	228.43	
17-Feb	5:51	6.4	10.8	1.4	867	6.82	23.2	229.45	
20-Feb	5:57	8.8	19.3	2.19	870	6.72	5.5	225.98	
19-May	5:26	10.8	21.4	0.09				150.59	
20-May	5:54	11.2	1.8	0.19	960	5.87	-45.0	120.59	
15-May	5.8	11.7	35.3	3.58	1325	6.77	-36	183.51	74.42
15-May	5:00	14.3	47.8	4.85	1071	7.1	-65.7	161.49	
15-May	6:10	10.5	1.3	0.13	82.4	6.17	-19	180.26	

R0009									
Unit ID	Date	DTW (m/DC)	Temp (C)	DO (%)	DO (mg/l)	Cond (uS/cm)	pH	ORP (mV)	Redox Delta
20-Jan	4:47	10.3	35.3	0.109	1703	6.57	156.0	371.59	
20-May	4:57	10.3	49.5	0.22	1185	6.7	133.2	268.19	
20-May	4:55	10.3	3.3	0.38	1183	6.27	-32.4	182.66	
19-May	4.4	10.3	4.3	0.44	1215	6.1	-26.3	178.19	102.44
15-Apr	4:52	12.8	7.3	0.79	2106	5.83	-29.8	182.29	
15-May	4:51	10.5	5.2	0.9	184.6	5.86	-124.8	85.51	

R0010									
Unit ID	Date	DTW (m/DC)	Temp (C)	DO (%)	DO (mg/l)	Cond (uS/cm)	pH	ORP (mV)	Redox Delta
19-Jan	5:42	11.3	10.7	0.945	660	6.29	14.4	129.89	
20-Feb	6:13	8.7	14.3	0.12	820	6.82	-79.3	138.11	
17-Feb	6.02	11.3	0.06	0.06	2195	6.89	10.4	136.19	
19-May	6:03	8.5	2.6	0.22	1051	5.83	-60.7	124.85	
19-May	6:07	12.8	4.5	0.06	4109	6.07	-11.8	201.49	27.45
15-Apr	6:03	11.2	2.3	0.23	1073	5.99	-158.9	51.90	
15-May	6.2	10.2	0.7	0.1	140	6.05	-115.5	89.76	

R0011									
Unit ID	Date	DTW (m/DC)	Temp (C)	DO (%)	DO (mg/l)	Cond (uS/cm)	pH	ORP (mV)	Redox Delta
19-Jan	6:08	11.2	4.5	0.405	995	6.86	45.3	232.89	
19-Feb	5:52	7	4.8	0.51	977	7.05	-8	260.9	
20-Feb	5:51	10.9	0.7	0.09	1706	6.54	-74.7	139.67	
20-May	6:03	9.8	7.4	0.39	1465	5.75	-200.8	41.53	
20-May	5:59	10.2	3	0.33	680	5.87	-203.8	89.84	340.7
14-May	6:23	10.2	6.3	0.89	683	6.31	113.9	161.19	
15-May	6.3	10.4	3	0.33	140	6.24	-41.4	133.02	

R0012									
Unit ID	Date	DTW (m/DC)	Temp (C)	DO (%)	DO (mg/l)	Cond (uS/cm)	pH	ORP (mV)	Redox Delta
21-Jan	6:18	11.2	0.4	0.006	100.3	6.49	40.8	161.49	
20-May	6:28	10.8	3	0.02	2072	7.05	148.3	86.29	
20-May	3:09	10.5	2.8	0.28	1188	6.14	-248.7	-33.85	
20-May	6.07	12	2.3	0.25	932	6.27	-89.4	70.5	227.85
14-Apr	5:53	12.3	1.3	0.14	820	6.28	-127.2	85.89	
15-May	6:07	10.1	-46.5	0.99	81	5.9	-7	203.95	

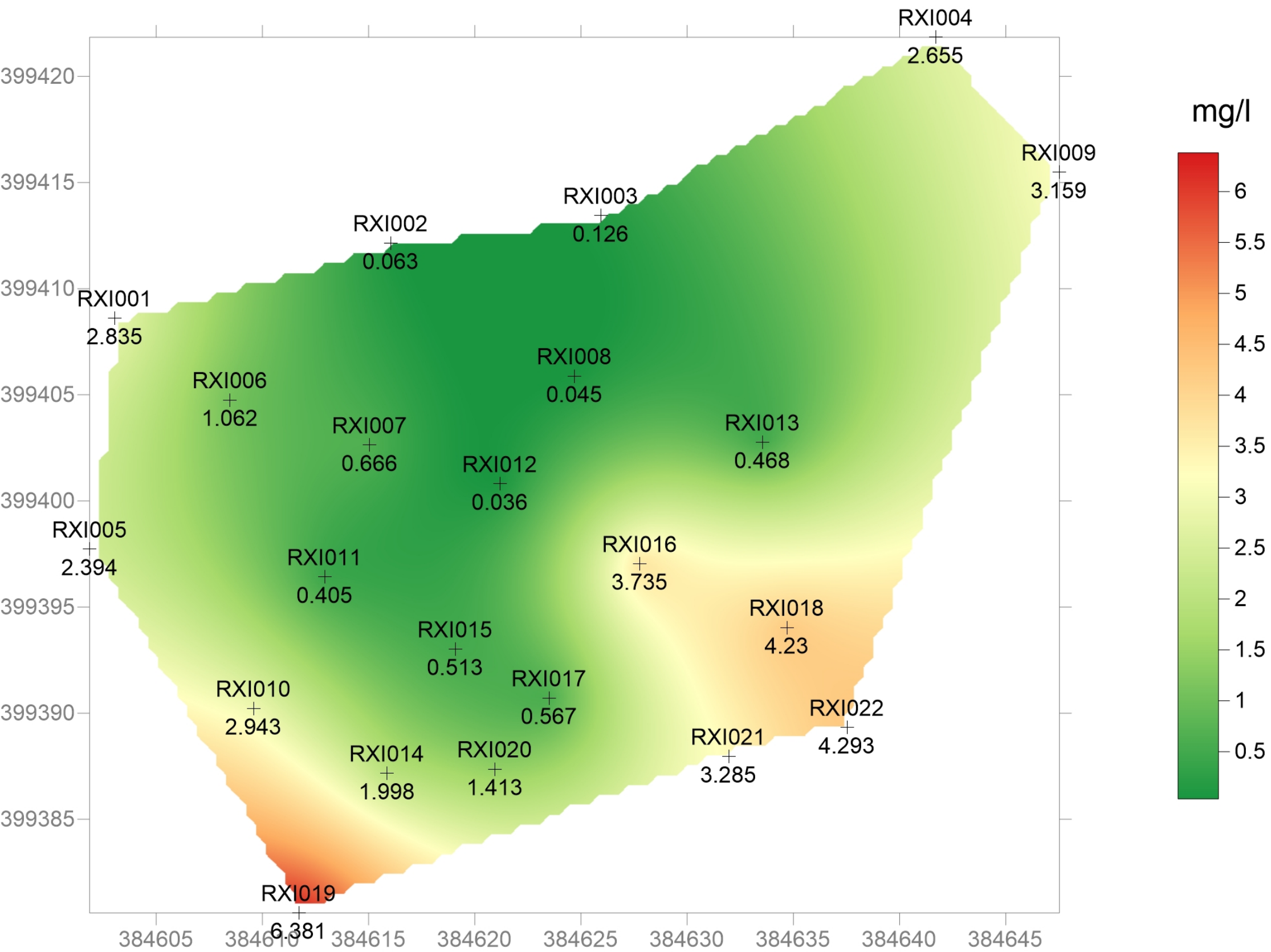
R0013									
Unit ID	Date	DTW (m/DC)	Temp (C)	DO (%)	DO (mg/l)	Cond (uS/cm)	pH	ORP (mV)	Redox Delta
21-Jan	6.42	10.8	5.2	0.485	1420	6.48	156.2	170.84	
17-Feb	6.05	11.1	0.1	0.38	1261	6.48	30.6	206.1	
20-May	5:47	10.4	10.8	1.21	1359	6.15	-41.9	103.02	
20-May	6.01	10.1	4.4	0.5	963	6.32	-32.3	183.09	209.81
15-May	6:07	14.2	2.6	0.28	194	5.95	-75.3	137.18	
15-May	7:13	11.8	1.9	0.43	178.5	6.12	-46.4	188.68	

R0014									
Unit ID	Date	DTW (m/DC)	Temp (C)	DO (%)	DO (mg/l)	Cond (uS/cm)	pH	ORP (mV)	Redox Delta
19-Jan	5:45	11.2	22.3	1.908	920	6.87	147.1	186.89	
20-Feb	5:44	10.8	23.4	2.58	790	6.89	-10	146.70	
17-Feb	5:52	9	7.3	0.06	1706	6.89	10.4	136.19	
19-May	5:51	8.9	8.9	0.40	1433	5.75	-21.8	103.27	
19-May	6:04	11.8	5.2	0.55	1029	5.29	-2.3	211.89	100.02
15-Apr	5:08	11.2	2.3	0.22	695	6.38	-77.3	138.89	
15-May	6:26	11.8	1.7	0.19	96.3	6.21	-14.7	227.38	

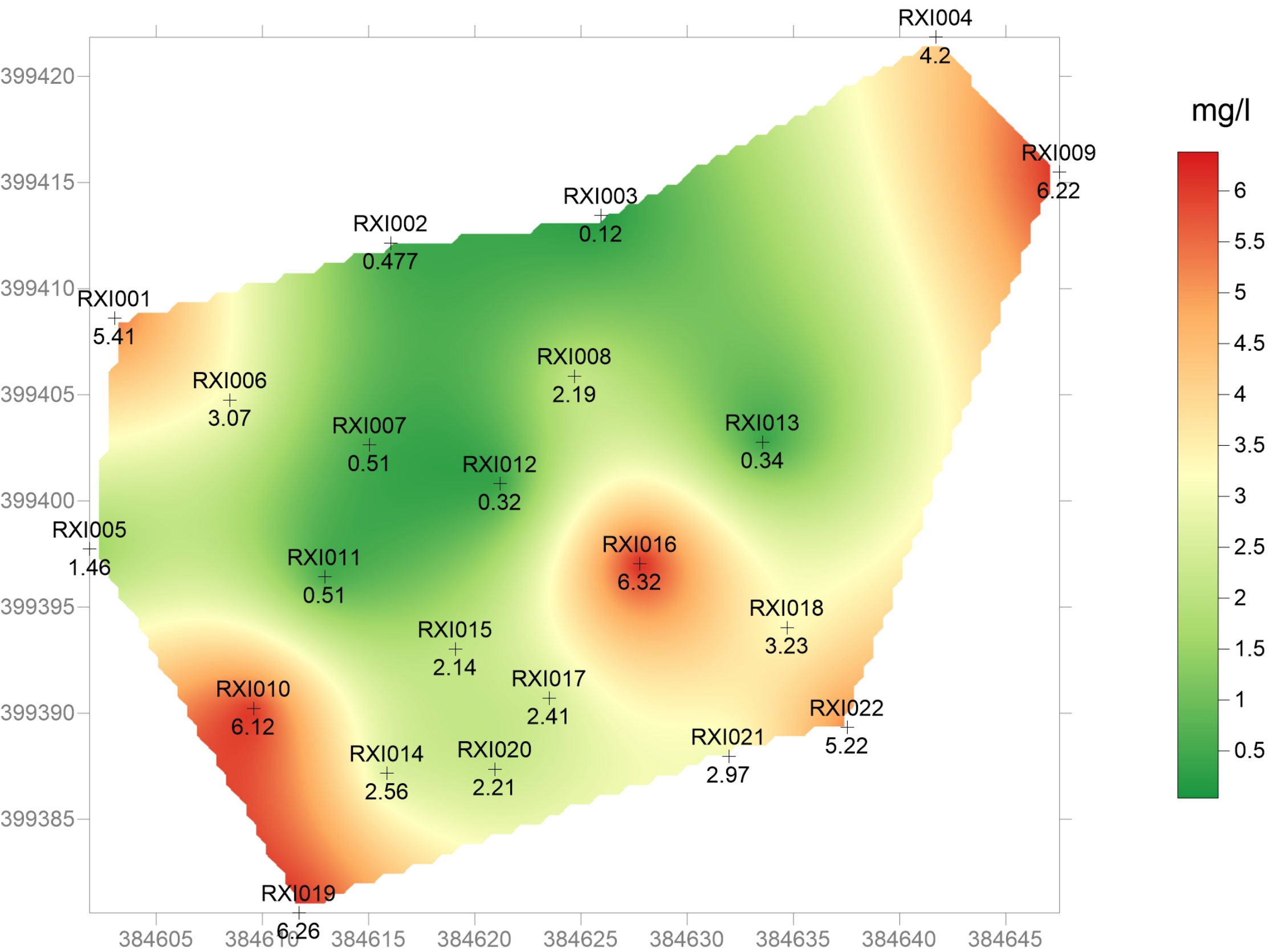
Unit ID	R0015								
Date	DTW (m/DC)	Temp (°C)	DO (%)	DO (mg/l)	Cond (uS/cm)	pH	ORP (mV)	Redox	Delta
17-Jan	6.44	11.2	5.7	0.513	1112	6.59	77.4	291.97	
20-May	5:05	10.9	19.7	2.14	820	6.76	-144	71.55	
17-Feb	5:57	8.7	6.4	0.09	2029	7.03	-103.3	163.37	
20-May	6:01	10.5	3.7	0.4	1444	5.88	-8	206.79	
20-May	5:02	14.3	4	0.43	790	5.68	-111	171.09	120.88
14-Apr	6.14	12.2	2.1	0.22	1150	6.14	-120.8	92.96	
01-May		13.5	1.9	0.2	155.9	5.64	71.6	284.35	

APPENDIX D

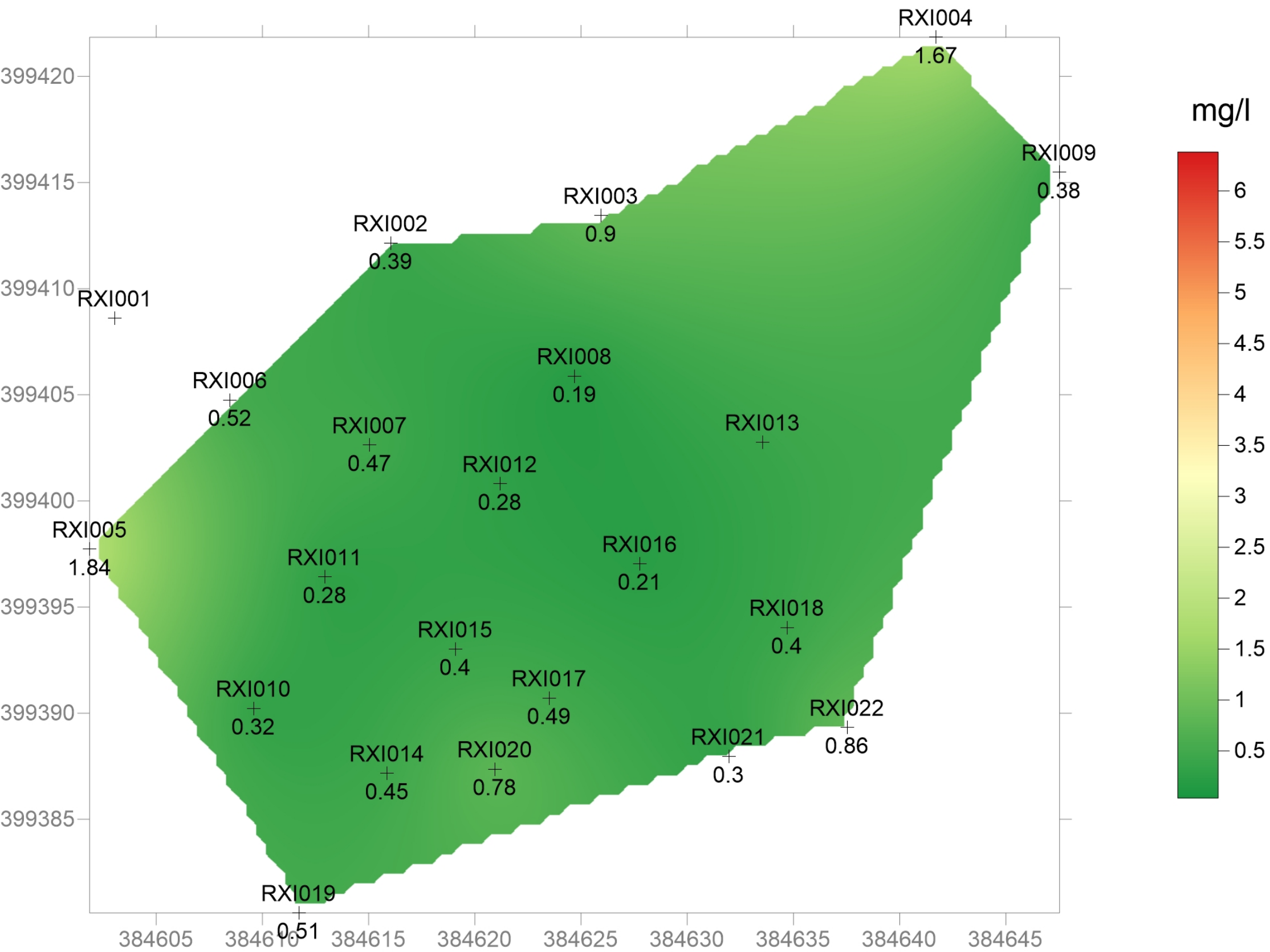
Dissolved Oxygen 15th to 23rd January



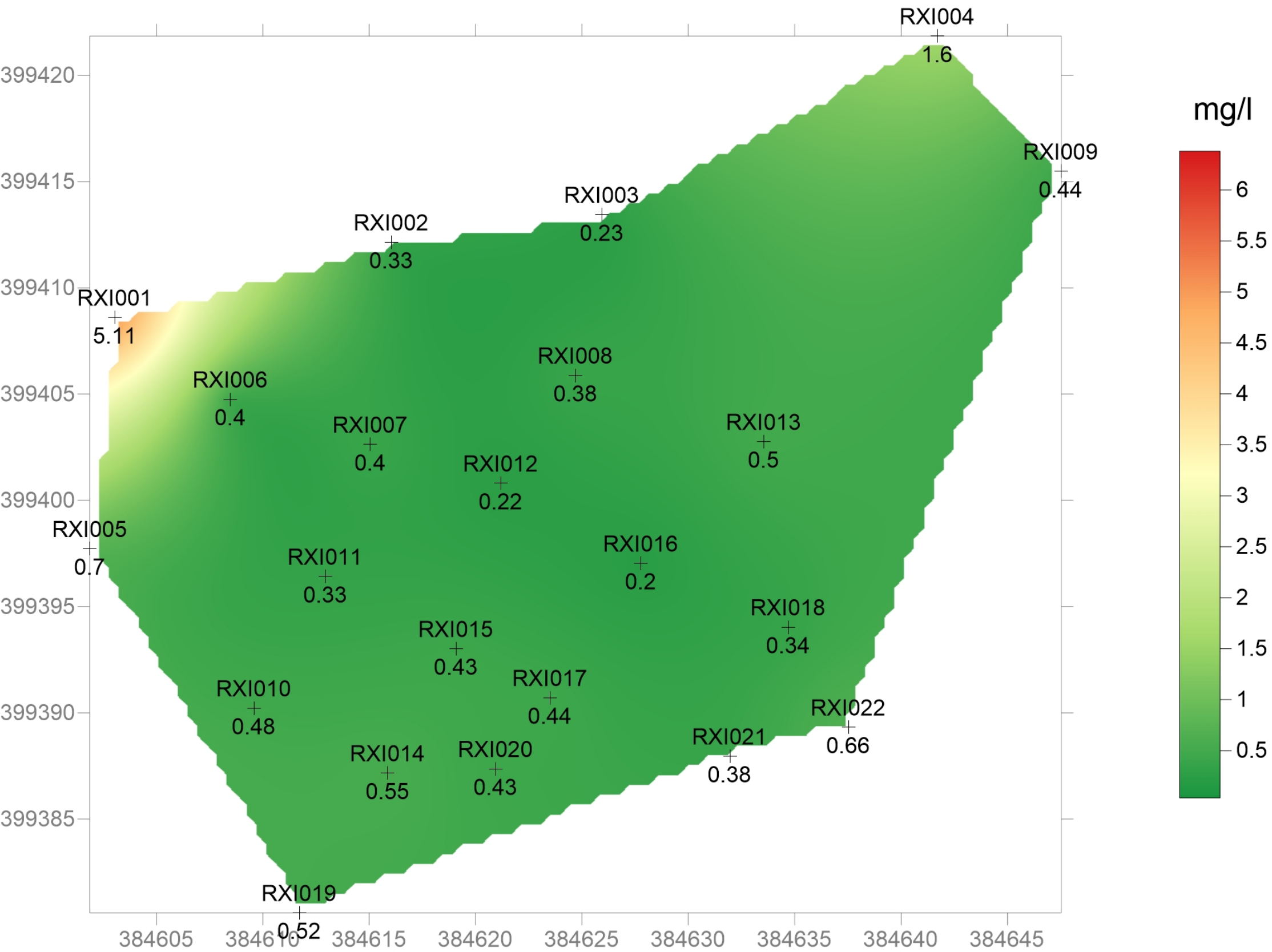
Dissolved Oxygen 10th to 26th of February



Dissolved Oxygen 3rd of March - Early March



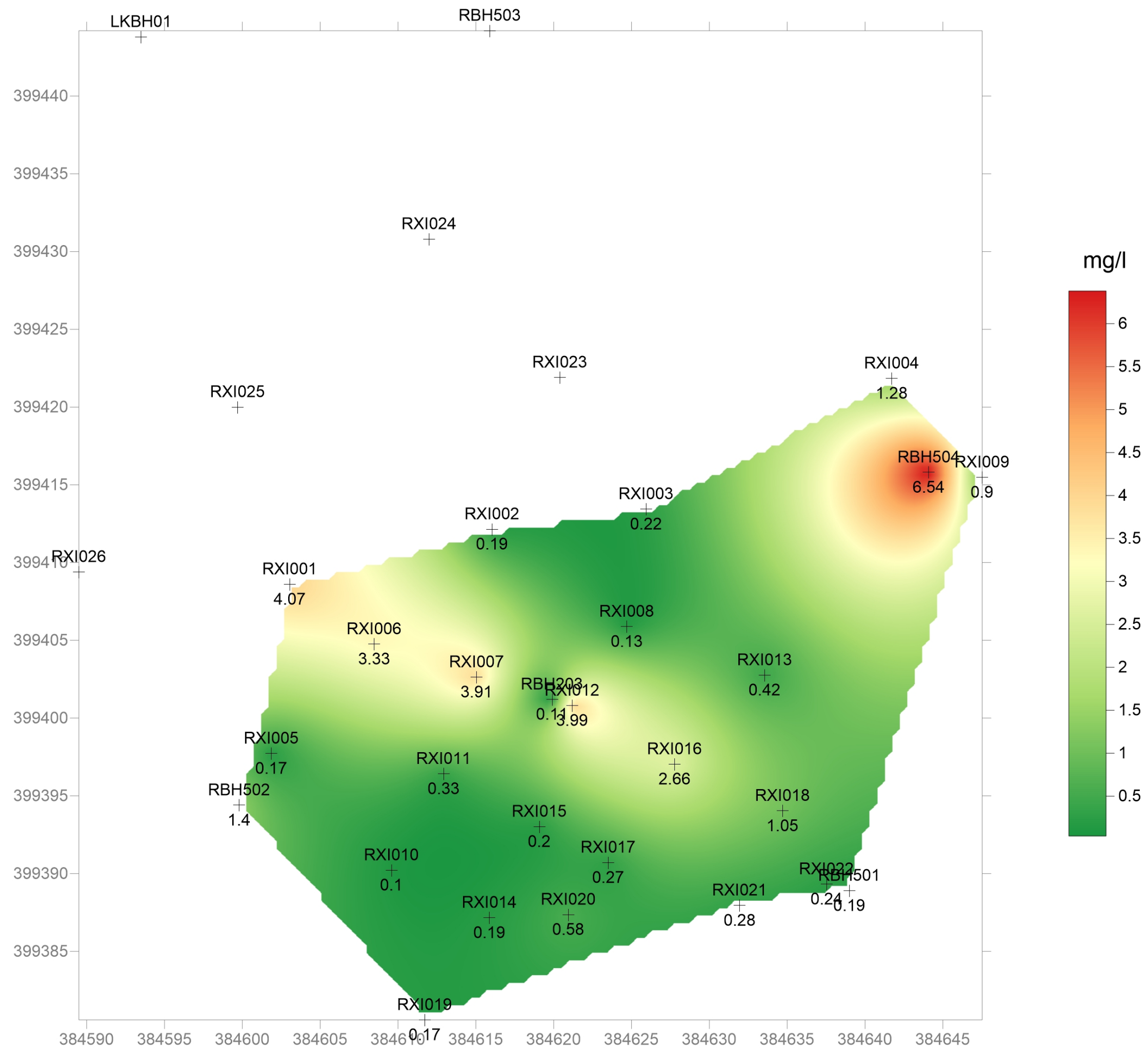
Dissolved Oxygen 20th to 21st of March - Late March



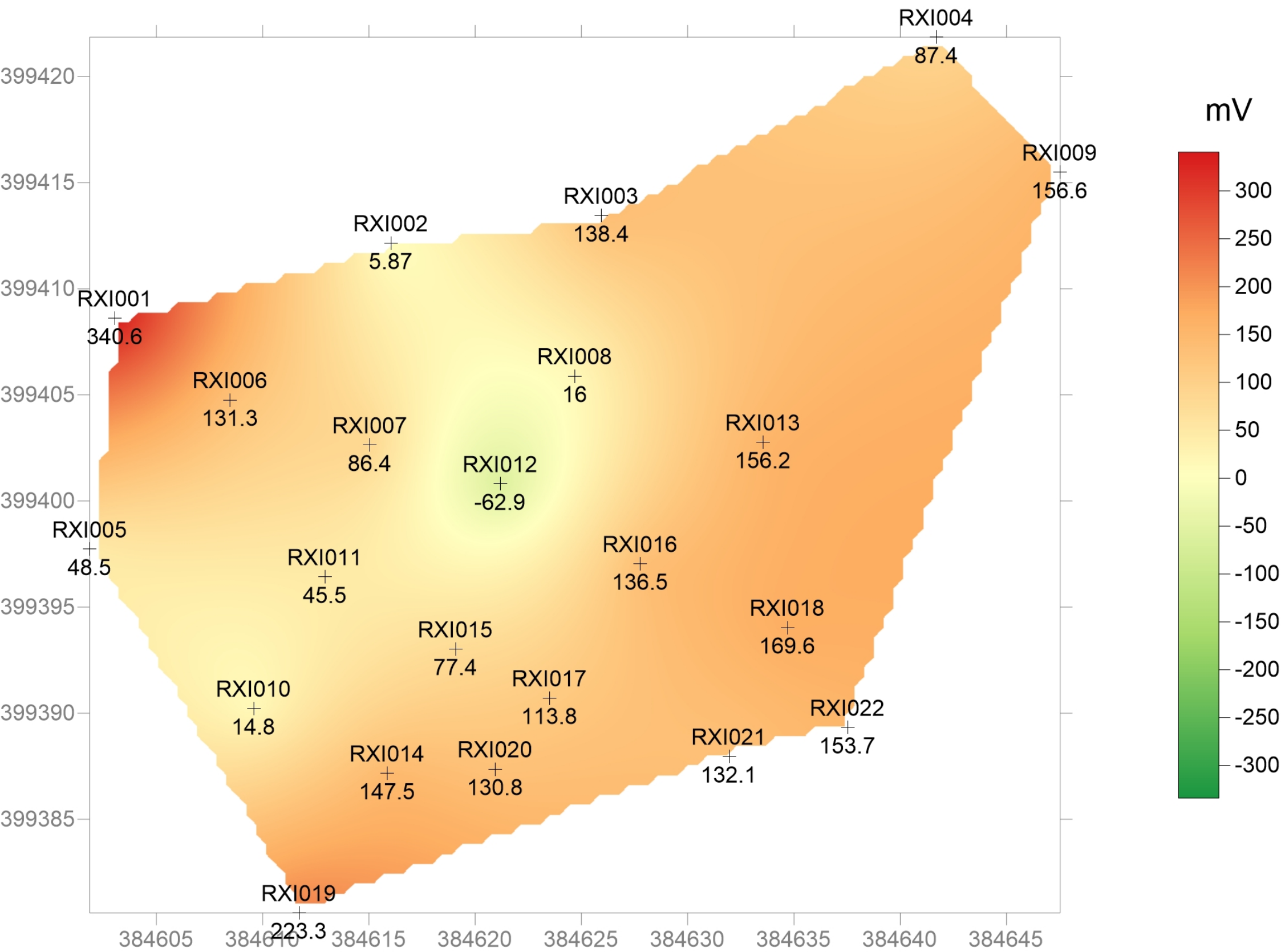
Dissolved Oxygen 9th to 15th of April



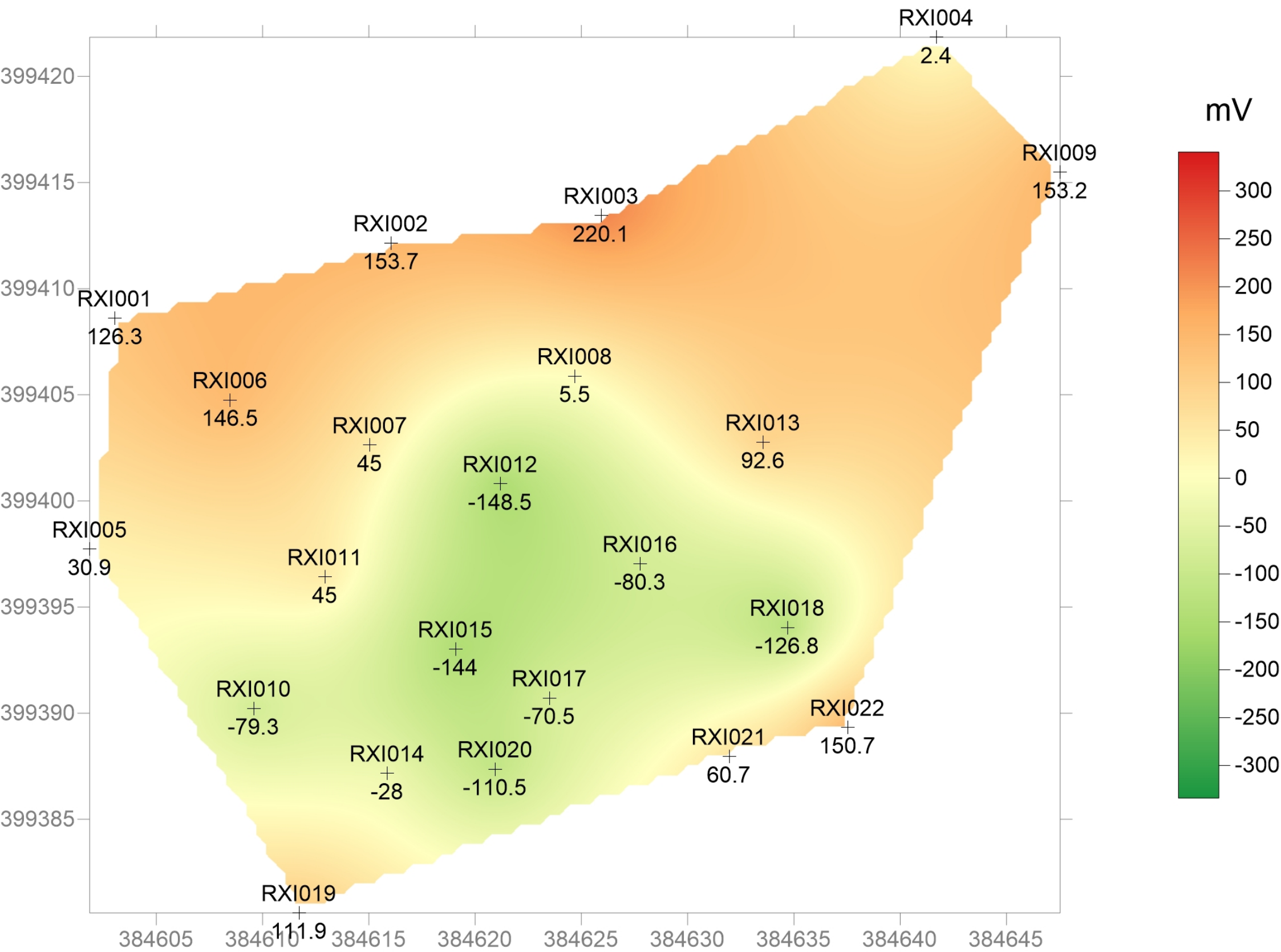
Dissolved Oxygen 30th April to 1st May



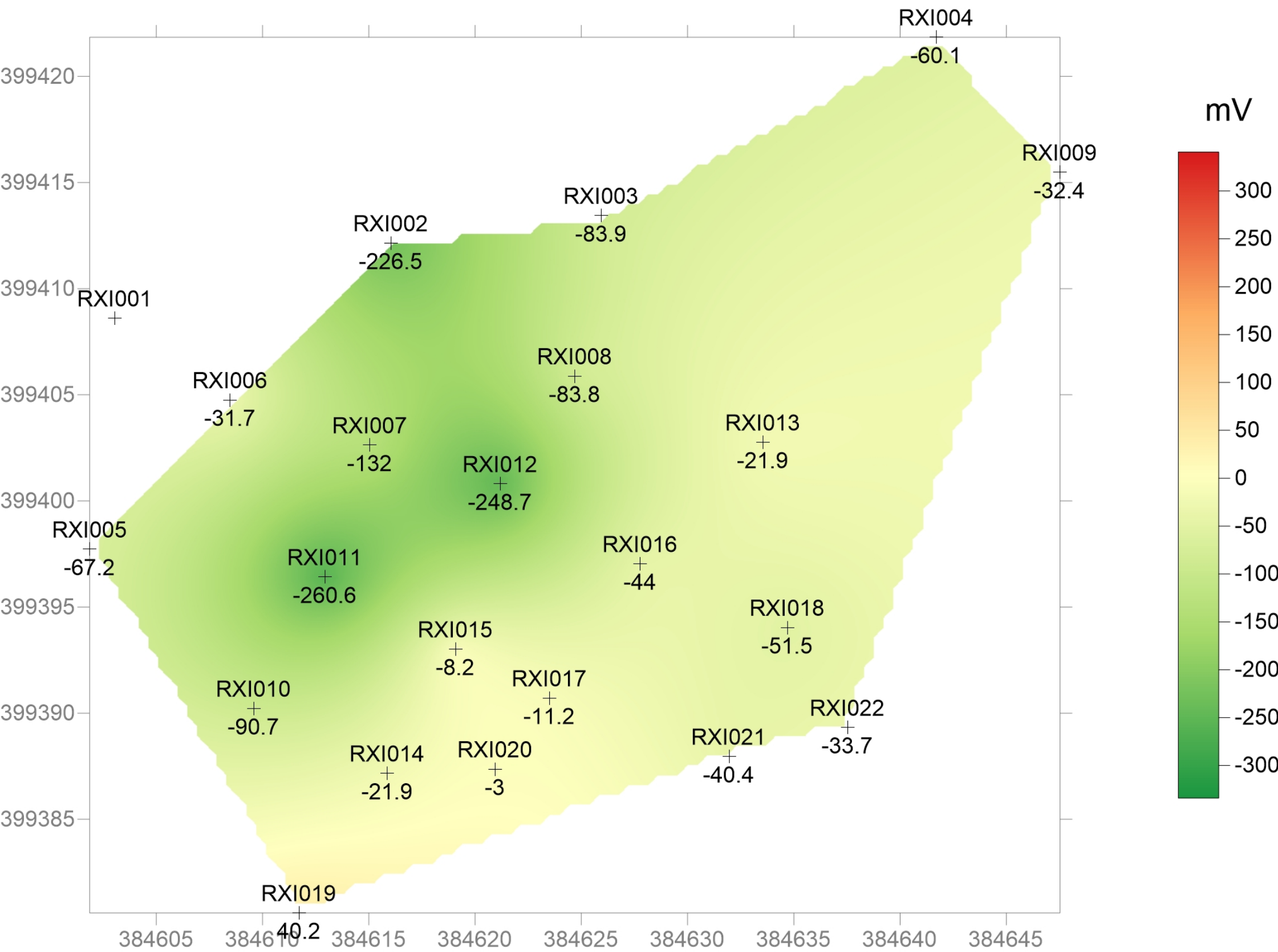
Oxidation-Reduction Potential 15th to 23rd Jan



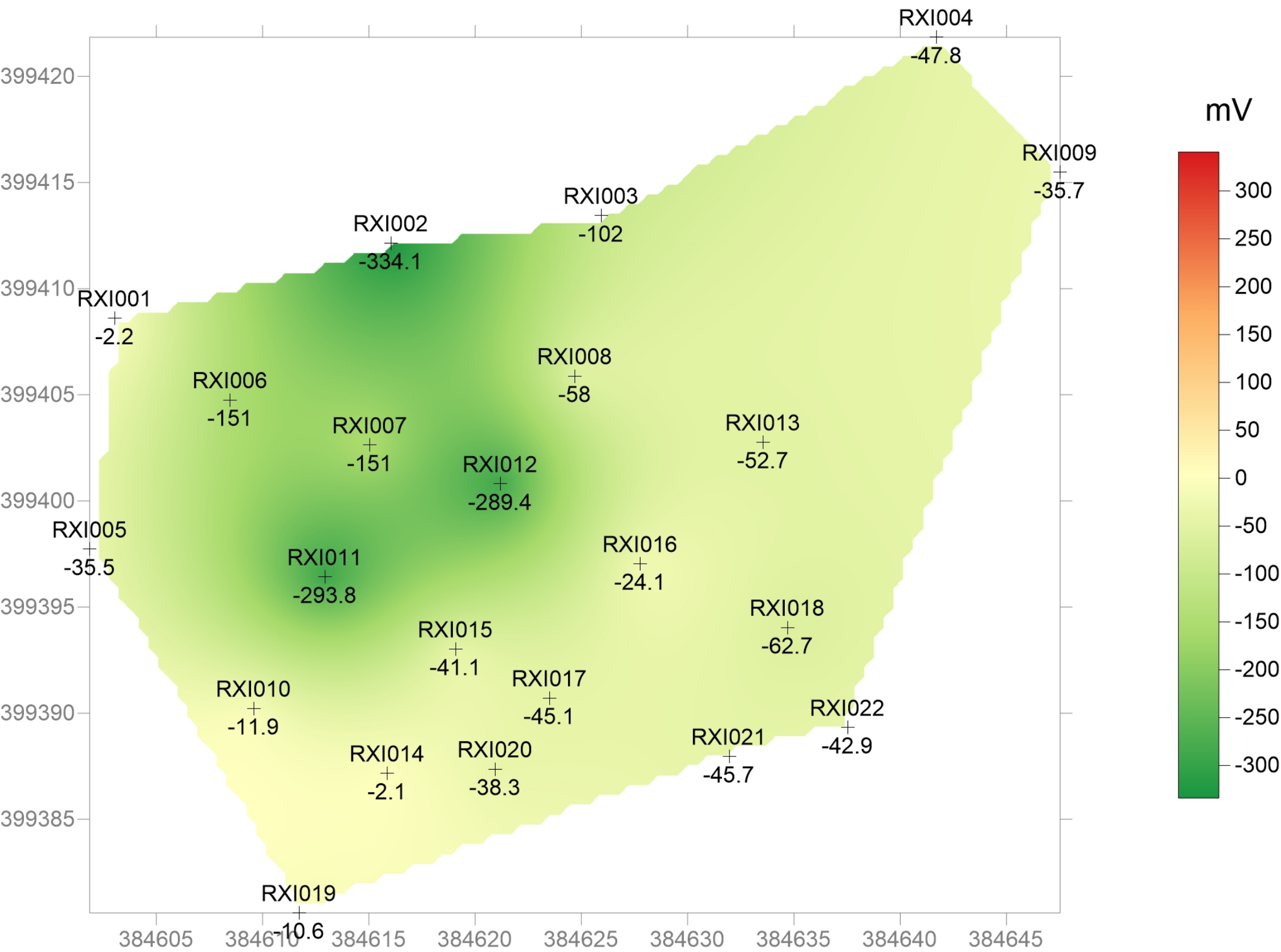
Oxidation-Reduction Potential 10th to 26th February



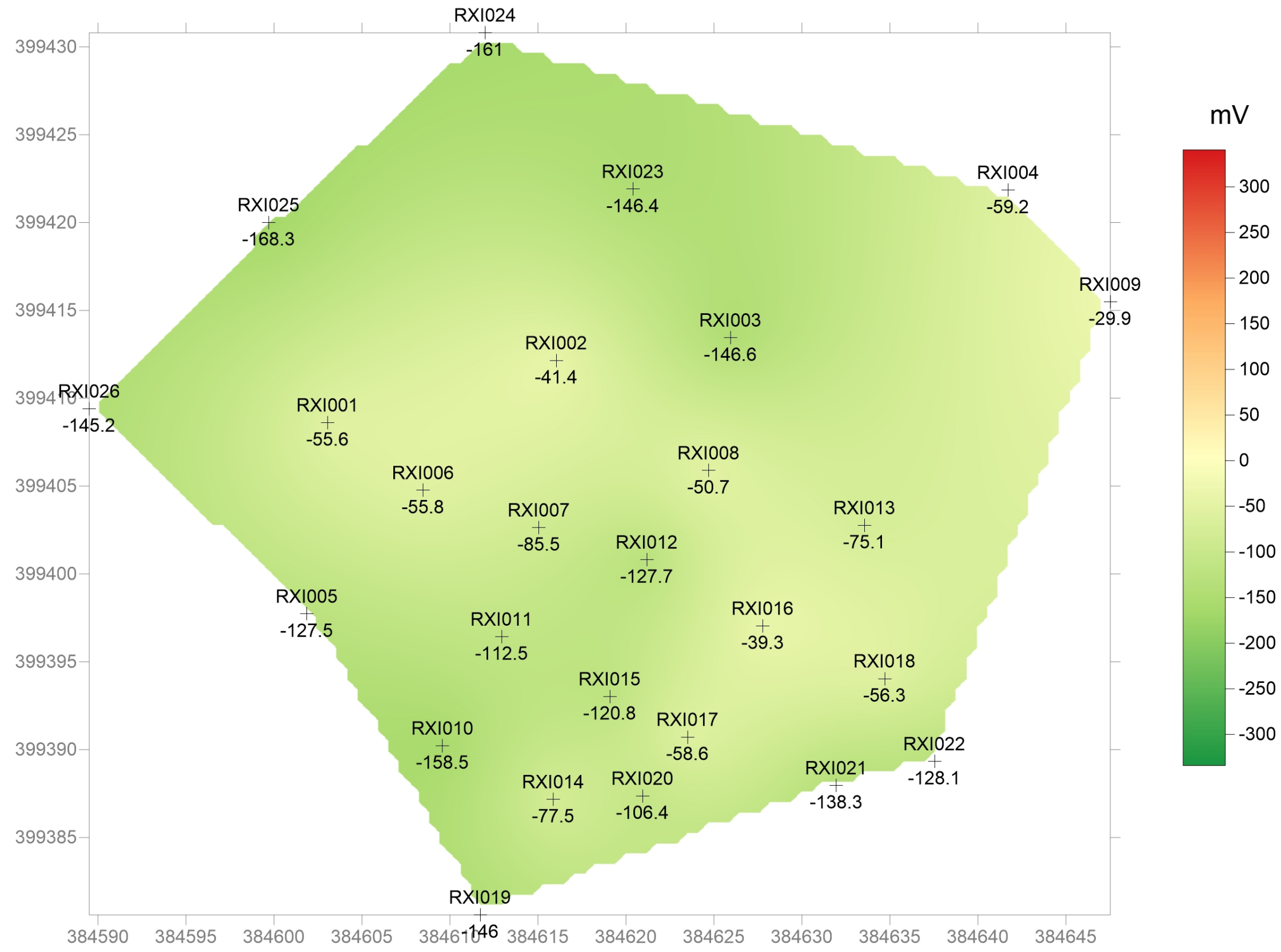
Oxidation-Reduction Potential 3rd March - Early March



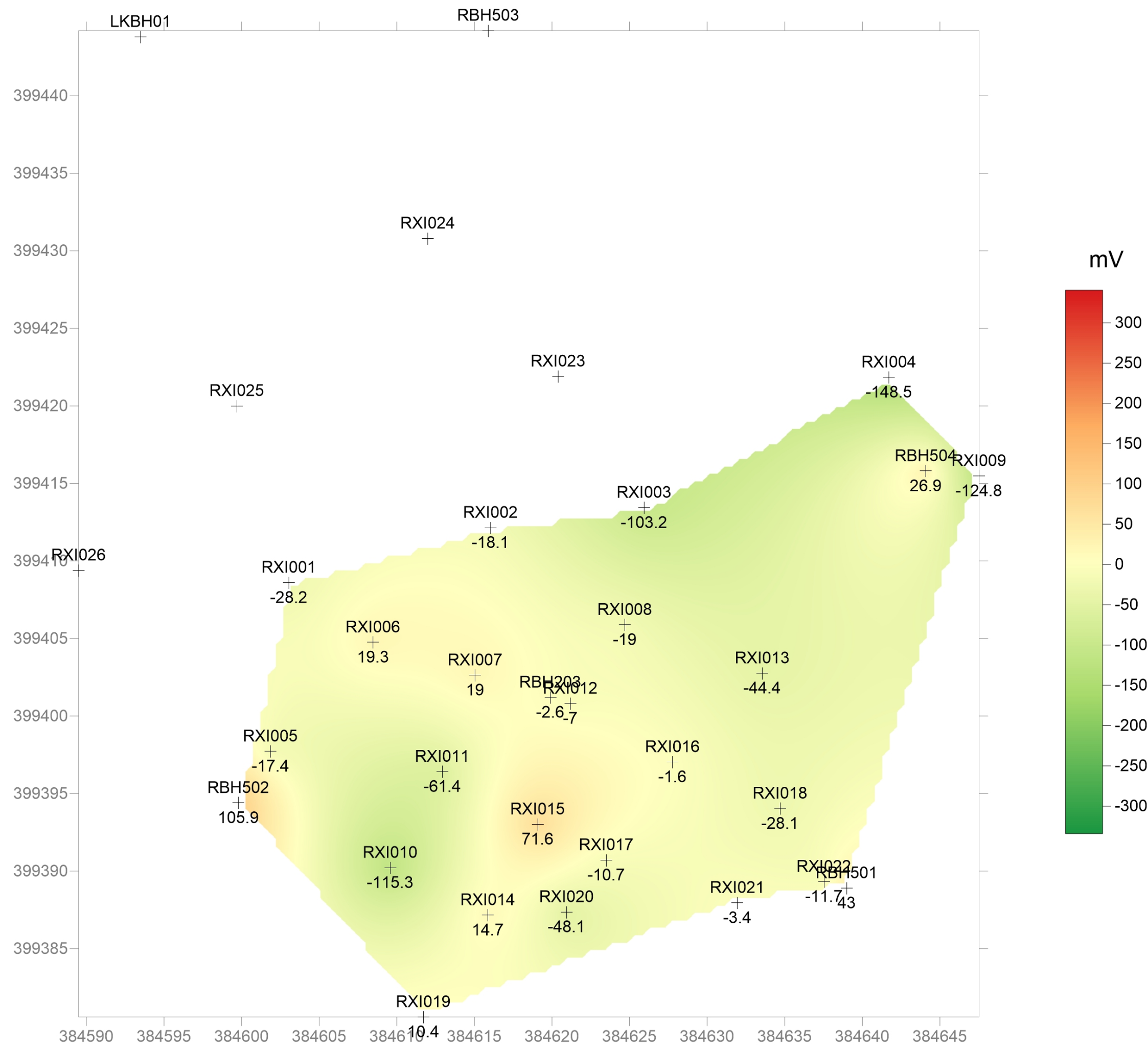
Oxidation-Reduction Potential 20th to 21st Match - Late March



Oxidation-Reduction Potential 9th to 15th April



Oxidation-Reduction Potential 30th April to 1st May



APPENDIX E

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 25/00353

Issue Number: 1

Date: 21 January, 2025

Client: REMEDX Bristol
The Old School
Stillhouse Lane
Bedminster
Bristol
UK
BS3 4EB

Project Manager: Pete Findon/Sam Cowell

Project Name: Vic. North

Project Ref: 171111

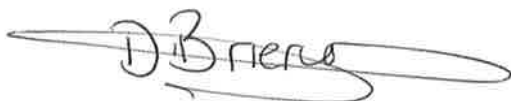
Order No: P1028621

Date Samples Received: 17/01/25

Date Instructions Received: 20/01/25

Date Analysis Completed: 21/01/25

Approved by:



Danielle Brierley
Client Services Supervisor

Envirolab Job Number: 25/00353

Client Project Name: Vic. North

Client Project Ref: 171111

Lab Sample ID	25/00353/1	25/00353/2	25/00353/3	25/00353/4	25/00353/5	25/00353/6	25/00353/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RXI007	RXI006	RXI001	RXI010	RXI014	RXI011	RXI019			
Depth to Top	13.00	12.66	13.00	13.00	13.00	13.00	13.00			
Depth To Bottom										
Date Sampled	17-Jan-25	16-Jan-25	16-Jan-25	16-Jan-25	16-Jan-25	16-Jan-25	16-Jan-25			
Sample Type	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
VOC (w)										
Dichlorodifluoromethane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Chloromethane _A	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-006w
Vinyl Chloride _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromomethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Chloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	<1	1	1	<1	<1	<1	<1	µg/l	1	A-T-006w
Dichloromethane _A	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	3	8	23	1	2	5	<1	µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-006w
Chloroform _A [#]	66	275	246	47	116	83	13	µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Benzene _A [#]	1	1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	36	316	423	165	277	245	120	µg/l	1	A-T-006w
Dibromomethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-006w
Trichloroethene _A [#]	486	897	373	220	732	489	3	µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	<1	5	4	1	4	2	<1	µg/l	1	A-T-006w
Toluene _A [#]	1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Tetrachloroethene _A	<1	2	2	<1	2	1	<1	µg/l	1	A-T-006w

Envirolab Job Number: 25/00353

Client Project Name: Vic. North

Client Project Ref: 171111

Lab Sample ID	25/00353/1	25/00353/2	25/00353/3	25/00353/4	25/00353/5	25/00353/6	25/00353/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RXI007	RXI006	RXI001	RXI010	RXI014	RXI011	RXI019			
Depth to Top	13.00	12.66	13.00	13.00	13.00	13.00	13.00			
Depth To Bottom										
Date Sampled	17-Jan-25	16-Jan-25	16-Jan-25	16-Jan-25	16-Jan-25	16-Jan-25	16-Jan-25			
Sample Type	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
1,1,1,2-Tetrachloroethane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Ethylbenzene _A [#]	4	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
m & p Xylene _A [#]	6	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromoform _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
Styrene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1,2,2-Tetrachloroethane _A	<1	3	1	<1	2	<1	<1	µg/l	1	A-T-006w
o-Xylene _A [#]	4	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	2	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	3	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w

Envirolab Job Number: 25/00353

Client Project Name: Vic. North

Client Project Ref: 171111

Lab Sample ID	25/00353/8									
Client Sample No										
Client Sample ID	RX1005									
Depth to Top	14.00									
Depth To Bottom										
Date Sampled	16-Jan-25									
Sample Type	WATER - EW									
Sample Matrix Code	N/A									
VOC (w)										
Dichlorodifluoromethane _A	<1							µg/l	1	A-T-006w
Chloromethane _A	<10							µg/l	10	A-T-006w
Vinyl Chloride _A [#]	<1							µg/l	1	A-T-006w
Bromomethane _A [#]	<1							µg/l	1	A-T-006w
Chloroethane _A [#]	<1							µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1							µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	<1							µg/l	1	A-T-006w
Dichloromethane _A	<5							µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<1							µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	<1							µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	<1							µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	53							µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5							µg/l	5	A-T-006w
Chloroform _A [#]	28							µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1							µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2							µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1							µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1							µg/l	1	A-T-006w
Benzene _A [#]	<1							µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	113							µg/l	1	A-T-006w
Dibromomethane _A [#]	<1							µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1							µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10							µg/l	10	A-T-006w
Trichloroethene _A [#]	113							µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1							µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1							µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	<1							µg/l	1	A-T-006w
Toluene _A [#]	<1							µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1							µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3							µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1							µg/l	1	A-T-006w
Tetrachloroethene _A	<1							µg/l	1	A-T-006w

Envirolab Job Number: 25/00353

Client Project Name: Vic. North

Client Project Ref: 171111

Lab Sample ID	25/00353/8							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RX1005									
Depth to Top	14.00									
Depth To Bottom										
Date Sampled	16-Jan-25									
Sample Type	WATER - EW									
Sample Matrix Code	N/A									
1,1,1,2-Tetrachloroethane _A	<1							µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1							µg/l	1	A-T-006w
Ethylbenzene _A [#]	<1							µg/l	1	A-T-006w
m & p Xylene _A [#]	<1							µg/l	1	A-T-006w
Bromoform _A [#]	<3							µg/l	3	A-T-006w
Styrene _A [#]	<1							µg/l	1	A-T-006w
1,1,1,2,2-Tetrachloroethane _A	<1							µg/l	1	A-T-006w
o-Xylene _A [#]	<1							µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1							µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1							µg/l	1	A-T-006w
Bromobenzene _A [#]	<1							µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1							µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1							µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1							µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1							µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1							µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1							µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1							µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1							µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1							µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2							µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1							µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1							µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2							µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3							µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3							µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1							µg/l	1	A-T-006w

Report Notes

General

- This report shall not be reproduced, except in full, without written approval from Envirolab.
- The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
- The results reported herein relate only to the material supplied to the laboratory.
- The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
- Analytical results reflect the quality of the sample at the time of analysis only.
- Opinions and Interpretations expressed are outside our scope of accreditation.
- A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
- If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
- Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript “#”	Accredited to ISO 17025
Superscript “M”	Accredited to MCertS
Superscript “U”	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript “A”	Analysis performed on as-received Sample
Subscript “D”	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript “D” on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript “A”	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis

“Trace Asbestos Identified” will be reported if there is not enough present to verify the type.

Quantification: Generally a 2 stage process including visual identification, hand picking and weighing, and fibre counting. Where ACMs are found a percentage asbestos is assigned to each with reference to ‘HSG264, Asbestos: The survey guide’ and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres). “TRACE” will be reported as a quantification result.

PLEASE INFORM THE LABORATORY IF YOU WOULD LIKE THE STAGE 3 SEDIMENTATION PROCESS CARRIED OUT. Note this will be subcontracted.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs

Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.

Soil Chemical Analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as ‘% stones >10mm’.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any “D” subscripts.

TPH by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only. Results “with Clean up” indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.

Where these humic substances have been identified in any IDs from “TPH CWG with clean up” please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: REMEDX Bristol, The Old School, Stillhouse Lane, Bedminster, Bristol, UK,
BS3 4EB

Project: Vic. North
Clients Project No: 171111

Project No: 25/00353
Date Received: 20/01/2025 (am)
Cool Box Temperatures (°C): 9.5

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	25/00353/1	25/00353/2	25/00353/3	25/00353/4	25/00353/5	25/00353/6	25/00353/7	25/00353/8
Client Sample No								
Client Sample ID/Depth	RXI007 13.00m	RXI006 12.66m	RXI001 13.00m	RXI010 13.00m	RXI014 13.00m	RXI011 13.00m	RXI019 13.00m	RXI005 14.00m
Date Sampled	17/01/25	16/01/25	16/01/25	16/01/25	16/01/25	16/01/25	16/01/25	16/01/25
A-T-006w	21/01/2025	21/01/2025	21/01/2025	21/01/2025	21/01/2025	21/01/2025	21/01/2025	21/01/2025

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 25/00549
Issue Number: 1

Date: 27 January, 2025

Client: REMEDX Bristol
The Old School
Stillhouse Lane
Bedminster
Bristol
UK
BS3 4EB

Project Manager: Pete Findon/Sam Cowell
Project Name: Vic. North
Project Ref: 171111
Order No: N/A
Date Samples Received: 23/01/25
Date Instructions Received: 23/01/25
Date Analysis Completed: 27/01/25

Approved by:



Richard Wong
Client Manager

Envirolab Job Number: 25/00549

Client Project Name: Vic. North

Client Project Ref: 171111

Lab Sample ID	25/00549/1	25/00549/2	25/00549/3	25/00549/4	25/00549/5	25/00549/6	25/00549/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RXI 002	RXI 008	RXI 012	RXI 013	RXI 022	RXI 018	RXI 017			
Depth to Top	13.00	13.00	13.00	13.00	13.00	13.00	13.00			
Depth To Bottom										
Date Sampled	21-Jan-25	21-Jan-25	21-Jan-25	21-Jan-25	20-Jan-25	20-Jan-25	20-Jan-25			
Sample Type	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
VOC (w)										
Dichlorodifluoromethane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Chloromethane _A	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-006w
Vinyl Chloride _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromomethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Chloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	15	3	7	1	<1	<1	<1	µg/l	1	A-T-006w
Dichloromethane _A	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<1	<1	3	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	37	58	19	75	<1	2	4	µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-006w
Chloroform _A [#]	21	69	47	60	10	16	145	µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Benzene _A [#]	2	2	3	<1	<1	<1	<1	µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	39	134	31	118	28	39	183	µg/l	1	A-T-006w
Dibromomethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-006w
Trichloroethene _A [#]	242	663	83	639	5	19	327	µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	<1	1	<1	2	<1	<1	3	µg/l	1	A-T-006w
Toluene _A [#]	<1	<1	3	<1	<1	<1	<1	µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Tetrachloroethene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w

Envirolab Job Number: 25/00549

Client Project Name: Vic. North

Client Project Ref: 171111

Lab Sample ID	25/00549/1	25/00549/2	25/00549/3	25/00549/4	25/00549/5	25/00549/6	25/00549/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RXI 002	RXI 008	RXI 012	RXI 013	RXI 022	RXI 018	RXI 017			
Depth to Top	13.00	13.00	13.00	13.00	13.00	13.00	13.00			
Depth To Bottom										
Date Sampled	21-Jan-25	21-Jan-25	21-Jan-25	21-Jan-25	20-Jan-25	20-Jan-25	20-Jan-25			
Sample Type	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
1,1,1,2-Tetrachloroethane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Ethylbenzene _A [#]	<1	<1	4	<1	<1	<1	<1	µg/l	1	A-T-006w
m & p Xylene _A [#]	<1	<1	6	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromoform _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
Styrene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1,2,2-Tetrachloroethane _A	<1	<1	<1	<1	<1	<1	2	µg/l	1	A-T-006w
o-Xylene _A [#]	<1	<1	3	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1	<1	4	<1	<1	<1	<1	µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1	<1	1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1 ^U	<1 ^U	<1 ^U	<1 ^U	<1 ^U	<1 ^U	<1 ^U	µg/l	1	A-T-006w

Envirolab Job Number: 25/00549

Client Project Name: Vic. North

Client Project Ref: 171111

Lab Sample ID	25/00549/8	25/00549/9	25/00549/10	25/00549/11	25/00549/12			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RXI 021	RXI 015	RXI 020	RXI 004	RXI 003					
Depth to Top	13.00	13.00	13.00	13.00	13.00					
Depth To Bottom										
Date Sampled	20-Jan-25	17-Jan-25	17-Jan-25	21-Jan-25	21-Jan-25					
Sample Type	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW					
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A					
VOC (w)										
Dichlorodifluoromethane _A	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Chloromethane _A	<10	<10	<10	<10	<10			µg/l	10	A-T-006w
Vinyl Chloride _A [#]	<1	<1	<1	1	<1			µg/l	1	A-T-006w
Bromomethane _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Chloroethane _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	<1	<1	<1	<1	2			µg/l	1	A-T-006w
Dichloromethane _A	<5	<5	<5	<5	<5			µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	3	5	2	39	91			µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5	<5	<5	<5	<5			µg/l	5	A-T-006w
Chloroform _A [#]	89	238	114	4	52			µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2	<2	<2	<2	<2			µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Benzene _A [#]	<1	<1	<1	47	<1			µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	104	328	277	19	84			µg/l	1	A-T-006w
Dibromomethane _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10	<10	<10	<10	<10			µg/l	10	A-T-006w
Trichloroethene _A [#]	263	498	527	107	1020			µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	1	4	2	<1	3			µg/l	1	A-T-006w
Toluene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3	<3	<3	<3	<3			µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Tetrachloroethene _A	<1	2	2	<1	<1			µg/l	1	A-T-006w

Envirolab Job Number: 25/00549

Client Project Name: Vic. North

Client Project Ref: 171111

Lab Sample ID	25/00549/8	25/00549/9	25/00549/10	25/00549/11	25/00549/12			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RXI 021	RXI 015	RXI 020	RXI 004	RXI 003					
Depth to Top	13.00	13.00	13.00	13.00	13.00					
Depth To Bottom										
Date Sampled	20-Jan-25	17-Jan-25	17-Jan-25	21-Jan-25	21-Jan-25					
Sample Type	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW					
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A					
1,1,1,2-Tetrachloroethane _A	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Ethylbenzene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
m & p Xylene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Bromoform _A [#]	<3	<3	<3	<3	<3			µg/l	3	A-T-006w
Styrene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,1,2,2-Tetrachloroethane _A	<1	1	<1	<1	<1			µg/l	1	A-T-006w
o-Xylene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Bromobenzene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2	<2	<2	<2	<2			µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2	<2	<2	<2	<2			µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3	<3	<3	<3	<3			µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3	<3	<3	<3	<3			µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1 ^U	<1 ^U	<1 ^U	<1 ^U	<1 ^U			µg/l	1	A-T-006w

Report Notes

General

- This report shall not be reproduced, except in full, without written approval from Envirolab.
- The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
- The results reported herein relate only to the material supplied to the laboratory.
- The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
- Analytical results reflect the quality of the sample at the time of analysis only.
- Opinions and Interpretations expressed are outside our scope of accreditation.
- A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
- If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
- Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript “#”	Accredited to ISO 17025
Superscript “M”	Accredited to MCertS
Superscript “U”	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript “A”	Analysis performed on as-received Sample
Subscript “D”	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript “D” on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript “A”	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis

“Trace Asbestos Identified” will be reported if there is not enough present to verify the type.

Quantification: Generally a 2 stage process including visual identification, hand picking and weighing, and fibre counting. Where ACMs are found a percentage asbestos is assigned to each with reference to ‘HSG264, Asbestos: The survey guide’ and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres). “TRACE” will be reported as a quantification result.

PLEASE INFORM THE LABORATORY IF YOU WOULD LIKE THE STAGE 3 SEDIMENTATION PROCESS CARRIED OUT. Note this will be subcontracted.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs

Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.

Soil Chemical Analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as ‘% stones >10mm’.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any “D” subscripts.

TPH by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only. Results “with Clean up” indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.

Where these humic substances have been identified in any IDs from “TPH CWG with clean up” please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: REMEDX Bristol, The Old School, Stillhouse Lane, Bedminster, Bristol, UK,
BS3 4EB

Project: Vic. North
Clients Project No: 171111

Project No: 25/00549
Date Received: 23/01/2025 (pm)
Cool Box Temperatures (°C): 5.8

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	25/00549/1	25/00549/2	25/00549/3	25/00549/4	25/00549/5	25/00549/6	25/00549/7	25/00549/8	25/00549/9	25/00549/10	25/00549/11	25/00549/12
Client Sample No												
Client Sample ID/Depth	RXI 002 13.00m	RXI 008 13.00m	RXI 012 13.00m	RXI 013 13.00m	RXI 022 13.00m	RXI 018 13.00m	RXI 017 13.00m	RXI 021 13.00m	RXI 015 13.00m	RXI 020 13.00m	RXI 004 13.00m	RXI 003 13.00m
Date Sampled	21/01/25	21/01/25	21/01/25	21/01/25	20/01/25	20/01/25	20/01/25	20/01/25	17/01/25	17/01/25	21/01/25	21/01/25
A-T-006w	27/01/2025	27/01/2025	27/01/2025	27/01/2025	27/01/2025	27/01/2025	27/01/2025	27/01/2025	27/01/2025	27/01/2025	27/01/2025	27/01/2025

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

FINAL ANALYTICAL TEST REPORT

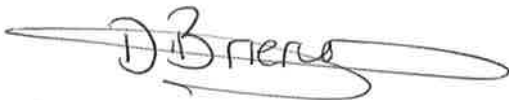
Envirolab Job Number: 25/00692
Issue Number: 1

Date: 30 January, 2025

Client: REMEDX Bristol
The Old School
Stillhouse Lane
Bedminster
Bristol
UK
BS3 4EB

Project Manager: Pete Findon/Sam Cowell
Project Name: Vic North
Project Ref: 171111
Order No: N/A
Date Samples Received: 28/01/25
Date Instructions Received: 29/01/25
Date Analysis Completed: 30/01/25

Approved by:



Danielle Brierley
Client Services Supervisor

Envirolab Job Number: 25/00692

Client Project Name: Vic North

Client Project Ref: 171111

Lab Sample ID	25/00692/1									
Client Sample No										
Client Sample ID	RX10161									
Depth to Top	10.00									
Depth To Bottom										
Date Sampled	23-Jan-25									
Sample Type	WATER - EW									
Sample Matrix Code	N/A									
VOC (w)										
Dichlorodifluoromethane _A	<1							µg/l	1	A-T-006w
Chloromethane _A	<10							µg/l	10	A-T-006w
Vinyl Chloride _A [#]	<1							µg/l	1	A-T-006w
Bromomethane _A [#]	<1							µg/l	1	A-T-006w
Chloroethane _A [#]	<1							µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1							µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	<1							µg/l	1	A-T-006w
Dichloromethane _A	<5							µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<1							µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	<1							µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	<1							µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	6							µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5							µg/l	5	A-T-006w
Chloroform _A [#]	71							µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1							µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2							µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1							µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1							µg/l	1	A-T-006w
Benzene _A [#]	<1							µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	93							µg/l	1	A-T-006w
Dibromomethane _A [#]	<1							µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1							µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10							µg/l	10	A-T-006w
Trichloroethene _A [#]	140							µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1							µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1							µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	<1							µg/l	1	A-T-006w
Toluene _A [#]	<1							µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1							µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3							µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1							µg/l	1	A-T-006w
Tetrachloroethene _A	<1							µg/l	1	A-T-006w

Envirolab Job Number: 25/00692

Client Project Name: Vic North

Client Project Ref: 171111

Lab Sample ID	25/00692/1							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RX10161									
Depth to Top	10.00									
Depth To Bottom										
Date Sampled	23-Jan-25									
Sample Type	WATER - EW									
Sample Matrix Code	N/A									
1,1,1,2-Tetrachloroethane _A	<1							µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1							µg/l	1	A-T-006w
Ethylbenzene _A [#]	<1							µg/l	1	A-T-006w
m & p Xylene _A [#]	<1							µg/l	1	A-T-006w
Bromoform _A [#]	<3							µg/l	3	A-T-006w
Styrene _A [#]	<1							µg/l	1	A-T-006w
1,1,2,2-Tetrachloroethane _A	<1							µg/l	1	A-T-006w
o-Xylene _A [#]	<1							µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1							µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1							µg/l	1	A-T-006w
Bromobenzene _A [#]	<1							µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1							µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1							µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1							µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1							µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1							µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1							µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1							µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1							µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1							µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2							µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1							µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1							µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2							µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3							µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3							µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1							µg/l	1	A-T-006w

Report Notes

General

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- The results reported herein relate only to the material supplied to the laboratory.
- The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
- Analytical results reflect the quality of the sample at the time of analysis only.
- Opinions and Interpretations expressed are outside our scope of accreditation.
- A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
- If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
- Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript “#”	Accredited to ISO 17025
Superscript “M”	Accredited to MCertS
Superscript “U”	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript “A”	Analysis performed on as-received Sample
Subscript “D”	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript “D” on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript “A”	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis

“Trace Asbestos Identified” will be reported if there is not enough present to verify the type.

Quantification: Generally a 2 stage process including visual identification, hand picking and weighing, and fibre counting. Where ACMs are found a percentage asbestos is assigned to each with reference to ‘HSG264, Asbestos: The survey guide’ and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres). “TRACE” will be reported as a quantification result.

PLEASE INFORM THE LABORATORY IF YOU WOULD LIKE THE STAGE 3 SEDIMENTATION PROCESS CARRIED OUT. Note this will be subcontracted.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs

Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.

Soil Chemical Analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as ‘% stones >10mm’.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any “D” subscripts.

TPH by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only. Results “with Clean up” indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.

Where these humic substances have been identified in any IDs from “TPH CWG with clean up” please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: REMEDX Bristol, The Old School, Stillhouse Lane, Bedminster, Bristol, UK,
BS3 4EB

Project: Vic North
Clients Project No: 171111

Project No: 25/00692
Date Received: 29/01/2025 (am)
Cool Box Temperatures (°C): 10.4

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	25/00692/1
Client Sample No	
Client Sample ID/Depth	RXI0161 10.00m
Date Sampled	23/01/25
A-T-006w	30/01/2025

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 25/00693
Issue Number: 1

Date: 03 February, 2025

Client: ROCP LIMITED
Commercial Wharf 6 Commercial Street
Castlefield
Manchester
M15 4PZ

Project Manager: Pete Findon/Reece McGuinness/Sam Cowell
Project Name: Plot NT02
Project Ref: 4328
Order No: PBJ20475
Date Samples Received: 28/01/25
Date Instructions Received: 29/01/25
Date Analysis Completed: 02/03/25

Approved by:



Richard Wong
Client Manager

Envirolab Job Number: 25/00693

Client Project Name: Plot NT02

Client Project Ref: 4328

Lab Sample ID	25/00693/1	25/00693/2						Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH203	RBH502								
Depth to Top										
Depth To Bottom										
Date Sampled										
Sample Type	WATER - EW	WATER - EW								
Sample Matrix Code	N/A	N/A								
pH (w) _A [#]	6.65	6.96						pH	0.01	A-T-031w
Hardness Total _A [#]	341	501						mg/l Ca CO ₃	4	A-T-049w
Sulphate (w) _A [#]	70	302						mg/l	1	A-T-026w
Cyanide (total) (w) _A [#]	0.005	0.018						mg/l	0.005	A-T-042wTCN
Phenols - Total by HPLC (w) _A	<0.01	<0.01						mg/l	0.01	A-T-050w
DOC - Dissolved Organic Carbon (w) _A [#]	<2.0	3.3						mg/l	2	A-T-032w
Antimony (dissolved) _A	<1	<1						µg/l	1	A-T-025w
Arsenic (dissolved) _A [#]	<1	<1						µg/l	1	A-T-025w
Boron (dissolved) _A [#]	214	181						µg/l	10	A-T-025w
Barium (dissolved) _A [#]	68	64						µg/l	1	A-T-025w
Beryllium (dissolved) _A [#]	<1	<1						µg/l	1	A-T-025w
Cadmium (dissolved) _A [#]	<0.2	<0.2						µg/l	0.2	A-T-025w
Copper (dissolved) _A [#]	<4	<4						µg/l	4	A-T-025w
Chromium (dissolved) _A [#]	<1	8						µg/l	1	A-T-025w
Chromium (hexavalent) (w) _A [#]	<0.01	<0.01						mg/l	0.01	A-T-040w
Chromium (trivalent) (w)	<0.01	<0.01						mg/l	0.01	Calc
Lead (dissolved) _A [#]	5	4						µg/l	1	A-T-025w
Mercury (dissolved) _A [#]	<0.1	<0.1						µg/l	0.1	A-T-025w
Molybdenum (dissolved) _A [#]	<0.5	0.8						µg/l	0.5	A-T-025w
Nickel (dissolved) _A [#]	2	<2						µg/l	2	A-T-025w
Selenium (dissolved) _A [#]	1	1						µg/l	1	A-T-025w
Vanadium (dissolved) _A [#]	<1	<1						µg/l	1	A-T-025w
Zinc (dissolved) _A [#]	5	4						µg/l	2	A-T-025w

Envirolab Job Number: 25/00693

Client Project Name: Plot NT02

Client Project Ref: 4328

Lab Sample ID	25/00693/1	25/00693/2						Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH203	RBH502								
Depth to Top										
Depth To Bottom										
Date Sampled										
Sample Type	WATER - EW	WATER - EW								
Sample Matrix Code	N/A	N/A								
PAH 16MS (w)										
Acenaphthene (w) _A [#]	0.05	<0.01						µg/l	0.01	A-T-019w
Acenaphthylene (w) _A [#]	<0.01	<0.01						µg/l	0.01	A-T-019w
Anthracene (w) _A [#]	<0.01	<0.01						µg/l	0.01	A-T-019w
Benzo(a)anthracene (w) _A [#]	<0.01	0.02						µg/l	0.01	A-T-019w
Benzo(a)pyrene (w) _A [#]	<0.01	0.03						µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w) _A [#]	<0.01	0.03						µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w) _A [#]	<0.01	0.02						µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w) _A [#]	<0.01	0.01						µg/l	0.01	A-T-019w
Chrysene (w) _A [#]	<0.01	0.03						µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w) _A [#]	<0.01	<0.01						µg/l	0.01	A-T-019w
Fluoranthene (w) _A [#]	0.07	0.05						µg/l	0.01	A-T-019w
Fluorene (w) _A [#]	0.02	<0.01						µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w) _A [#]	<0.01	0.02						µg/l	0.01	A-T-019w
Naphthalene (w) _A [#]	<0.01	<0.01						µg/l	0.01	A-T-019w
Phenanthrene (w) _A [#]	<0.01	0.02						µg/l	0.01	A-T-019w
Pyrene (w) _A [#]	0.08	0.05						µg/l	0.01	A-T-019w
Total PAH 16MS (w) _A [#]	0.22	0.28						µg/l	0.01	A-T-019w

Envirolab Job Number: 25/00693

Client Project Name: Plot NT02

Client Project Ref: 4328

Lab Sample ID	25/00693/1	25/00693/2								
Client Sample No										
Client Sample ID	RBH203	RBH502								
Depth to Top										
Depth To Bottom										
Date Sampled										
Sample Type	WATER - EW	WATER - EW								
Sample Matrix Code	N/A	N/A								
SVOC (excluding PAH-16) (w)										
1,2,4-Trichlorobenzene _A	<1	<1						µg/l	1	A-T-052w
1,2-Dichlorobenzene _A	<1	<1						µg/l	1	A-T-052w
1,3-Dichlorobenzene _A	<1	<1						µg/l	1	A-T-052w
1,4-Dichlorobenzene _A	<1	<1						µg/l	1	A-T-052w
2,4,5-Trichlorophenol _A	<1	<1						µg/l	1	A-T-052w
2,4,6-Trichlorophenol _A	<1	<1						µg/l	1	A-T-052w
2,4-Dichlorophenol _A	<1	<1						µg/l	1	A-T-052w
2,4-Dimethylphenol _A	<1	<1						µg/l	1	A-T-052w
2,4-Dinitrotoluene _A	<1	<1						µg/l	1	A-T-052w
2,6-Dinitrotoluene _A	<1	<1						µg/l	1	A-T-052w
2-Chloronaphthalene _A	<1	<1						µg/l	1	A-T-052w
2-Chlorophenol _A	<1	<1						µg/l	1	A-T-052w
2-Methylnaphthalene _A	<1	<1						µg/l	1	A-T-052w
2-Methylphenol _A	<1	<1						µg/l	1	A-T-052w
2-Nitrophenol _A	<1	<1						µg/l	1	A-T-052w
4-Bromophenyl phenyl ether _A	<1	<1						µg/l	1	A-T-052w
4-Chloro-3-methylphenol _A	<1	<1						µg/l	1	A-T-052w
Bis(2-chloroisopropyl)ether _A	<1	<1						µg/l	1	A-T-052w
3+4-Methylphenol _A	<1	<1						µg/l	1	A-T-052w
4-Nitrophenol _A	<1	<1						µg/l	1	A-T-052w
Bis(2-chloroethyl)ether _A	<1	<1						µg/l	1	A-T-052w
Bis(2-chloroethoxy)methane _A	<1	<1						µg/l	1	A-T-052w
Bis(2-ethylhexyl)phthalate _A	<10	<10						µg/l	10	A-T-052w
Butylbenzyl phthalate _A	<1	<1						µg/l	1	A-T-052w
Carbazole _A	<1	<1						µg/l	1	A-T-052w
Dibenzofuran _A	<1	<1						µg/l	1	A-T-052w
n-Dibutylphthalate _A	<1	<1						µg/l	1	A-T-052w
n-Dioctylphthalate _A	<10	<10						µg/l	10	A-T-052w
n-Nitroso-n-dipropylamine _A	<1	<1						µg/l	1	A-T-052w
Diethyl phthalate _A	<1	<1						µg/l	1	A-T-052w
Dimethyl phthalate _A	<1	<1						µg/l	1	A-T-052w
Hexachlorobutadiene _A	<1	<1						µg/l	1	A-T-052w

Envirolab Job Number: 25/00693

Client Project Name: Plot NT02

Client Project Ref: 4328

Lab Sample ID	25/00693/1	25/00693/2						Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH203	RBH502								
Depth to Top										
Depth To Bottom										
Date Sampled										
Sample Type	WATER - EW	WATER - EW								
Sample Matrix Code	N/A	N/A								
Hexachlorobenzene SVOC _A	<1	<1						µg/l	1	A-T-052w
Pentachlorophenol SVOC _A	<1	<1						µg/l	1	A-T-052w
Phenol _A	<1	<1						µg/l	1	A-T-052w
Hexachloroethane _A	<1	<1						µg/l	1	A-T-052w
Nitrobenzene _A	<1	<1						µg/l	1	A-T-052w
Isophorone _A	<1	<1						µg/l	1	A-T-052w
Perylene _A	<1	<1						µg/l	1	A-T-052w

Envirolab Job Number: 25/00693

Client Project Name: Plot NT02

Client Project Ref: 4328

Lab Sample ID	25/00693/1	25/00693/2								
Client Sample No										
Client Sample ID	RBH203	RBH502								
Depth to Top										
Depth To Bottom										
Date Sampled										
Sample Type	WATER - EW	WATER - EW								
Sample Matrix Code	N/A	N/A								
VOC (w)										
Dichlorodifluoromethane _A	<1	<1						µg/l	1	A-T-006w
Chloromethane _A	<10	<10						µg/l	10	A-T-006w
Vinyl Chloride _A [#]	<1	<1						µg/l	1	A-T-006w
Bromomethane _A [#]	<1	<1						µg/l	1	A-T-006w
Chloroethane _A [#]	<1	<1						µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1	<1						µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	4	<1						µg/l	1	A-T-006w
Dichloromethane _A	<5	<5						µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<1	<1						µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	<1	<1						µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	<1	<1						µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	4	<1						µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5	<5						µg/l	5	A-T-006w
Chloroform _A [#]	20	76						µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1	<1						µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2	<2						µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1	<1						µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1	<1						µg/l	1	A-T-006w
Benzene _A [#]	<1	<1						µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	30	170						µg/l	1	A-T-006w
Dibromomethane _A [#]	<1	<1						µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1	<1						µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10	<10						µg/l	10	A-T-006w
Trichloroethene _A [#]	38	19						µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1	<1						µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1	<1						µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	<1	<1						µg/l	1	A-T-006w
Toluene _A [#]	<1	<1						µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1	<1						µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3	<3						µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1	<1						µg/l	1	A-T-006w
Tetrachloroethene _A	<1	<1						µg/l	1	A-T-006w

Envirolab Job Number: 25/00693

Client Project Name: Plot NT02

Client Project Ref: 4328

Lab Sample ID	25/00693/1	25/00693/2						Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH203	RBH502								
Depth to Top										
Depth To Bottom										
Date Sampled										
Sample Type	WATER - EW	WATER - EW								
Sample Matrix Code	N/A	N/A								
1,1,1,2-Tetrachloroethane _A	<1	<1						µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1	<1						µg/l	1	A-T-006w
Ethylbenzene _A [#]	<1	<1						µg/l	1	A-T-006w
m & p Xylene _A [#]	<1	<1						µg/l	1	A-T-006w
Bromoform _A [#]	<3	<3						µg/l	3	A-T-006w
Styrene _A [#]	<1	<1						µg/l	1	A-T-006w
1,1,1,2,2-Tetrachloroethane _A	<1	<1						µg/l	1	A-T-006w
o-Xylene _A [#]	<1	<1						µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1	<1						µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1	<1						µg/l	1	A-T-006w
Bromobenzene _A [#]	<1	<1						µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1	<1						µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1	<1						µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1	<1						µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1	<1						µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1	<1						µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1	<1						µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1	<1						µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1	<1						µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1	<1						µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2	<2						µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1	<1						µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1	<1						µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2	<2						µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3	<3						µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3	<3						µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1	<1						µg/l	1	A-T-006w

Envirolab Job Number: 25/00693

Client Project Name: Plot NT02

Client Project Ref: 4328

Lab Sample ID	25/00693/1	25/00693/2								
Client Sample No										
Client Sample ID	RBH203	RBH502								
Depth to Top										
Depth To Bottom										
Date Sampled										
Sample Type	WATER - EW	WATER - EW								
Sample Matrix Code	N/A	N/A								
TPH UKCWG (w) with Clean Up										
Ali >C5-C6 (w) _A [#]	<1	<1						µg/l	1	A-T-022w
Ali >C6-C8 (w) _A [#]	<1	<1						µg/l	1	A-T-022w
Ali >C8-C10 (w) _A [#]	<5	<5						µg/l	5	A-T-055w
Ali >C10-C12 (w) _A [#]	<5	<5						µg/l	5	A-T-055w
Ali >C12-C16 (w) _A [#]	<5	<5						µg/l	5	A-T-055w
Ali >C16-C21 (w) _A [#]	<5	<5						µg/l	5	A-T-055w
Ali >C21-C35 (w) _A [#]	<5	<5						µg/l	5	A-T-055w
Ali >C35-C44 (w) _A	<5	<5						µg/l	5	A-T-055w
Total Aliphatics (w) _A	<5	<5						µg/l	5	Calc-As Recd
Aro >C5-C7 (w) _A [#]	<1	<1						µg/l	1	A-T-022w
Aro >C7-C8 (w) _A [#]	<1	<1						µg/l	1	A-T-022w
Aro >C8-C10 (w) _A	<5	<5						µg/l	5	A-T-055w
Aro >C10-C12 (w) _A [#]	<5	<5						µg/l	5	A-T-055w
Aro >C12-C16 (w) _A [#]	<5	<5						µg/l	5	A-T-055w
Aro >C16-C21 (w) _A [#]	<5	<5						µg/l	5	A-T-055w
Aro >C21-C35 (w) _A [#]	<10	<10						µg/l	10	A-T-055w
Aro >C35-C44 (w) _A	<5	<5						µg/l	5	A-T-055w
Total Aromatics (w) _A	<10	<10						µg/l	10	Calc-As Recd
TPH (Ali & Aro >C5-C44) (w) _A	<10	<10						µg/l	10	Calc-As Recd
BTEX - Benzene (w) _A [#]	<1	<1						µg/l	1	A-T-022w
BTEX - Toluene (w) _A [#]	<1	<1						µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w) _A [#]	<1	<1						µg/l	1	A-T-022w
BTEX - m & p Xylene (w) _A [#]	<1	<1						µg/l	1	A-T-022w
BTEX - o Xylene (w) _A [#]	<1	<1						µg/l	1	A-T-022w
MTBE (w) _A [#]	<1	<1						µg/l	1	A-T-022w

Report Notes

General

- This report shall not be reproduced, except in full, without written approval from Envirolab.
- The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
- The results reported herein relate only to the material supplied to the laboratory.
- The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
- Analytical results reflect the quality of the sample at the time of analysis only.
- Opinions and Interpretations expressed are outside our scope of accreditation.
- A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
- If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
- Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript “#”	Accredited to ISO 17025
Superscript “M”	Accredited to MCertS
Superscript “U”	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript “A”	Analysis performed on as-received Sample
Subscript “D”	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript “D” on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript “A”	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis

“Trace Asbestos Identified” will be reported if there is not enough present to verify the type.

Quantification: Generally a 2 stage process including visual identification, hand picking and weighing, and fibre counting. Where ACMs are found a percentage asbestos is assigned to each with reference to ‘HSG264, Asbestos: The survey guide’ and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres). “TRACE” will be reported as a quantification result.

PLEASE INFORM THE LABORATORY IF YOU WOULD LIKE THE STAGE 3 SEDIMENTATION PROCESS CARRIED OUT. Note this will be subcontracted.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs

Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.

Soil Chemical Analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as ‘% stones >10mm’.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any “D” subscripts.

TPH by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only. Results “with Clean up” indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.

Where these humic substances have been identified in any IDs from “TPH CWG with clean up” please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: ROCP LIMITED, Commercial Wharf 6 Commercial Street, Castlefield,
Manchester, M15 4PZ

Project: Plot NT02
Clients Project No: 4328

Project No: 25/00693
Date Received: 29/01/2025 (am)
Cool Box Temperatures (°C): 10.4

Lab Sample ID	25/00693/1	25/00693/2
Client Sample No		
Client Sample ID/Depth	RBH203	RBH502
Date Sampled		
Deviation Code		
E (no date)	✓	✓

Key
E (no date) No sampling date provided (all results affected if not provided)

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	25/00693/1	25/00693/2
Client Sample No		
Client Sample ID/Depth	RBH203	RBH502
Date Sampled		
A-T-006w	30/01/2025	30/01/2025
A-T-019w	31/01/2025	31/01/2025
A-T-022w	30/01/2025	30/01/2025
A-T-025w	31/01/2025	31/01/2025
A-T-026w	30/01/2025	30/01/2025
A-T-031w	30/01/2025	30/01/2025
A-T-032w	30/01/2025	30/01/2025
A-T-040w	30/01/2025	30/01/2025
A-T-042wTCN	31/01/2025	31/01/2025
A-T-049w	30/01/2025	30/01/2025
A-T-050w	31/01/2025	30/01/2025
A-T-052w	03/02/2025	03/02/2025
A-T-055w	02/03/2025	02/03/2025
Calc	31/01/2025	31/01/2025
Calc-As Recd	03/02/2025	03/02/2025

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

FINAL ANALYTICAL TEST REPORT

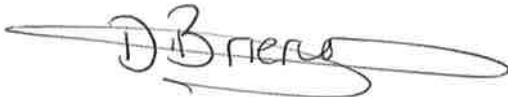
Envirolab Job Number: 25/00698
Issue Number: 1

Date: 04 February, 2025

Client: ROCP LIMITED
Commercial Wharf 6 Commercial Street
Castlefield
Manchester
M15 4PZ

Project Manager: Pete Findon/Reece McGuinness/Sam Cowell
Project Name: Plot NT02
Project Ref: 4328
Order No: PBJ20475
Date Samples Received: 28/01/25
Date Instructions Received: 29/01/25
Date Analysis Completed: 02/03/25

Approved by:



Danielle Brierley
Client Services Supervisor

Envirolab Job Number: 25/00698

Client Project Name: Plot NT02

Client Project Ref: 4328

Lab Sample ID	25/00698/1	25/00698/2						Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH505								
Depth to Top										
Depth To Bottom										
Date Sampled	24-Jan-25	24-Jan-25								
Sample Type	WATER - EW	WATER - EW								
Sample Matrix Code	N/A	N/A								
pH (w) _A [#]	7.08	7.22						pH	0.01	A-T-031w
Hardness Total _A [#]	402	311						mg/l Ca CO ₃	4	A-T-049w
Sulphate (w) _A [#]	140	194						mg/l	1	A-T-026w
Cyanide (total) (w) _A [#]	0.079	0.031						mg/l	0.005	A-T-042wTCN
Phenols - Total by HPLC (w) _A	<0.01	<0.01						mg/l	0.01	A-T-050w
DOC - Dissolved Organic Carbon (w) _A [#]	2.0	3.2						mg/l	2	A-T-032w
Antimony (dissolved) _A	<1	2						µg/l	1	A-T-025w
Arsenic (dissolved) _A [#]	7	<1						µg/l	1	A-T-025w
Boron (dissolved) _A [#]	182	130						µg/l	10	A-T-025w
Barium (dissolved) _A [#]	61	55						µg/l	1	A-T-025w
Beryllium (dissolved) _A [#]	<1	<1						µg/l	1	A-T-025w
Cadmium (dissolved) _A [#]	<0.2	<0.2						µg/l	0.2	A-T-025w
Copper (dissolved) _A [#]	<4	<4						µg/l	4	A-T-025w
Chromium (dissolved) _A [#]	<1	8						µg/l	1	A-T-025w
Chromium (hexavalent) (w) _A [#]	<0.01	<0.01						mg/l	0.01	A-T-040w
Chromium (trivalent) (w)	<0.01	<0.01						mg/l	0.01	Calc
Lead (dissolved) _A [#]	7	2						µg/l	1	A-T-025w
Mercury (dissolved) _A [#]	<0.1	<0.1						µg/l	0.1	A-T-025w
Molybdenum (dissolved) _A [#]	1.8	6.8						µg/l	0.5	A-T-025w
Nickel (dissolved) _A [#]	<2	7						µg/l	2	A-T-025w
Selenium (dissolved) _A [#]	<1	1						µg/l	1	A-T-025w
Vanadium (dissolved) _A [#]	<1	<1						µg/l	1	A-T-025w
Zinc (dissolved) _A [#]	7	8						µg/l	2	A-T-025w

Envirolab Job Number: 25/00698

Client Project Name: Plot NT02

Client Project Ref: 4328

Lab Sample ID	25/00698/1	25/00698/2						Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH505								
Depth to Top										
Depth To Bottom										
Date Sampled	24-Jan-25	24-Jan-25								
Sample Type	WATER - EW	WATER - EW								
Sample Matrix Code	N/A	N/A								
PAH 16MS (w)										
Acenaphthene (w) _A [#]	0.42	<0.01						µg/l	0.01	A-T-019w
Acenaphthylene (w) _A [#]	0.01	<0.01						µg/l	0.01	A-T-019w
Anthracene (w) _A [#]	0.03	<0.01						µg/l	0.01	A-T-019w
Benzo(a)anthracene (w) _A [#]	0.03	<0.01						µg/l	0.01	A-T-019w
Benzo(a)pyrene (w) _A [#]	0.04	<0.01						µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w) _A [#]	0.05	<0.01						µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w) _A [#]	0.03	<0.01						µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w) _A [#]	0.01	<0.01						µg/l	0.01	A-T-019w
Chrysene (w) _A [#]	0.04	<0.01						µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w) _A [#]	<0.01	<0.01						µg/l	0.01	A-T-019w
Fluoranthene (w) _A [#]	0.07	0.01						µg/l	0.01	A-T-019w
Fluorene (w) _A [#]	0.03	0.01						µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w) _A [#]	0.02	<0.01						µg/l	0.01	A-T-019w
Naphthalene (w) _A [#]	0.18	<0.01						µg/l	0.01	A-T-019w
Phenanthrene (w) _A [#]	0.04	<0.01						µg/l	0.01	A-T-019w
Pyrene (w) _A [#]	0.07	0.02						µg/l	0.01	A-T-019w
Total PAH 16MS (w) _A [#]	1.07	0.04						µg/l	0.01	A-T-019w

Envirolab Job Number: 25/00698

Client Project Name: Plot NT02

Client Project Ref: 4328

Lab Sample ID	25/00698/1	25/00698/2								
Client Sample No										
Client Sample ID	LKBH01	RBH505								
Depth to Top										
Depth To Bottom										
Date Sampled	24-Jan-25	24-Jan-25								
Sample Type	WATER - EW	WATER - EW								
Sample Matrix Code	N/A	N/A								
SVOC (excluding PAH-16) (w)										
1,2,4-Trichlorobenzene _A	<1	<1						µg/l	1	A-T-052w
1,2-Dichlorobenzene _A	<1	<1						µg/l	1	A-T-052w
1,3-Dichlorobenzene _A	<1	<1						µg/l	1	A-T-052w
1,4-Dichlorobenzene _A	<1	<1						µg/l	1	A-T-052w
2,4,5-Trichlorophenol _A	<1	<1						µg/l	1	A-T-052w
2,4,6-Trichlorophenol _A	<1	<1						µg/l	1	A-T-052w
2,4-Dichlorophenol _A	<1	<1						µg/l	1	A-T-052w
2,4-Dimethylphenol _A	<1	<1						µg/l	1	A-T-052w
2,4-Dinitrotoluene _A	<1	<1						µg/l	1	A-T-052w
2,6-Dinitrotoluene _A	<1	<1						µg/l	1	A-T-052w
2-Chloronaphthalene _A	<1	<1						µg/l	1	A-T-052w
2-Chlorophenol _A	<1	<1						µg/l	1	A-T-052w
2-Methylnaphthalene _A	<1	<1						µg/l	1	A-T-052w
2-Methylphenol _A	<1	<1						µg/l	1	A-T-052w
2-Nitrophenol _A	<1	<1						µg/l	1	A-T-052w
4-Bromophenyl phenyl ether _A	<1	<1						µg/l	1	A-T-052w
4-Chloro-3-methylphenol _A	<1	<1						µg/l	1	A-T-052w
Bis(2-chloroisopropyl)ether _A	<1	<1						µg/l	1	A-T-052w
3+4-Methylphenol _A	<1	<1						µg/l	1	A-T-052w
4-Nitrophenol _A	<1	<1						µg/l	1	A-T-052w
Bis(2-chloroethyl)ether _A	<1	<1						µg/l	1	A-T-052w
Bis(2-chloroethoxy)methane _A	<1	<1						µg/l	1	A-T-052w
Bis(2-ethylhexyl)phthalate _A	<10	<10						µg/l	10	A-T-052w
Butylbenzyl phthalate _A	<1	<1						µg/l	1	A-T-052w
Carbazole _A	<1	<1						µg/l	1	A-T-052w
Dibenzofuran _A	<1	<1						µg/l	1	A-T-052w
n-Dibutylphthalate _A	<1	<1						µg/l	1	A-T-052w
n-Dioctylphthalate _A	<10	<10						µg/l	10	A-T-052w
n-Nitroso-n-dipropylamine _A	<1	<1						µg/l	1	A-T-052w
Diethyl phthalate _A	<1	<1						µg/l	1	A-T-052w
Dimethyl phthalate _A	<1	<1						µg/l	1	A-T-052w
Hexachlorobutadiene _A	<1	<1						µg/l	1	A-T-052w

Envirolab Job Number: 25/00698

Client Project Name: Plot NT02

Client Project Ref: 4328

Lab Sample ID	25/00698/1	25/00698/2						Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH505								
Depth to Top										
Depth To Bottom										
Date Sampled	24-Jan-25	24-Jan-25								
Sample Type	WATER - EW	WATER - EW								
Sample Matrix Code	N/A	N/A								
Hexachlorobenzene SVOC _A	<1	<1						µg/l	1	A-T-052w
Pentachlorophenol SVOC _A	<1	<1						µg/l	1	A-T-052w
Phenol _A	<1	<1						µg/l	1	A-T-052w
Hexachloroethane _A	<1	<1						µg/l	1	A-T-052w
Nitrobenzene _A	<1	<1						µg/l	1	A-T-052w
Isophorone _A	<1	<1						µg/l	1	A-T-052w
Perylene _A	<1	<1						µg/l	1	A-T-052w

Envirolab Job Number: 25/00698

Client Project Name: Plot NT02

Client Project Ref: 4328

Lab Sample ID	25/00698/1	25/00698/2								
Client Sample No										
Client Sample ID	LKBH01	RBH505								
Depth to Top										
Depth To Bottom										
Date Sampled	24-Jan-25	24-Jan-25								
Sample Type	WATER - EW	WATER - EW								
Sample Matrix Code	N/A	N/A								
VOC (w)										
Dichlorodifluoromethane _A	<1	<1						µg/l	1	A-T-006w
Chloromethane _A	<10	<10						µg/l	10	A-T-006w
Vinyl Chloride _A [#]	8	<1						µg/l	1	A-T-006w
Bromomethane _A [#]	<1	<1						µg/l	1	A-T-006w
Chloroethane _A [#]	<1	<1						µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1	<1						µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	91	<1						µg/l	1	A-T-006w
Dichloromethane _A	<5	<5						µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<1	<1						µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	<1	<1						µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	<1	<1						µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	223	<1						µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5	<5						µg/l	5	A-T-006w
Chloroform _A [#]	<1	<1						µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1	<1						µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2	<2						µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1	<1						µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1	<1						µg/l	1	A-T-006w
Benzene _A [#]	23	<1						µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	<1	<1						µg/l	1	A-T-006w
Dibromomethane _A [#]	<1	<1						µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1	<1						µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10	<10						µg/l	10	A-T-006w
Trichloroethene _A [#]	3	<1						µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1	<1						µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1	<1						µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	<1	<1						µg/l	1	A-T-006w
Toluene _A [#]	<1	<1						µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1	<1						µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3	<3						µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1	<1						µg/l	1	A-T-006w
Tetrachloroethene _A	<1	<1						µg/l	1	A-T-006w

Envirolab Job Number: 25/00698

Client Project Name: Plot NT02

Client Project Ref: 4328

Lab Sample ID	25/00698/1	25/00698/2						Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH505								
Depth to Top										
Depth To Bottom										
Date Sampled	24-Jan-25	24-Jan-25								
Sample Type	WATER - EW	WATER - EW								
Sample Matrix Code	N/A	N/A								
1,1,1,2-Tetrachloroethane _A	<1	<1						µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1	<1						µg/l	1	A-T-006w
Ethylbenzene _A [#]	<1	<1						µg/l	1	A-T-006w
m & p Xylene _A [#]	<1	<1						µg/l	1	A-T-006w
Bromoform _A [#]	<3	<3						µg/l	3	A-T-006w
Styrene _A [#]	<1	<1						µg/l	1	A-T-006w
1,1,1,2,2-Tetrachloroethane _A	<1	<1						µg/l	1	A-T-006w
o-Xylene _A [#]	<1	<1						µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1	<1						µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1	<1						µg/l	1	A-T-006w
Bromobenzene _A [#]	<1	<1						µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1	<1						µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1	<1						µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1	<1						µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1	<1						µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1	<1						µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1	<1						µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1	<1						µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1	<1						µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1	<1						µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2	<2						µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1	<1						µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1	<1						µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2	<2						µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3	<3						µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3	<3						µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1	<1						µg/l	1	A-T-006w

Envirolab Job Number: 25/00698

Client Project Name: Plot NT02

Client Project Ref: 4328

Lab Sample ID	25/00698/1	25/00698/2								
Client Sample No										
Client Sample ID	LKBH01	RBH505								
Depth to Top										
Depth To Bottom										
Date Sampled	24-Jan-25	24-Jan-25								
Sample Type	WATER - EW	WATER - EW								
Sample Matrix Code	N/A	N/A								
TPH UKCWG (w) with Clean Up										
Ali >C5-C6 (w) _A [#]	<1	<1						µg/l	1	A-T-022w
Ali >C6-C8 (w) _A [#]	<1	<1						µg/l	1	A-T-022w
Ali >C8-C10 (w) _A [#]	<5	<5						µg/l	5	A-T-055w
Ali >C10-C12 (w) _A [#]	<5	<5						µg/l	5	A-T-055w
Ali >C12-C16 (w) _A [#]	<5	<5						µg/l	5	A-T-055w
Ali >C16-C21 (w) _A [#]	<5	<5						µg/l	5	A-T-055w
Ali >C21-C35 (w) _A [#]	<5	<5						µg/l	5	A-T-055w
Ali >C35-C44 (w) _A	<5	<5						µg/l	5	A-T-055w
Total Aliphatics (w) _A	<5	<5						µg/l	5	Calc-As Recd
Aro >C5-C7 (w) _A [#]	22	<1						µg/l	1	A-T-022w
Aro >C7-C8 (w) _A [#]	<1	<1						µg/l	1	A-T-022w
Aro >C8-C10 (w) _A	<5	<5						µg/l	5	A-T-055w
Aro >C10-C12 (w) _A [#]	<5	<5						µg/l	5	A-T-055w
Aro >C12-C16 (w) _A [#]	<5	<5						µg/l	5	A-T-055w
Aro >C16-C21 (w) _A [#]	<5	<5						µg/l	5	A-T-055w
Aro >C21-C35 (w) _A [#]	<10	<10						µg/l	10	A-T-055w
Aro >C35-C44 (w) _A	<5	<5						µg/l	5	A-T-055w
Total Aromatics (w) _A	22	<10						µg/l	10	Calc-As Recd
TPH (Ali & Aro >C5-C44) (w) _A	22	<10						µg/l	10	Calc-As Recd
BTEX - Benzene (w) _A [#]	22	<1						µg/l	1	A-T-022w
BTEX - Toluene (w) _A [#]	<1	<1						µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w) _A [#]	<1	<1						µg/l	1	A-T-022w
BTEX - m & p Xylene (w) _A [#]	<1	<1						µg/l	1	A-T-022w
BTEX - o Xylene (w) _A [#]	<1	<1						µg/l	1	A-T-022w
MTBE (w) _A [#]	<1	<1						µg/l	1	A-T-022w

Report Notes

General

- This report shall not be reproduced, except in full, without written approval from Envirolab.
- The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
- The results reported herein relate only to the material supplied to the laboratory.
- The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
- Analytical results reflect the quality of the sample at the time of analysis only.
- Opinions and Interpretations expressed are outside our scope of accreditation.
- A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
- If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
- Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript “#”	Accredited to ISO 17025
Superscript “M”	Accredited to MCertS
Superscript “U”	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript “A”	Analysis performed on as-received Sample
Subscript “D”	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript “D” on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript “A”	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis

“Trace Asbestos Identified” will be reported if there is not enough present to verify the type.

Quantification: Generally a 2 stage process including visual identification, hand picking and weighing, and fibre counting. Where ACMs are found a percentage asbestos is assigned to each with reference to ‘HSG264, Asbestos: The survey guide’ and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres). “TRACE” will be reported as a quantification result.

PLEASE INFORM THE LABORATORY IF YOU WOULD LIKE THE STAGE 3 SEDIMENTATION PROCESS CARRIED OUT. Note this will be subcontracted.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs

Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.

Soil Chemical Analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as ‘% stones >10mm’.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any “D” subscripts.

TPH by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only. Results “with Clean up” indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.

Where these humic substances have been identified in any IDs from “TPH CWG with clean up” please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: ROCP LIMITED, Commercial Wharf 6 Commercial Street, Castlefield,
Manchester, M15 4PZ

Project: Plot NT02
Clients Project No: 4328

Project No: 25/00698
Date Received: 29/01/2025 (am)
Cool Box Temperatures (°C): 13.2

Lab Sample ID	25/00698/1	25/00698/2
Client Sample No		
Client Sample ID/Depth	LKBH01	RBH505
Date Sampled	24/01/25	24/01/25
Deviation Code		
F	✓	✓

Key

F Maximum holding time exceeded between sampling date and analysis for analytes listed below

HOLDING TIME EXCEEDANCES

Lab Sample ID	25/00698/1	25/00698/2
Client Sample No		
Client Sample ID/Depth	LKBH01	RBH505
Date Sampled	24/01/25	24/01/25
pH (w)	✓	✓

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	25/00698/1	25/00698/2
Client Sample No		
Client Sample ID/Depth	LKBH01	RBH505
Date Sampled	24/01/25	24/01/25
A-T-006w	31/01/2025	31/01/2025
A-T-019w	31/01/2025	31/01/2025
A-T-022w	31/01/2025	31/01/2025
A-T-025w	04/02/2025	04/02/2025
A-T-026w	30/01/2025	30/01/2025
A-T-031w	30/01/2025	30/01/2025
A-T-032w	30/01/2025	30/01/2025
A-T-040w	30/01/2025	30/01/2025
A-T-042wTCN	31/01/2025	31/01/2025
A-T-049w	30/01/2025	30/01/2025
A-T-050w	31/01/2025	30/01/2025
A-T-052w	03/02/2025	03/02/2025
A-T-055w	02/03/2025	02/03/2025
Calc	31/01/2025	31/01/2025
Calc-As Recd	03/02/2025	03/02/2025

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 25/03750
Issue Number: 1

Date: 14 April, 2025

Client: REMEDX Bristol
The Old School
Stillhouse Lane
Bedminster
Bristol
UK
BS3 4EB

Project Manager: Muhammad Zahid/Pete Findon
Project Name: Not specified
Project Ref: 171111
Order No: N/A
Date Samples Received: 09/04/25
Date Instructions Received: 10/04/25
Date Analysis Completed: 14/04/25

Approved by:



Gemma Berrisford
Deputy Client Services Supervisor

Envirolab Job Number: 25/03750

Client Project Name: Not specified

Client Project Ref: 171111

Lab Sample ID	25/03750/1	25/03750/2	25/03750/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RXI023	RXI024	RXI025							
Depth to Top										
Depth To Bottom										
Date Sampled	09-Apr-25	09-Apr-25	09-Apr-25							
Sample Type	WATER - EW	WATER - EW	WATER - EW							
Sample Matrix Code	N/A	N/A	N/A							
VOC (w)										
Dichlorodifluoromethane _A	<1	<1	<1					µg/l	1	A-T-006w
Chloromethane _A	<10	<10	<10					µg/l	10	A-T-006w
Vinyl Chloride _A [#]	42	19	<1					µg/l	1	A-T-006w
Bromomethane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Chloroethane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	20	63	78					µg/l	1	A-T-006w
Dichloromethane _A	<5	<5	<5					µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	52	96	288					µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5	<5	<5					µg/l	5	A-T-006w
Chloroform _A [#]	<1	<1	12					µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2	<2	<2					µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Benzene _A [#]	290	184	8					µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	<1	<1	8					µg/l	1	A-T-006w
Dibromomethane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10	<10	<10					µg/l	10	A-T-006w
Trichloroethene _A [#]	8	5	21					µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Toluene _A [#]	1	<1	<1					µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3	<3	<3					µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Tetrachloroethene _A	<1	<1	<1					µg/l	1	A-T-006w

Envirolab Job Number: 25/03750

Client Project Name: Not specified

Client Project Ref: 171111

Lab Sample ID	25/03750/1	25/03750/2	25/03750/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RXI023	RXI024	RXI025							
Depth to Top										
Depth To Bottom										
Date Sampled	09-Apr-25	09-Apr-25	09-Apr-25							
Sample Type	WATER - EW	WATER - EW	WATER - EW							
Sample Matrix Code	N/A	N/A	N/A							
1,1,1,2-Tetrachloroethane _A	<1	<1	<1					µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Ethylbenzene _A [#]	4	2	<1					µg/l	1	A-T-006w
m & p Xylene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Bromoform _A [#]	<3	<3	<3					µg/l	3	A-T-006w
Styrene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,1,2,2-Tetrachloroethane _A	<1	<1	<1					µg/l	1	A-T-006w
o-Xylene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Bromobenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2	<2	<2					µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2	<2	<2					µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3	<3	<3					µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3	<3	<3					µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1	<1	<1					µg/l	1	A-T-006w

Report Notes

General

- This report shall not be reproduced, except in full, without written approval from Envirolab.
- The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
- The results reported herein relate only to the material supplied to the laboratory.
- The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
- Analytical results reflect the quality of the sample at the time of analysis only.
- Opinions and Interpretations expressed are outside our scope of accreditation.
- A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
- If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
- Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript “#”	Accredited to ISO 17025
Superscript “M”	Accredited to MCertS
Superscript “U”	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript “A”	Analysis performed on as-received Sample
Subscript “D”	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript “D” on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript “A”	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis

“Trace Asbestos Identified” will be reported if there is not enough present to verify the type.

Quantification: Generally a 2 stage process including visual identification, hand picking and weighing, and fibre counting. Where ACMs are found a percentage asbestos is assigned to each with reference to ‘HSG264, Asbestos: The survey guide’ and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres). “TRACE” will be reported as a quantification result.

PLEASE INFORM THE LABORATORY IF YOU WOULD LIKE THE STAGE 3 SEDIMENTATION PROCESS CARRIED OUT. Note this will be subcontracted.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs
Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.					

Soil Chemical Analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as ‘% stones >10mm’.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any “D” subscripts.

TPH by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only. Results “with Clean up” indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.

Where these humic substances have been identified in any IDs from “TPH CWG with clean up” please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: REMEDX Bristol, The Old School, Stillhouse Lane, Bedminster, Bristol, UK,
BS3 4EB

Project:
Clients Project No: 171111

Project No: 25/03750
Date Received: 10/04/2025 (am)
Cool Box Temperatures (°C): 12.3

NO DEVIATIONS IDENTIFIED with respect to sampling dates or containers received.

Note: If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3 (for water samples $5 \pm 3^{\circ}\text{C}$), ISO 18400-105:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	25/03750/1	25/03750/2	25/03750/3
Client Sample No			
Client Sample ID/Depth	RXI023	RXI024	RXI025
Date Sampled	09/04/25	09/04/25	09/04/25
A-T-006w	14/04/2025	14/04/2025	14/04/2025

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 25/03842
Issue Number: 1

Date: 22 April, 2025

Client: REMEDX Bristol
The Old School
Stillhouse Lane
Bedminster
Bristol
UK
BS3 4EB

Project Manager: Muhammad Zahid/Pete Findon
Project Name: Victoria North
Project Ref: 171111
Order No: N/A
Date Samples Received: 10/01/25
Date Instructions Received: 11/04/25
Date Analysis Completed: 22/04/25

Approved by:



Richard Wong
Client Manager

Envirolab Job Number: 25/03842

Client Project Name: Victoria North

Client Project Ref: 171111

Lab Sample ID	25/03842/1	25/03842/2	25/03842/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH503	RXI-026							
Depth to Top	5.50	7.00	13.00							
Depth To Bottom										
Date Sampled	10-Apr-25	10-Apr-25	10-Apr-25							
Sample Type	WATER - EW	WATER - EW	WATER - EW							
Sample Matrix Code	N/A	N/A	N/A							
VOC (w)										
Dichlorodifluoromethane _A	<1	<1	<1					µg/l	1	A-T-006w
Chloromethane _A	<10	<10	<10					µg/l	10	A-T-006w
Vinyl Chloride _A [#]	19	43	<1					µg/l	1	A-T-006w
Bromomethane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Chloroethane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	87	22	63					µg/l	1	A-T-006w
Dichloromethane _A	<5	<5	<5					µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	<1	<1	1					µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	129	67	613					µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5	<5	<5					µg/l	5	A-T-006w
Chloroform _A [#]	<1	<1	13					µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2	<2	<2					µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Benzene _A [#]	<1	20	5					µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	<1	<1	48					µg/l	1	A-T-006w
Dibromomethane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10	<10	<10					µg/l	10	A-T-006w
Trichloroethene _A [#]	<1	<1	28					µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Toluene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3	<3	<3					µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Tetrachloroethene _A	<1	<1	<1					µg/l	1	A-T-006w

Envirolab Job Number: 25/03842

Client Project Name: Victoria North

Client Project Ref: 171111

Lab Sample ID	25/03842/1	25/03842/2	25/03842/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH503	RXI-026							
Depth to Top	5.50	7.00	13.00							
Depth To Bottom										
Date Sampled	10-Apr-25	10-Apr-25	10-Apr-25							
Sample Type	WATER - EW	WATER - EW	WATER - EW							
Sample Matrix Code	N/A	N/A	N/A							
1,1,1,2-Tetrachloroethane _A	<1	<1	<1					µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Ethylbenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
m & p Xylene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Bromoform _A [#]	<3	<3	<3					µg/l	3	A-T-006w
Styrene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,1,2,2-Tetrachloroethane _A	<1	<1	<1					µg/l	1	A-T-006w
o-Xylene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Bromobenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2	<2	<2					µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2	<2	<2					µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3	<3	<3					µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3	<3	<3					µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1	<1	<1					µg/l	1	A-T-006w

Report Notes

General

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- The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
- The results reported herein relate only to the material supplied to the laboratory.
- The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
- Analytical results reflect the quality of the sample at the time of analysis only.
- Opinions and Interpretations expressed are outside our scope of accreditation.
- A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
- If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
- Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript “#”	Accredited to ISO 17025
Superscript “M”	Accredited to MCertS
Superscript “U”	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript “A”	Analysis performed on as-received Sample
Subscript “D”	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript “D” on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript “A”	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis

“Trace Asbestos Identified” will be reported if there is not enough present to verify the type.

Quantification: Generally a 2 stage process including visual identification, hand picking and weighing, and fibre counting. Where ACMs are found a percentage asbestos is assigned to each with reference to ‘HSG264, Asbestos: The survey guide’ and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres). “TRACE” will be reported as a quantification result.

PLEASE INFORM THE LABORATORY IF YOU WOULD LIKE THE STAGE 3 SEDIMENTATION PROCESS CARRIED OUT. Note this will be subcontracted.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs

Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.

Soil Chemical Analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as ‘% stones >10mm’.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any “D” subscripts.

TPH by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only. Results “with Clean up” indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.

Where these humic substances have been identified in any IDs from “TPH CWG with clean up” please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: REMEDX Bristol, The Old School, Stillhouse Lane, Bedminster, Bristol, UK, BS3 4EB Project: Victoria North Clients Project No: 171111	Project No: 25/03842 Date Received: 11/04/2025 (pm) Cool Box Temperatures (°C): 13.9
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NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	25/03842/1	25/03842/2	25/03842/3
Client Sample No			
Client Sample ID/Depth	LKBH01 5.50m	RBH503 7.00m	RXI-026 13.00m
Date Sampled	10/04/25	10/04/25	10/04/25
A-T-006w	22/04/2025	22/04/2025	22/04/2025

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report



Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US

Tel: (01244) 528777
email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

Envirolab
Sandpits Business Park
Mottram Road
Hyde
Cheshire
SK14 3AR

Attention: Subcon Envirolab

CERTIFICATE OF ANALYSIS

Date of report Generation:	16 April 2025
Customer:	Envirolab
Sample Delivery Group (SDG):	250416-56
Your Reference:	25/03904
Location:	171111
Report No:	762402
Order Number:	P0756716

We received 2 samples on Wednesday April 16, 2025 and 2 of these samples were scheduled for analysis which was completed on Wednesday April 16, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land



CERTIFICATE OF ANALYSIS

Validated

SDG: 250416-56

Report Number: 762402

Superseded Report:

Client Ref.: 25/03904

Location: 171111

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
31391882	25/03904/2 RBH203			
31391881	25/03904/1 RXI003			

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 250416-56
Client Ref.: 25/03904

Report Number: 762402
Location: 171111

Superseded Report:

Results Legend



Test



No Determination
Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Lab Sample No(s)

31391881
31391882

Customer
Sample Reference

25/03904/1
RX1003
25/03904/2
RBH203

AGS Reference

Depth (m)

Container

Vial (ALE297)
Vial (ALE297)

Sample Type

UNL
UNL

Determination of Dissolved Gases

All

NDPs: 0
Tests: 2

X X



CERTIFICATE OF ANALYSIS

Validated

SDG: 250416-56
Client Ref.: 25/03904

Report Number: 762402
Location: 171111

Superseded Report:

Results Legend			Customer Sample Ref.		25/03904/2 RBH203		25/03904/1 RXI003					
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6.2 FTAB (see appendix) 1-4**@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		Unspecified Liquid (UNL) 16/04/2025 250416-56 31391882		Unspecified Liquid (UNL) 16/04/2025 250416-56 31391881					
Component	LOD/Units	Method										
Methane, dissolved	<1 µg/l	TM223	1.29		1.4							
			\$		\$							
Ethene, dissolved	<1 µg/l	TM223	<1		<1							
			\$		\$							
Ethane, dissolved	<1 µg/l	TM223	1.02		3.08							
			\$		\$							
Carbon dioxide, dissolved	<1.3 mg/l	TM223	74.7		202							
			\$		\$							
Propane, dissolved	<1 µg/l	TM223	<1		<1							
			\$		\$							



CERTIFICATE OF ANALYSIS

Validated

SDG: 250416-56
Client Ref.: 25/03904

Report Number: 762402
Location: 171111

Superseded Report:

Table of Results - Appendix

Method No	Description
TM223	Determination of Dissolved C1-7 Hydrocarbon gases in waters

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



CERTIFICATE OF ANALYSIS

Validated

SDG: 250416-56
Client Ref.: 25/03904

Report Number: 762402
Location: 171111

Superseded Report:

Test Completion Dates

Lab Sample No(s)	31391882	31391881
Customer Sample Ref.	25/03904/2 RBH2 03	25/03904/1 RX10 03
AGS Ref.		
Depth		
Type	Unspecified	Unspecified
Determination of Dissolved Gases	16-Apr-2025	16-Apr-2025



CERTIFICATE OF ANALYSIS

Validated

SDG: 250416-56
Client Ref.: 25/03904

Report Number: 762402
Location: 171111

Superseded Report:

ASSOCIATED AQC DATA

Determination of Dissolved Gases

Component	Method Code	QC 3184
Carbon Dioxide Dissolved Raw	TM223	100.04 93.24 : 111.06
Ethane Dissolved Raw	TM223	103.44 98.74 : 109.56
Methane Dissolved Raw	TM223	111.51 105.43 : 116.74
Propane Dissolved Raw	TM223	101.58 96.47 : 107.13

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



CERTIFICATE OF ANALYSIS

SDG: 250416-56
Client Ref: 25/03904

Report Number: 762402
Location: 171111

Superseded Report:

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.

FINAL ANALYTICAL TEST REPORT

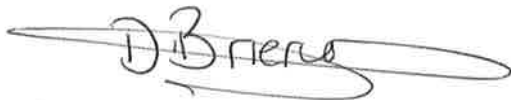
Envirolab Job Number: 25/03904
Issue Number: 1

Date: 23 April, 2025

Client: REMEDX Bristol
The Old School
Stillhouse Lane
Bedminster
Bristol
UK
BS3 4EB

Project Manager: Muhammad Zahid/Pete Findon
Project Name: Not specified
Project Ref: 171111
Order No: N/A
Date Samples Received: 11/04/25
Date Instructions Received: 14/04/25
Date Analysis Completed: 23/04/25

Approved by:



Danielle Brierley
Client Services Supervisor

Envirolab Job Number: 25/03904

Client Project Name: Not specified

Client Project Ref: 171111

Lab Sample ID	25/03904/1	25/03904/2						Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RX1003	RBH203								
Depth to Top										
Depth To Bottom										
Date Sampled										
Sample Type	WATER - EW	WATER - EW								
Sample Matrix Code	N/A	N/A								
Dissolved Ethene (C2H4) (w) _A	Appended	Appended						µg/l	1	Subcon ALS Haw
Dissolved Carbon Dioxide (CO2) (w) _A	114953	16962						µg/l	1000	A-T-058w
Dissolved Methane (CH4) (w) _A	<1	<1						µg/l	1	A-T-058w

Envirolab Job Number: 25/03904

Client Project Name: Not specified

Client Project Ref: 171111

Lab Sample ID	25/03904/1	25/03904/2								
Client Sample No										
Client Sample ID	RX1003	RBH203								
Depth to Top										
Depth To Bottom										
Date Sampled										
Sample Type	WATER - EW	WATER - EW								
Sample Matrix Code	N/A	N/A								
VOC (w)										
Dichlorodifluoromethane _A	<1	<1						µg/l	1	A-T-006w
Chloromethane _A	<10	<10						µg/l	10	A-T-006w
Vinyl Chloride _A [#]	<1	<1						µg/l	1	A-T-006w
Bromomethane _A [#]	<1	<1						µg/l	1	A-T-006w
Chloroethane _A [#]	<1	<1						µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1	<1						µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	5	<1						µg/l	1	A-T-006w
Dichloromethane _A	<5	<5						µg/l	5	A-T-006w
Carbon Disulphide _A [#]	2	<1						µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	<1	<1						µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	<1	<1						µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	24	2						µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5	<5						µg/l	5	A-T-006w
Chloroform _A [#]	8	11						µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1	<1						µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2	<2						µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1	<1						µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1	<1						µg/l	1	A-T-006w
Benzene _A [#]	<1	<1						µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	<1	3						µg/l	1	A-T-006w
Dibromomethane _A [#]	<1	<1						µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1	<1						µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10	<10						µg/l	10	A-T-006w
Trichloroethene _A [#]	23	14						µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1	<1						µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1	<1						µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	<1	<1						µg/l	1	A-T-006w
Toluene _A [#]	<1	<1						µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1	<1						µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3	<3						µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1	<1						µg/l	1	A-T-006w
Tetrachloroethene _A	<1	<1						µg/l	1	A-T-006w

Envirolab Job Number: 25/03904

Client Project Name: Not specified

Client Project Ref: 171111

Lab Sample ID	25/03904/1	25/03904/2						Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RXI003	RBH203								
Depth to Top										
Depth To Bottom										
Date Sampled										
Sample Type	WATER - EW	WATER - EW								
Sample Matrix Code	N/A	N/A								
1,1,1,2-Tetrachloroethane _A	<1	<1						µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1	<1						µg/l	1	A-T-006w
Ethylbenzene _A [#]	<1	<1						µg/l	1	A-T-006w
m & p Xylene _A [#]	<1	<1						µg/l	1	A-T-006w
Bromoform _A [#]	<3 ^U	<3 ^U						µg/l	3	A-T-006w
Styrene _A [#]	<1	<1						µg/l	1	A-T-006w
1,1,1,2,2-Tetrachloroethane _A	<1	<1						µg/l	1	A-T-006w
o-Xylene _A [#]	<1	<1						µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1	<1						µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1	<1						µg/l	1	A-T-006w
Bromobenzene _A [#]	<1	<1						µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1	<1						µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1	<1						µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1	<1						µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1	<1						µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1	<1						µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1	<1						µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1	<1						µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1	<1						µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1	<1						µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2	<2						µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1	<1						µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1	<1						µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2 ^U	<2 ^U						µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3	<3						µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3	<3						µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1	<1						µg/l	1	A-T-006w

Report Notes

General

- This report shall not be reproduced, except in full, without written approval from Envirolab.
- The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
- The results reported herein relate only to the material supplied to the laboratory.
- The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
- Analytical results reflect the quality of the sample at the time of analysis only.
- Opinions and Interpretations expressed are outside our scope of accreditation.
- A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
- If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
- Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript “#”	Accredited to ISO 17025
Superscript “M”	Accredited to MCertS
Superscript “U”	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript “A”	Analysis performed on as-received Sample
Subscript “D”	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript “D” on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript “A”	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis

“Trace Asbestos Identified” will be reported if there is not enough present to verify the type.

Quantification: Generally a 2 stage process including visual identification, hand picking and weighing, and fibre counting. Where ACMs are found a percentage asbestos is assigned to each with reference to ‘HSG264, Asbestos: The survey guide’ and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres). “TRACE” will be reported as a quantification result.

PLEASE INFORM THE LABORATORY IF YOU WOULD LIKE THE STAGE 3 SEDIMENTATION PROCESS CARRIED OUT. Note this will be subcontracted.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs

Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.

Soil Chemical Analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as ‘% stones >10mm’.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any “D” subscripts.

TPH by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only. Results “with Clean up” indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.

Where these humic substances have been identified in any IDs from “TPH CWG with clean up” please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: REMEDX Bristol, The Old School, Stillhouse Lane, Bedminster, Bristol, UK,
BS3 4EB

Project No: 25/03904
Date Received: 14/04/2025 (am)
Cool Box Temperatures (°C): 13.4

Project:
Clients Project No: 171111

Lab Sample ID	25/03904/1	25/03904/2
Client Sample No		
Client Sample ID/Depth	RXI003	RBH203
Date Sampled		
Deviation Code		
E (no date)	✓	✓

Key
E (no date) No sampling date provided (all results affected if not provided)

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	25/03904/1	25/03904/2
Client Sample No		
Client Sample ID/Depth	RXI003	RBH203
Date Sampled		
A-T-006w	16/04/2025	16/04/2025
A-T-058w	23/04/2025	23/04/2025

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

APPENDIX F

LKBH01	TCE	24/01/2025	3	ug/l
LKBH01	1,2-DCE	24/01/2025	314	ug/l
LKBH01	VC	24/01/2025	8	ug/l
LKBH01	CTC	24/01/2025	ND<1	ug/l
LKBH01	CHLOROFORM	24/01/2025	ND<1	ug/l
LKBH01	1,2-DCE	10/04/2025	216	ug/l
LKBH01	CHLOROFORM	10/04/2025	ND<1	ug/l
LKBH01	CTC	10/04/2025	ND<1	ug/l
LKBH01	TCE	10/04/2025	ND<1	ug/l
LKBH01	VC	10/04/2025	19	ug/l
LKBH01	TCE	27/09/2022	2	ug/l
LKBH01	TCE	27/09/2022	2	ug/l
LKBH01	TCE	19/01/2023	2	ug/l
LKBH01	TCE	20/02/2024	ND<1	ug/l
LKBH01	TCE	15/05/2024	ND<1	ug/l
LKBH01	TCE	12/06/2024	ND<1	ug/l
LKBH01	TCE	25/06/2024	ND<1	ug/l
LKBH01	TCE	10/07/2024	ND<1	ug/l
LKBH01	TCE	23/07/2024	ND<1	ug/l
LKBH01	TCE	06/08/2024	ND<1	ug/l
LKBH01	TCE	20/08/2024	ND<1	ug/l
LKBH01	TCE	17/09/2024	ND<5	ug/l
LKBH01	TCE	14/10/2024	ND<1	ug/l
LKBH01	1,2-DCE	27/09/2022	490	ug/l
LKBH01	1,2-DCE	27/09/2022	485	ug/l
LKBH01	1,2-DCE	19/01/2023	602	ug/l
LKBH01	1,2-DCE	20/02/2024	201	ug/l
LKBH01	1,2-DCE	15/05/2024	564	ug/l
LKBH01	1,2-DCE	12/06/2024	85	ug/l
LKBH01	1,2-DCE	25/06/2024	551	ug/l
LKBH01	1,2-DCE	10/07/2024	620	ug/l
LKBH01	1,2-DCE	23/07/2024	506	ug/l
LKBH01	1,2-DCE	06/08/2024	523	ug/l
LKBH01	1,2-DCE	20/08/2024	610	ug/l
LKBH01	1,2-DCE	17/09/2024	360	ug/l
LKBH01	1,2-DCE	14/10/2024	545	ug/l
LKBH01	VC	27/09/2022	16	ug/l
LKBH01	VC	27/09/2022	15	ug/l
LKBH01	VC	19/01/2023	11	ug/l
LKBH01	VC	20/02/2024	14	ug/l
LKBH01	VC	15/05/2024	24	ug/l
LKBH01	VC	12/06/2024	6	ug/l
LKBH01	VC	25/06/2024	25	ug/l
LKBH01	VC	10/07/2024	27	ug/l
LKBH01	VC	23/07/2024	14	ug/l
LKBH01	VC	06/08/2024	11	ug/l
LKBH01	VC	20/08/2024	8	ug/l
LKBH01	VC	17/09/2024	17	ug/l

LKBH01	VC	14/10/2024	49	ug/l
LKBH01	CTC	27/09/2022	ND<1	ug/l
LKBH01	CTC	27/09/2022	ND<1	ug/l
LKBH01	CTC	19/01/2023	3	ug/l
LKBH01	CTC	20/02/2024	ND<1	ug/l
LKBH01	CTC	15/05/2024	ND<1	ug/l
LKBH01	CTC	12/06/2024	ND<1	ug/l
LKBH01	CTC	25/06/2024	ND<1	ug/l
LKBH01	CTC	10/07/2024	ND<1	ug/l
LKBH01	CTC	23/07/2024	ND<1	ug/l
LKBH01	CTC	06/08/2024	ND<1	ug/l
LKBH01	CTC	20/08/2024	ND<1	ug/l
LKBH01	CTC	17/09/2024	ND<5	ug/l
LKBH01	CTC	14/10/2024	ND<1	ug/l
LKBH01	CHLOROFORM	27/09/2022	ND<1	ug/l
LKBH01	CHLOROFORM	27/09/2022	ND<1	ug/l
LKBH01	CHLOROFORM	19/01/2023	2	ug/l
LKBH01	CHLOROFORM	20/02/2024	ND<1	ug/l
LKBH01	CHLOROFORM	15/05/2024	ND<1	ug/l
LKBH01	CHLOROFORM	12/06/2024	ND<1	ug/l
LKBH01	CHLOROFORM	25/06/2024	ND<1	ug/l
LKBH01	CHLOROFORM	10/07/2024	ND<1	ug/l
LKBH01	CHLOROFORM	23/07/2024	ND<1	ug/l
LKBH01	CHLOROFORM	06/08/2024	ND<1	ug/l
LKBH01	CHLOROFORM	20/08/2024	ND<1	ug/l
LKBH01	CHLOROFORM	17/09/2024	ND<5	ug/l
LKBH01	CHLOROFORM	14/10/2024	ND<1	ug/l
LKBH01	TCE	18/11/2024	1	ug/l
LKBH01	1,2-DCE	18/11/2024	649	ug/l
LKBH01	VC	18/11/2024	29	ug/l
LKBH01	CTC	18/11/2024	ND<1	ug/l
LKBH01	CHLOROFORM	18/11/2024	ND<1	ug/l
RBH203	TCE	21/01/2025	38	ug/l
RBH203	1,2-DCE	21/01/2025	8	ug/l
RBH203	VC	21/01/2025	ND<1	ug/l
RBH203	CTC	21/01/2025	30	ug/l
RBH203	CHLOROFORM	21/01/2025	20	ug/l
RBH203	1,2-DCE	10/04/2025	2	ug/l
RBH203	CHLOROFORM	10/04/2025	11	ug/l
RBH203	CTC	10/04/2025	3	ug/l
RBH203	TCE	10/04/2025	14	ug/l
RBH203	VC	10/04/2025	ND<1	ug/l
RBH203	TCE	27/09/2022	480	ug/l
RBH203	TCE	04/10/2022	572	ug/l
RBH203	TCE	19/01/2023	418	ug/l
RBH203	TCE	04/05/2023	214	ug/l
RBH203	TCE	10/05/2023	200	ug/l
RBH203	TCE	13/11/2023	215	ug/l

RBH203	TCE	19/02/2024	126	ug/l
RBH203	TCE	15/05/2024	74	ug/l
RBH203	TCE	12/06/2024	44	ug/l
RBH203	TCE	25/06/2024	60	ug/l
RBH203	TCE	10/07/2024	58	ug/l
RBH203	TCE	23/07/2024	56	ug/l
RBH203	TCE	07/08/2024	36	ug/l
RBH203	TCE	21/08/2024	28	ug/l
RBH203	TCE	17/09/2024	33	ug/l
RBH203	TCE	14/10/2024	73	ug/l
RBH203	1,2-DCE	27/09/2022	2	ug/l
RBH203	1,2-DCE	04/10/2022	2	ug/l
RBH203	1,2-DCE	19/01/2023	4	ug/l
RBH203	1,2-DCE	04/05/2023	4	ug/l
RBH203	1,2-DCE	10/05/2023	3	ug/l
RBH203	1,2-DCE	13/11/2023	4	ug/l
RBH203	1,2-DCE	19/02/2024	ND<1	ug/l
RBH203	1,2-DCE	15/05/2024	2	ug/l
RBH203	1,2-DCE	12/06/2024	1	ug/l
RBH203	1,2-DCE	25/06/2024	1	ug/l
RBH203	1,2-DCE	10/07/2024	1	ug/l
RBH203	1,2-DCE	23/07/2024	1	ug/l
RBH203	1,2-DCE	07/08/2024	ND<1	ug/l
RBH203	1,2-DCE	21/08/2024	ND<1	ug/l
RBH203	1,2-DCE	17/09/2024	ND<1	ug/l
RBH203	1,2-DCE	14/10/2024	3	ug/l
RBH203	VC	27/09/2022	ND<1	ug/l
RBH203	VC	04/10/2022	ND<1	ug/l
RBH203	VC	19/01/2023	ND<1	ug/l
RBH203	VC	04/05/2023	ND<1	ug/l
RBH203	VC	10/05/2023	ND<1	ug/l
RBH203	VC	13/11/2023	ND<1	ug/l
RBH203	VC	19/02/2024	ND<1	ug/l
RBH203	VC	15/05/2024	ND<1	ug/l
RBH203	VC	12/06/2024	ND<1	ug/l
RBH203	VC	25/06/2024	ND<1	ug/l
RBH203	VC	10/07/2024	ND<1	ug/l
RBH203	VC	23/07/2024	ND<1	ug/l
RBH203	VC	07/08/2024	ND<1	ug/l
RBH203	VC	21/08/2024	ND<1	ug/l
RBH203	VC	17/09/2024	ND<1	ug/l
RBH203	VC	14/10/2024	ND<1	ug/l
RBH203	CTC	27/09/2022	95	ug/l
RBH203	CTC	04/10/2022	104	ug/l
RBH203	CTC	19/01/2023	265	ug/l
RBH203	CTC	04/05/2023	164	ug/l
RBH203	CTC	10/05/2023	107	ug/l
RBH203	CTC	13/11/2023	84	ug/l

RBH203	CTC	19/02/2024	45	ug/l
RBH203	CTC	15/05/2024	41	ug/l
RBH203	CTC	12/06/2024	32	ug/l
RBH203	CTC	25/06/2024	56	ug/l
RBH203	CTC	10/07/2024	60	ug/l
RBH203	CTC	23/07/2024	60	ug/l
RBH203	CTC	07/08/2024	50	ug/l
RBH203	CTC	21/08/2024	29	ug/l
RBH203	CTC	17/09/2024	42	ug/l
RBH203	CTC	14/10/2024	66	ug/l
RBH203	CHLOROFORM	27/09/2022	54	ug/l
RBH203	CHLOROFORM	04/10/2022	77	ug/l
RBH203	CHLOROFORM	19/01/2023	195	ug/l
RBH203	CHLOROFORM	04/05/2023	163	ug/l
RBH203	CHLOROFORM	10/05/2023	121	ug/l
RBH203	CHLOROFORM	13/11/2023	59	ug/l
RBH203	CHLOROFORM	19/02/2024	24	ug/l
RBH203	CHLOROFORM	15/05/2024	47	ug/l
RBH203	CHLOROFORM	12/06/2024	29	ug/l
RBH203	CHLOROFORM	25/06/2024	43	ug/l
RBH203	CHLOROFORM	10/07/2024	45	ug/l
RBH203	CHLOROFORM	23/07/2024	45	ug/l
RBH203	CHLOROFORM	07/08/2024	35	ug/l
RBH203	CHLOROFORM	21/08/2024	16	ug/l
RBH203	CHLOROFORM	17/09/2024	17	ug/l
RBH203	CHLOROFORM	14/10/2024	33	ug/l
RBH203	TCE	18/11/2024	44	ug/l
RBH203	1,2-DCE	18/11/2024	ND<1	ug/l
RBH203	VC	18/11/2024	ND<1	ug/l
RBH203	CTC	18/11/2024	65	ug/l
RBH203	CHLOROFORM	18/11/2024	27	ug/l
RBH501	TCE	23/01/2025	191	ug/l
RBH501	1,2-DCE	23/01/2025	5	ug/l
RBH501	VC	23/01/2025	ND<1	ug/l
RBH501	CTC	23/01/2025	108	ug/l
RBH501	CHLOROFORM	23/01/2025	111	ug/l
RBH501	TCE	15/09/2022	ND<1	ug/l
RBH501	TCE	15/01/2023	ND<1	ug/l
RBH501	TCE	15/04/2023	ND<1	ug/l
RBH501	TCE	13/11/2023	27	ug/l
RBH501	TCE	19/02/2024	317	ug/l
RBH501	TCE	15/05/2024	138	ug/l
RBH501	TCE	12/06/2024	72	ug/l
RBH501	TCE	25/06/2024	76	ug/l
RBH501	TCE	10/07/2024	114	ug/l
RBH501	TCE	23/07/2024	520	ug/l
RBH501	TCE	07/08/2024	474	ug/l
RBH501	TCE	21/08/2024	347	ug/l

RBH501	TCE	17/09/2024	639	ug/l
RBH501	TCE	14/10/2024	1174	ug/l
RBH501	1,2-DCE	15/09/2022	ND<1	ug/l
RBH501	1,2-DCE	15/01/2023	ND<1	ug/l
RBH501	1,2-DCE	15/04/2023	ND<1	ug/l
RBH501	1,2-DCE	13/11/2023	2	ug/l
RBH501	1,2-DCE	19/02/2024	4	ug/l
RBH501	1,2-DCE	15/05/2024	4	ug/l
RBH501	1,2-DCE	12/06/2024	4	ug/l
RBH501	1,2-DCE	25/06/2024	5	ug/l
RBH501	1,2-DCE	10/07/2024	5	ug/l
RBH501	1,2-DCE	23/07/2024	14	ug/l
RBH501	1,2-DCE	07/08/2024	9	ug/l
RBH501	1,2-DCE	21/08/2024	8	ug/l
RBH501	1,2-DCE	17/09/2024	16	ug/l
RBH501	1,2-DCE	14/10/2024	19	ug/l
RBH501	VC	15/09/2022	ND<1	ug/l
RBH501	VC	15/01/2023	ND<1	ug/l
RBH501	VC	15/04/2023	ND<1	ug/l
RBH501	VC	13/11/2023	ND<1	ug/l
RBH501	VC	19/02/2024	ND<1	ug/l
RBH501	VC	15/05/2024	ND<1	ug/l
RBH501	VC	12/06/2024	ND<1	ug/l
RBH501	VC	25/06/2024	ND<1	ug/l
RBH501	VC	10/07/2024	ND<1	ug/l
RBH501	VC	23/07/2024	ND<1	ug/l
RBH501	VC	07/08/2024	ND<1	ug/l
RBH501	VC	21/08/2024	ND<1	ug/l
RBH501	VC	17/09/2024	ND<1	ug/l
RBH501	VC	14/10/2024	ND<1	ug/l
RBH501	CTC	15/09/2022	ND<1	ug/l
RBH501	CTC	15/01/2023	ND<1	ug/l
RBH501	CTC	15/04/2023	ND<1	ug/l
RBH501	CTC	13/11/2023	17	ug/l
RBH501	CTC	19/02/2024	83	ug/l
RBH501	CTC	15/05/2024	69	ug/l
RBH501	CTC	12/06/2024	57	ug/l
RBH501	CTC	25/06/2024	87	ug/l
RBH501	CTC	10/07/2024	128	ug/l
RBH501	CTC	23/07/2024	156	ug/l
RBH501	CTC	07/08/2024	160	ug/l
RBH501	CTC	21/08/2024	125	ug/l
RBH501	CTC	17/09/2024	214	ug/l
RBH501	CTC	14/10/2024	311	ug/l
RBH501	CHLOROFORM	15/09/2022	ND<1	ug/l
RBH501	CHLOROFORM	15/01/2023	ND<1	ug/l
RBH501	CHLOROFORM	15/04/2023	ND<1	ug/l
RBH501	CHLOROFORM	13/11/2023	40	ug/l

RBH501	CHLOROFORM	19/02/2024	78	ug/l
RBH501	CHLOROFORM	15/05/2024	72	ug/l
RBH501	CHLOROFORM	12/06/2024	61	ug/l
RBH501	CHLOROFORM	25/06/2024	95	ug/l
RBH501	CHLOROFORM	10/07/2024	104	ug/l
RBH501	CHLOROFORM	23/07/2024	244	ug/l
RBH501	CHLOROFORM	07/08/2024	186	ug/l
RBH501	CHLOROFORM	21/08/2024	147	ug/l
RBH501	CHLOROFORM	17/09/2024	282	ug/l
RBH501	CHLOROFORM	14/10/2024	421	ug/l
RBH501	TCE	18/11/2024	1962	ug/l
RBH501	1,2-DCE	18/11/2024	15	ug/l
RBH501	VC	18/11/2024	ND<1	ug/l
RBH501	CTC	18/11/2024	364	ug/l
RBH501	CHLOROFORM	18/11/2024	425	ug/l
RBH502	TCE	21/01/2025	19	ug/l
RBH502	1,2-DCE	21/01/2025	ND<1	ug/l
RBH502	VC	21/01/2025	ND<1	ug/l
RBH502	CTC	21/01/2025	170	ug/l
RBH502	CHLOROFORM	21/01/2025	76	ug/l
RBH502	TCE	15/09/2022	ND<1	ug/l
RBH502	TCE	15/01/2023	ND<1	ug/l
RBH502	TCE	15/04/2023	ND<1	ug/l
RBH502	TCE	13/11/2023	3	ug/l
RBH502	TCE	19/02/2024	ND<1	ug/l
RBH502	TCE	15/05/2024	6	ug/l
RBH502	TCE	12/06/2024	5	ug/l
RBH502	TCE	25/06/2024	6	ug/l
RBH502	TCE	10/07/2024	7	ug/l
RBH502	TCE	23/07/2024	9	ug/l
RBH502	TCE	07/08/2024	6	ug/l
RBH502	TCE	21/08/2024	6	ug/l
RBH502	TCE	17/09/2024	8	ug/l
RBH502	TCE	14/10/2024	14	ug/l
RBH502	1,2-DCE	15/09/2022	ND<1	ug/l
RBH502	1,2-DCE	15/01/2023	ND<1	ug/l
RBH502	1,2-DCE	15/04/2023	ND<1	ug/l
RBH502	1,2-DCE	13/11/2023	ND<1	ug/l
RBH502	1,2-DCE	19/02/2024	ND<1	ug/l
RBH502	1,2-DCE	15/05/2024	ND<1	ug/l
RBH502	1,2-DCE	12/06/2024	1	ug/l
RBH502	1,2-DCE	25/06/2024	ND<1	ug/l
RBH502	1,2-DCE	10/07/2024	ND<1	ug/l
RBH502	1,2-DCE	23/07/2024	ND<1	ug/l
RBH502	1,2-DCE	07/08/2024	ND<1	ug/l
RBH502	1,2-DCE	21/08/2024	ND<1	ug/l
RBH502	1,2-DCE	17/09/2024	ND<1	ug/l
RBH502	1,2-DCE	14/10/2024	ND<1	ug/l

RBH502	VC	15/09/2022	ND<1	ug/l
RBH502	VC	15/01/2023	ND<1	ug/l
RBH502	VC	15/04/2023	ND<1	ug/l
RBH502	VC	13/11/2023	ND<1	ug/l
RBH502	VC	19/02/2024	ND<1	ug/l
RBH502	VC	15/05/2024	ND<1	ug/l
RBH502	VC	12/06/2024	ND<1	ug/l
RBH502	VC	25/06/2024	ND<1	ug/l
RBH502	VC	10/07/2024	ND<1	ug/l
RBH502	VC	23/07/2024	ND<1	ug/l
RBH502	VC	07/08/2024	ND<1	ug/l
RBH502	VC	21/08/2024	ND<1	ug/l
RBH502	VC	17/09/2024	ND<1	ug/l
RBH502	VC	14/10/2024	ND<1	ug/l
RBH502	CTC	15/09/2022	ND<1	ug/l
RBH502	CTC	15/01/2023	ND<1	ug/l
RBH502	CTC	15/04/2023	ND<1	ug/l
RBH502	CTC	13/11/2023	24	ug/l
RBH502	CTC	19/02/2024	132	ug/l
RBH502	CTC	15/05/2024	95	ug/l
RBH502	CTC	12/06/2024	95	ug/l
RBH502	CTC	25/06/2024	131	ug/l
RBH502	CTC	10/07/2024	191	ug/l
RBH502	CTC	23/07/2024	179	ug/l
RBH502	CTC	07/08/2024	186	ug/l
RBH502	CTC	21/08/2024	148	ug/l
RBH502	CTC	17/09/2024	202	ug/l
RBH502	CTC	14/10/2024	299	ug/l
RBH502	CHLOROFORM	15/09/2022	ND<1	ug/l
RBH502	CHLOROFORM	15/01/2023	ND<1	ug/l
RBH502	CHLOROFORM	15/04/2023	ND<1	ug/l
RBH502	CHLOROFORM	13/11/2023	21	ug/l
RBH502	CHLOROFORM	19/02/2024	54	ug/l
RBH502	CHLOROFORM	15/05/2024	52	ug/l
RBH502	CHLOROFORM	12/06/2024	73	ug/l
RBH502	CHLOROFORM	25/06/2024	103	ug/l
RBH502	CHLOROFORM	10/07/2024	98	ug/l
RBH502	CHLOROFORM	23/07/2024	104	ug/l
RBH502	CHLOROFORM	07/08/2024	93	ug/l
RBH502	CHLOROFORM	21/08/2024	76	ug/l
RBH502	CHLOROFORM	17/09/2024	103	ug/l
RBH502	CHLOROFORM	14/10/2024	124	ug/l
RBH502	TCE	18/11/2024	11	ug/l
RBH502	1,2-DCE	18/11/2024	ND<1	ug/l
RBH502	VC	18/11/2024	ND<1	ug/l
RBH502	CTC	18/11/2024	392	ug/l
RBH502	CHLOROFORM	18/11/2024	118	ug/l
RBH503	TCE	22/01/2025	ND<1	ug/l

RBH503	1,2-DCE	22/01/2025	104	ug/l
RBH503	VC	22/01/2025	21	ug/l
RBH503	CTC	22/01/2025	ND<1	ug/l
RBH503	CHLOROFORM	22/01/2025	ND<1	ug/l
RBH503	1,2-DCE	10/04/2025	89	ug/l
RBH503	CHLOROFORM	10/04/2025	ND<1	ug/l
RBH503	CTC	10/04/2025	ND<1	ug/l
RBH503	TCE	10/04/2025	ND<1	ug/l
RBH503	VC	10/04/2025	43	ug/l
RBH503	TCE	15/09/2022	ND<1	ug/l
RBH503	TCE	15/01/2023	ND<1	ug/l
RBH503	TCE	15/04/2023	ND<1	ug/l
RBH503	TCE	13/11/2023	ND<1	ug/l
RBH503	TCE	20/02/2024	ND<1	ug/l
RBH503	TCE	16/05/2024	ND<1	ug/l
RBH503	TCE	12/06/2024	ND<1	ug/l
RBH503	TCE	25/06/2024	ND<1	ug/l
RBH503	TCE	10/07/2024	ND<1	ug/l
RBH503	TCE	23/07/2024	ND<1	ug/l
RBH503	TCE	06/08/2024	ND<1	ug/l
RBH503	TCE	20/08/2024	ND<1	ug/l
RBH503	TCE	17/09/2024	ND<1	ug/l
RBH503	TCE	14/10/2024	ND<1	ug/l
RBH503	1,2-DCE	15/09/2022	ND<1	ug/l
RBH503	1,2-DCE	15/01/2023	ND<1	ug/l
RBH503	1,2-DCE	15/04/2023	ND<1	ug/l
RBH503	1,2-DCE	13/11/2023	100	ug/l
RBH503	1,2-DCE	20/02/2024	2	ug/l
RBH503	1,2-DCE	16/05/2024	72	ug/l
RBH503	1,2-DCE	12/06/2024	34	ug/l
RBH503	1,2-DCE	25/06/2024	94	ug/l
RBH503	1,2-DCE	10/07/2024	153	ug/l
RBH503	1,2-DCE	23/07/2024	111	ug/l
RBH503	1,2-DCE	06/08/2024	108	ug/l
RBH503	1,2-DCE	20/08/2024	115	ug/l
RBH503	1,2-DCE	17/09/2024	152	ug/l
RBH503	1,2-DCE	14/10/2024	97	ug/l
RBH503	VC	15/09/2022	ND<1	ug/l
RBH503	VC	15/01/2023	ND<1	ug/l
RBH503	VC	15/04/2023	ND<1	ug/l
RBH503	VC	13/11/2023	44	ug/l
RBH503	VC	20/02/2024	ND<1	ug/l
RBH503	VC	16/05/2024	35	ug/l
RBH503	VC	12/06/2024	19	ug/l
RBH503	VC	25/06/2024	56	ug/l
RBH503	VC	10/07/2024	56	ug/l
RBH503	VC	23/07/2024	22	ug/l
RBH503	VC	06/08/2024	59	ug/l

RBH503	VC	20/08/2024	42	ug/l
RBH503	VC	17/09/2024	67	ug/l
RBH503	VC	14/10/2024	27	ug/l
RBH503	CTC	15/09/2022	ND<1	ug/l
RBH503	CTC	15/01/2023	ND<1	ug/l
RBH503	CTC	15/04/2023	ND<1	ug/l
RBH503	CTC	13/11/2023	ND<1	ug/l
RBH503	CTC	20/02/2024	ND<1	ug/l
RBH503	CTC	16/05/2024	ND<1	ug/l
RBH503	CTC	12/06/2024	ND<1	ug/l
RBH503	CTC	25/06/2024	ND<1	ug/l
RBH503	CTC	10/07/2024	ND<1	ug/l
RBH503	CTC	23/07/2024	ND<1	ug/l
RBH503	CTC	06/08/2024	ND<1	ug/l
RBH503	CTC	20/08/2024	ND<1	ug/l
RBH503	CTC	17/09/2024	ND<1	ug/l
RBH503	CTC	14/10/2024	ND<1	ug/l
RBH503	CHLOROFORM	15/09/2022	ND<1	ug/l
RBH503	CHLOROFORM	15/01/2023	ND<1	ug/l
RBH503	CHLOROFORM	15/04/2023	ND<1	ug/l
RBH503	CHLOROFORM	13/11/2023	ND<1	ug/l
RBH503	CHLOROFORM	20/02/2024	ND<1	ug/l
RBH503	CHLOROFORM	16/05/2024	ND<1	ug/l
RBH503	CHLOROFORM	12/06/2024	ND<1	ug/l
RBH503	CHLOROFORM	25/06/2024	ND<1	ug/l
RBH503	CHLOROFORM	10/07/2024	ND<1	ug/l
RBH503	CHLOROFORM	23/07/2024	ND<1	ug/l
RBH503	CHLOROFORM	06/08/2024	ND<1	ug/l
RBH503	CHLOROFORM	20/08/2024	ND<1	ug/l
RBH503	CHLOROFORM	17/09/2024	ND<1	ug/l
RBH503	CHLOROFORM	14/10/2024	ND<1	ug/l
RBH503	TCE	18/11/2024	ND<1	ug/l
RBH503	1,2-DCE	18/11/2024	128	ug/l
RBH503	VC	18/11/2024	49	ug/l
RBH503	CTC	18/11/2024	ND<1	ug/l
RBH503	CHLOROFORM	18/11/2024	ND<1	ug/l
RBH504	TCE	23/01/2025	45	ug/l
RBH504	1,2-DCE	23/01/2025	163	ug/l
RBH504	VC	23/01/2025	ND<1	ug/l
RBH504	CTC	23/01/2025	21	ug/l
RBH504	CHLOROFORM	23/01/2025	10	ug/l
RBH504	TCE	15/09/2022	ND<1	ug/l
RBH504	TCE	15/01/2023	ND<1	ug/l
RBH504	TCE	15/04/2023	ND<1	ug/l
RBH504	TCE	13/11/2023	17	ug/l
RBH504	TCE	19/02/2024	45	ug/l
RBH504	TCE	15/05/2024	27	ug/l
RBH504	TCE	12/06/2024	27	ug/l

RBH504	TCE	25/06/2024	28	ug/l
RBH504	TCE	10/07/2024	35	ug/l
RBH504	TCE	23/07/2024	37	ug/l
RBH504	TCE	07/08/2024	28	ug/l
RBH504	TCE	14/10/2024	32	ug/l
RBH504	1,2-DCE	15/09/2022	ND<1	ug/l
RBH504	1,2-DCE	15/01/2023	ND<1	ug/l
RBH504	1,2-DCE	15/04/2023	ND<1	ug/l
RBH504	1,2-DCE	13/11/2023	151	ug/l
RBH504	1,2-DCE	19/02/2024	139	ug/l
RBH504	1,2-DCE	15/05/2024	89	ug/l
RBH504	1,2-DCE	12/06/2024	105	ug/l
RBH504	1,2-DCE	25/06/2024	151	ug/l
RBH504	1,2-DCE	10/07/2024	142	ug/l
RBH504	1,2-DCE	23/07/2024	164	ug/l
RBH504	1,2-DCE	07/08/2024	147	ug/l
RBH504	1,2-DCE	14/10/2024	182	ug/l
RBH504	VC	15/09/2022	ND<1	ug/l
RBH504	VC	15/01/2023	ND<1	ug/l
RBH504	VC	15/04/2023	ND<1	ug/l
RBH504	VC	13/11/2023	ND<1	ug/l
RBH504	VC	19/02/2024	ND<1	ug/l
RBH504	VC	15/05/2024	ND<1	ug/l
RBH504	VC	12/06/2024	ND<1	ug/l
RBH504	VC	25/06/2024	ND<1	ug/l
RBH504	VC	10/07/2024	ND<1	ug/l
RBH504	VC	23/07/2024	ND<1	ug/l
RBH504	VC	07/08/2024	ND<1	ug/l
RBH504	VC	14/10/2024	ND<1	ug/l
RBH504	CTC	15/09/2022	ND<1	ug/l
RBH504	CTC	15/01/2023	ND<1	ug/l
RBH504	CTC	15/04/2023	ND<1	ug/l
RBH504	CTC	13/11/2023	14	ug/l
RBH504	CTC	19/02/2024	13	ug/l
RBH504	CTC	15/05/2024	10	ug/l
RBH504	CTC	12/06/2024	11	ug/l
RBH504	CTC	25/06/2024	15	ug/l
RBH504	CTC	10/07/2024	20	ug/l
RBH504	CTC	23/07/2024	19	ug/l
RBH504	CTC	07/08/2024	16	ug/l
RBH504	CTC	14/10/2024	25	ug/l
RBH504	CHLOROFORM	15/09/2022	ND<1	ug/l
RBH504	CHLOROFORM	15/01/2023	ND<1	ug/l
RBH504	CHLOROFORM	15/04/2023	ND<1	ug/l
RBH504	CHLOROFORM	13/11/2023	13	ug/l
RBH504	CHLOROFORM	19/02/2024	9	ug/l
RBH504	CHLOROFORM	15/05/2024	6	ug/l
RBH504	CHLOROFORM	12/06/2024	8	ug/l

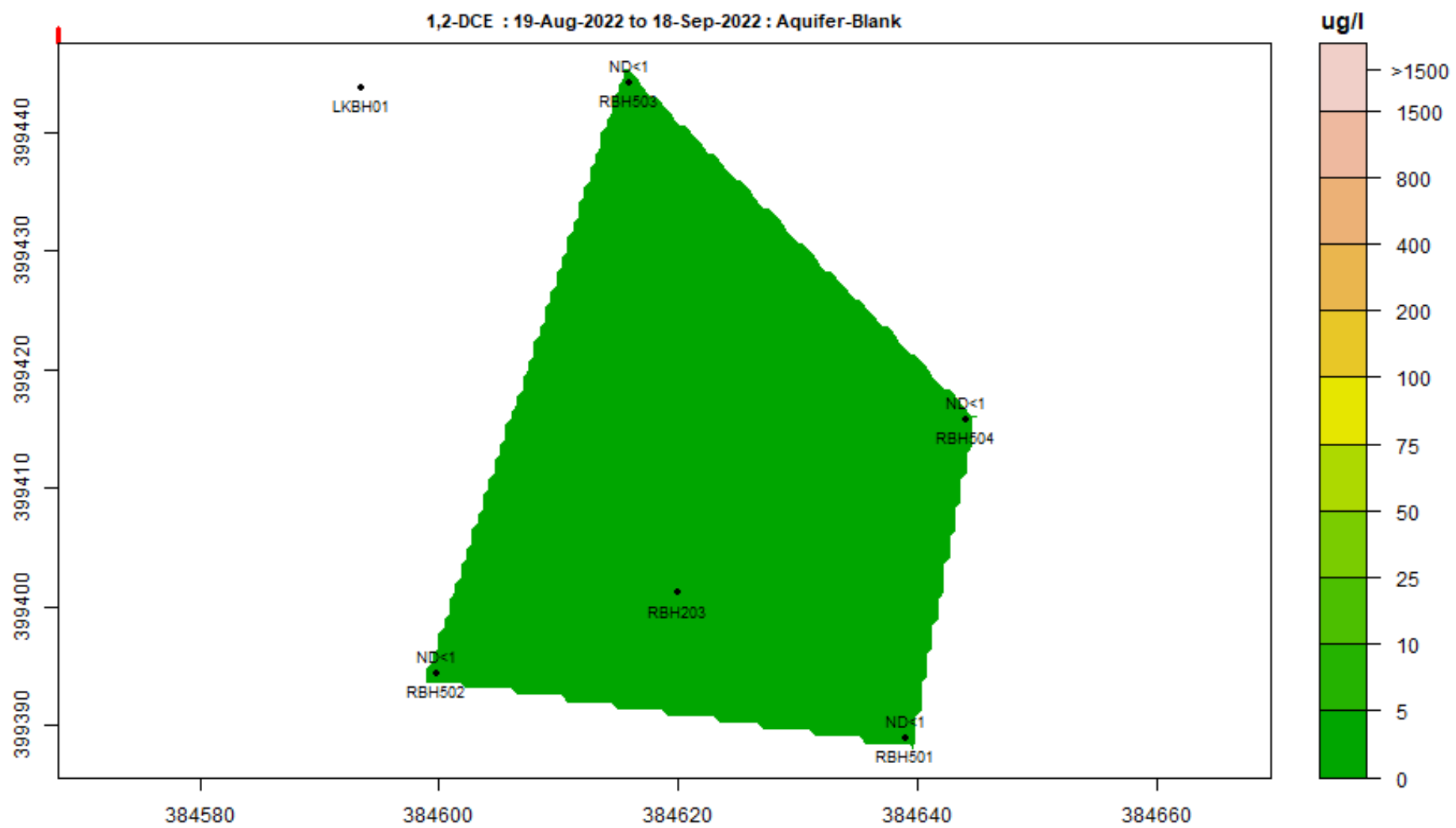
RBH504	CHLOROFORM	25/06/2024	11	ug/l
RBH504	CHLOROFORM	10/07/2024	10	ug/l
RBH504	CHLOROFORM	23/07/2024	11	ug/l
RBH504	CHLOROFORM	07/08/2024	9	ug/l
RBH504	CHLOROFORM	14/10/2024	11	ug/l
RBH504	TCE	18/11/2024	55	ug/l
RBH504	1,2-DCE	18/11/2024	160	ug/l
RBH504	VC	18/11/2024	ND<1	ug/l
RBH504	CTC	18/11/2024	21	ug/l
RBH504	CHLOROFORM	18/11/2024	9	ug/l
RXI001	TCE	16/01/2025	373	ug/l
RXI001	1,2-DCE	16/01/2025	24	ug/l
RXI001	VC	16/01/2025	ND<1	ug/l
RXI001	CTC	16/01/2025	423	ug/l
RXI001	CHLOROFORM	16/01/2025	246	ug/l
RXI002	TCE	21/01/2025	242	ug/l
RXI002	1,2-DCE	21/01/2025	52	ug/l
RXI002	VC	21/01/2025	ND<1	ug/l
RXI002	CTC	21/01/2025	39	ug/l
RXI002	CHLOROFORM	21/01/2025	21	ug/l
RXI003	TCE	21/01/2025	1020	ug/l
RXI003	1,2-DCE	21/01/2025	93	ug/l
RXI003	VC	21/01/2025	ND<1	ug/l
RXI003	CTC	21/01/2025	84	ug/l
RXI003	CHLOROFORM	21/01/2025	52	ug/l
RXI003	1,2-DCE	10/04/2025	29	ug/l
RXI003	CHLOROFORM	10/04/2025	8	ug/l
RXI003	CTC	10/04/2025	<1	ug/l
RXI003	TCE	10/04/2025	23	ug/l
RXI003	VC	10/04/2025	ND<1	ug/l
RXI004	TCE	21/01/2025	107	ug/l
RXI004	1,2-DCE	21/01/2025	39	ug/l
RXI004	VC	21/01/2025	1	ug/l
RXI004	CTC	21/01/2025	19	ug/l
RXI004	CHLOROFORM	21/01/2025	4	ug/l
RXI005	TCE	16/01/2025	113	ug/l
RXI005	1,2-DCE	16/01/2025	53	ug/l
RXI005	VC	16/01/2025	ND<1	ug/l
RXI005	CTC	16/01/2025	113	ug/l
RXI005	CHLOROFORM	16/01/2025	28	ug/l
RXI006	TCE	16/01/2025	897	ug/l
RXI006	1,2-DCE	16/01/2025	9	ug/l
RXI006	VC	16/01/2025	ND<1	ug/l
RXI006	CTC	16/01/2025	316	ug/l
RXI006	CHLOROFORM	16/01/2025	275	ug/l
RXI006	TCE	02/05/2025	540	ug/l
RXI006	1,2-DCE	02/05/2025	6	ug/l
RXI006	VC	02/05/2025	ND<1	ug/l

RXI006	CTC	02/05/2025	89	ug/l
RXI006	CHLOROFORM	02/05/2025	277	ug/l
RXI007	TCE	17/01/2025	486	ug/l
RXI007	1,2-DCE	17/01/2025	3	ug/l
RXI007	VC	17/01/2025	ND<1	ug/l
RXI007	CTC	17/01/2025	36	ug/l
RXI007	CHLOROFORM	17/01/2025	66	ug/l
RXI008	TCE	21/01/2025	663	ug/l
RXI008	1,2-DCE	21/01/2025	61	ug/l
RXI008	VC	21/01/2025	ND<1	ug/l
RXI008	CTC	21/01/2025	134	ug/l
RXI008	CHLOROFORM	21/01/2025	69	ug/l
RXI009	TCE	23/01/2025	158	ug/l
RXI009	1,2-DCE	23/01/2025	188	ug/l
RXI009	VC	23/01/2025	6	ug/l
RXI009	CTC	23/01/2025	11	ug/l
RXI009	CHLOROFORM	23/01/2025	7	ug/l
RXI010	TCE	16/01/2025	220	ug/l
RXI010	1,2-DCE	16/01/2025	1	ug/l
RXI010	VC	16/01/2025	ND<1	ug/l
RXI010	CTC	16/01/2025	165	ug/l
RXI010	CHLOROFORM	16/01/2025	47	ug/l
RXI011	TCE	16/01/2025	489	ug/l
RXI011	1,2-DCE	16/01/2025	5	ug/l
RXI011	VC	16/01/2025	ND<1	ug/l
RXI011	CTC	16/01/2025	245	ug/l
RXI011	CHLOROFORM	16/01/2025	83	ug/l
RXI012	TCE	21/01/2025	83	ug/l
RXI012	1,2-DCE	21/01/2025	26	ug/l
RXI012	VC	21/01/2025	ND<1	ug/l
RXI012	CTC	21/01/2025	31	ug/l
RXI012	CHLOROFORM	21/01/2025	47	ug/l
RXI013	TCE	21/01/2025	639	ug/l
RXI013	1,2-DCE	21/01/2025	76	ug/l
RXI013	VC	21/01/2025	ND<1	ug/l
RXI013	CTC	21/01/2025	118	ug/l
RXI013	CHLOROFORM	21/01/2025	60	ug/l
RXI014	TCE	16/01/2025	732	ug/l
RXI014	1,2-DCE	16/01/2025	2	ug/l
RXI014	VC	16/01/2025	ND<1	ug/l
RXI014	CTC	16/01/2025	277	ug/l
RXI014	CHLOROFORM	16/01/2025	116	ug/l
RXI015	TCE	17/01/2025	498	ug/l
RXI015	1,2-DCE	17/01/2025	5	ug/l
RXI015	VC	17/01/2025	ND<1	ug/l
RXI015	CTC	17/01/2025	328	ug/l
RXI015	CHLOROFORM	17/01/2025	238	ug/l
RXI016	TCE	23/01/2025	140	ug/l

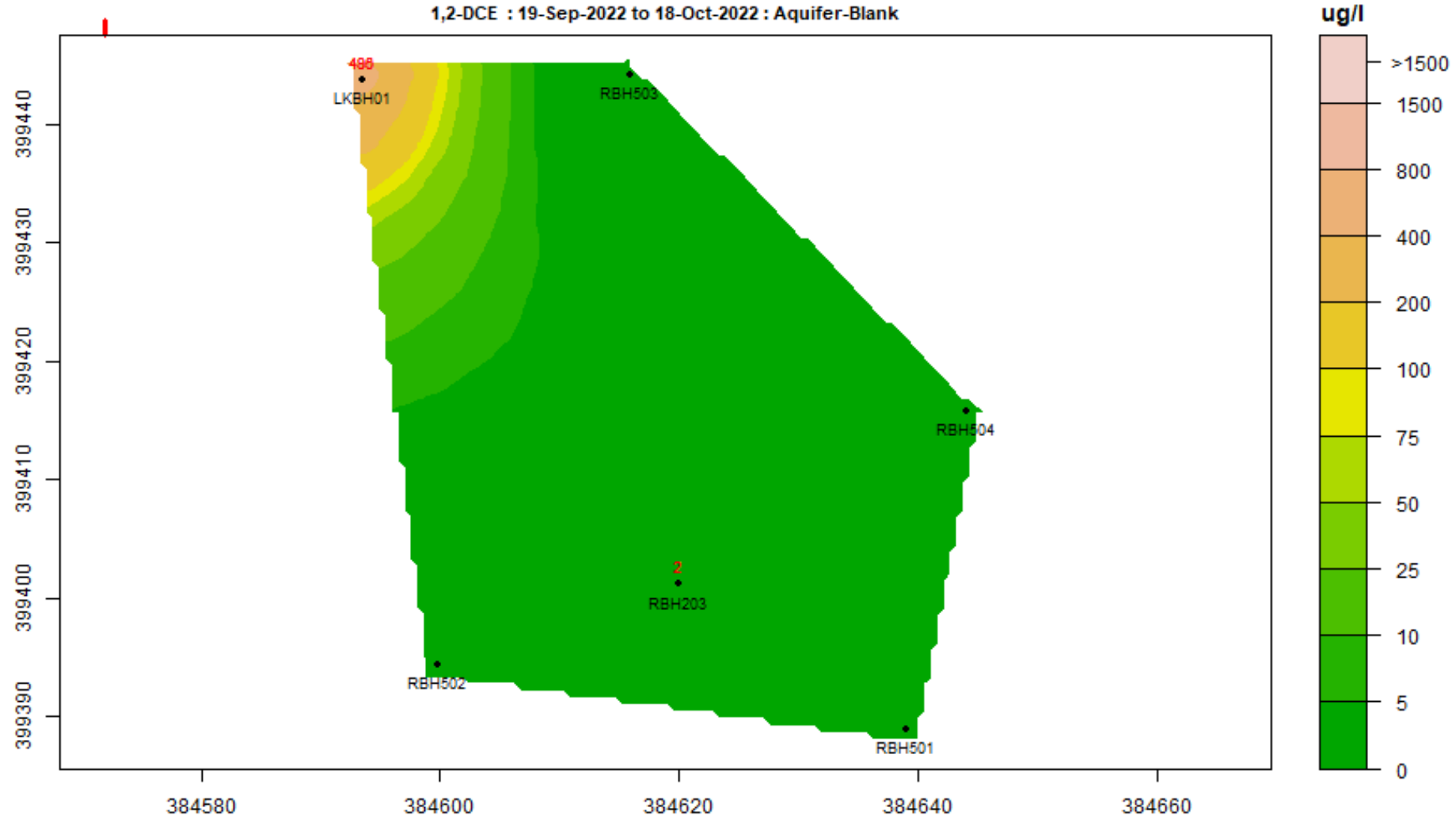
RXI016	1,2-DCE	23/01/2025	6	ug/l
RXI016	VC	23/01/2025	ND<1	ug/l
RXI016	CTC	23/01/2025	93	ug/l
RXI016	CHLOROFORM	23/01/2025	71	ug/l
RXI017	TCE	20/01/2025	327	ug/l
RXI017	1,2-DCE	20/01/2025	4	ug/l
RXI017	VC	20/01/2025	ND<1	ug/l
RXI017	CTC	20/01/2025	183	ug/l
RXI017	CHLOROFORM	20/01/2025	145	ug/l
RXI018	TCE	20/01/2025	19	ug/l
RXI018	1,2-DCE	20/01/2025	2	ug/l
RXI018	VC	20/01/2025	ND<1	ug/l
RXI018	CTC	20/01/2025	39	ug/l
RXI018	CHLOROFORM	20/01/2025	16	ug/l
RXI019	TCE	16/01/2025	3	ug/l
RXI019	1,2-DCE	16/01/2025	ND<1	ug/l
RXI019	VC	16/01/2025	ND<1	ug/l
RXI019	CTC	16/01/2025	120	ug/l
RXI019	CHLOROFORM	16/01/2025	13	ug/l
RXI019	TCE	02/05/2025	10	ug/l
RXI019	1,2-DCE	02/05/2025	ND<1	ug/l
RXI019	VC	02/05/2025	ND<1	ug/l
RXI019	CTC	02/05/2025	3	ug/l
RXI019	CHLOROFORM	02/05/2025	10	ug/l
RXI020	TCE	17/01/2025	527	ug/l
RXI020	1,2-DCE	17/01/2025	2	ug/l
RXI020	VC	17/01/2025	ND<1	ug/l
RXI020	CTC	17/01/2025	277	ug/l
RXI020	CHLOROFORM	17/01/2025	114	ug/l
RXI021	TCE	20/01/2025	263	ug/l
RXI021	1,2-DCE	20/01/2025	3	ug/l
RXI021	VC	20/01/2025	ND<1	ug/l
RXI021	CTC	20/01/2025	104	ug/l
RXI021	CHLOROFORM	20/01/2025	89	ug/l
RXI022	TCE	20/01/2025	5	ug/l
RXI022	1,2-DCE	20/01/2025	ND<1	ug/l
RXI022	VC	20/01/2025	ND<1	ug/l
RXI022	CTC	20/01/2025	28	ug/l
RXI022	CHLOROFORM	20/01/2025	10	ug/l
RXI022	TCE	02/05/2025	12	ug/l
RXI022	1,2-DCE	02/05/2025	ND<1	ug/l
RXI022	VC	02/05/2025	ND<1	ug/l
RXI022	CTC	02/05/2025	1	ug/l
RXI022	CHLOROFORM	02/05/2025	10	ug/l
RXI023	1,2-DCE	09/04/2025	72	ug/l
RXI023	CHLOROFORM	09/04/2025	ND<1	ug/l
RXI023	CTC	09/04/2025	ND<1	ug/l
RXI023	TCE	09/04/2025	8	ug/l

RXI023	VC	09/04/2025	42	ug/l
RXI024	1,2-DCE	09/04/2025	159	ug/l
RXI024	CHLOROFORM	09/04/2025	ND<1	ug/l
RXI024	CTC	09/04/2025	ND<1	ug/l
RXI024	TCE	09/04/2025	5	ug/l
RXI024	VC	09/04/2025	19	ug/l
RXI025	1,2-DCE	09/04/2025	366	ug/l
RXI025	CHLOROFORM	09/04/2025	12	ug/l
RXI025	CTC	09/04/2025	8	ug/l
RXI025	TCE	09/04/2025	21	ug/l
RXI025	VC	09/04/2025	ND<1	ug/l
RXI026	1,2-DCE	10/04/2025	676	ug/l
RXI026	CHLOROFORM	10/04/2025	13	ug/l
RXI026	CTC	10/04/2025	48	ug/l
RXI026	TCE	10/04/2025	28	ug/l
RXI026	VC	10/04/2025	ND<1	ug/l

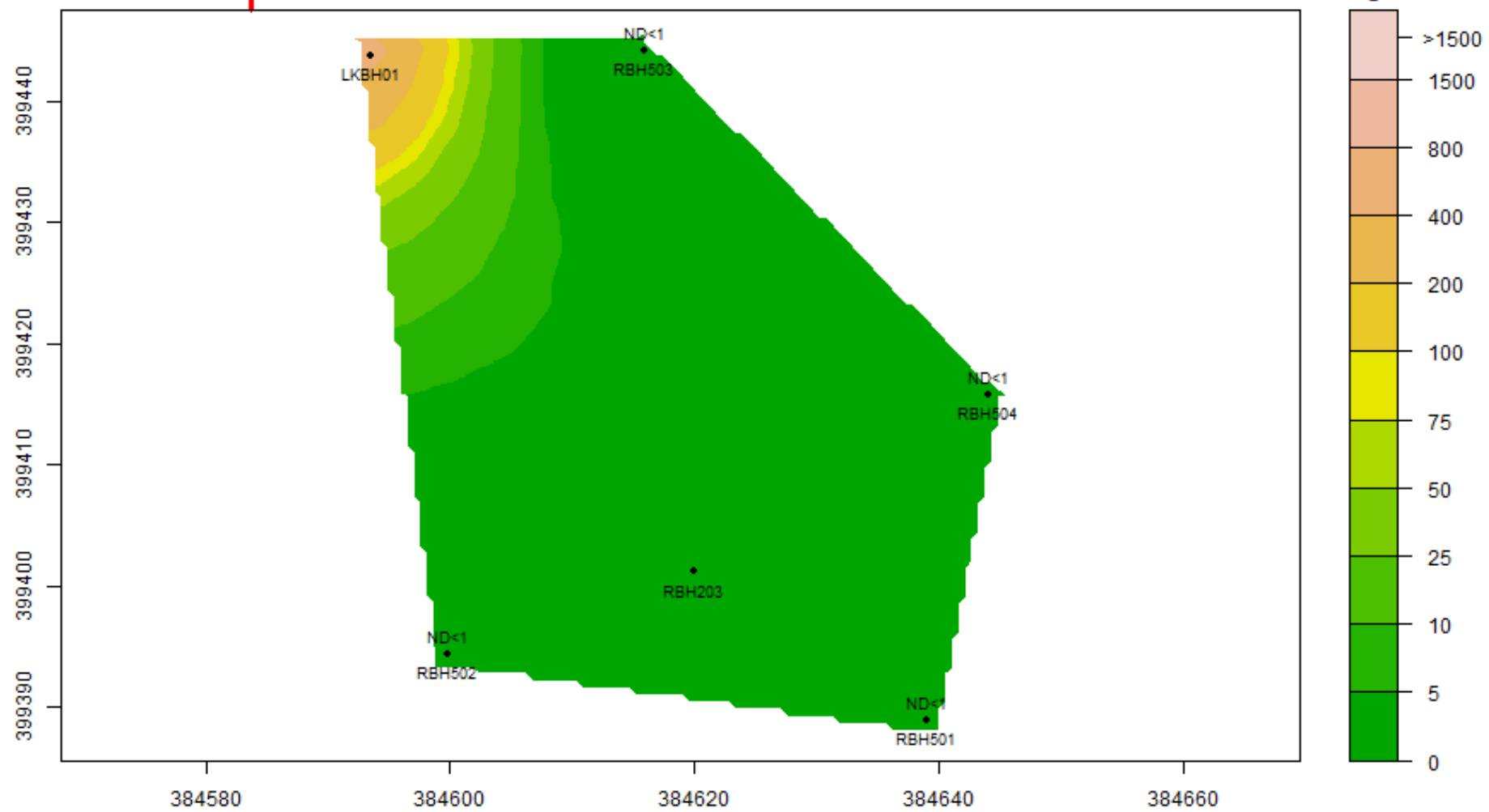
APPENDIX G

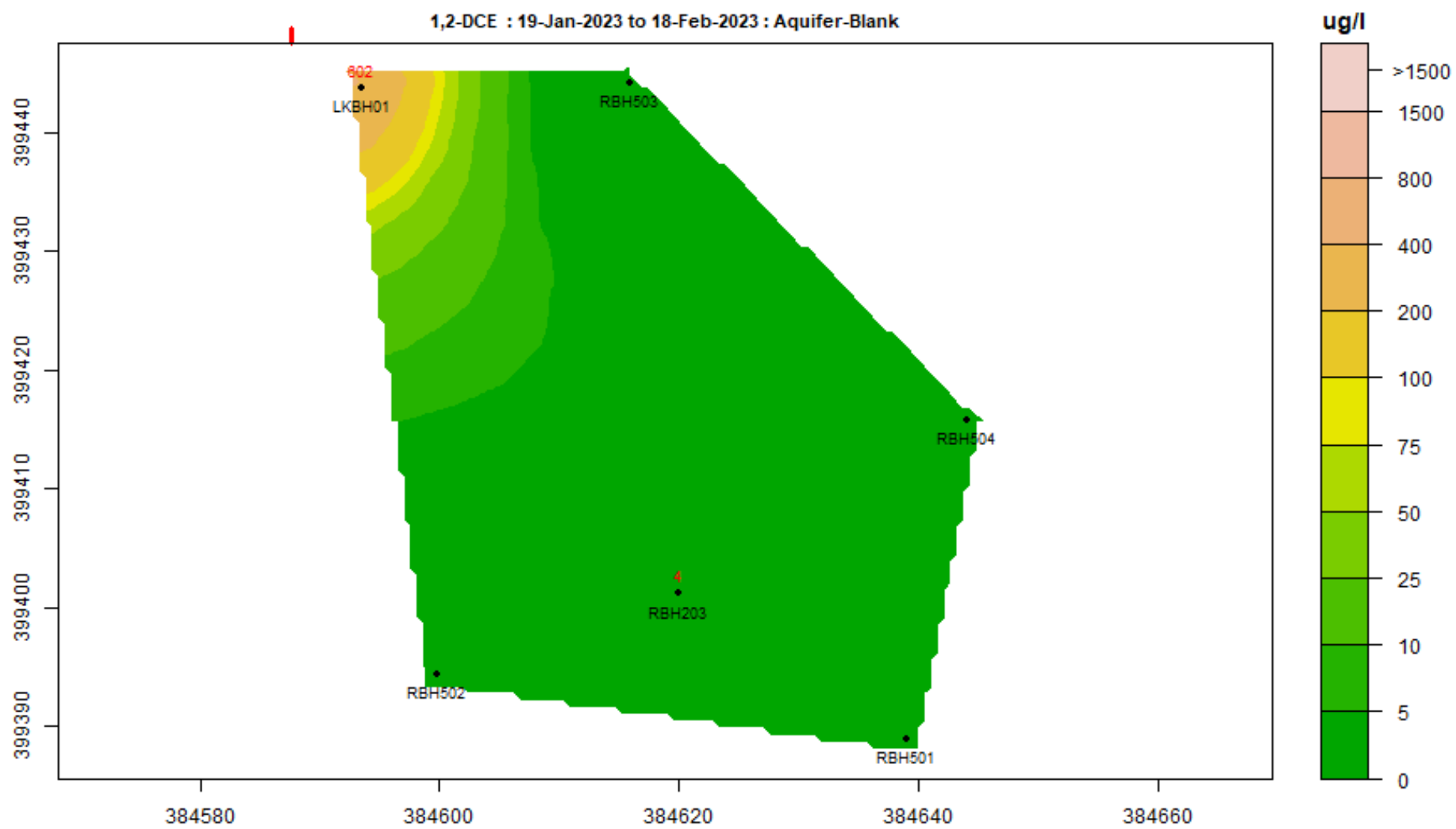


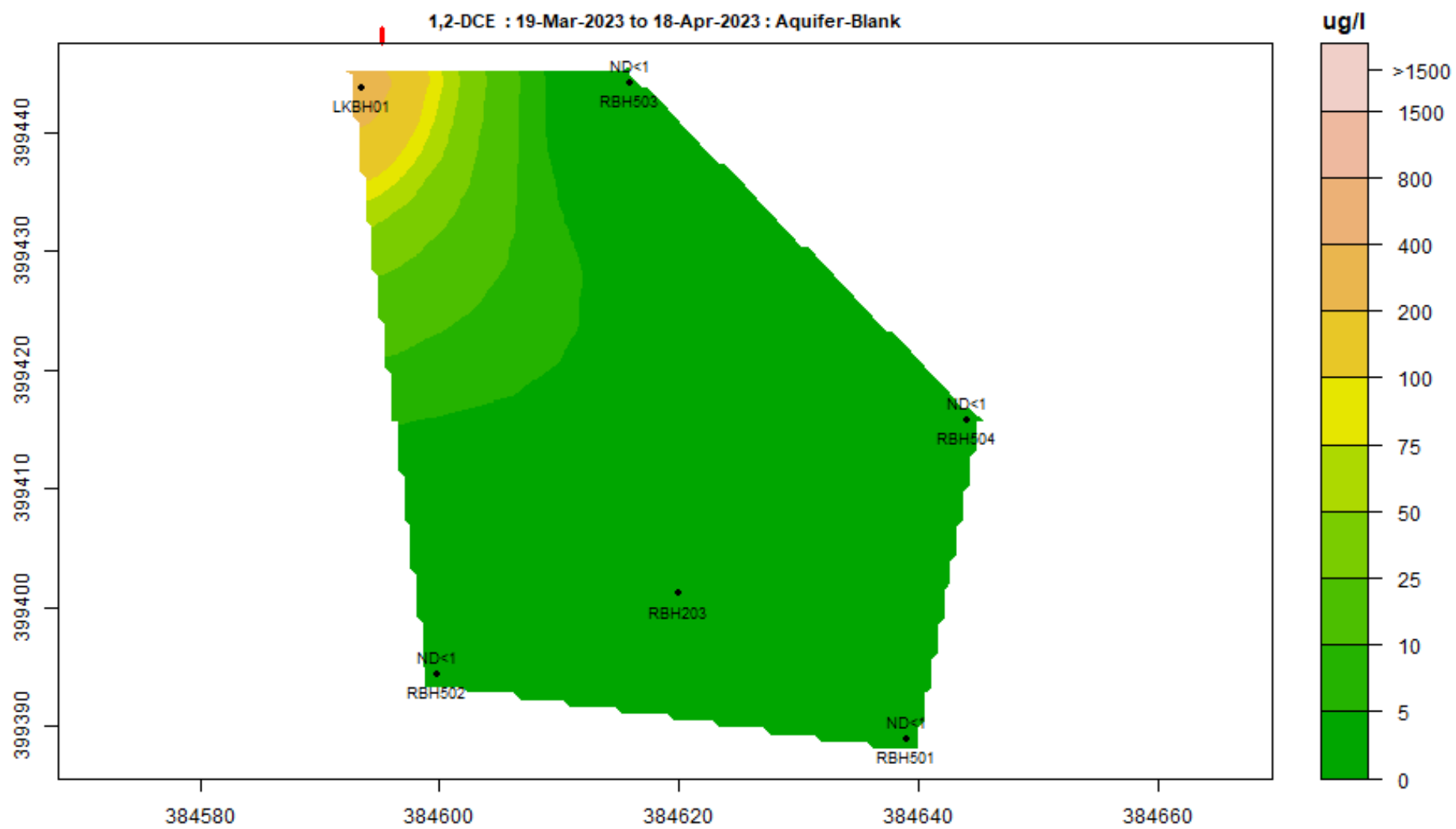
1,2-DCE : 19-Sep-2022 to 18-Oct-2022 : Aquifer-Blank

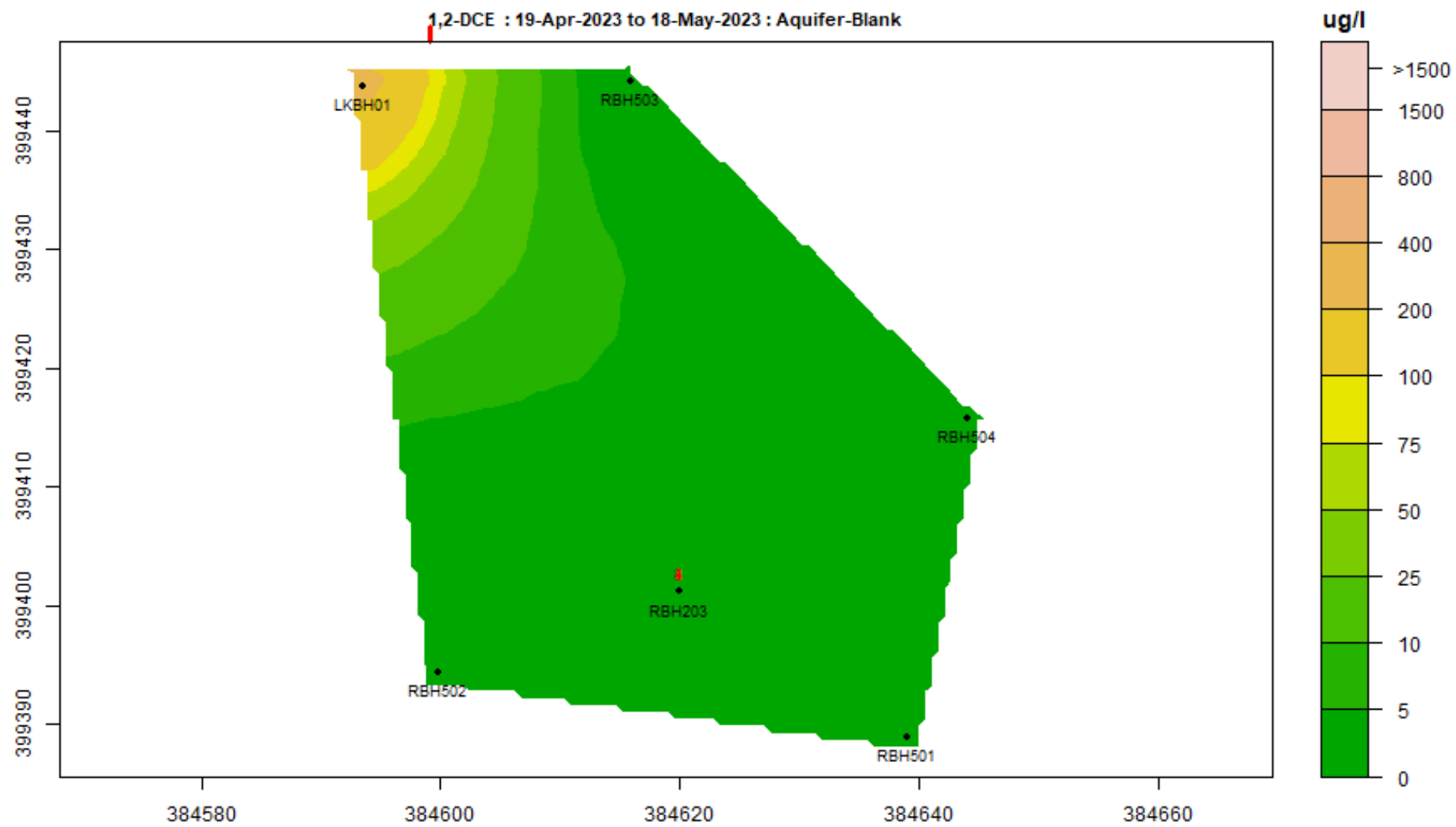


1,2-DCE : 19-Dec-2022 to 18-Jan-2023 : Aquifer-Blank

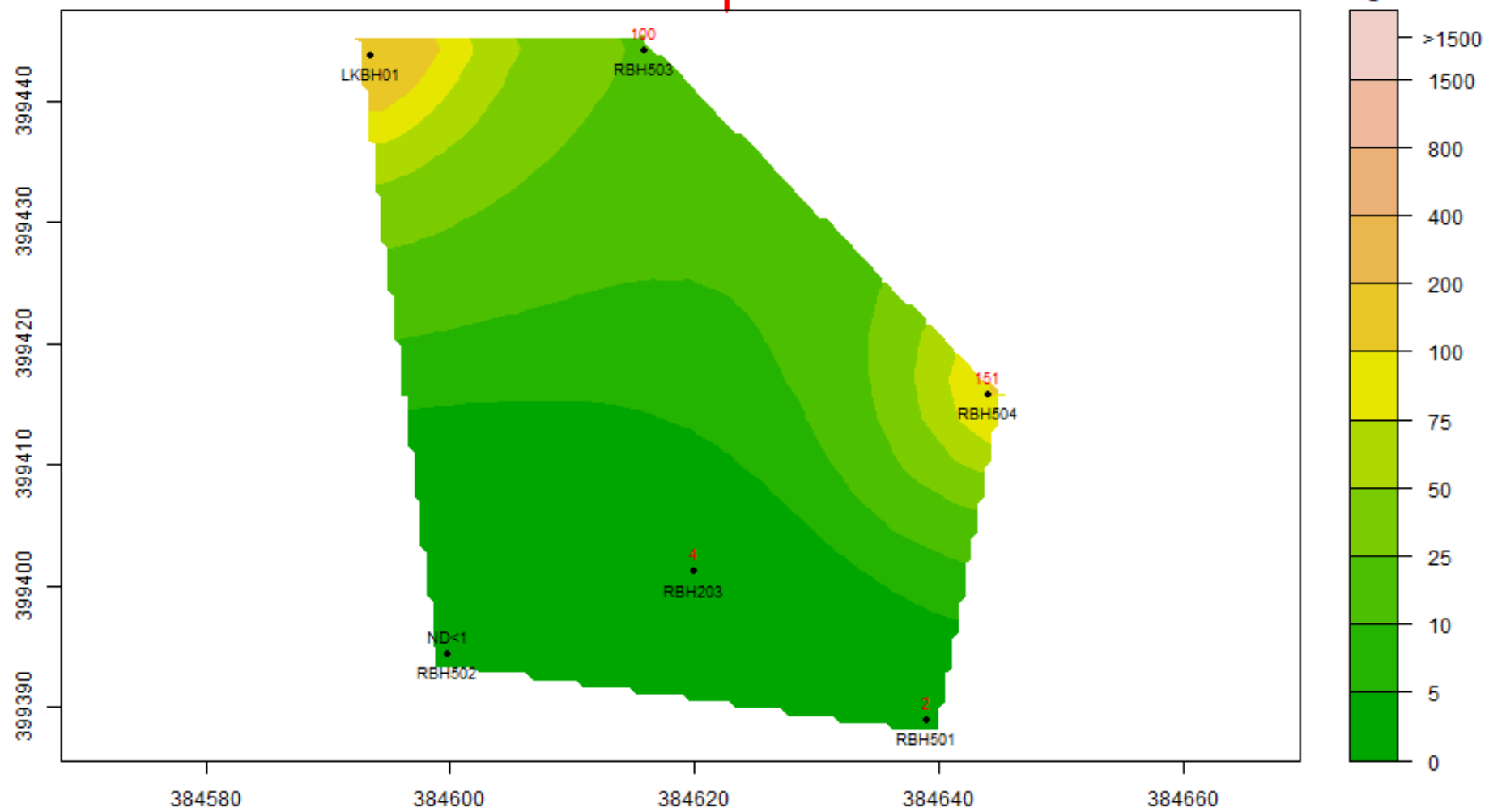




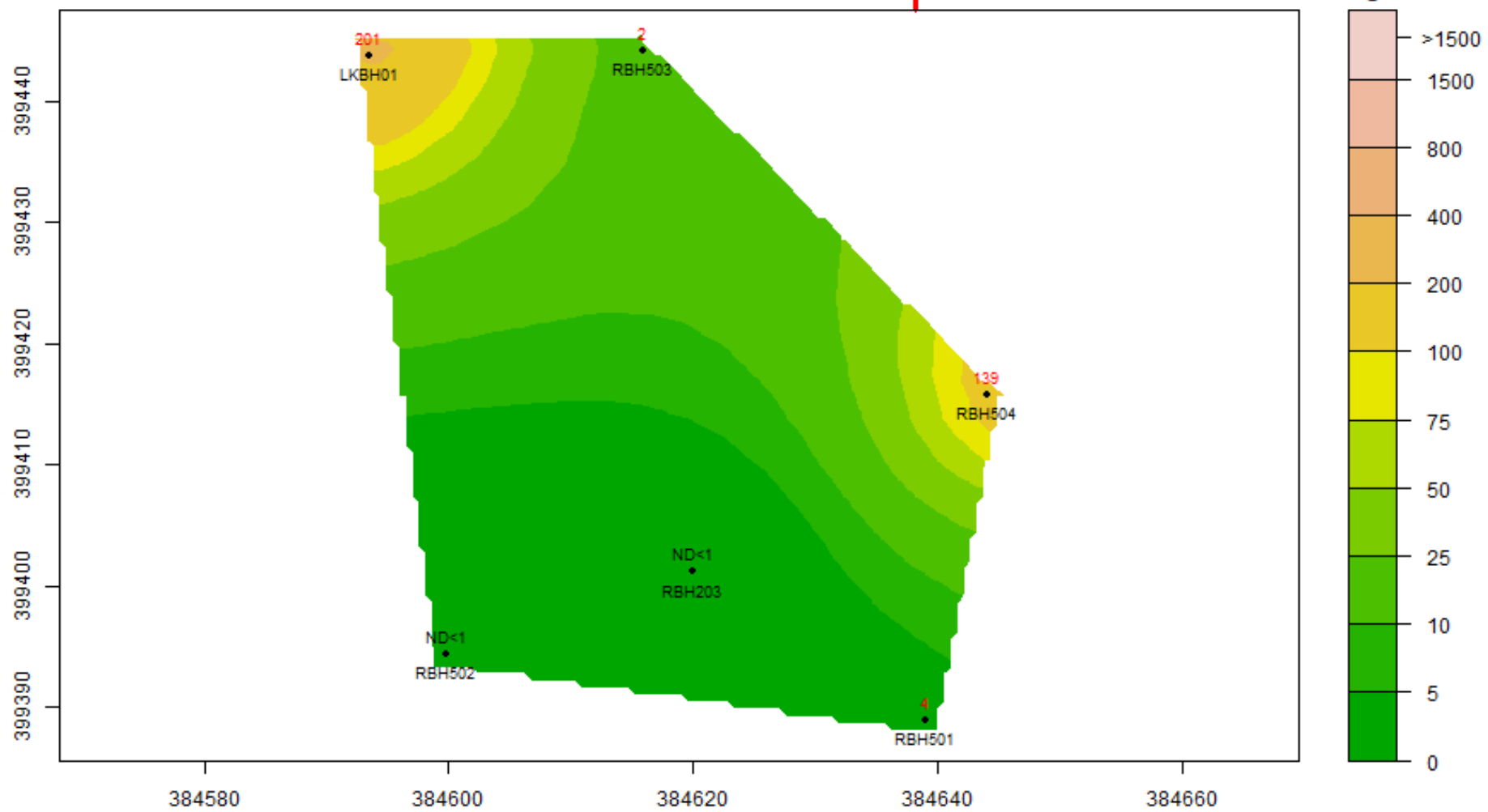




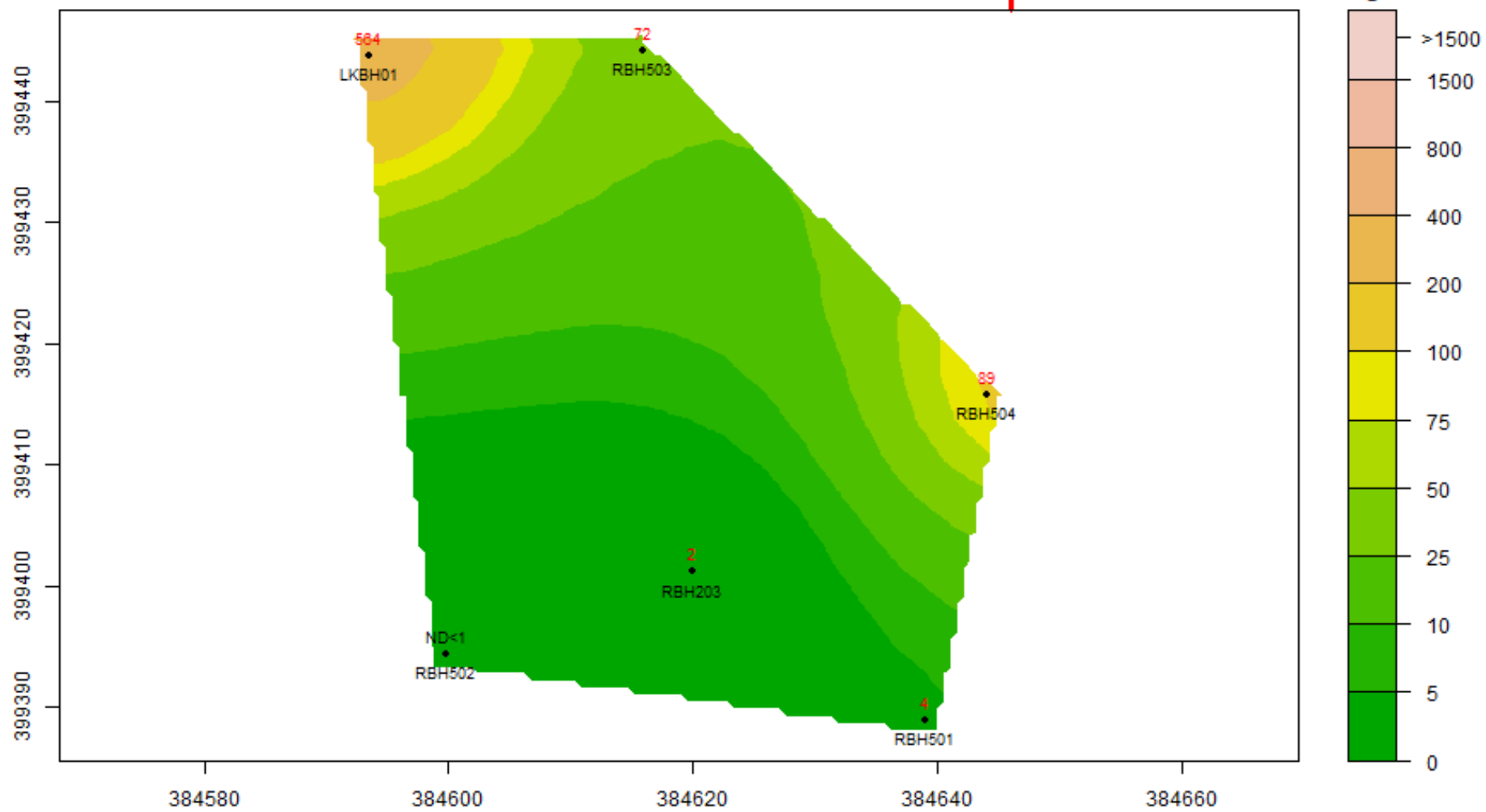
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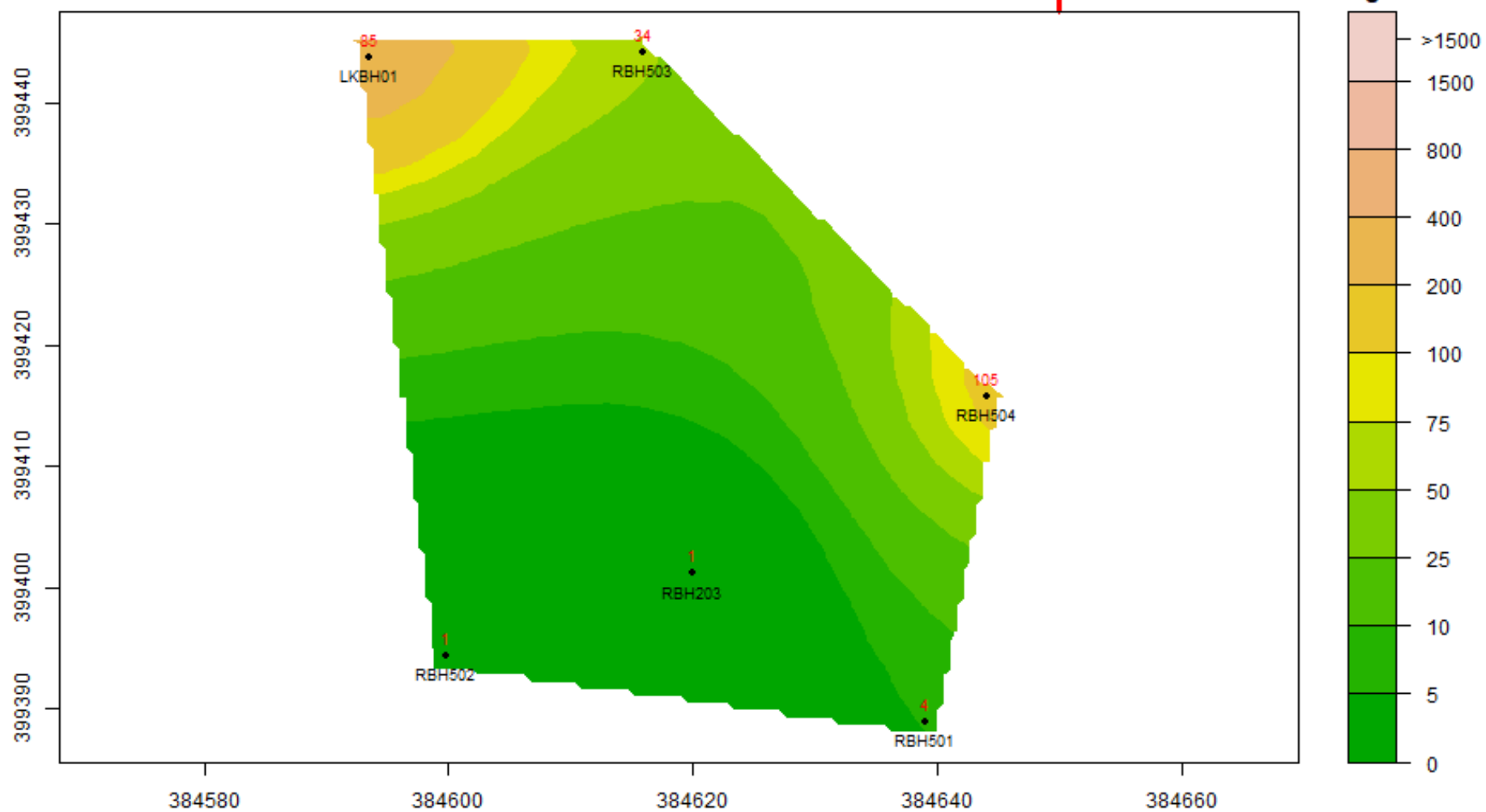
1,2-DCE : 19-Feb-2024 to 18-Mar-2024 : Aquifer-Blank



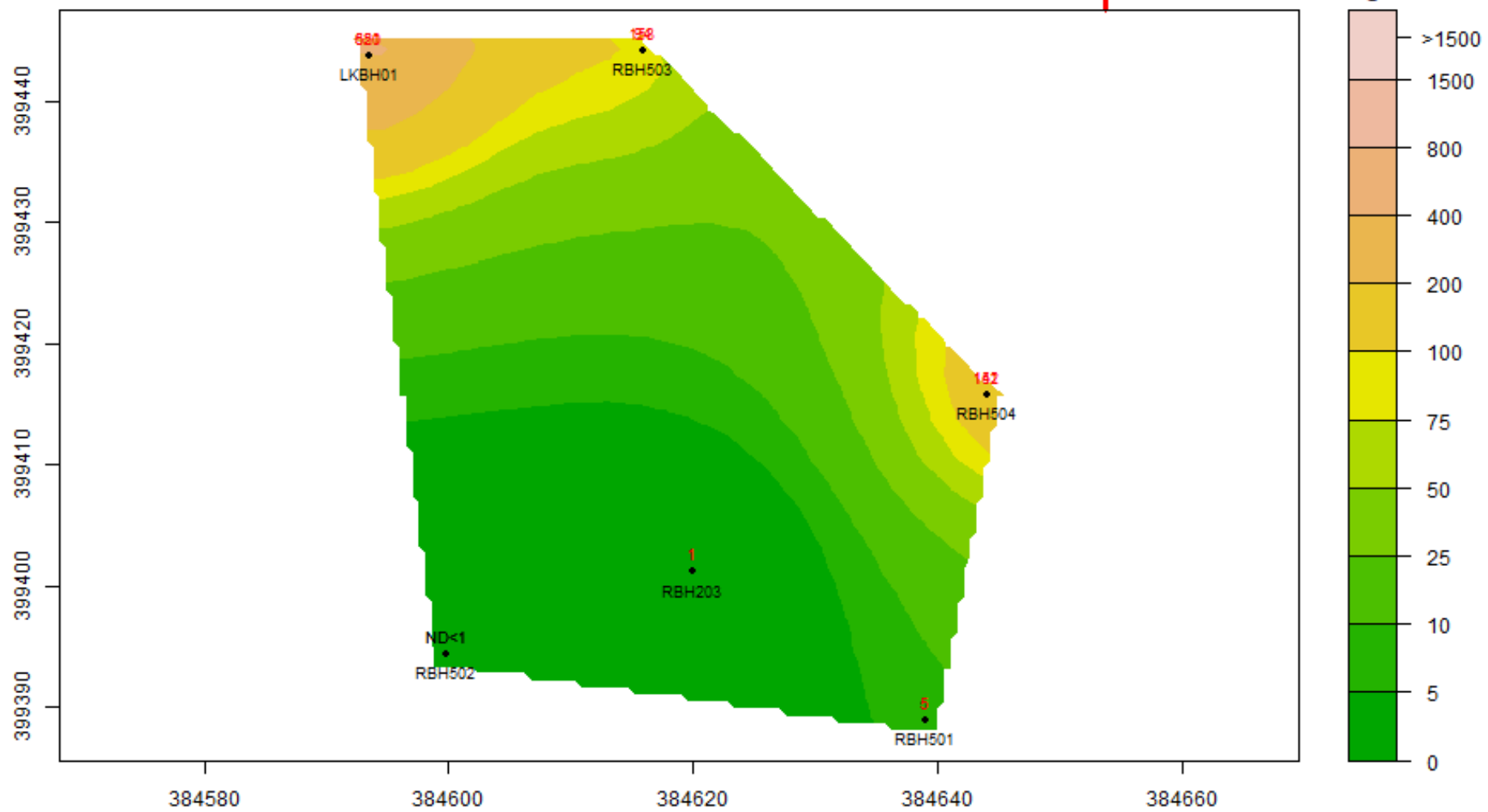
1,2-DCE : 19-Apr-2024 to 18-May-2024 : Aquifer-Blank



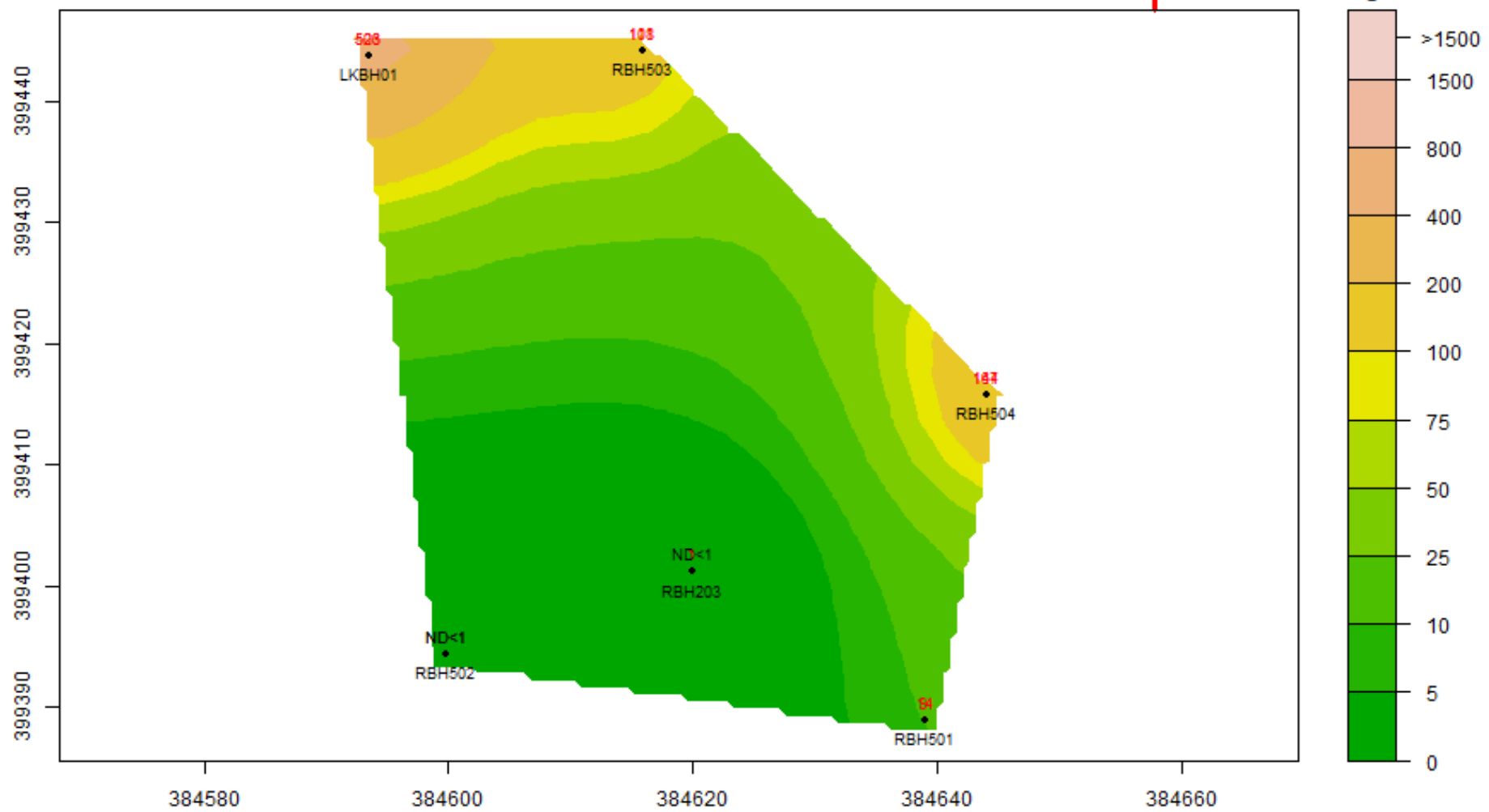
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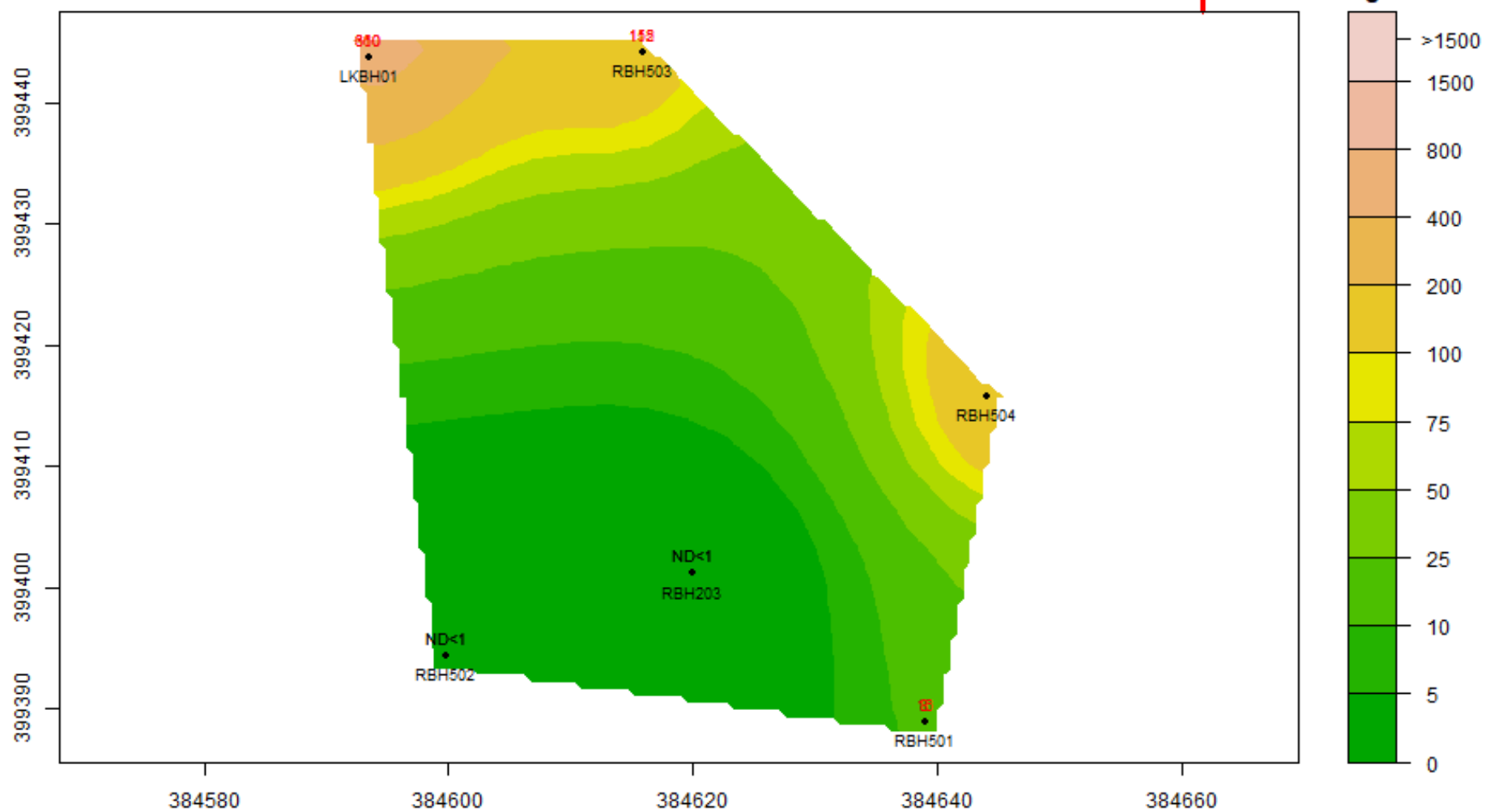
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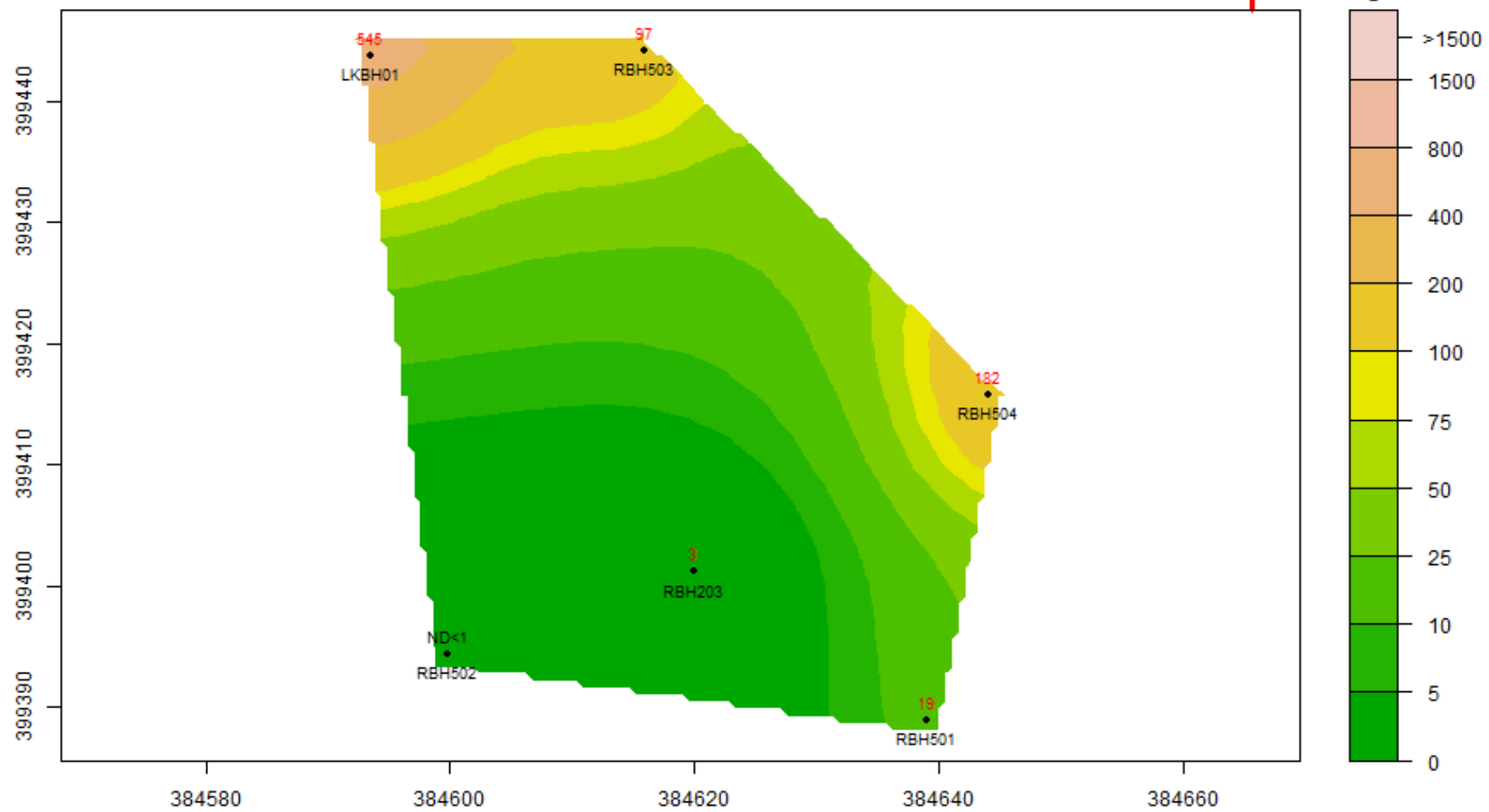
1,2-DCE : 19-Jul-2024 to 18-Aug-2024 : Aquifer-Blank



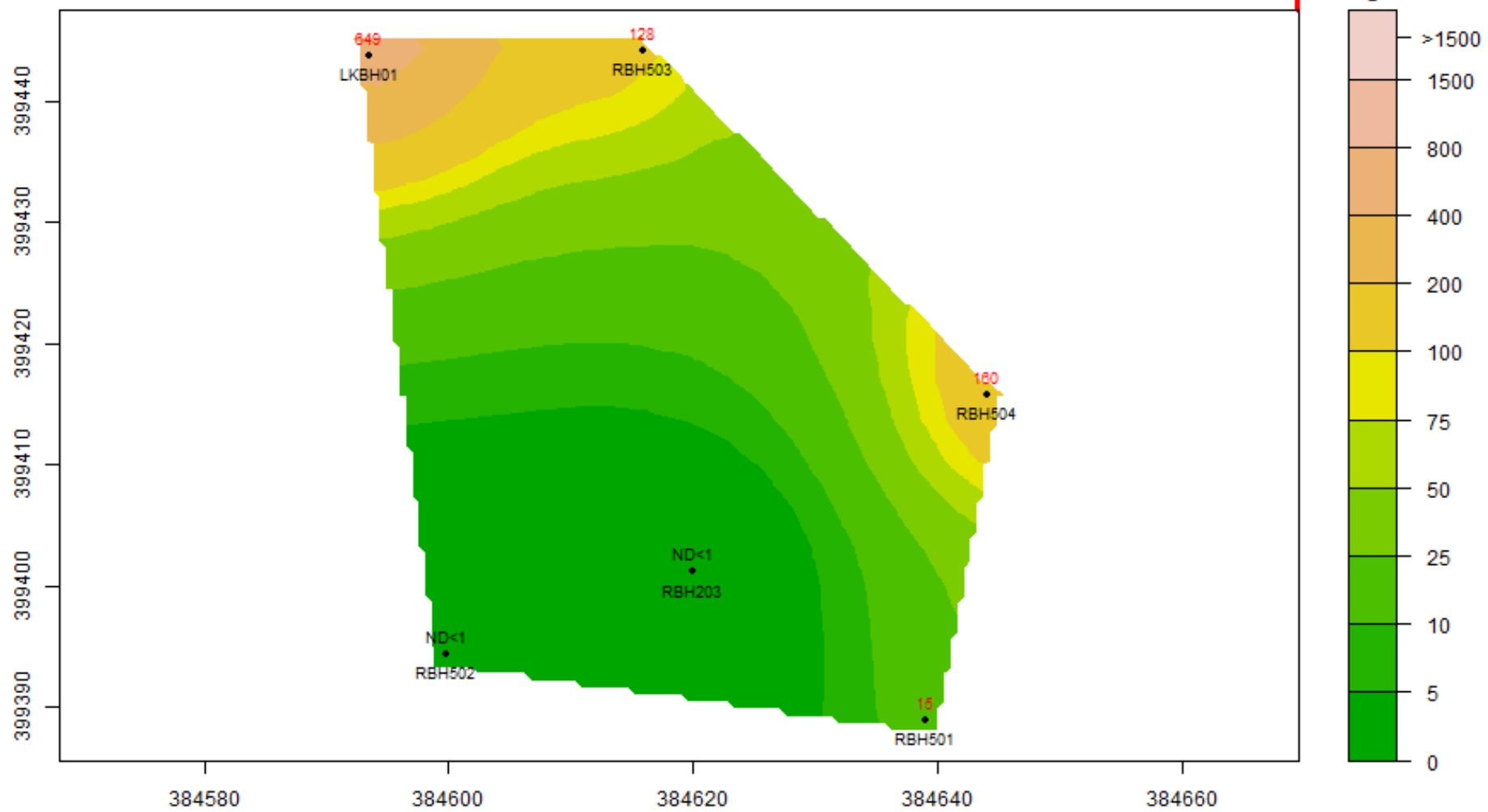
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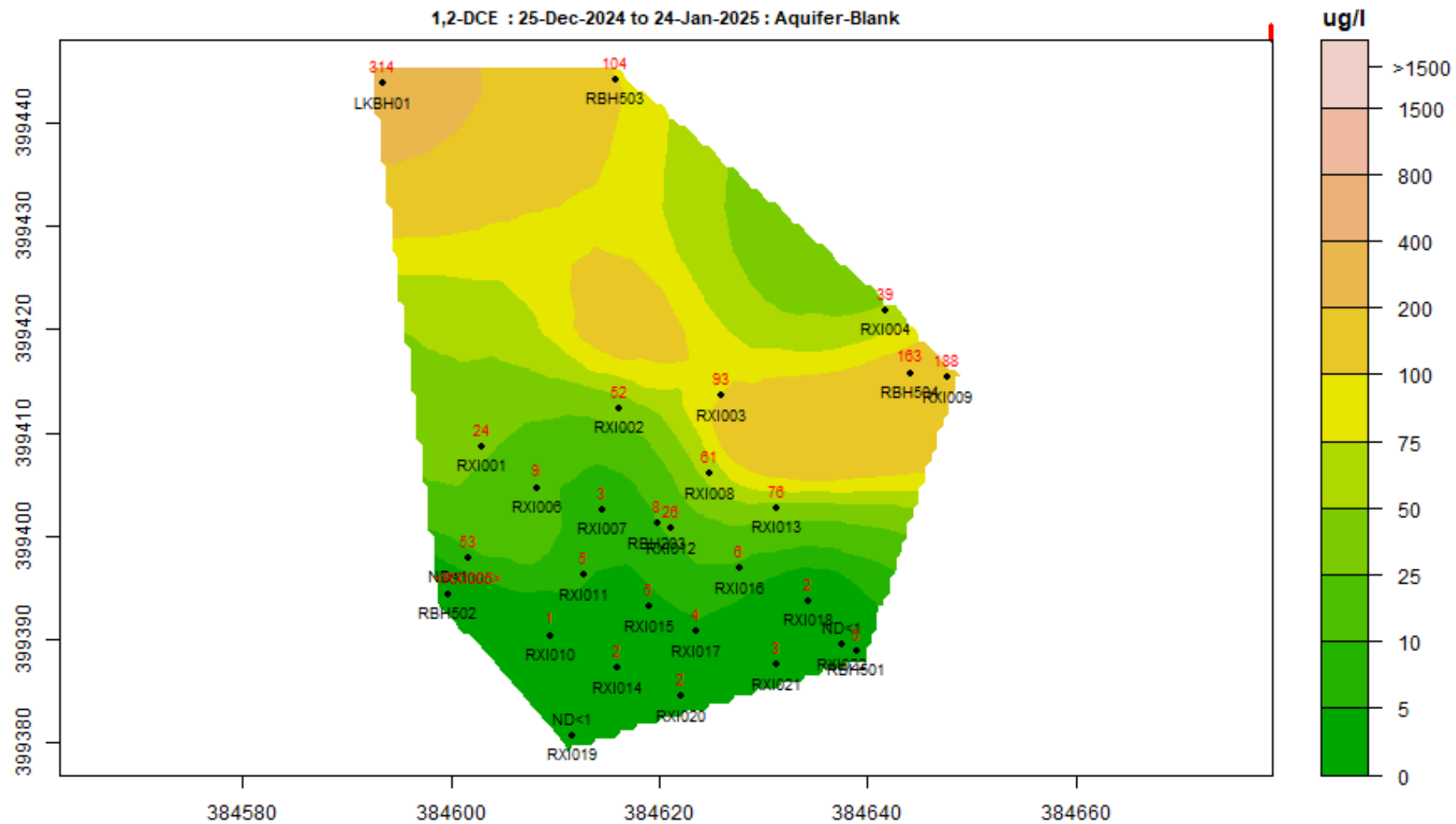
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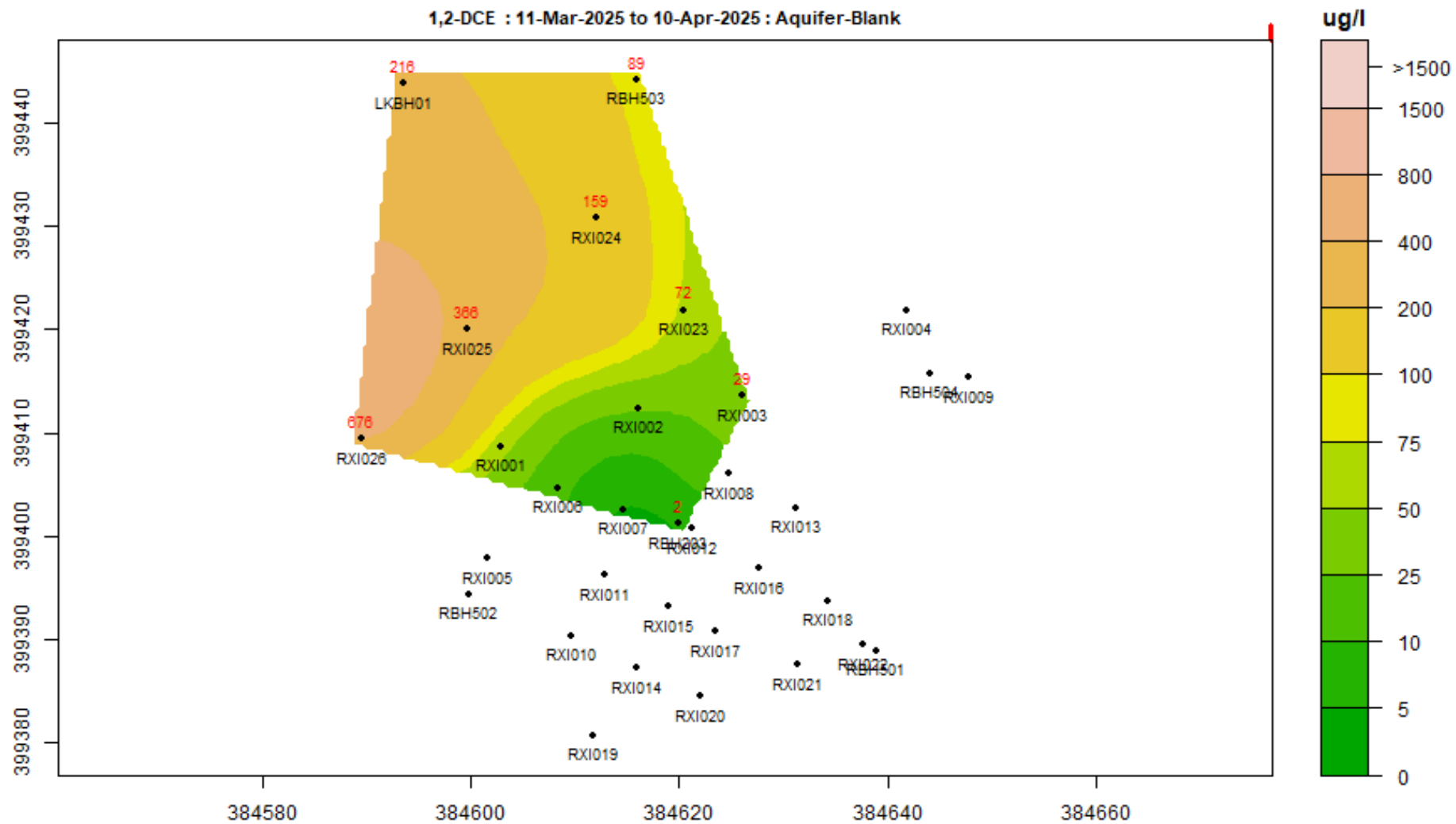
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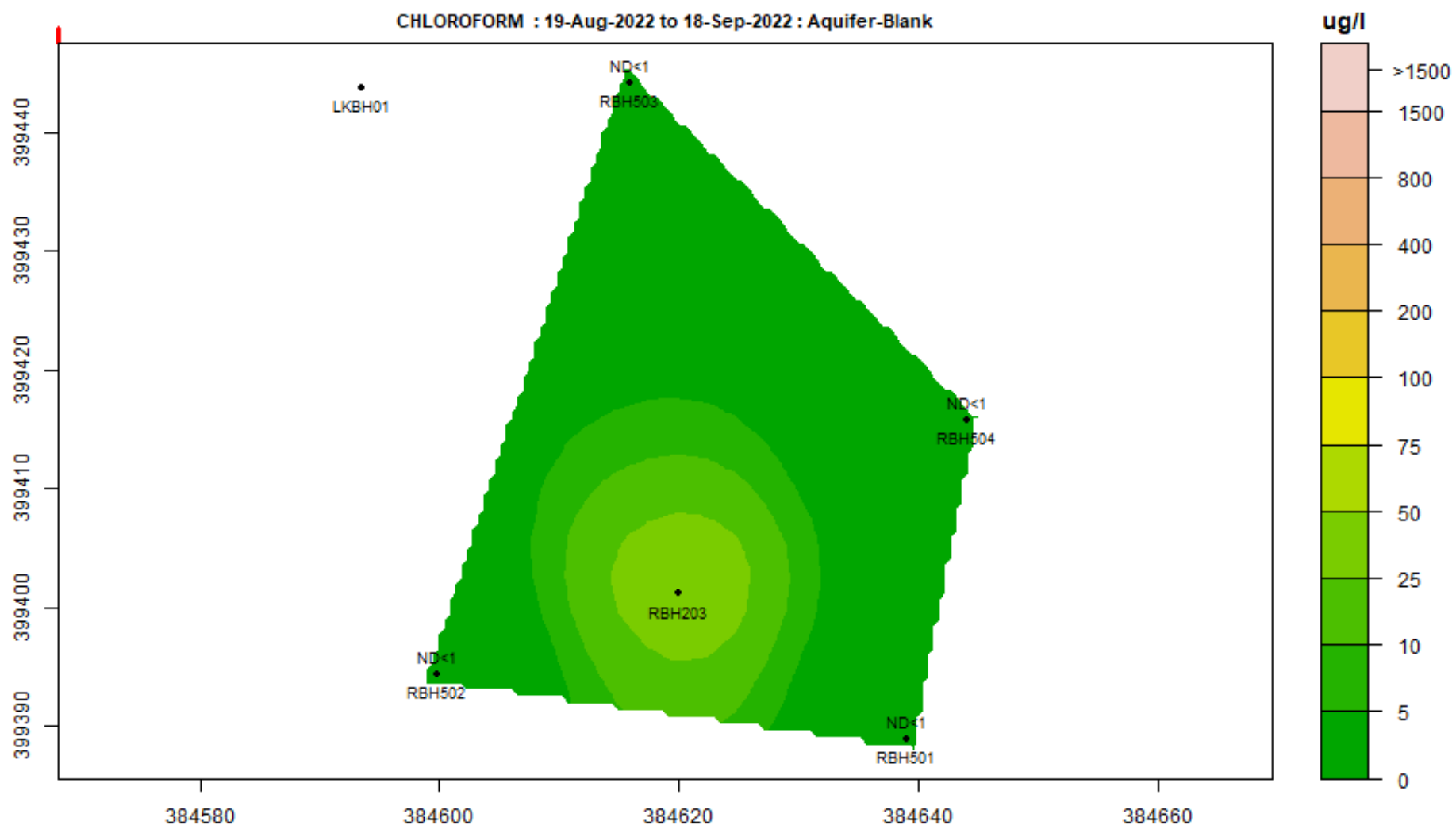


1,2-DCE : 25-Dec-2024 to 24-Jan-2025 : Aquifer-Blank

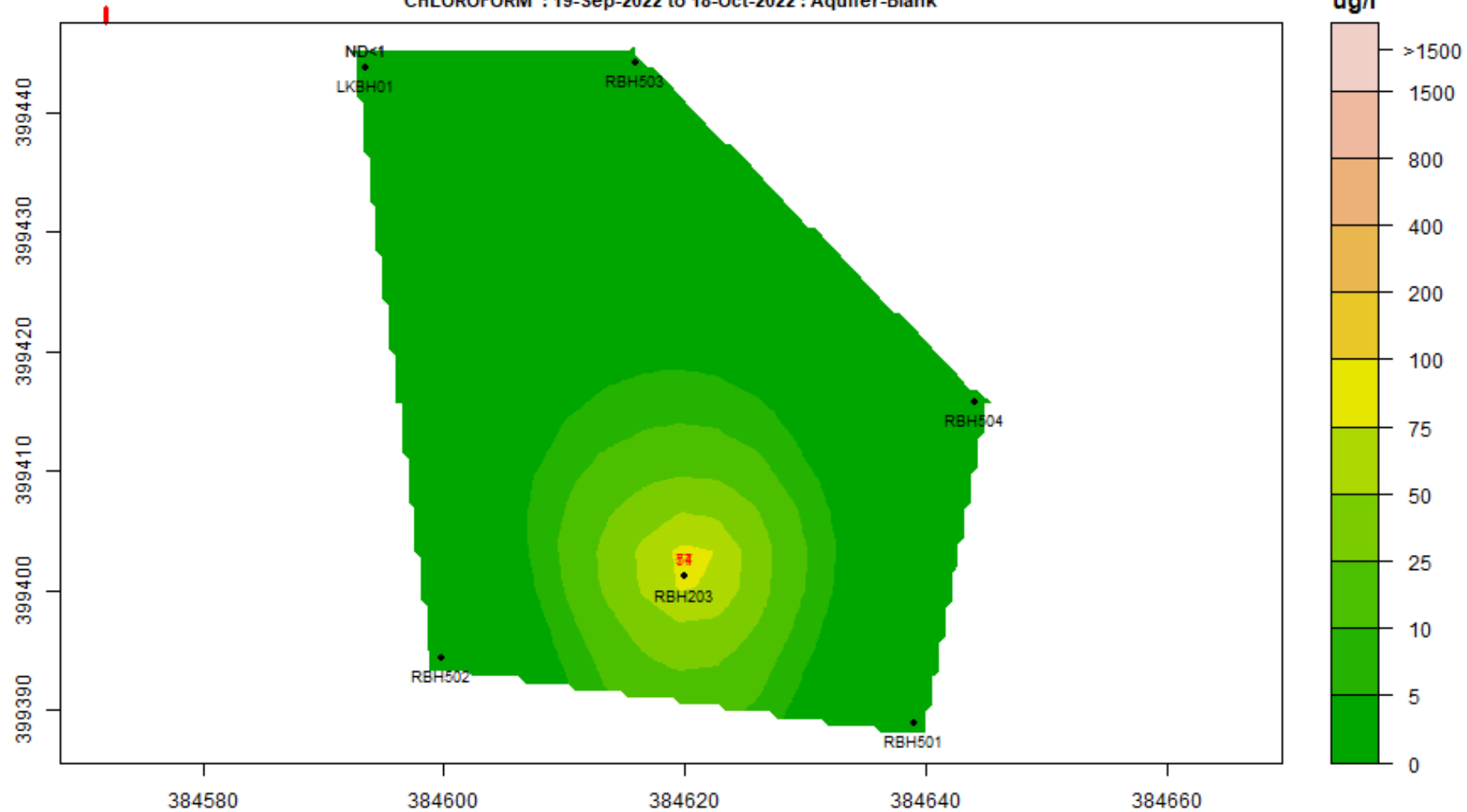


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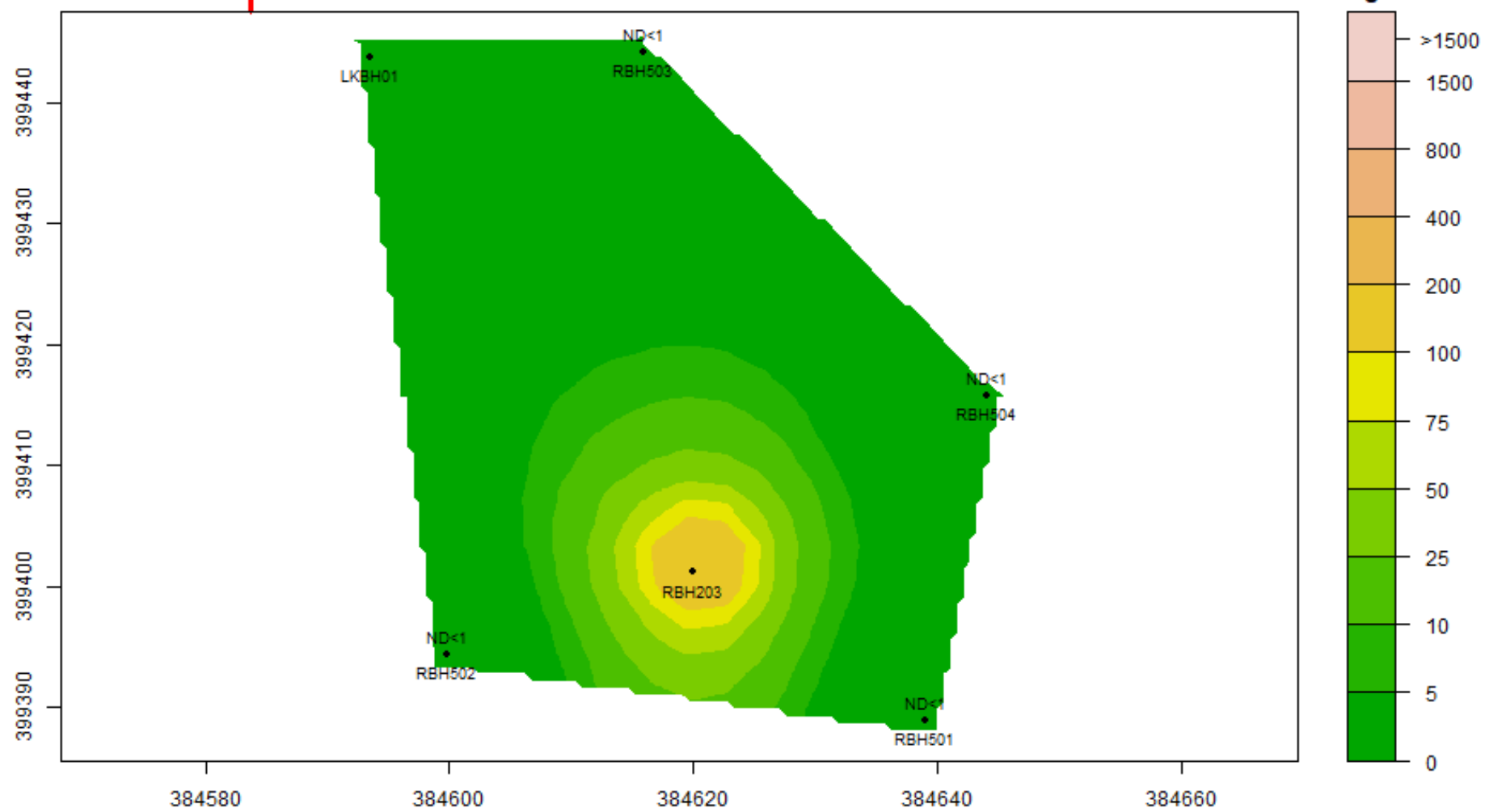


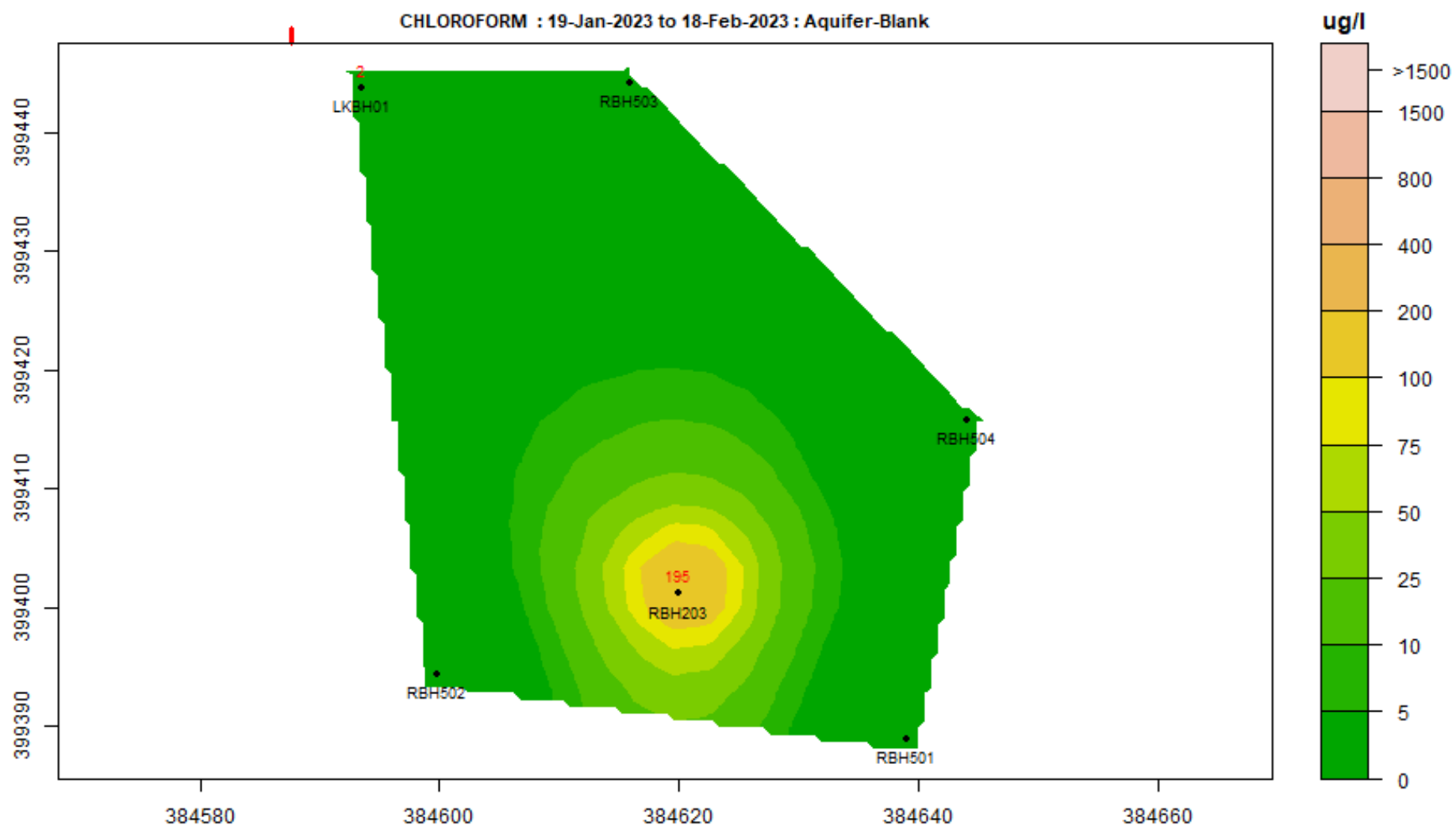


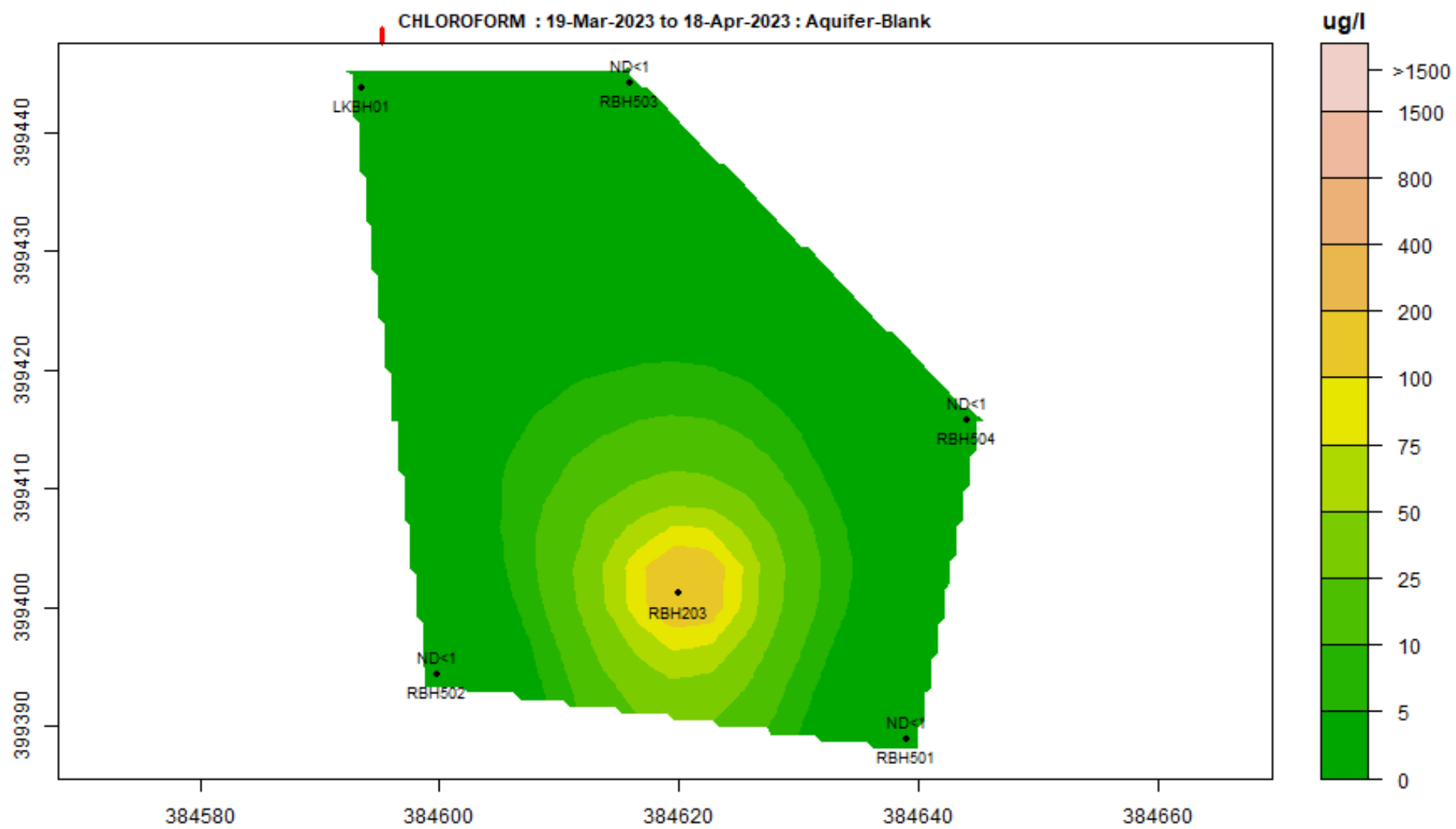
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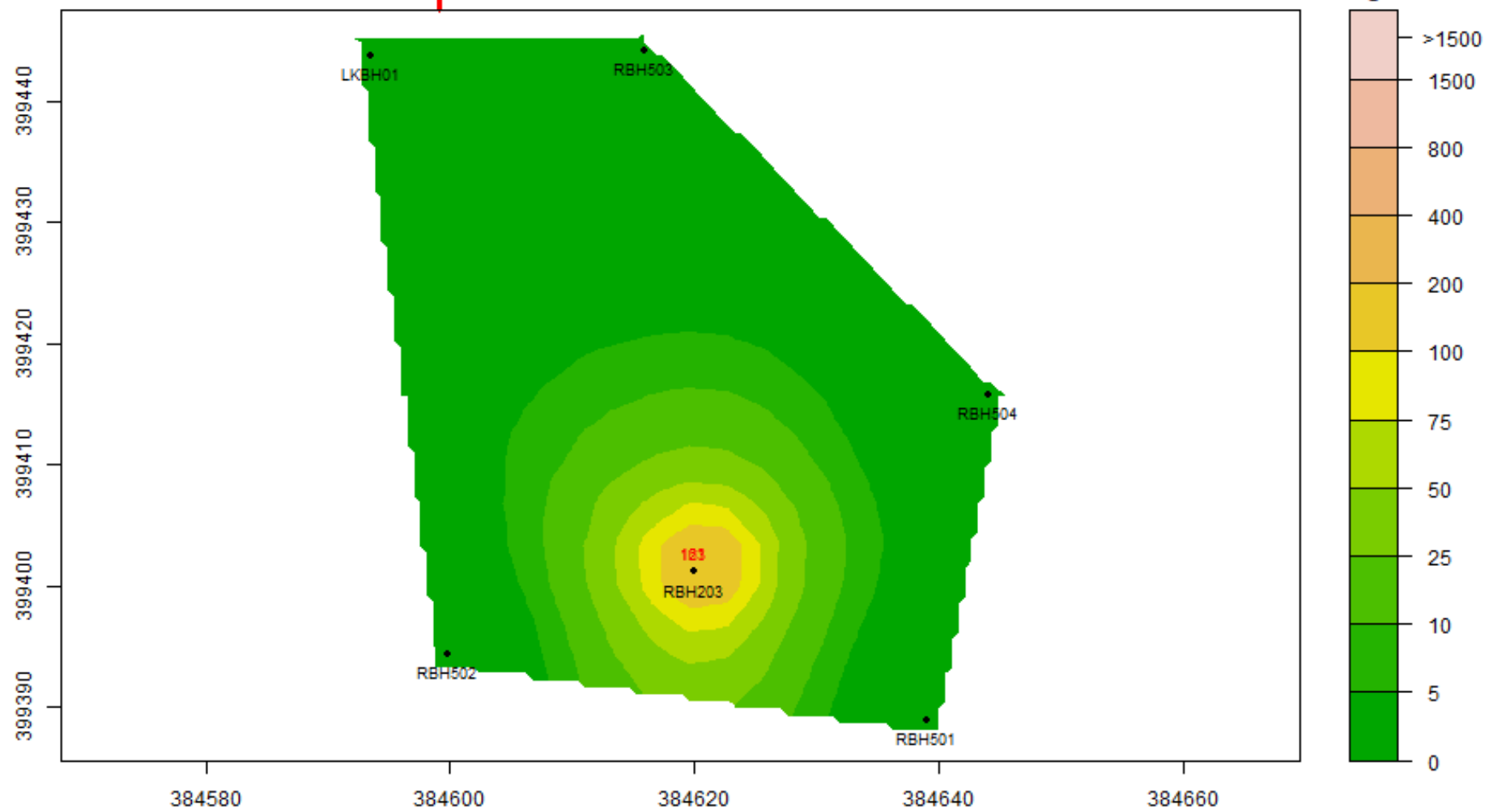
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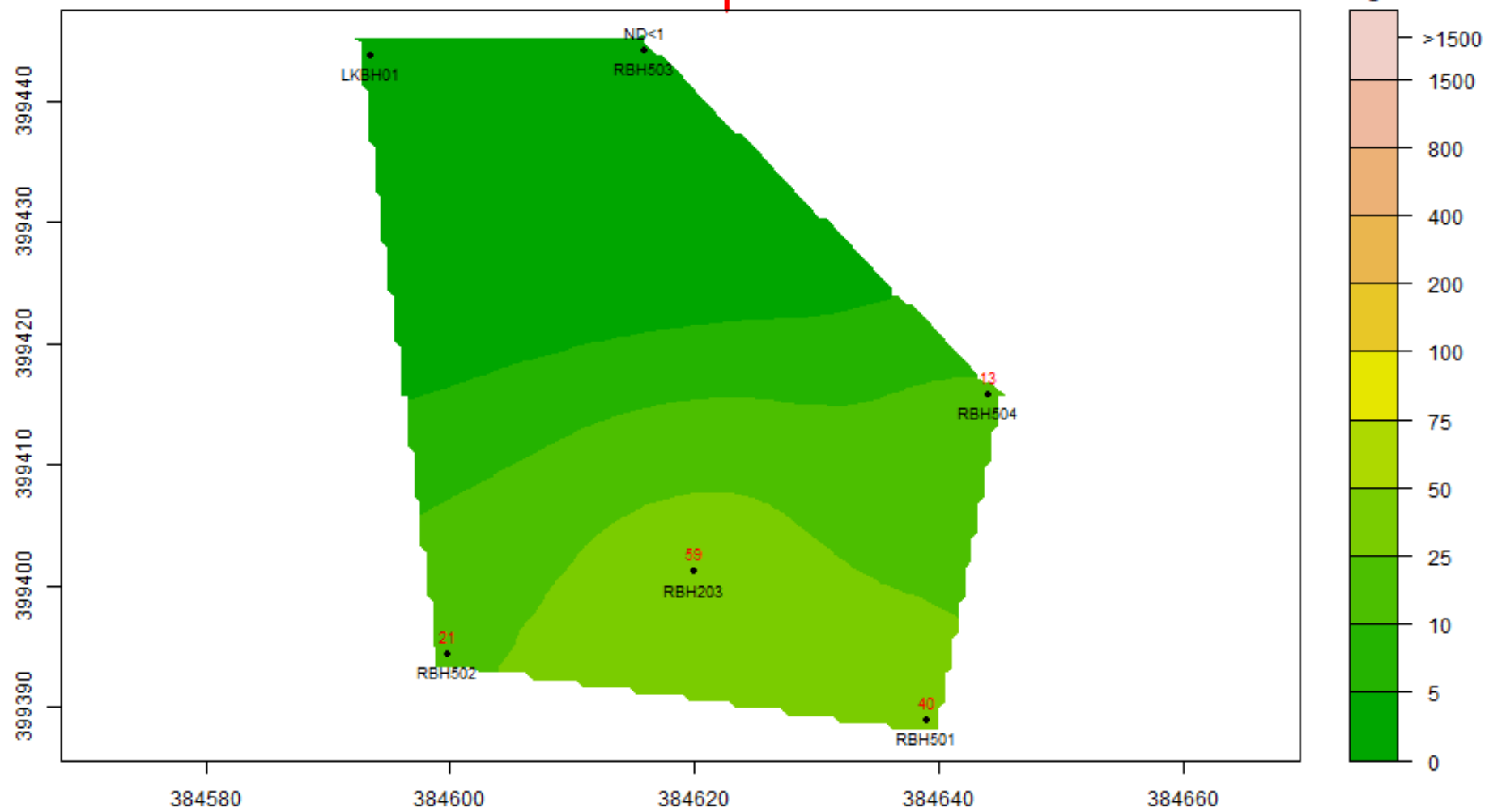




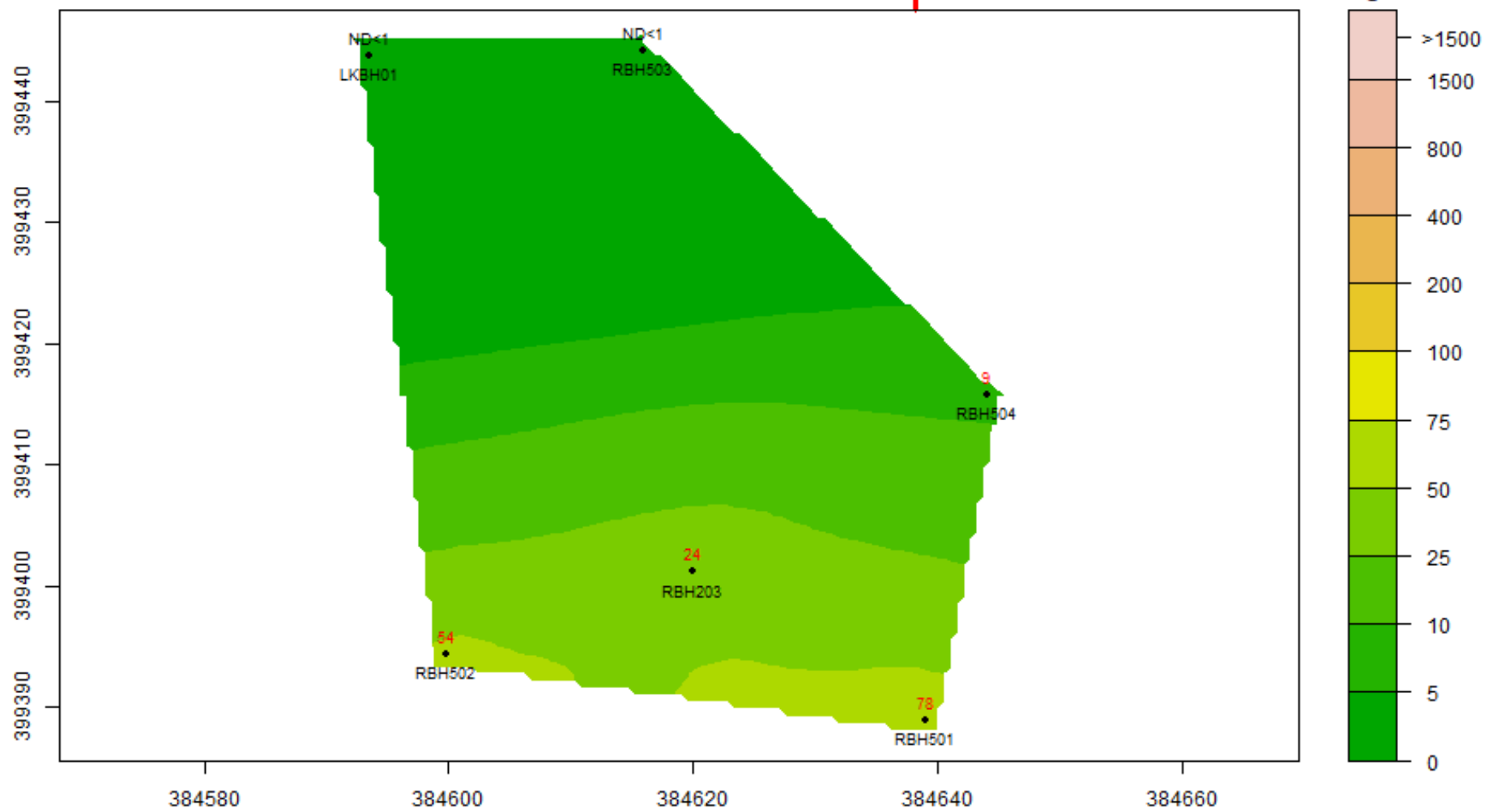
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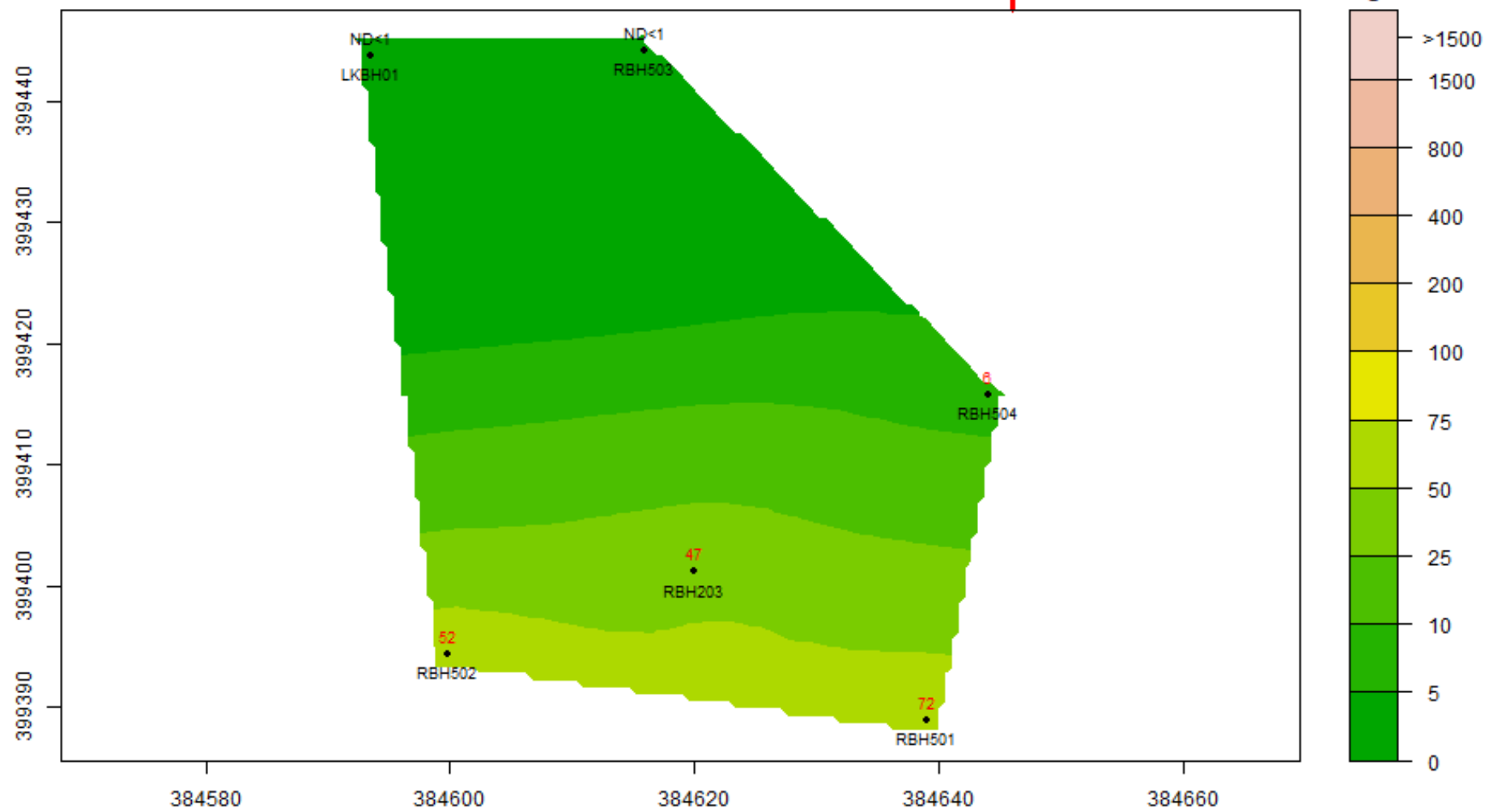
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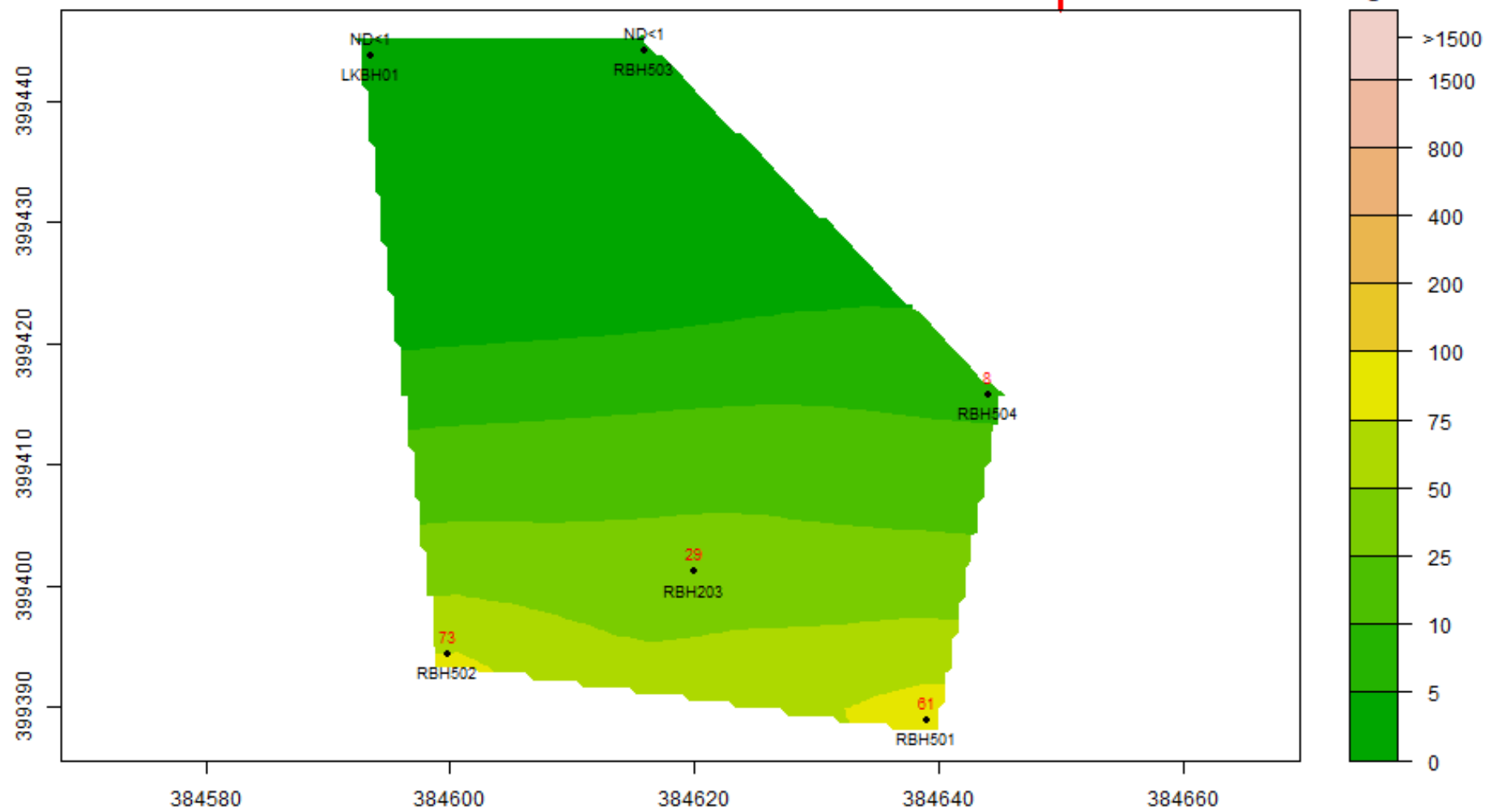
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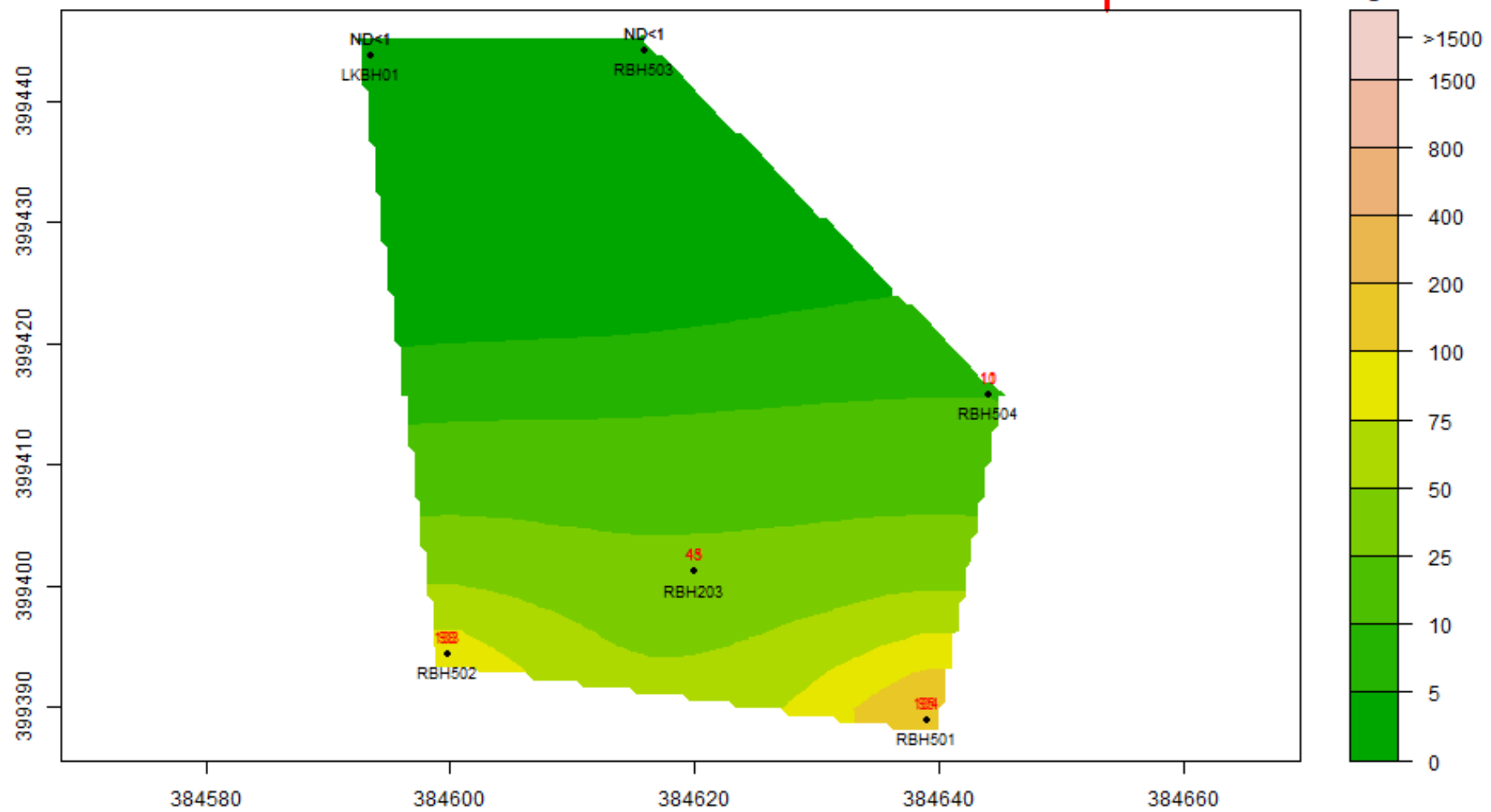
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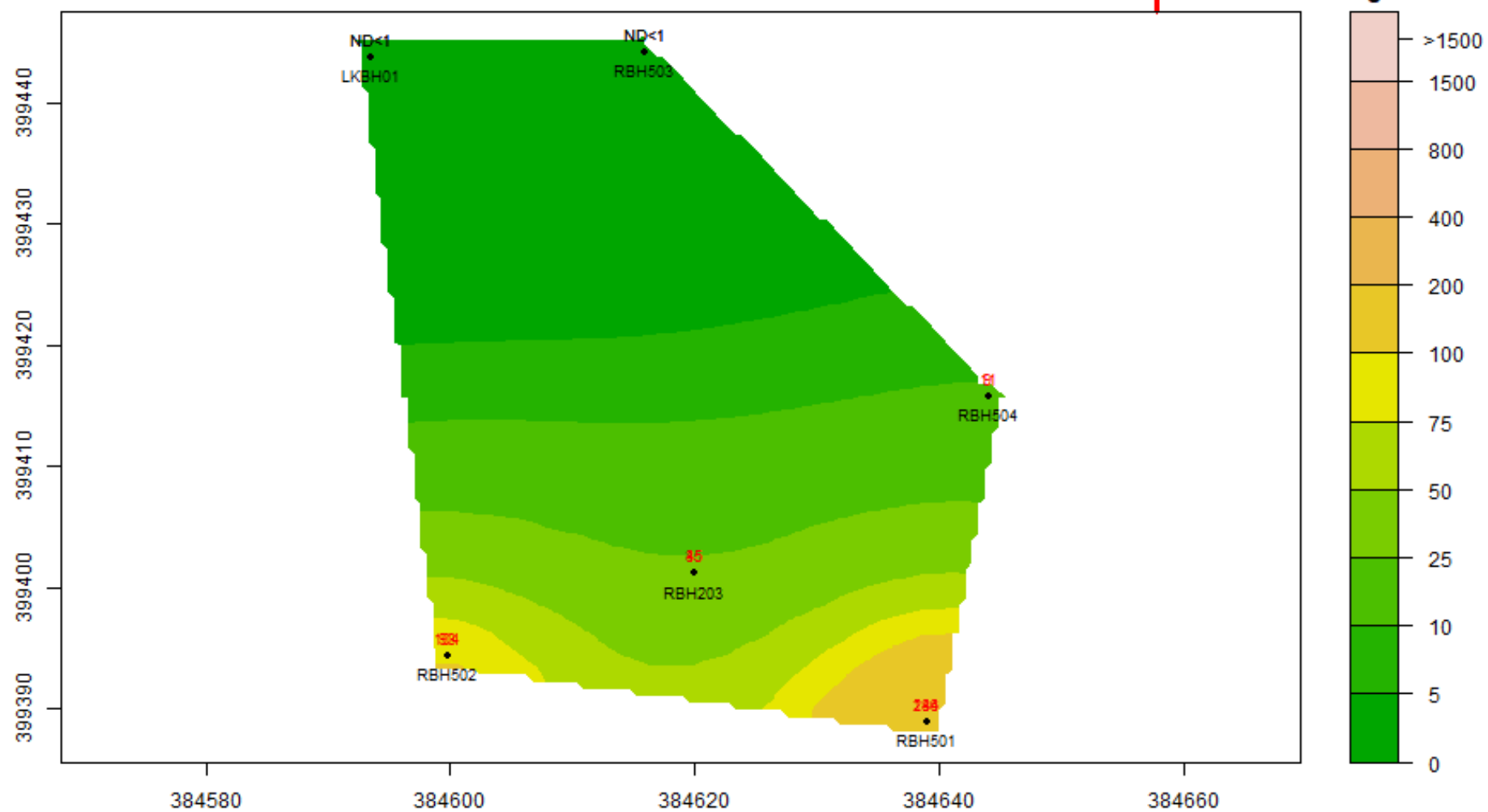
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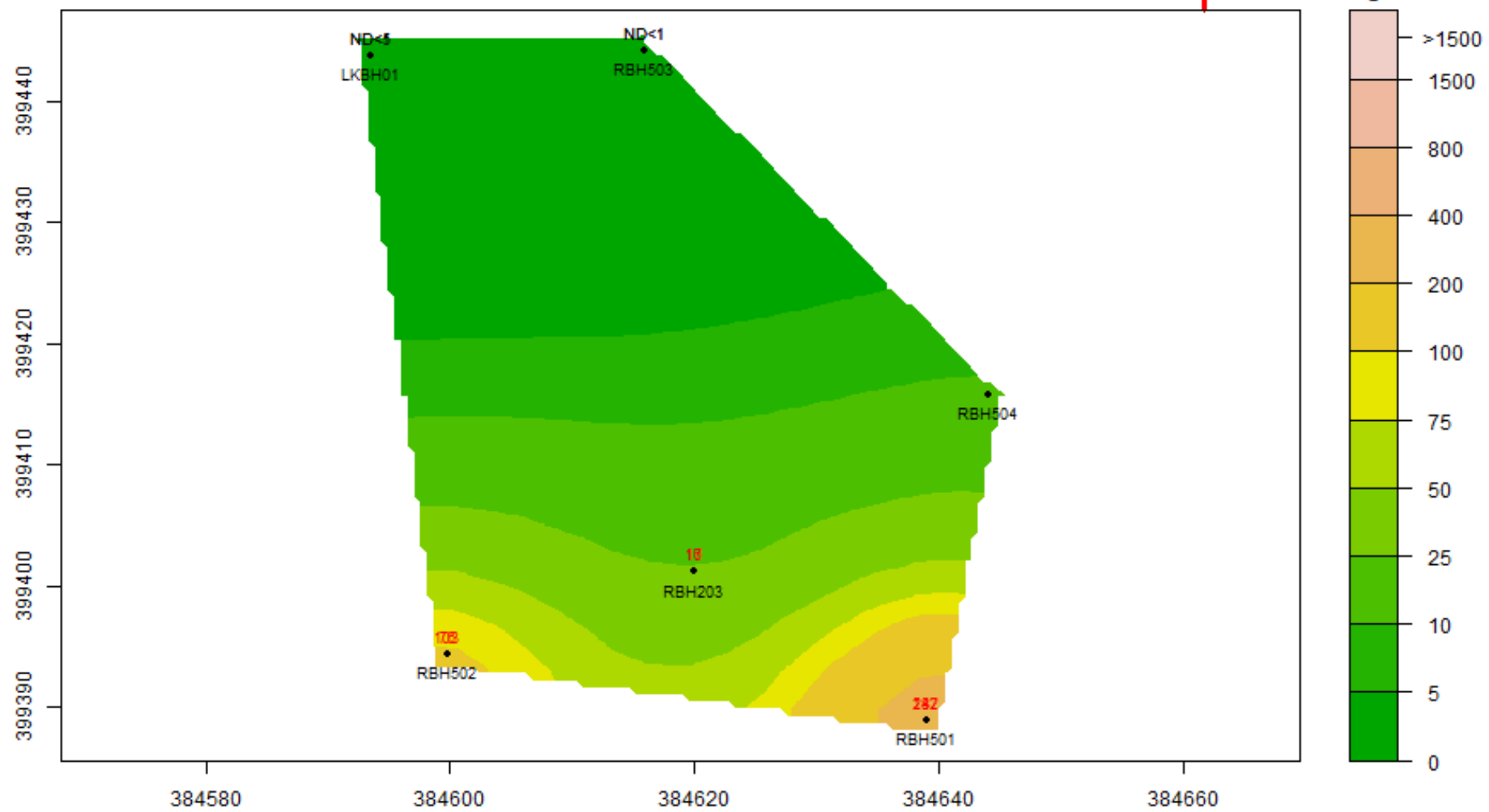
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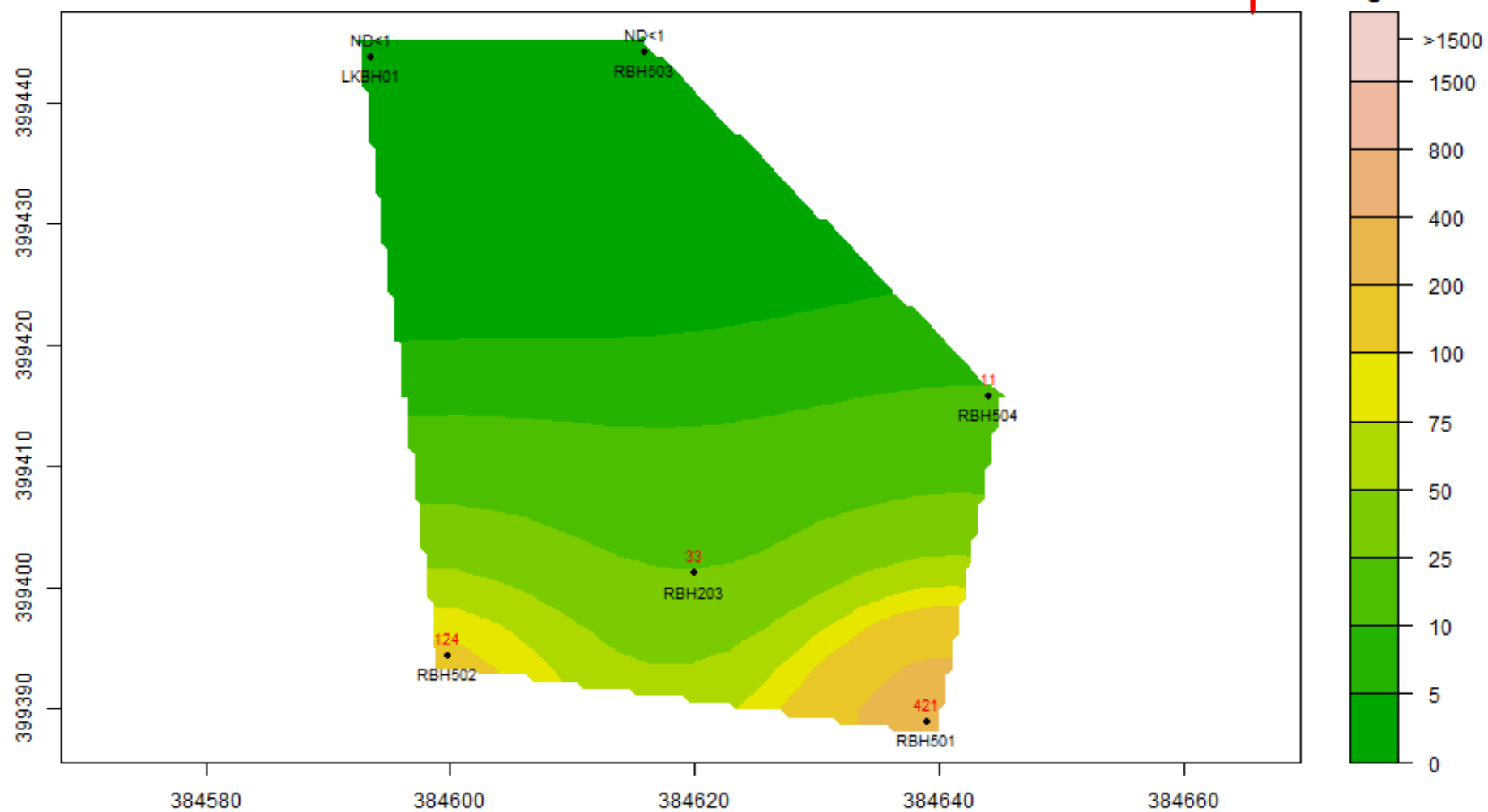
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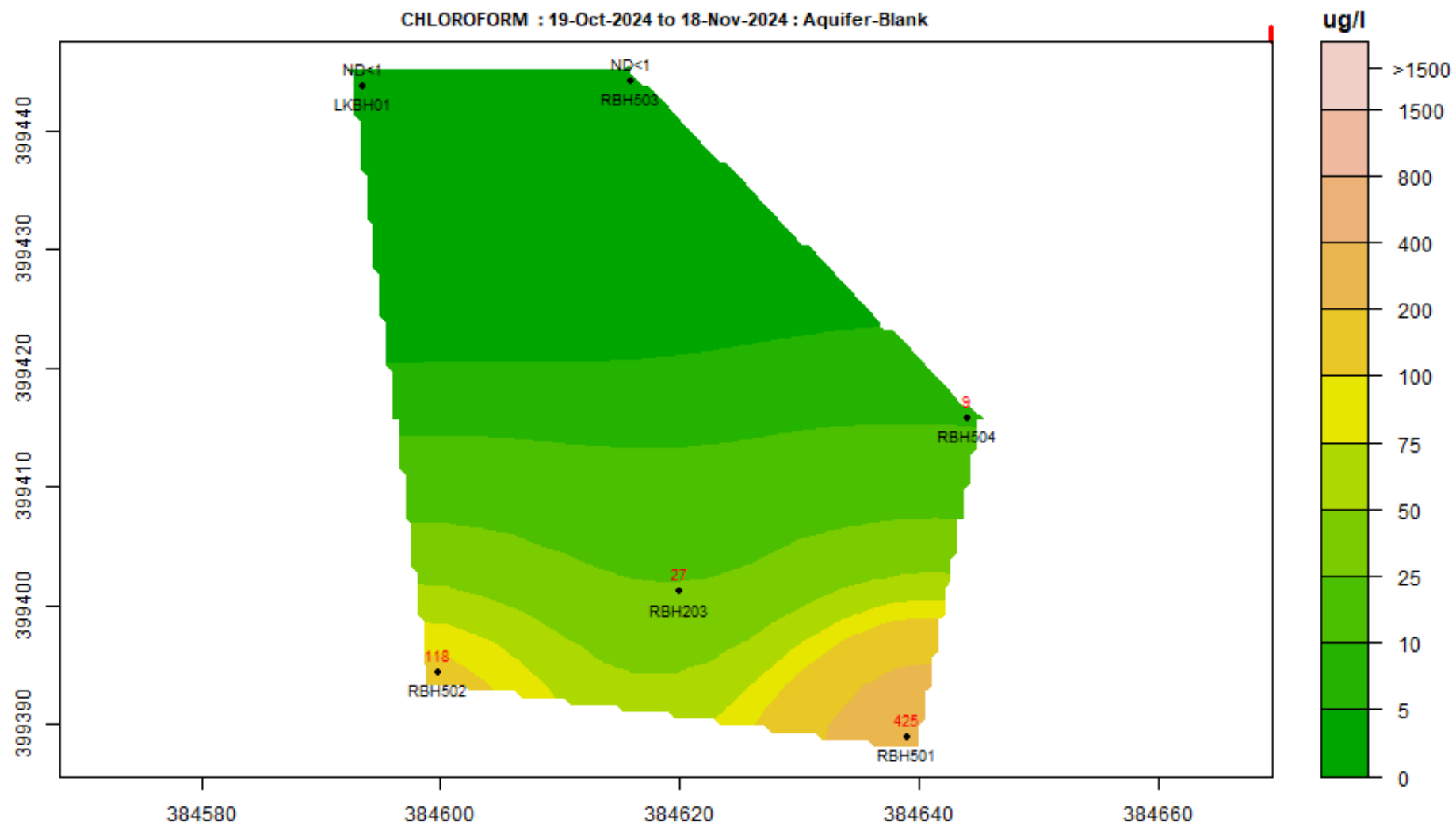
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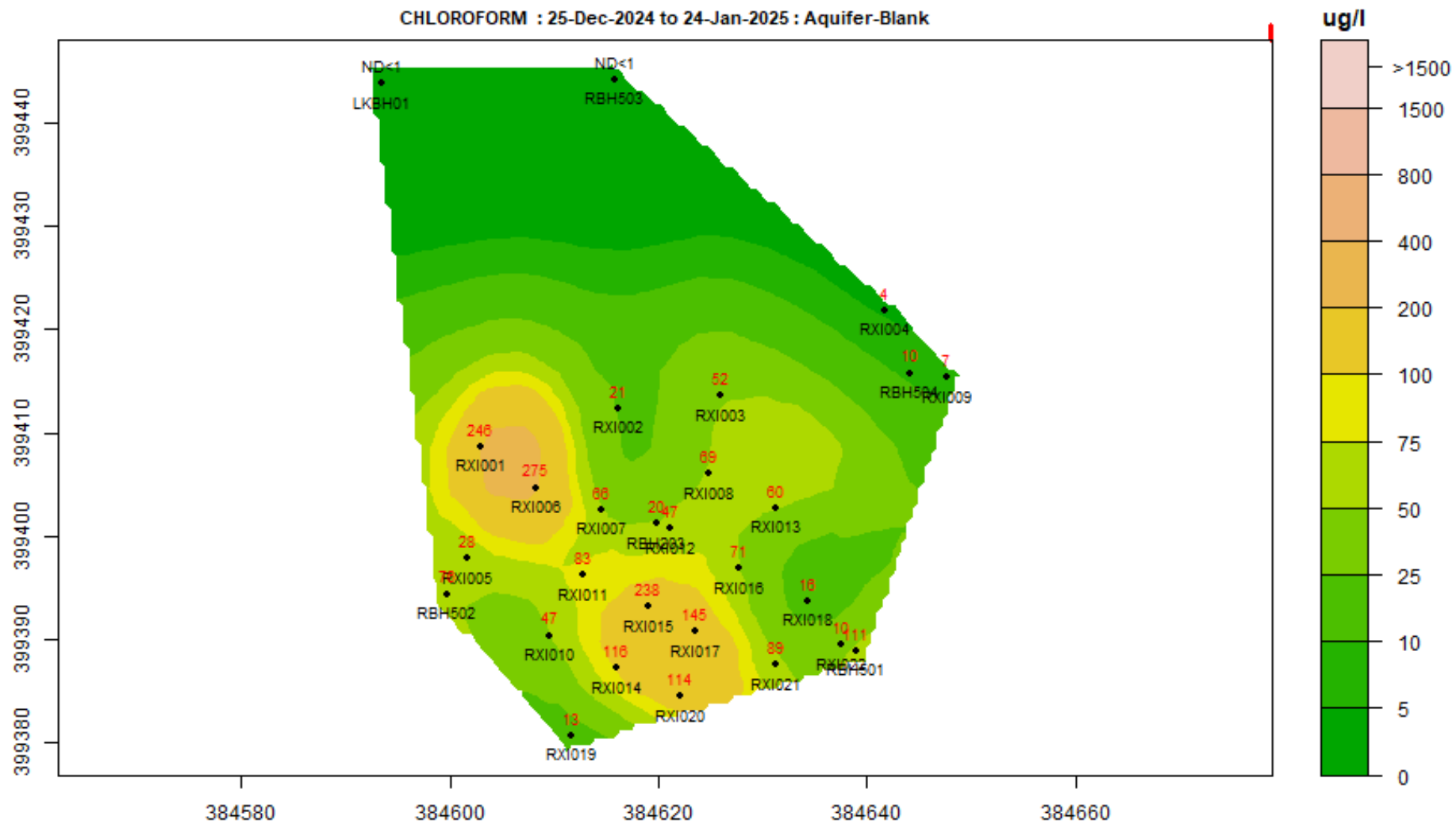
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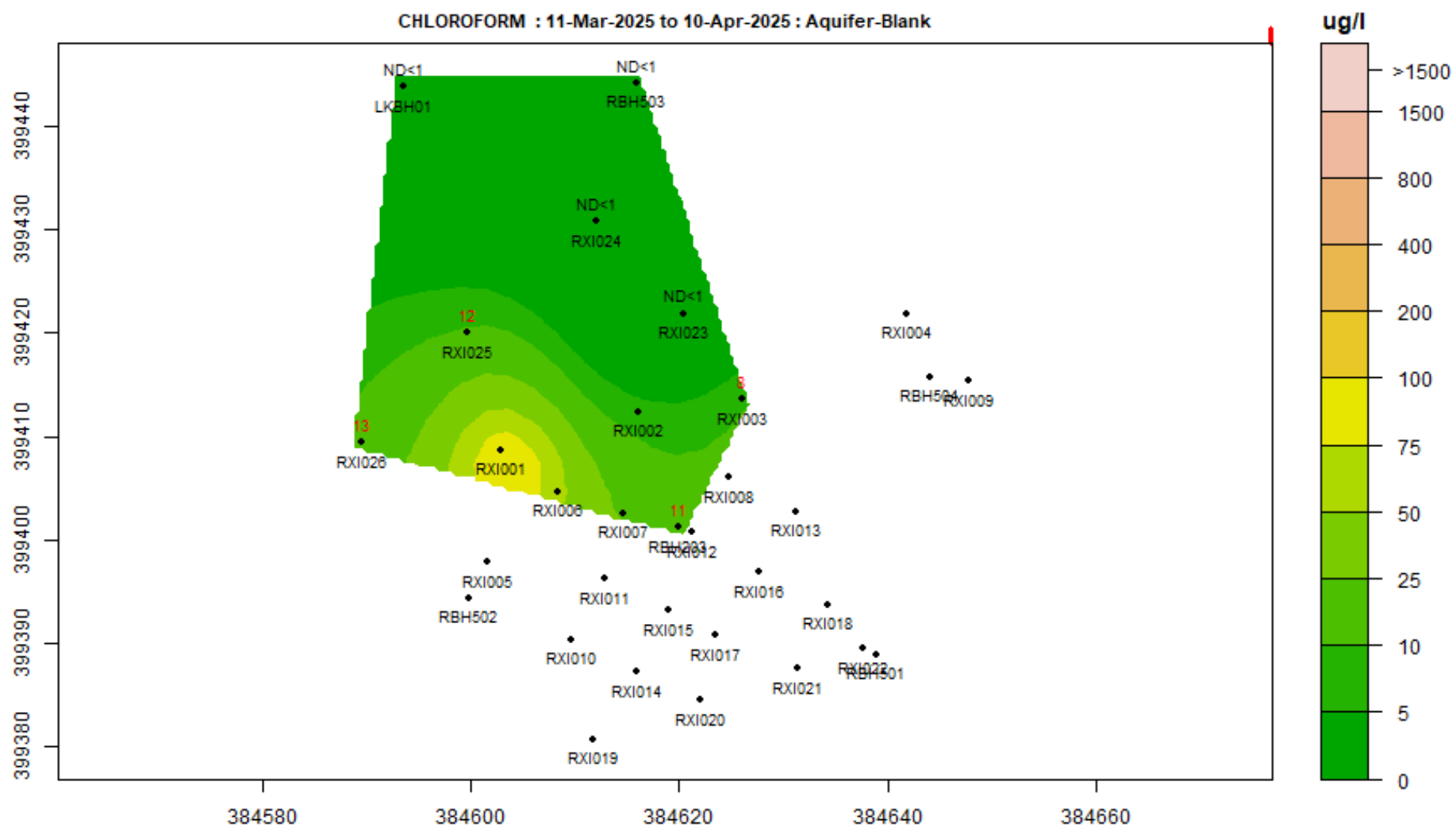


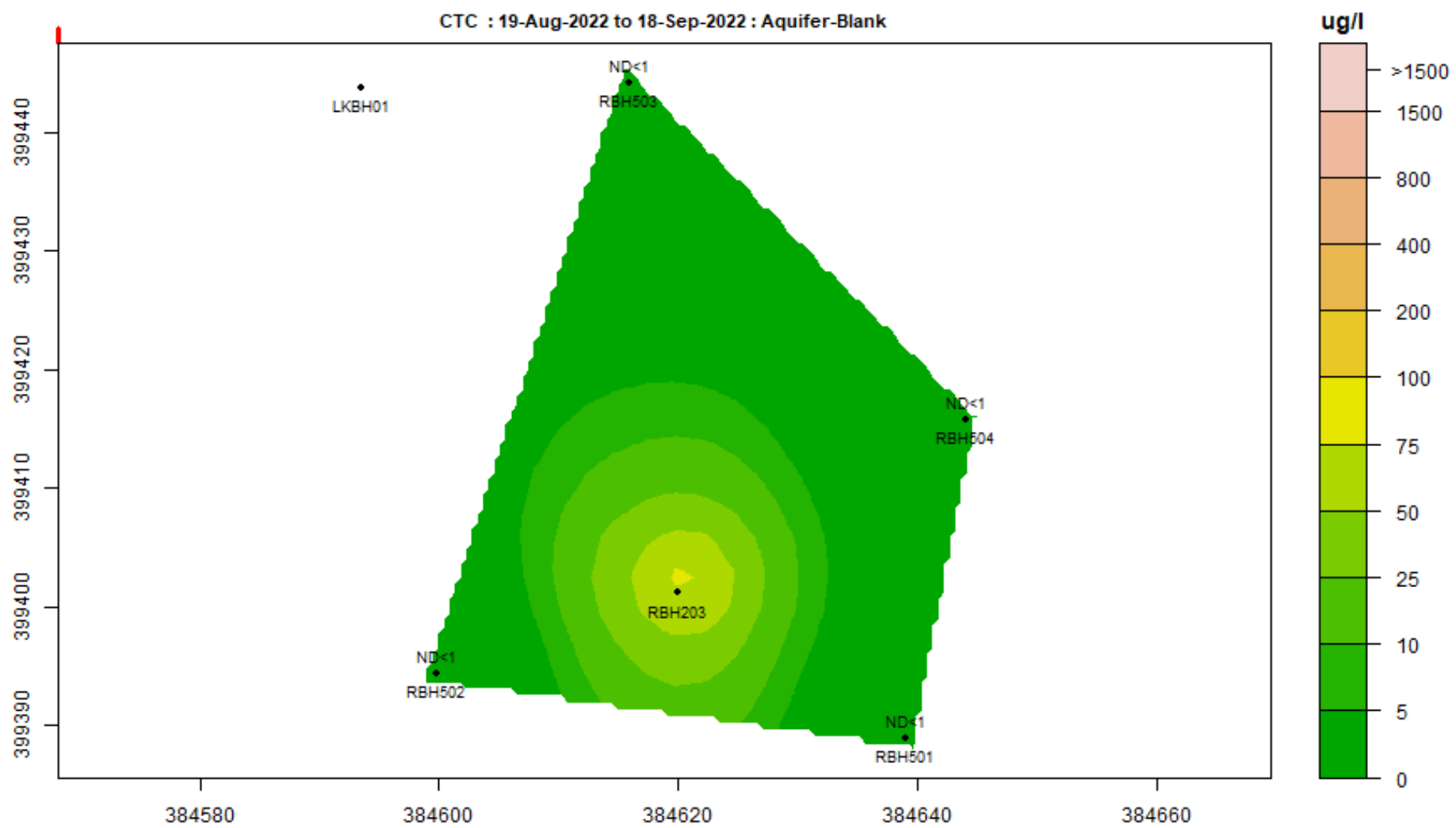
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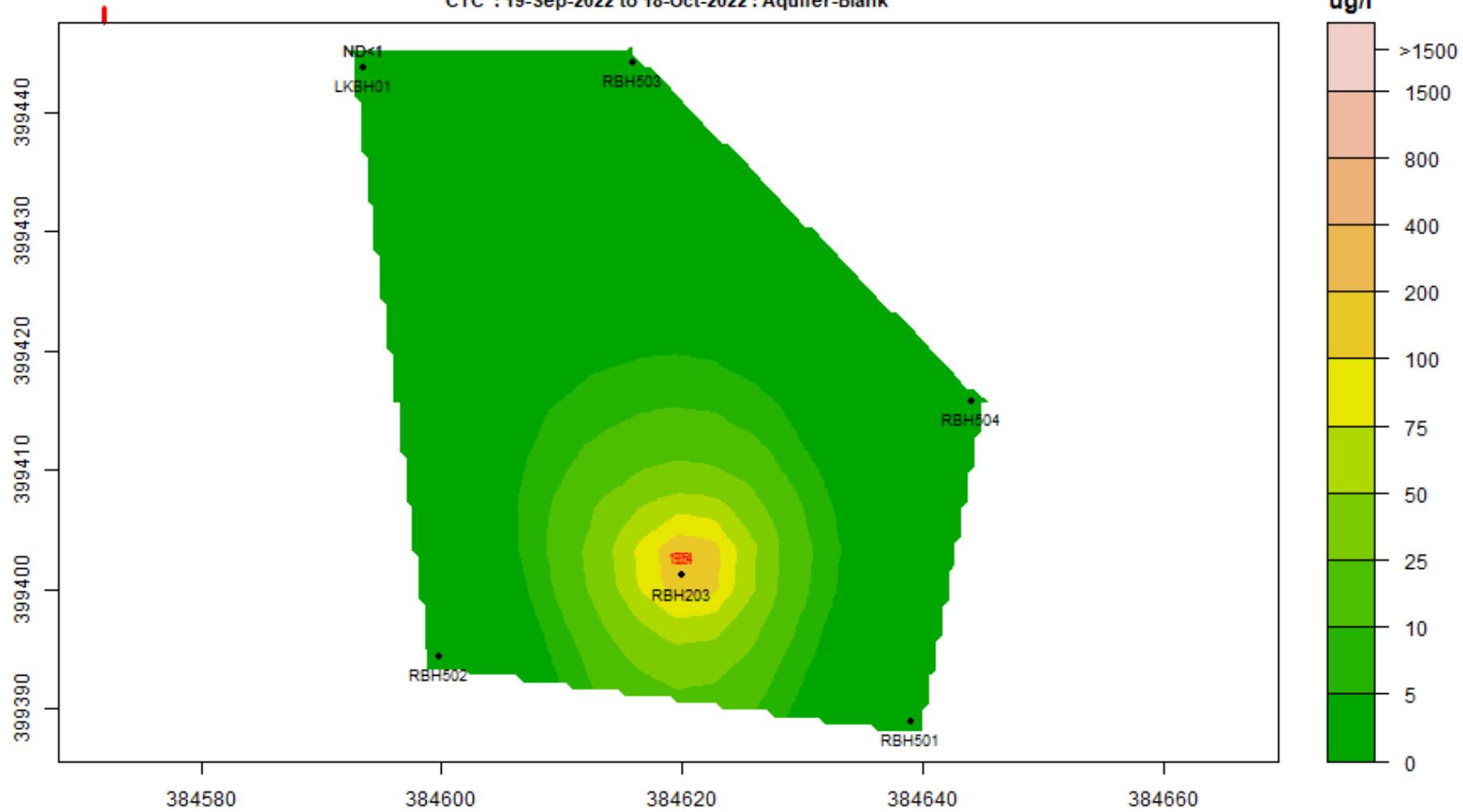
CHLOROFORM : 25-Dec-2024 to 24-Jan-2025 : Aquifer-Blank



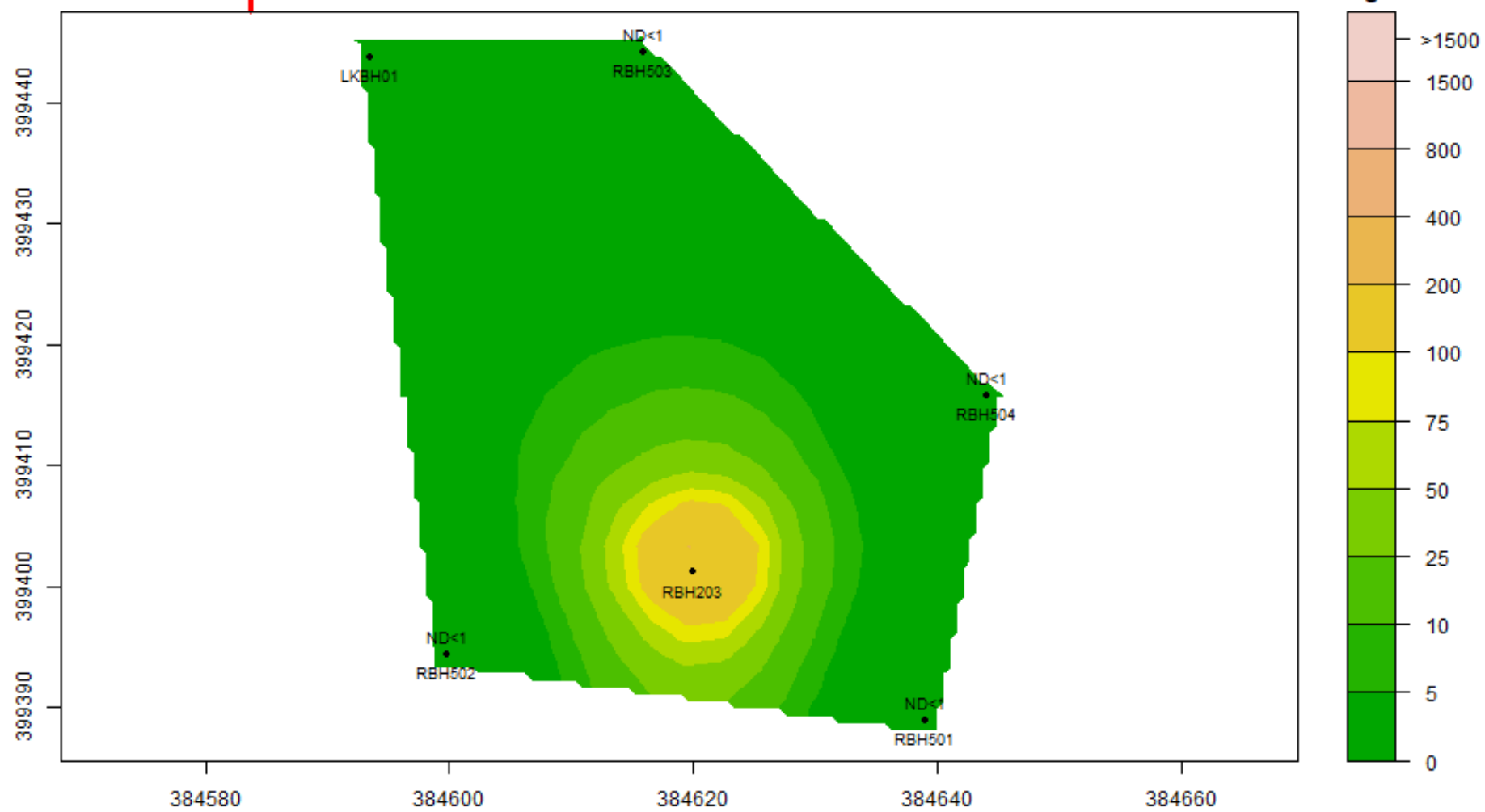




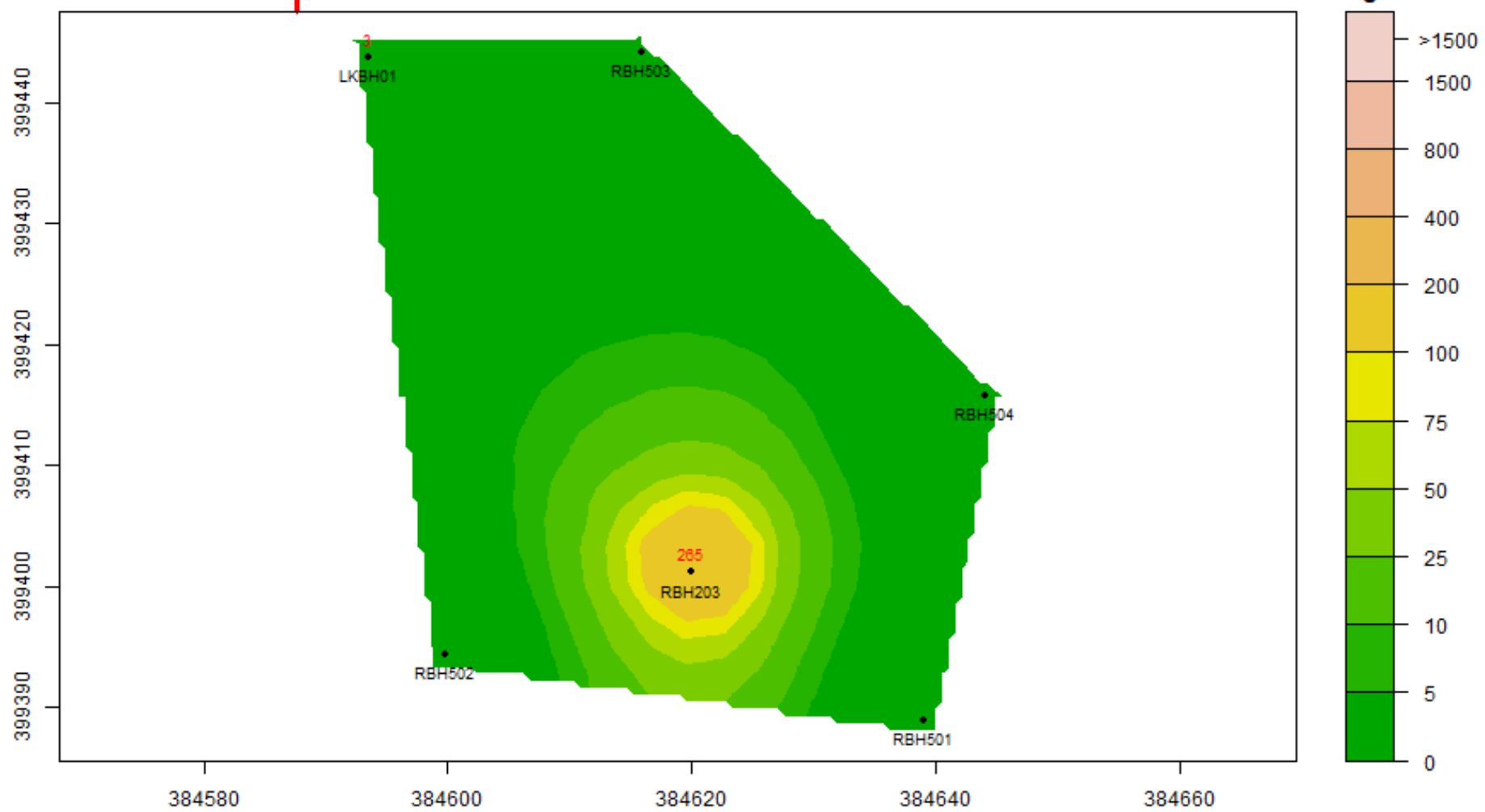
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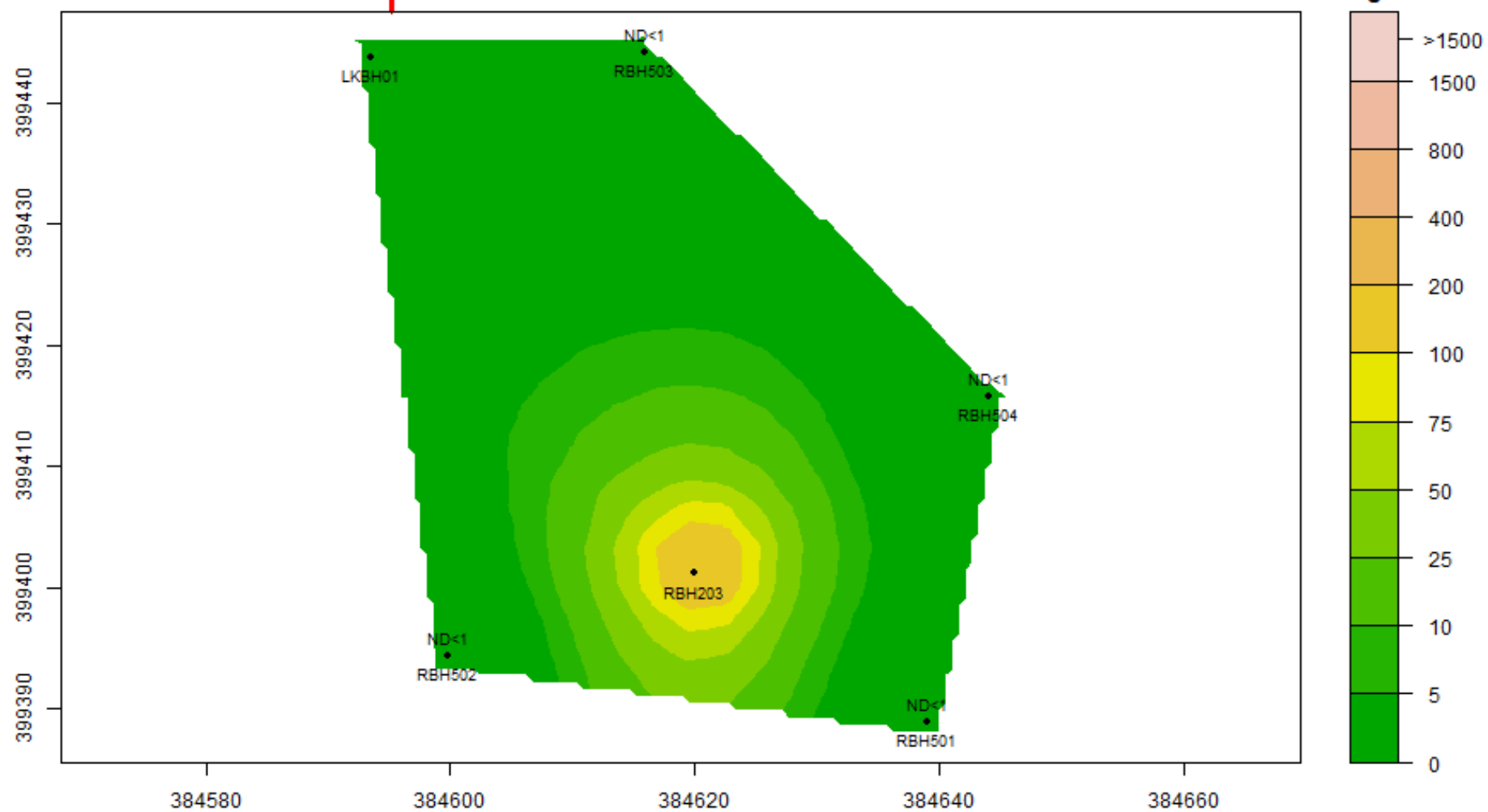
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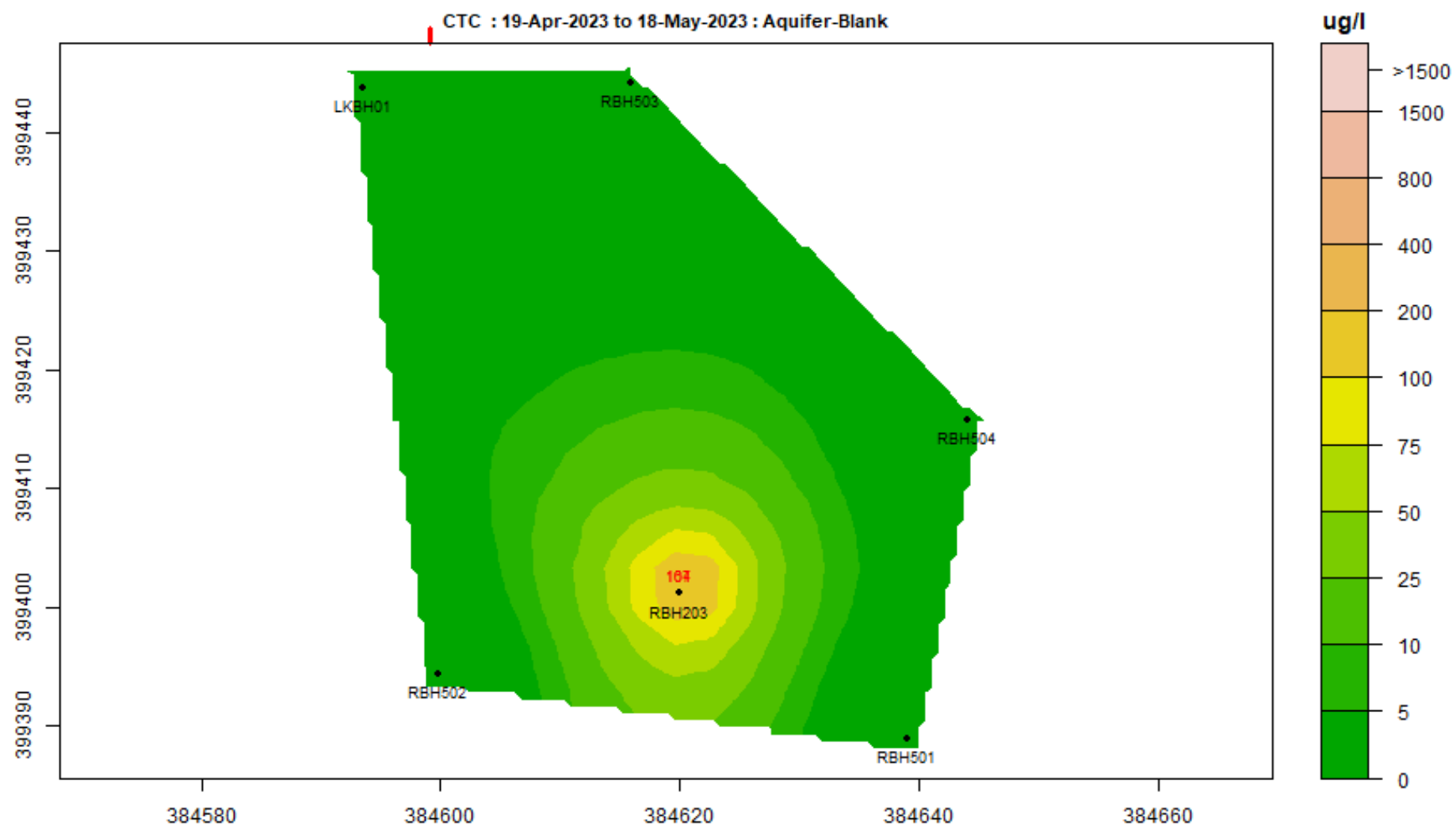


CTC : 19-Jan-2023 to 18-Feb-2023 : Aquifer-Blank

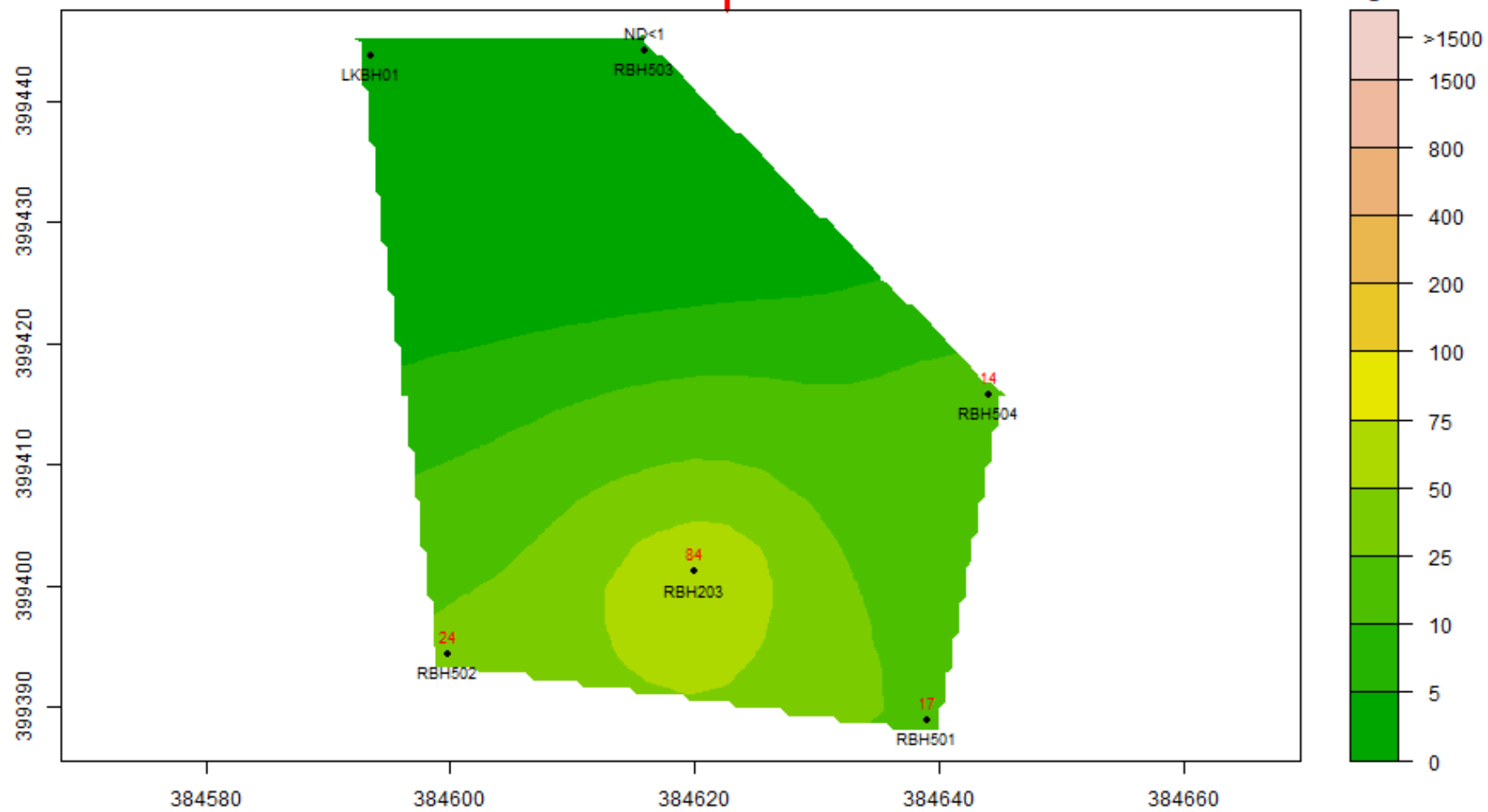


CTC : 19-Mar-2023 to 18-Apr-2023 : Aquifer-Blank

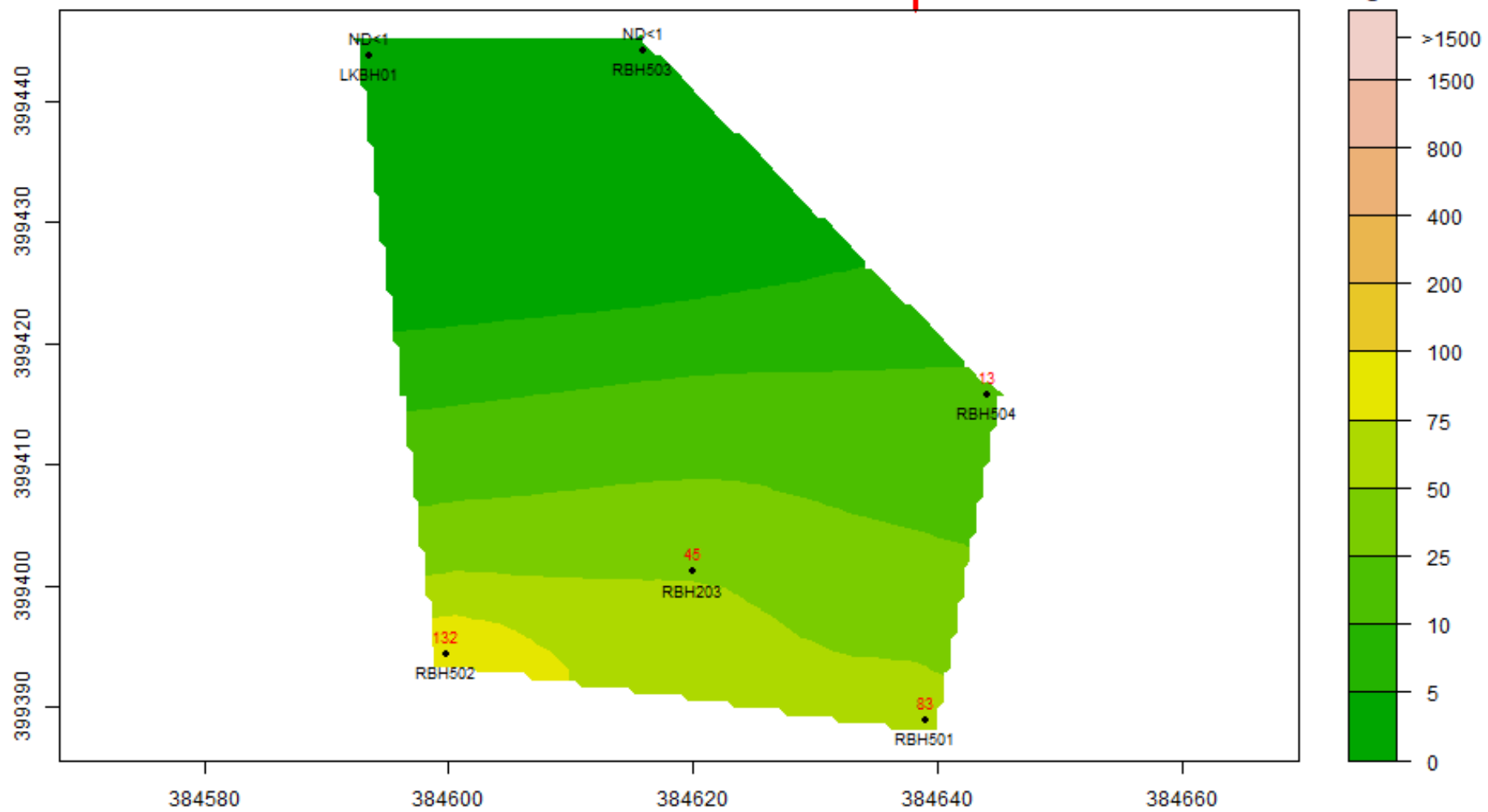




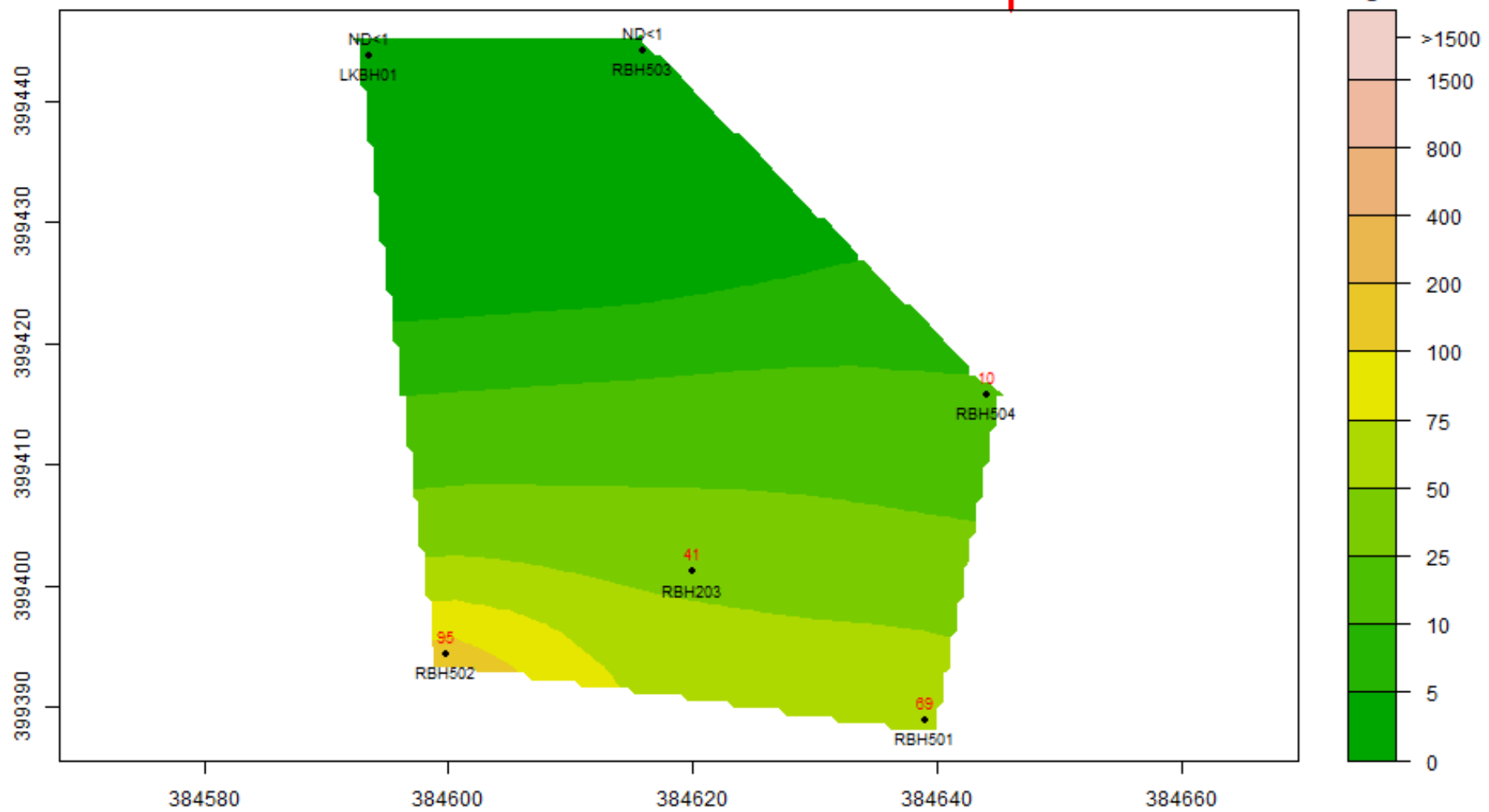
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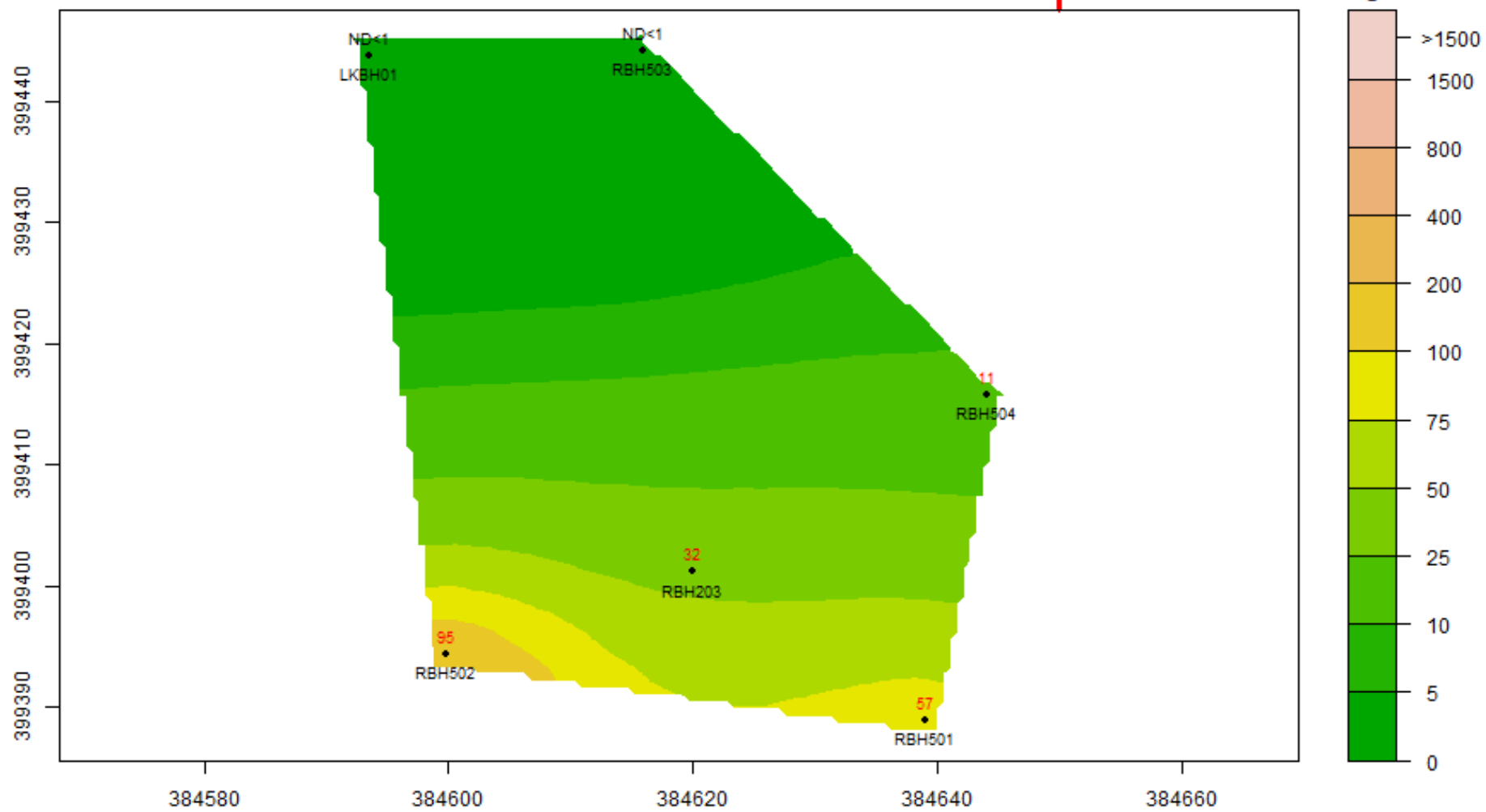
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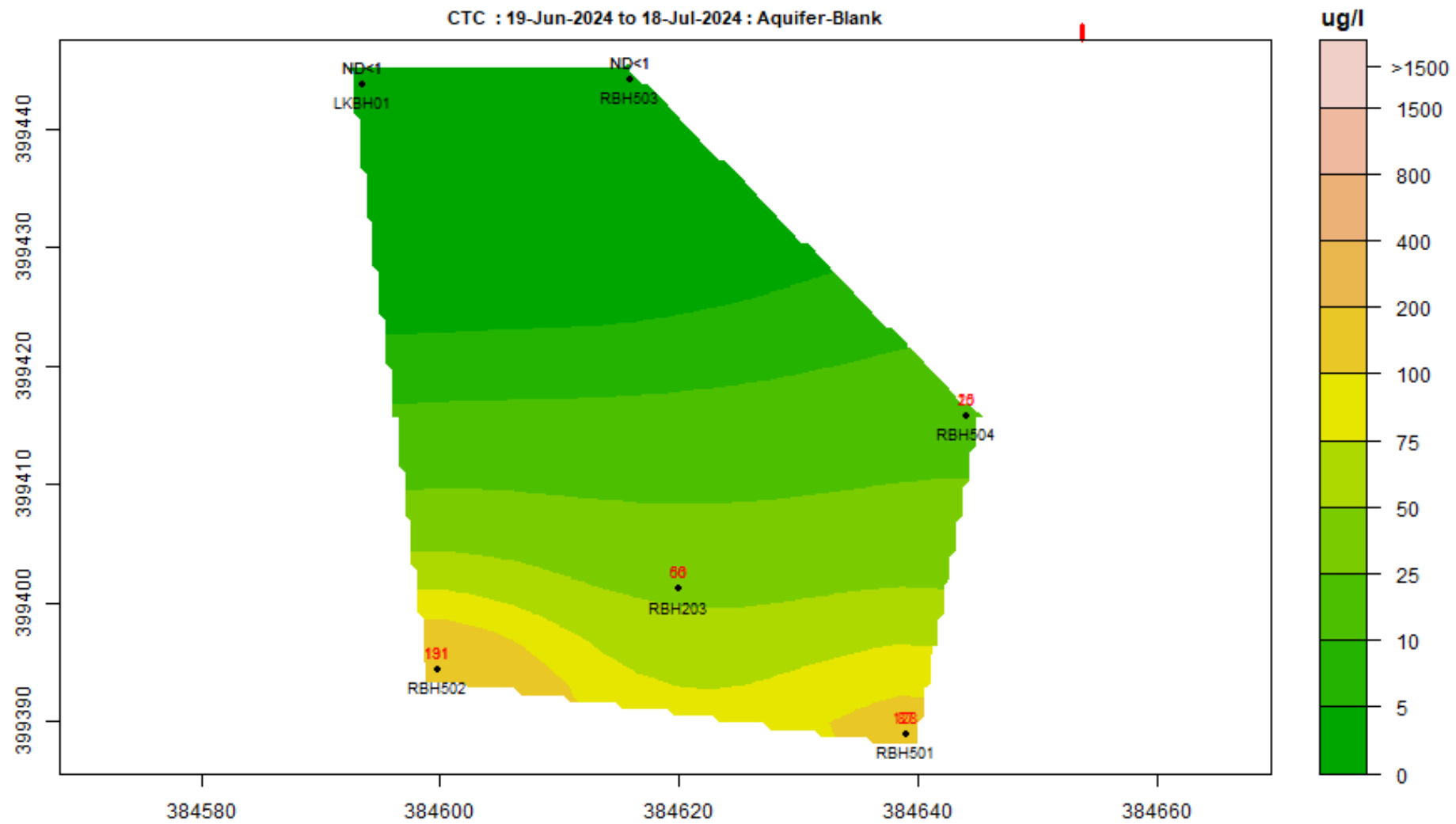
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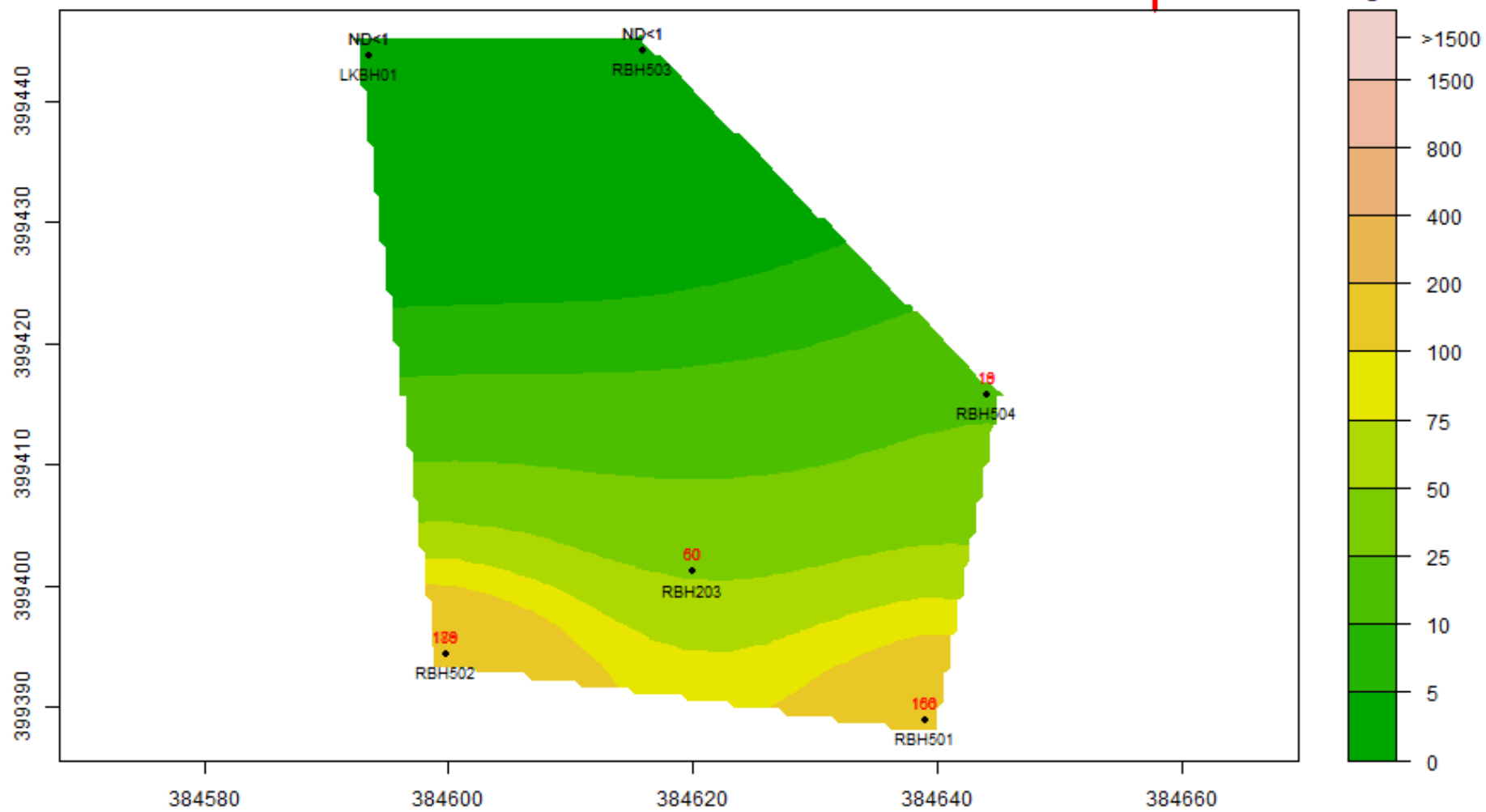
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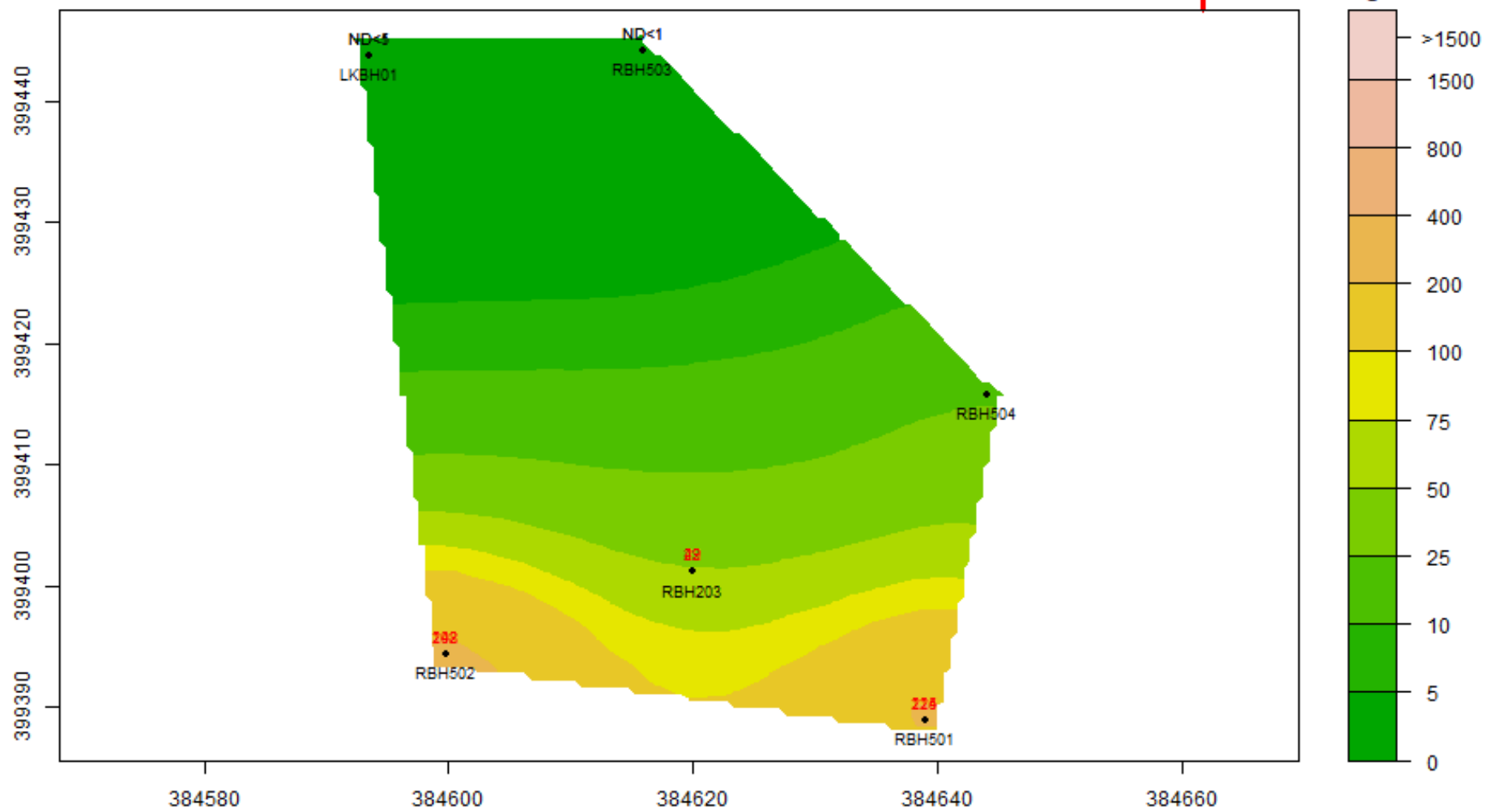
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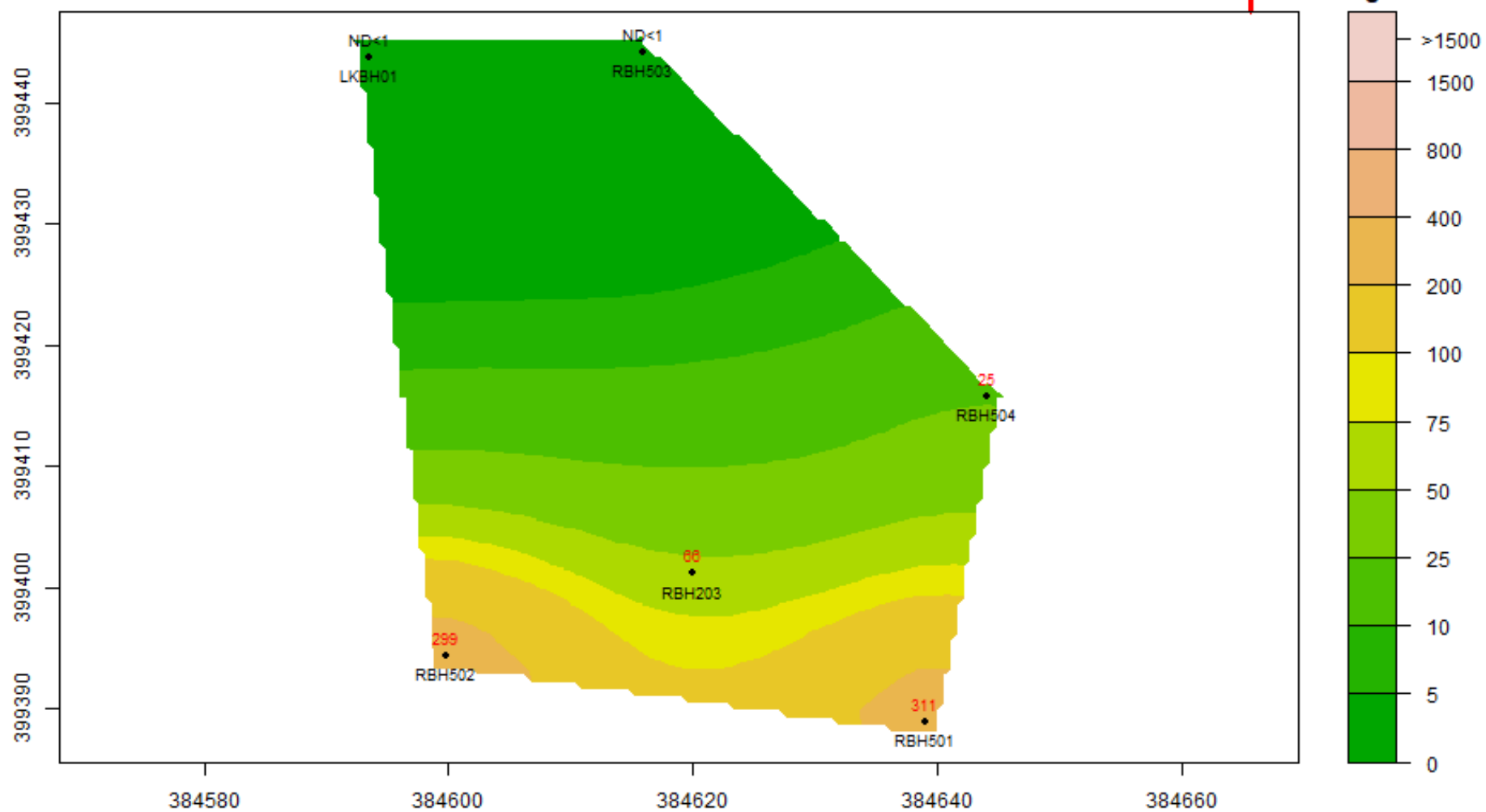
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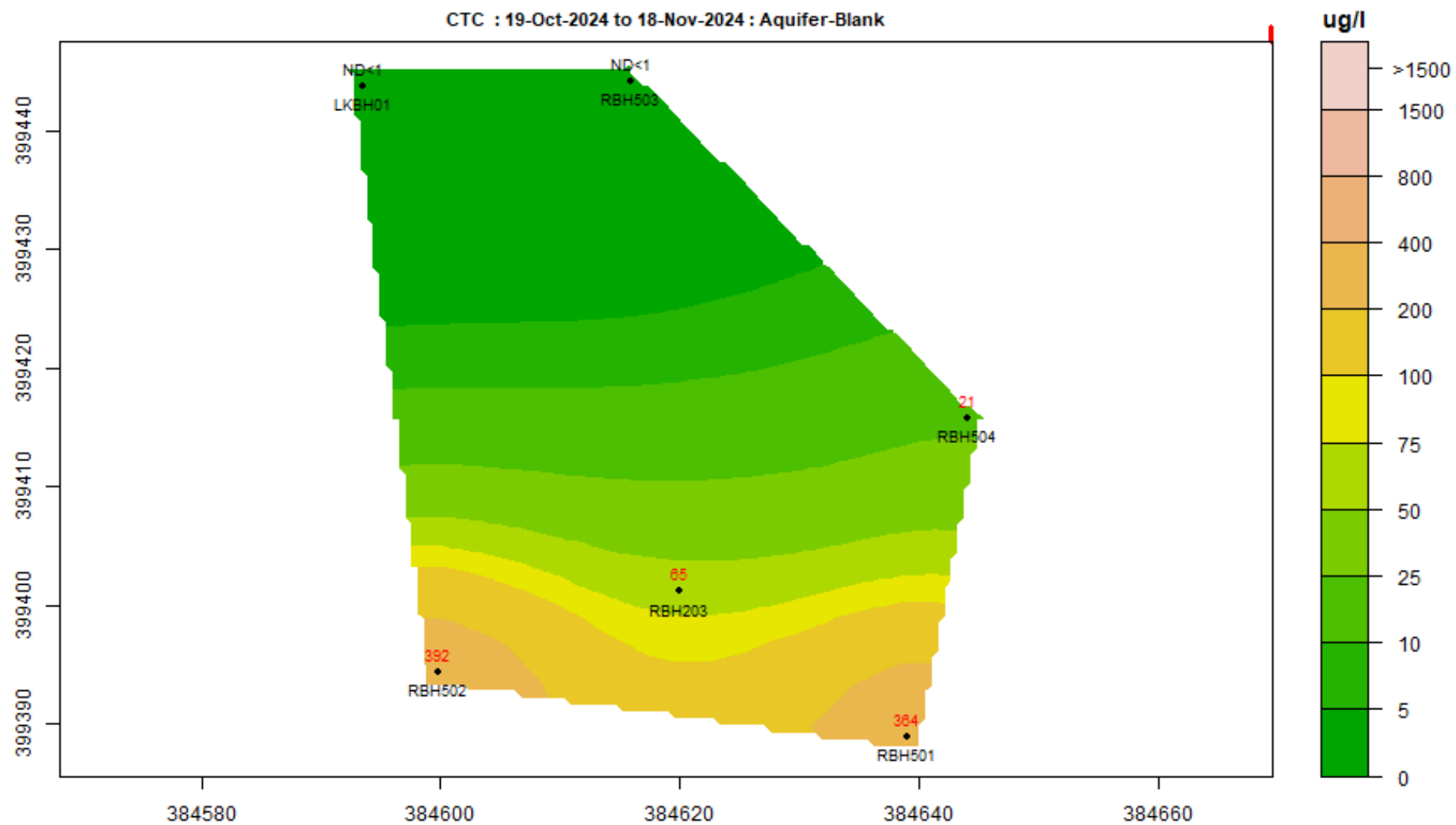
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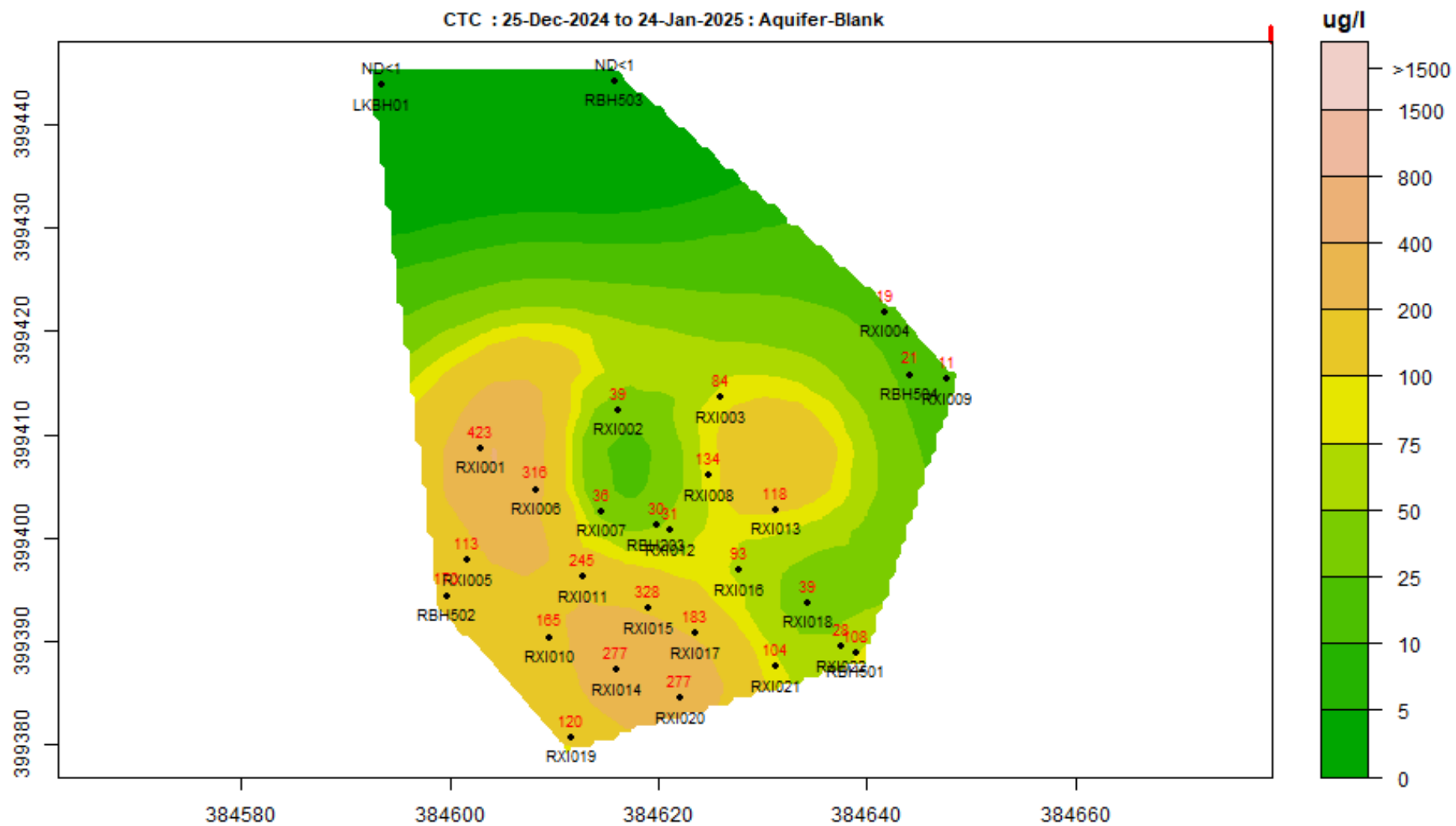
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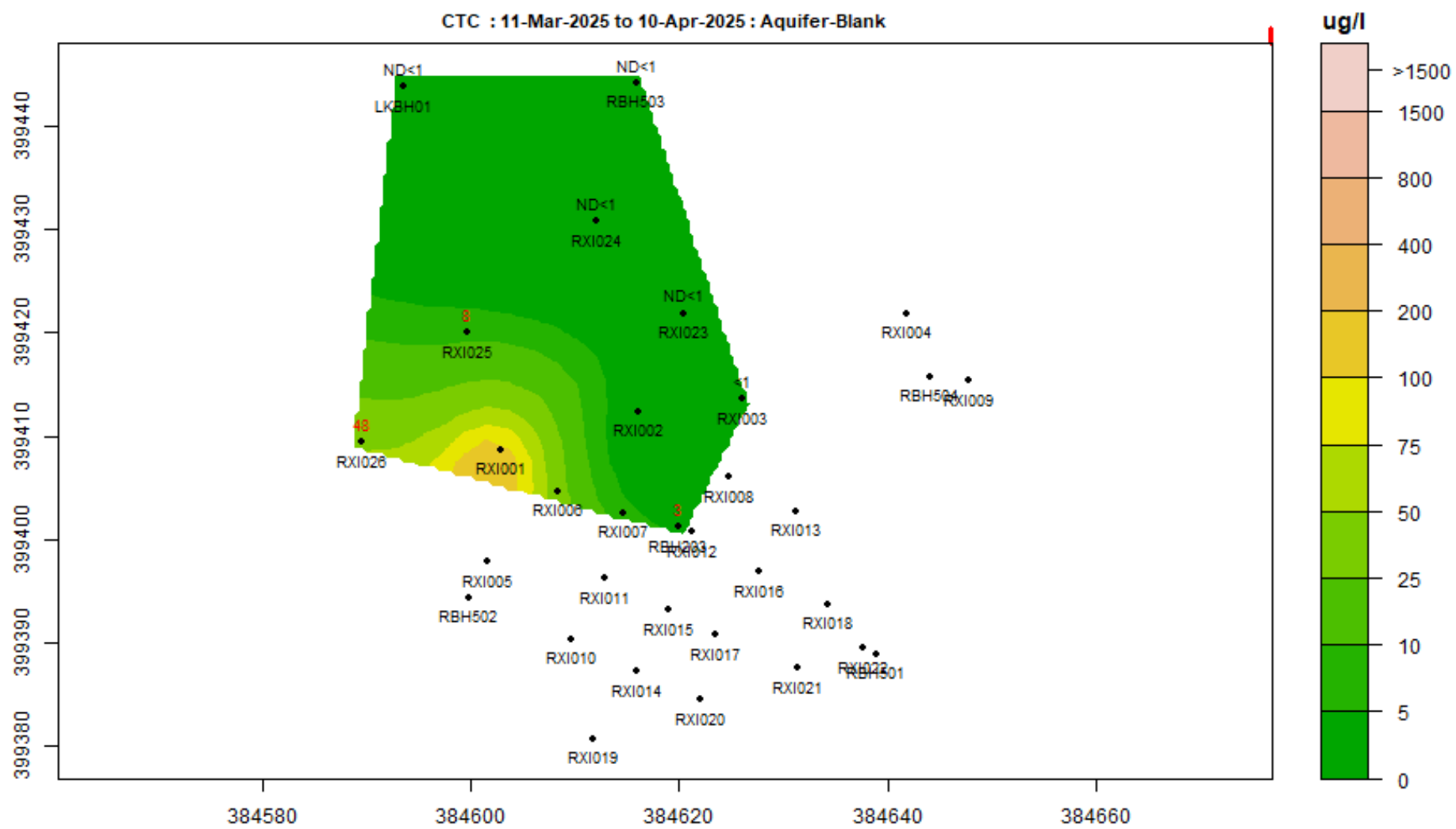


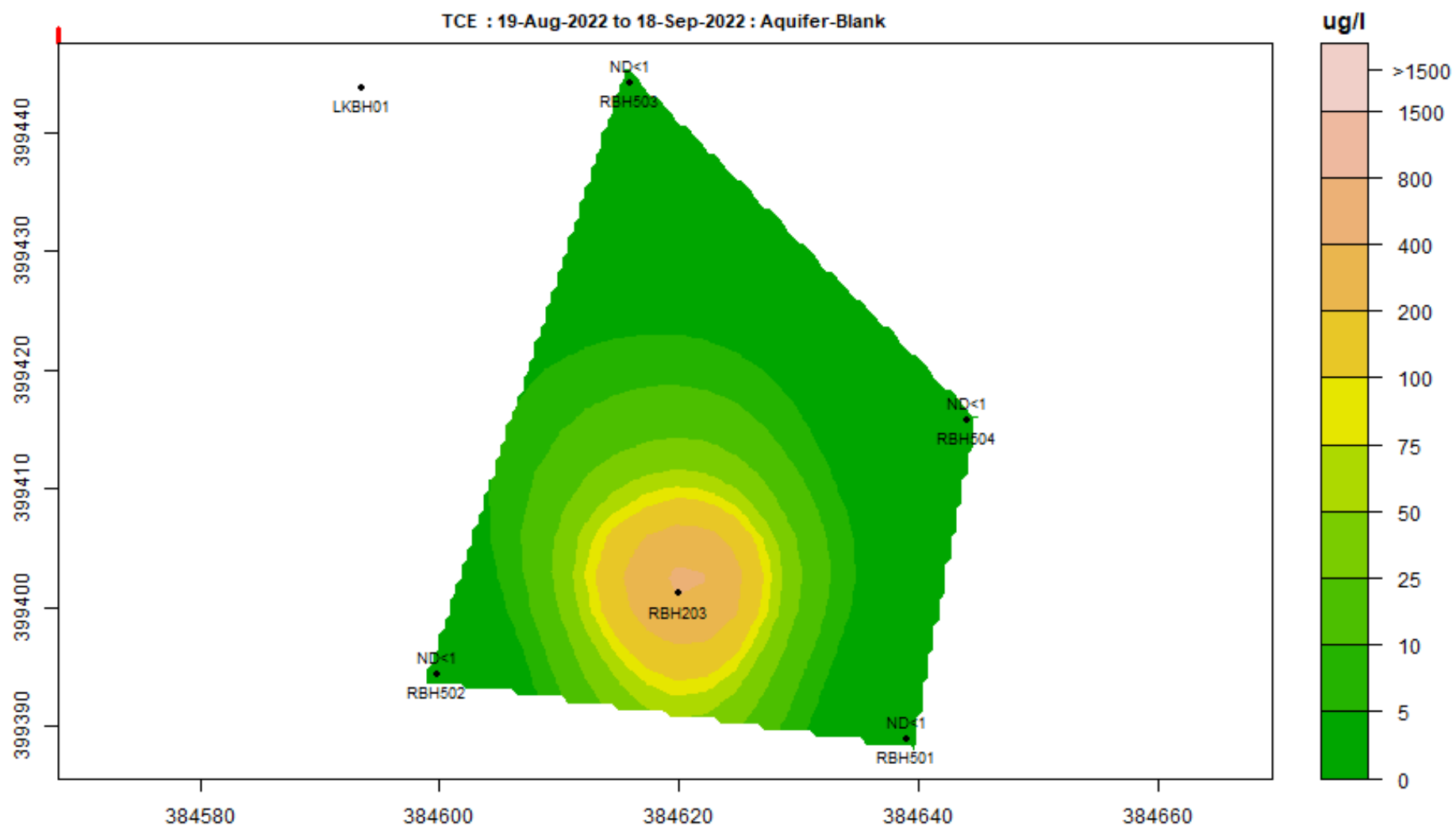
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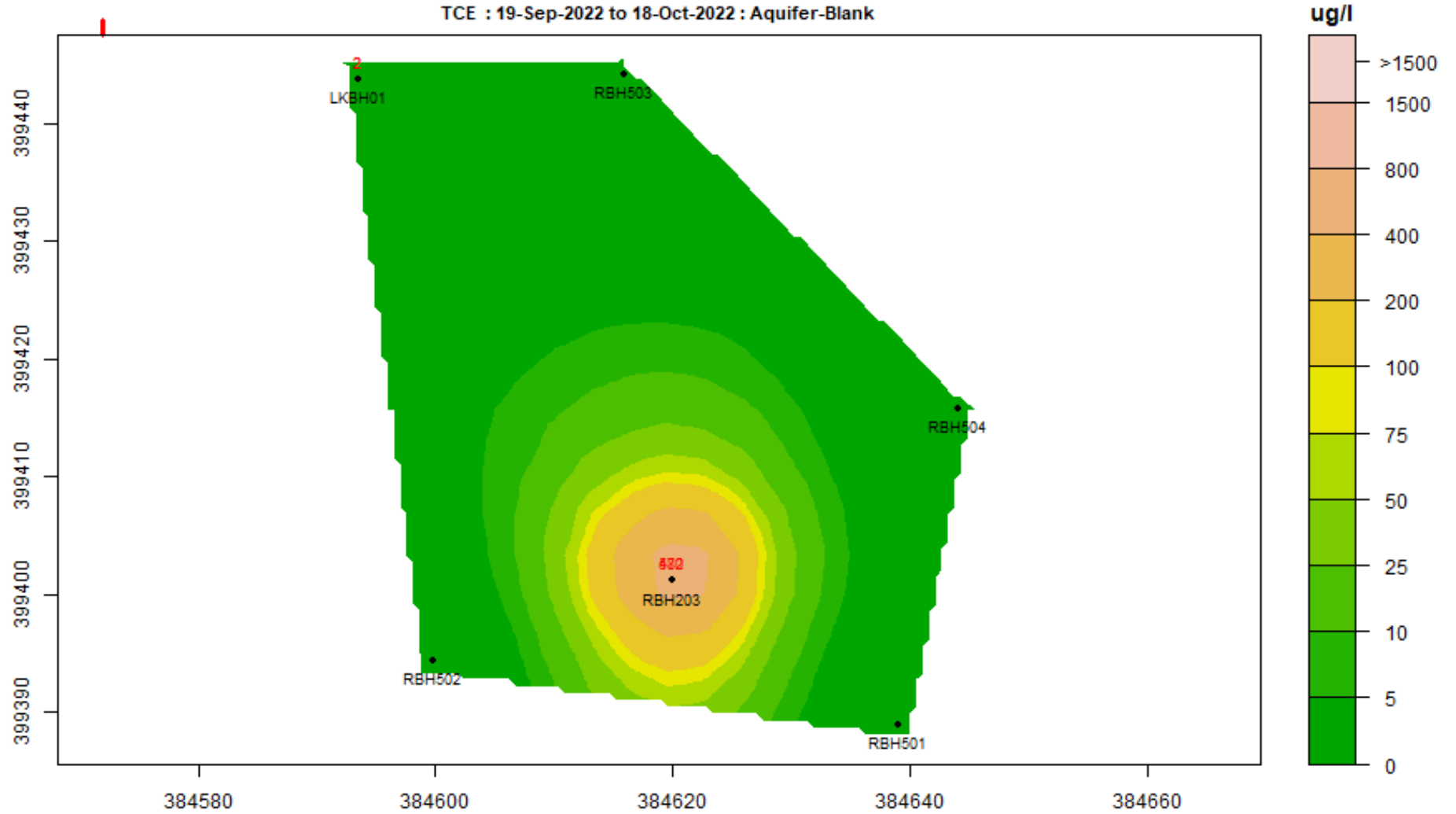
CTC : 25-Dec-2024 to 24-Jan-2025 : Aquifer-Blank



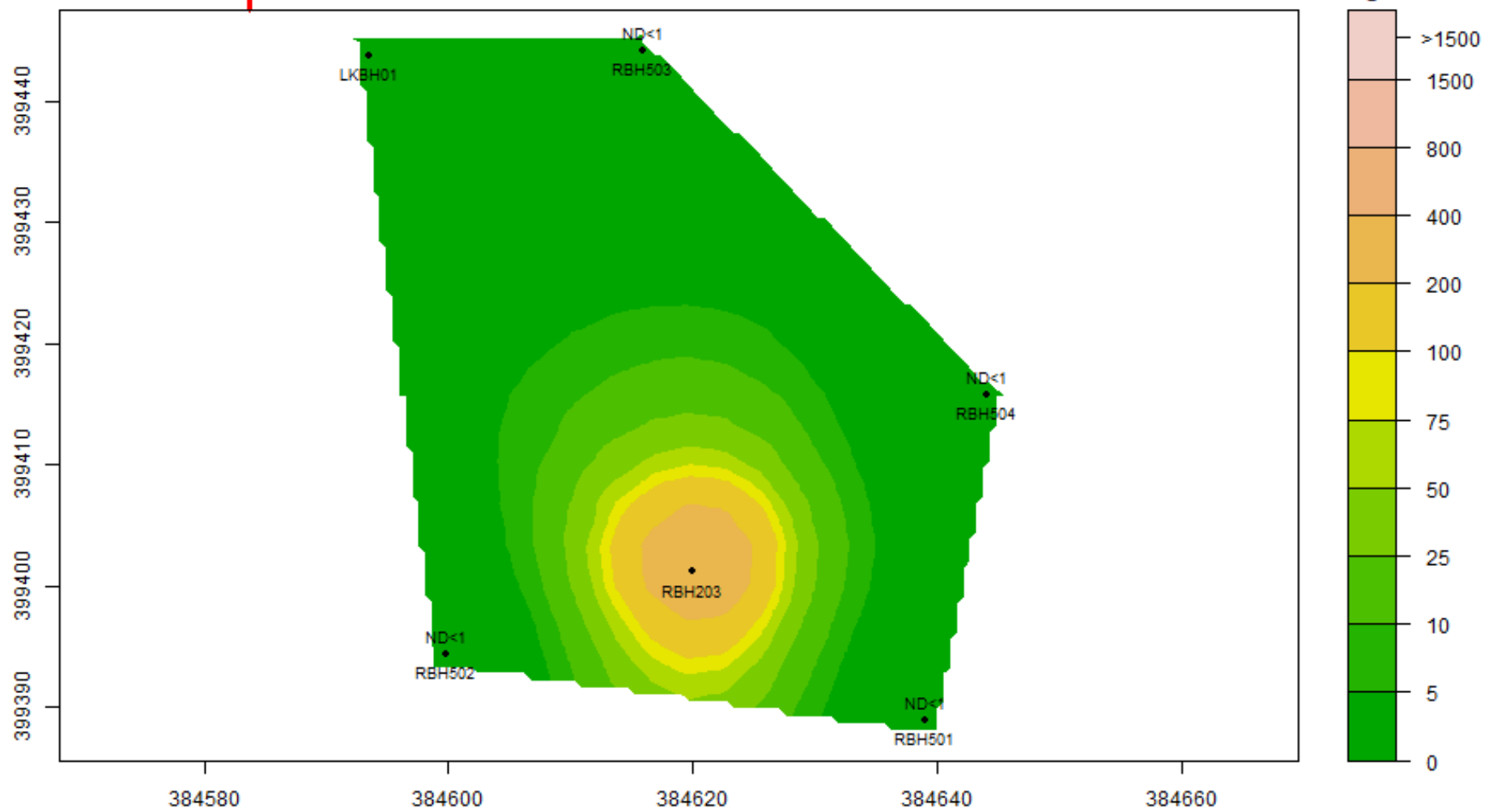




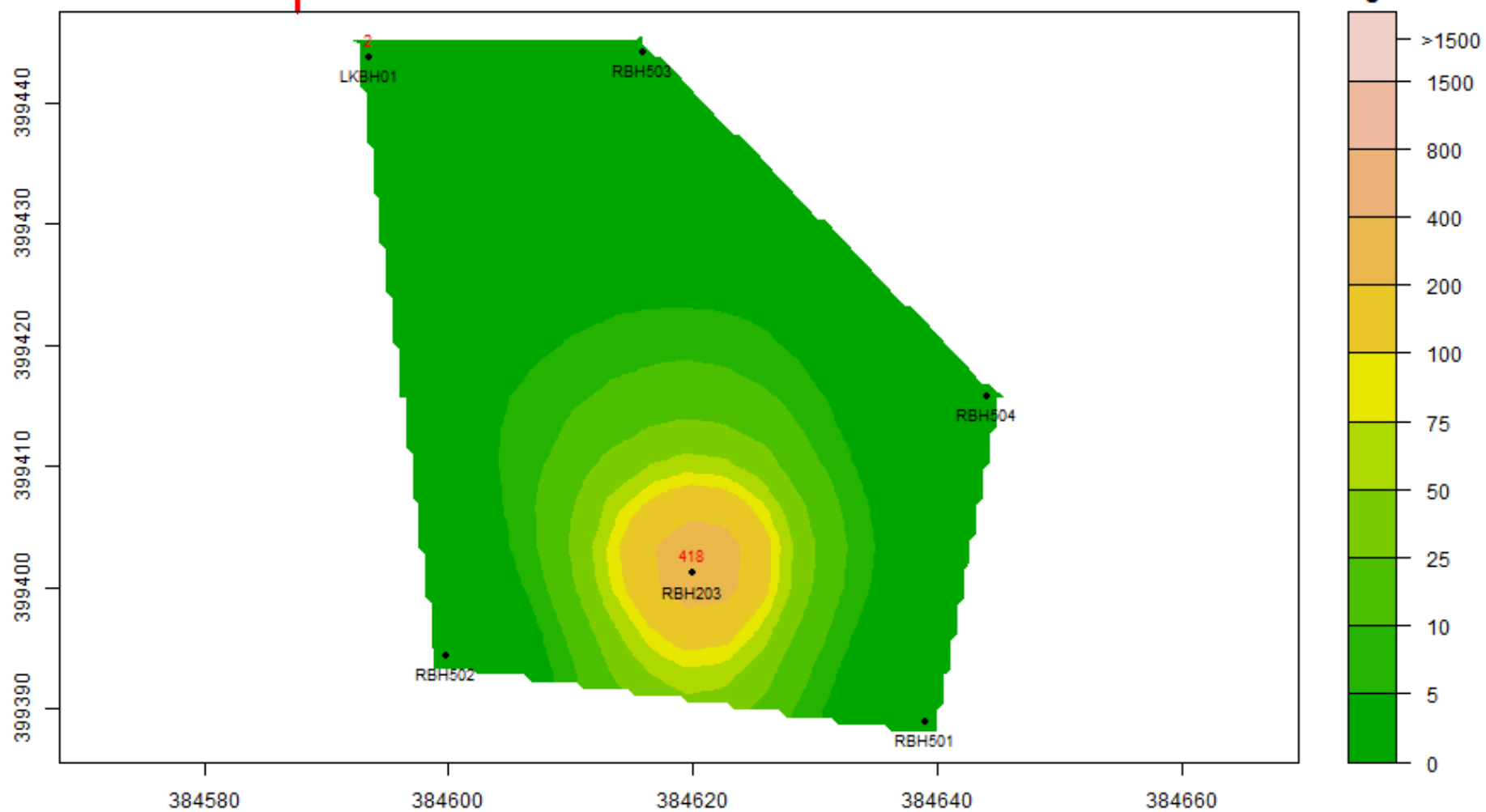
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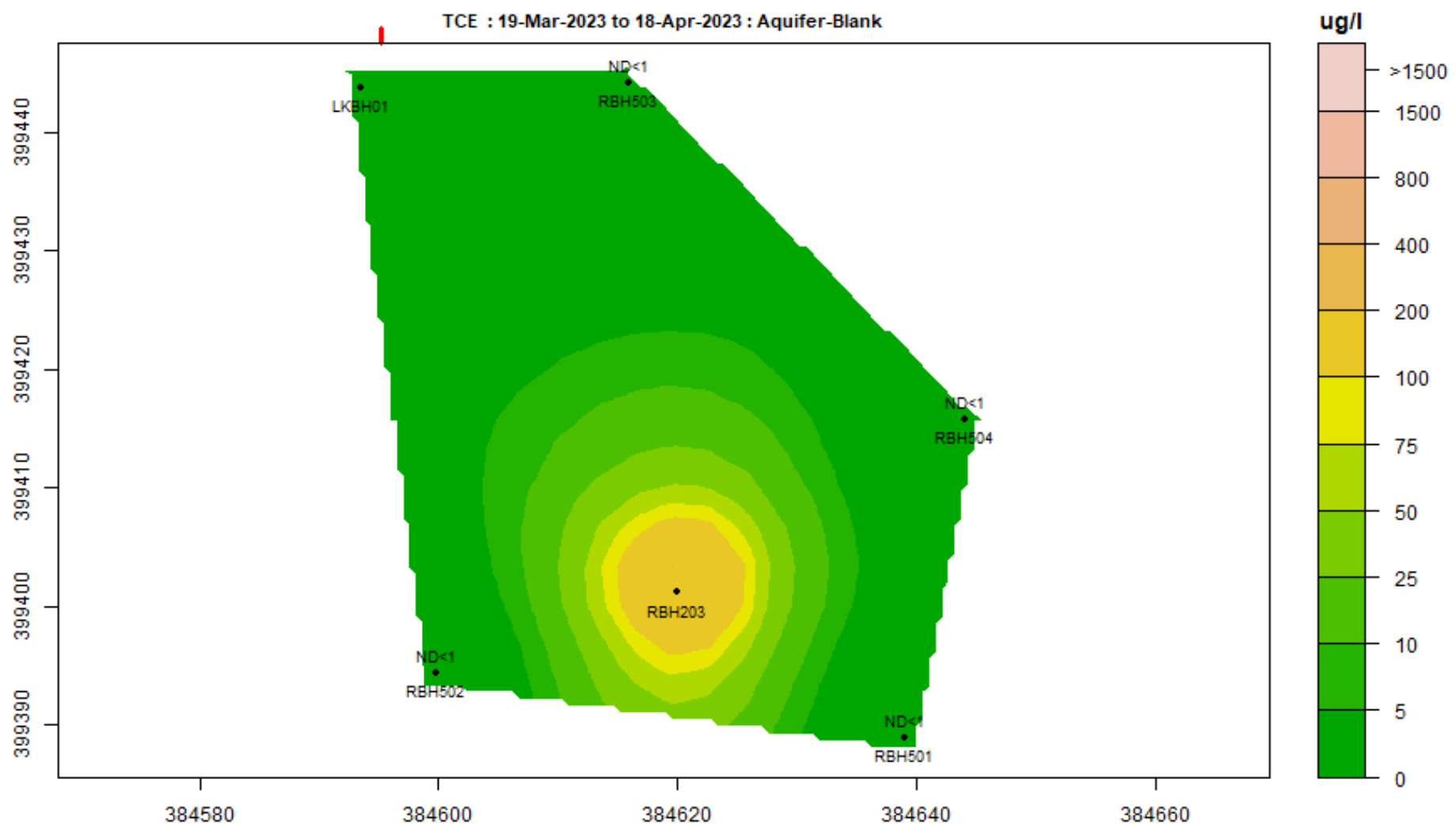


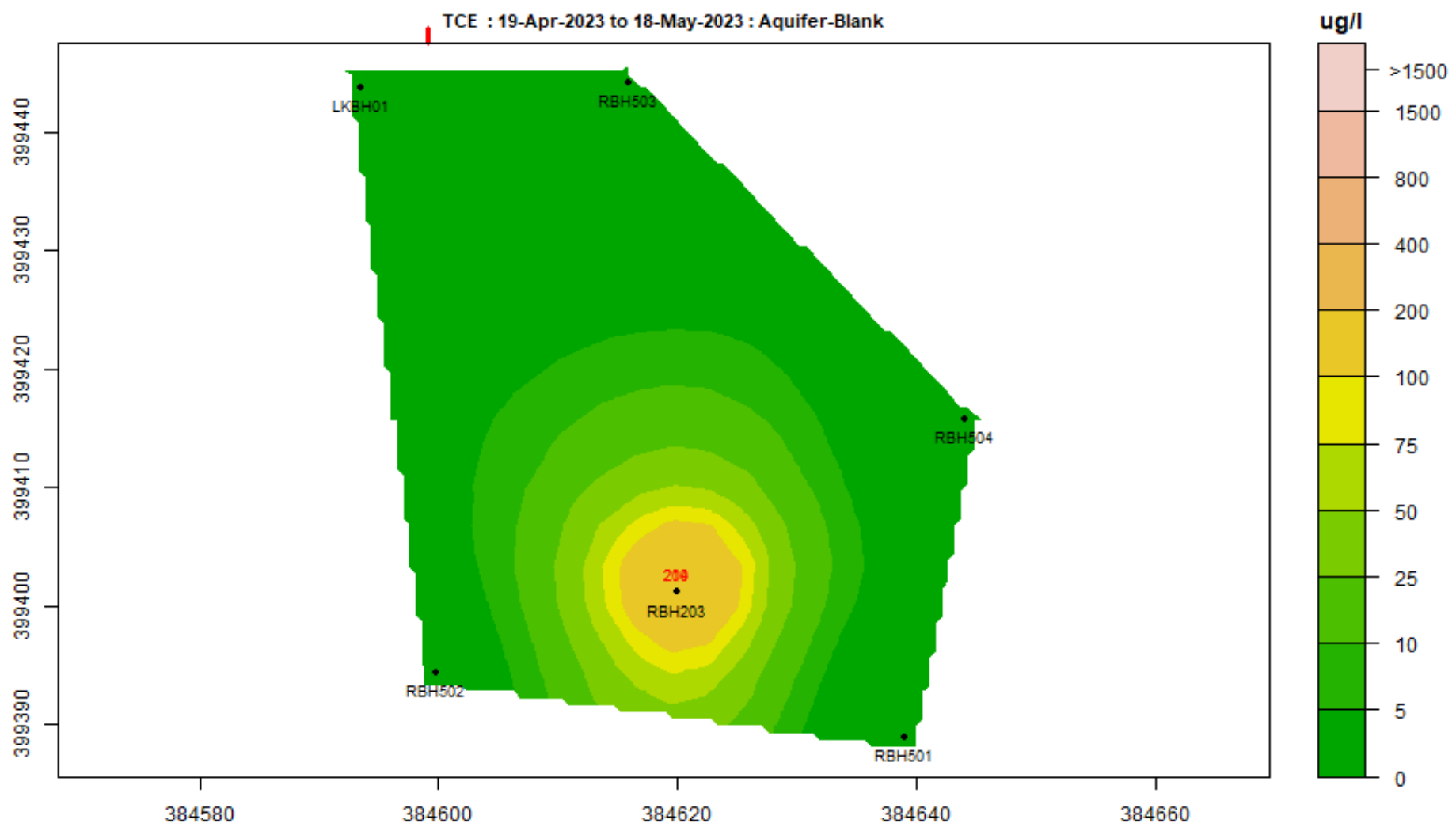
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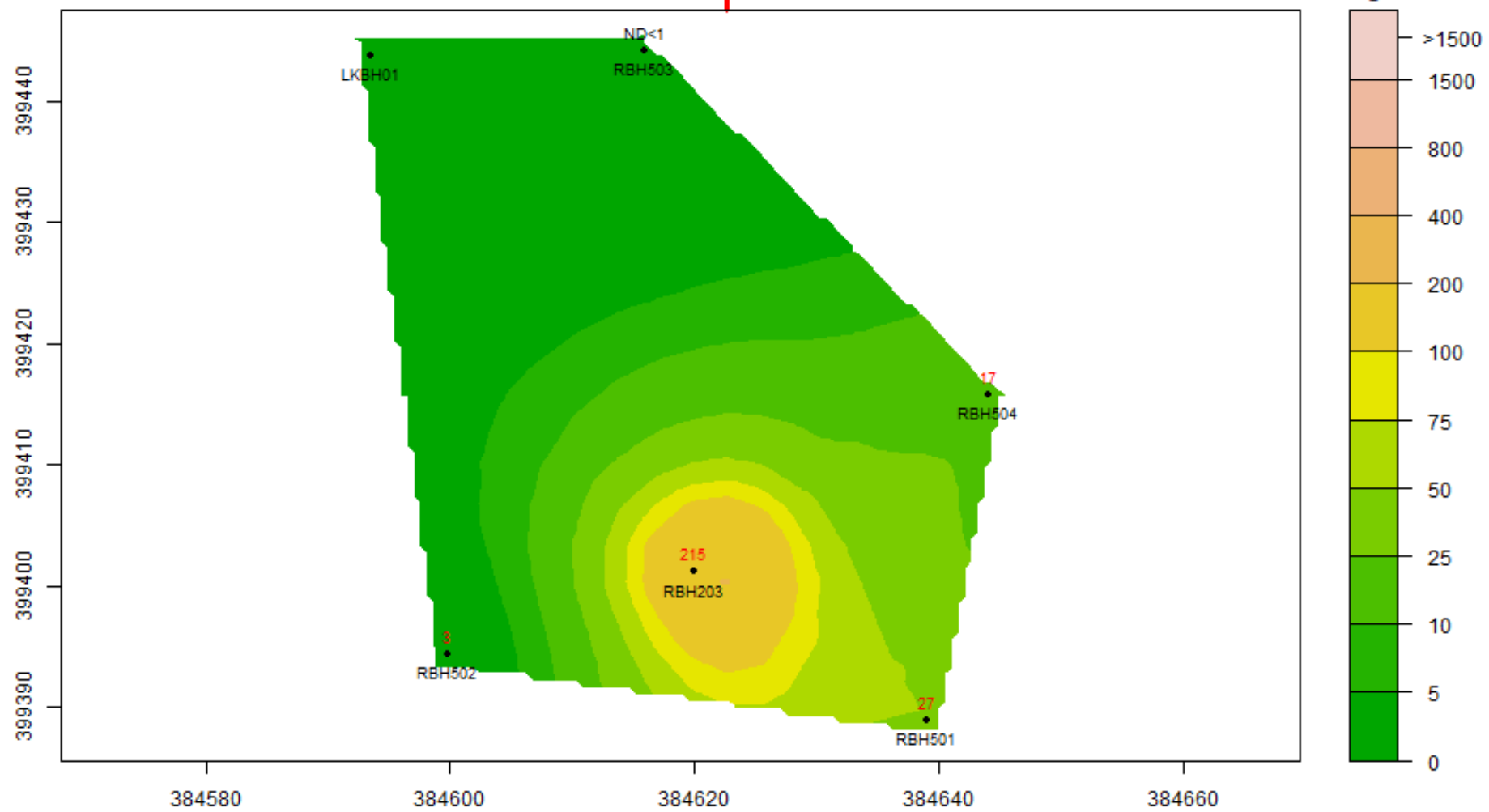
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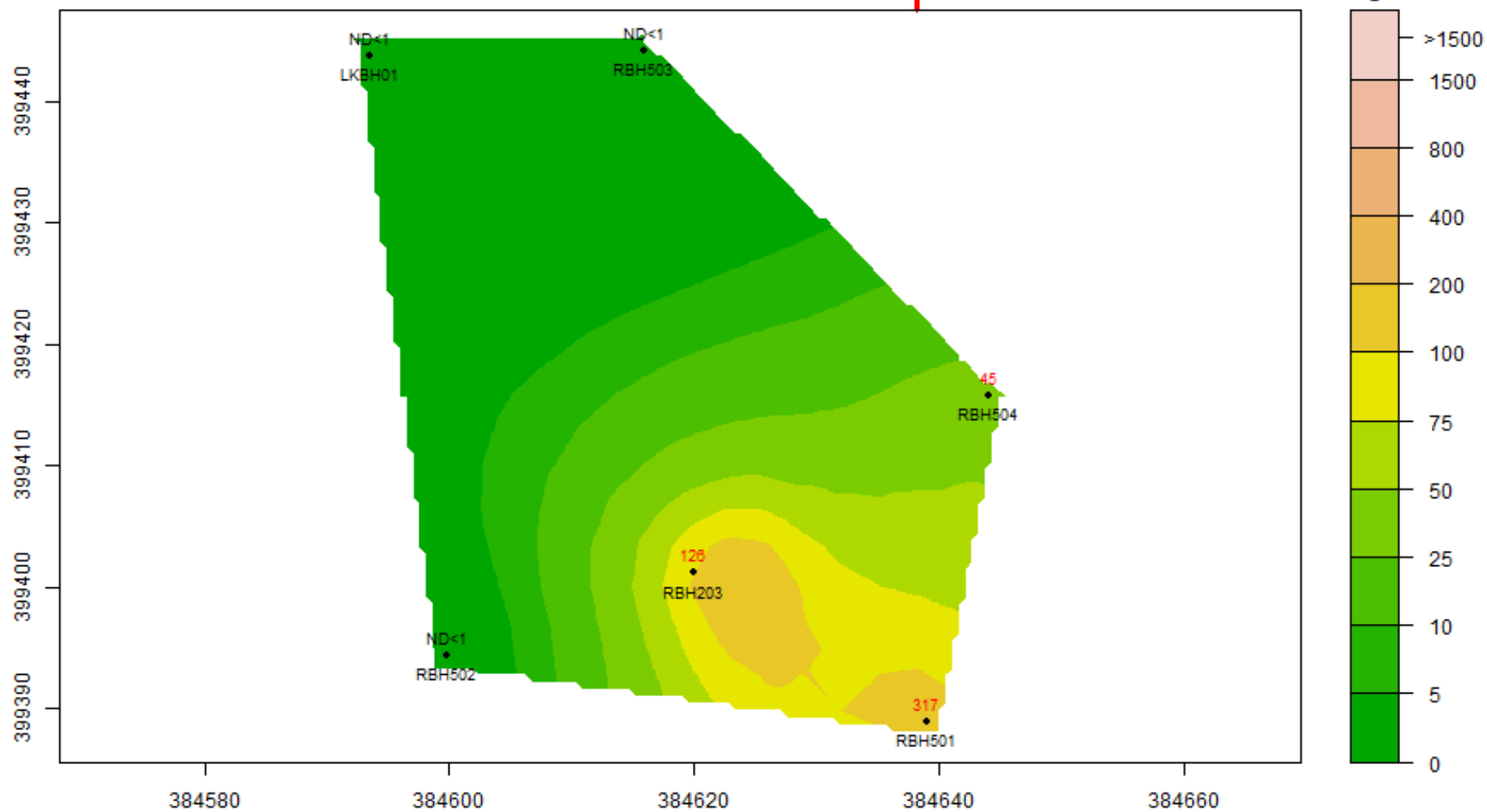




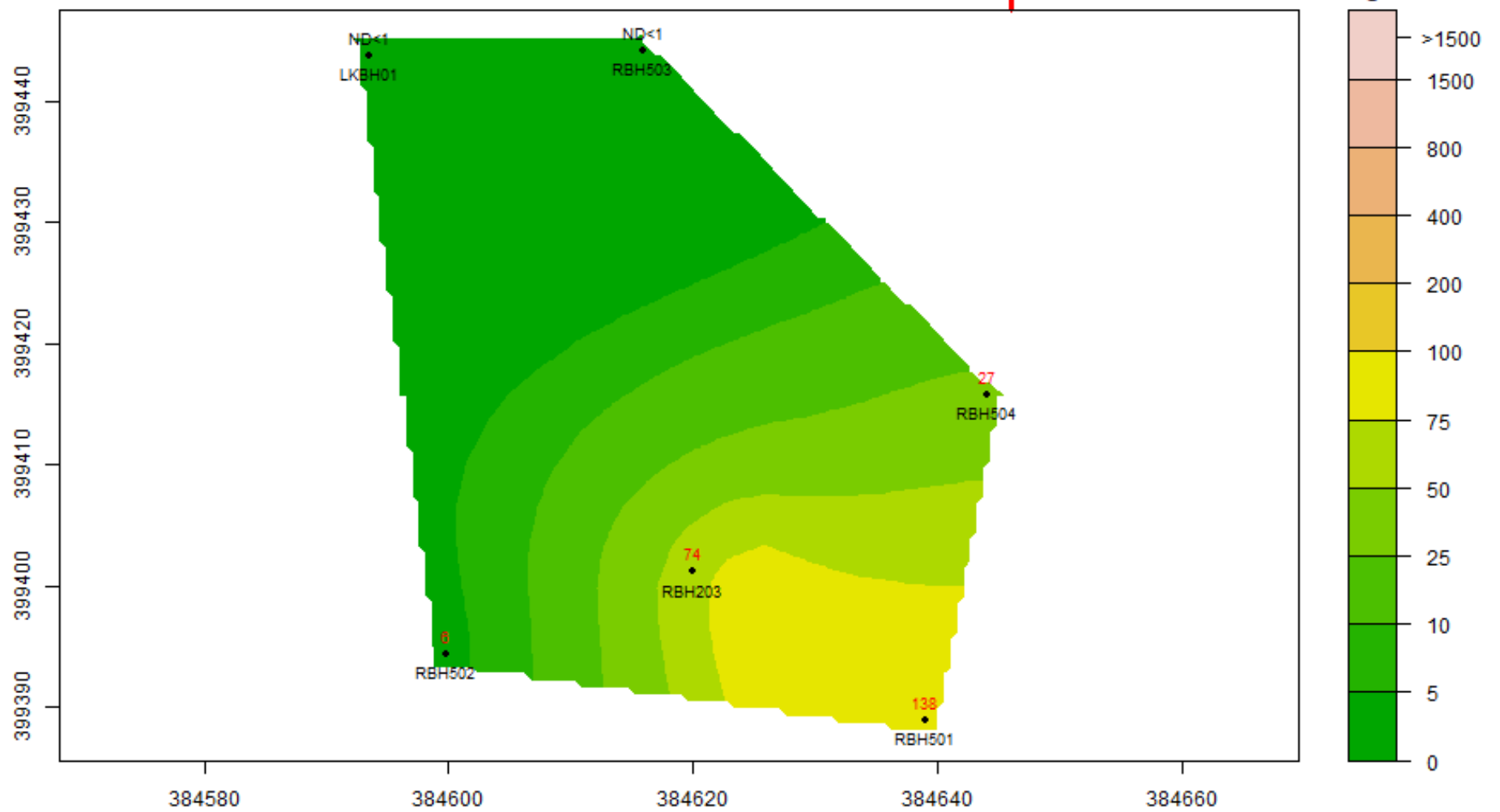
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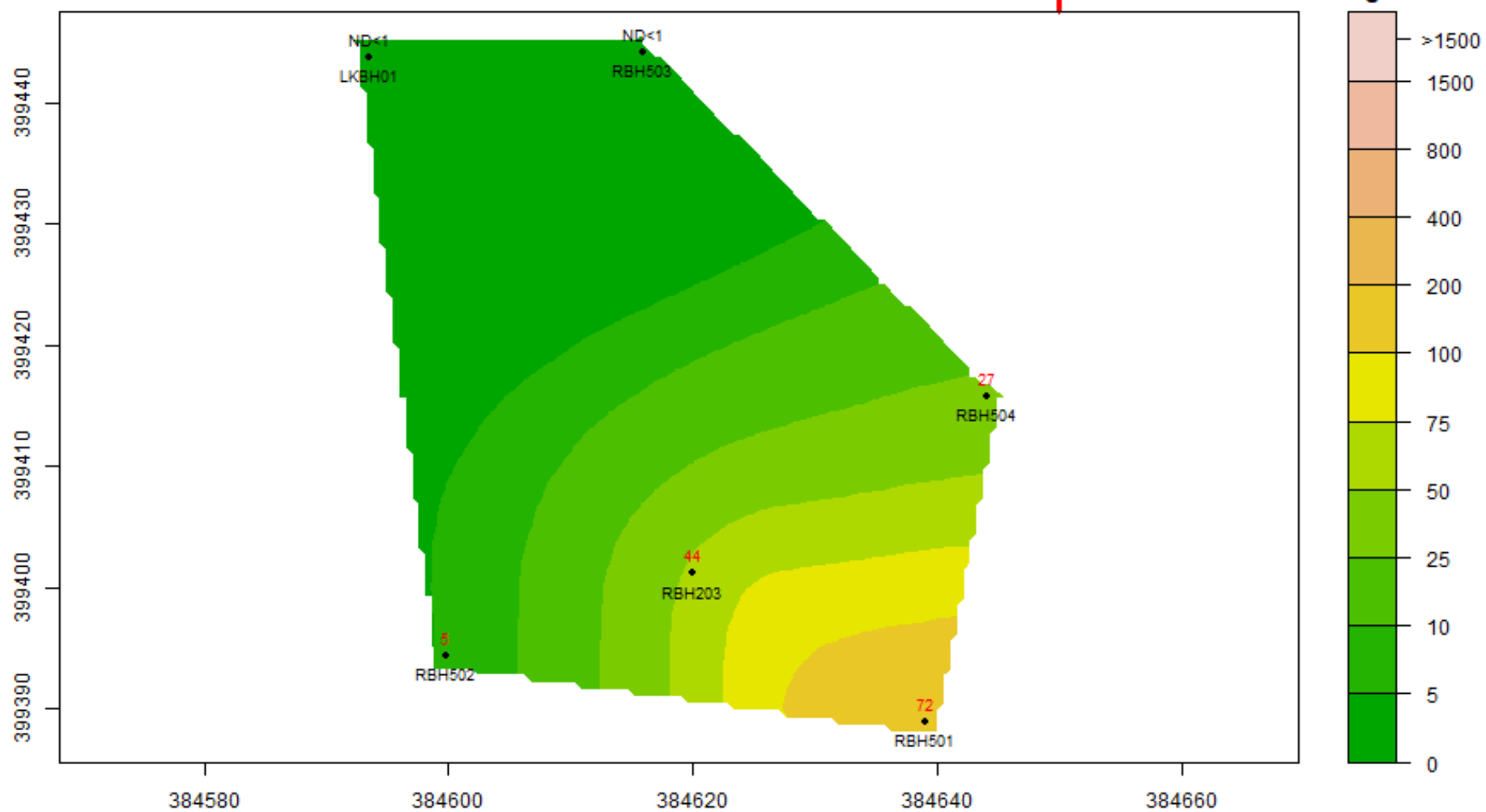
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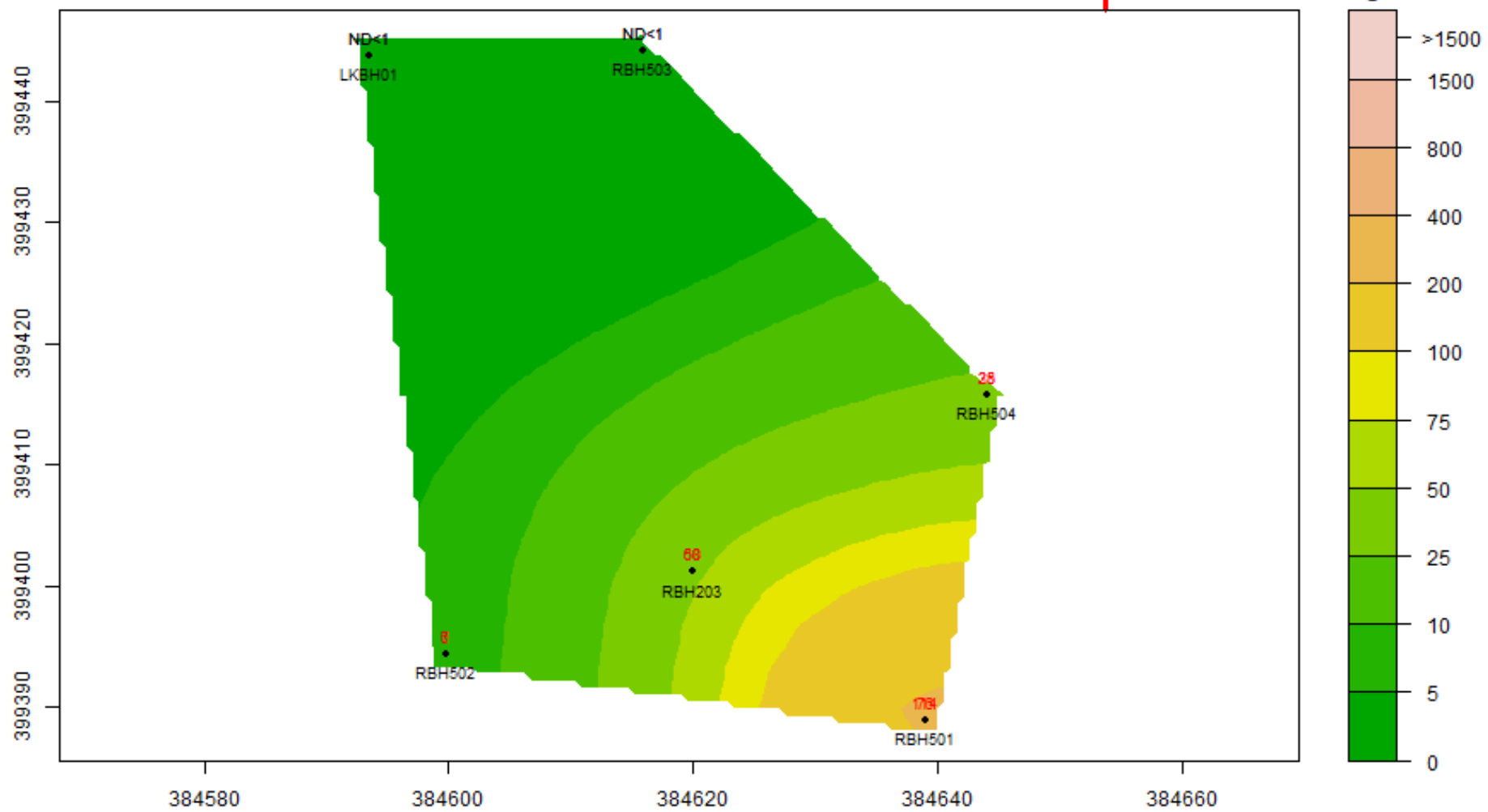
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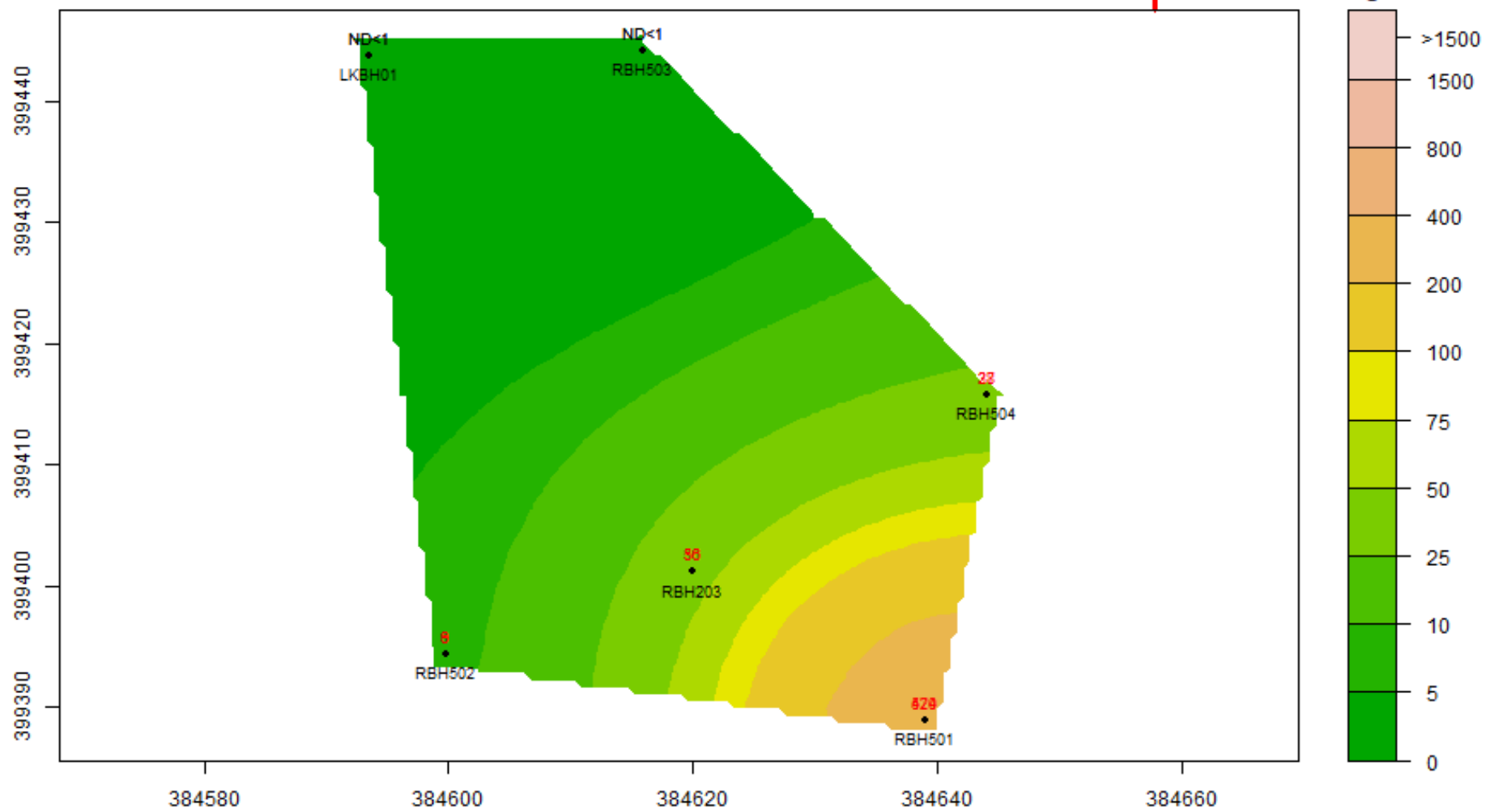
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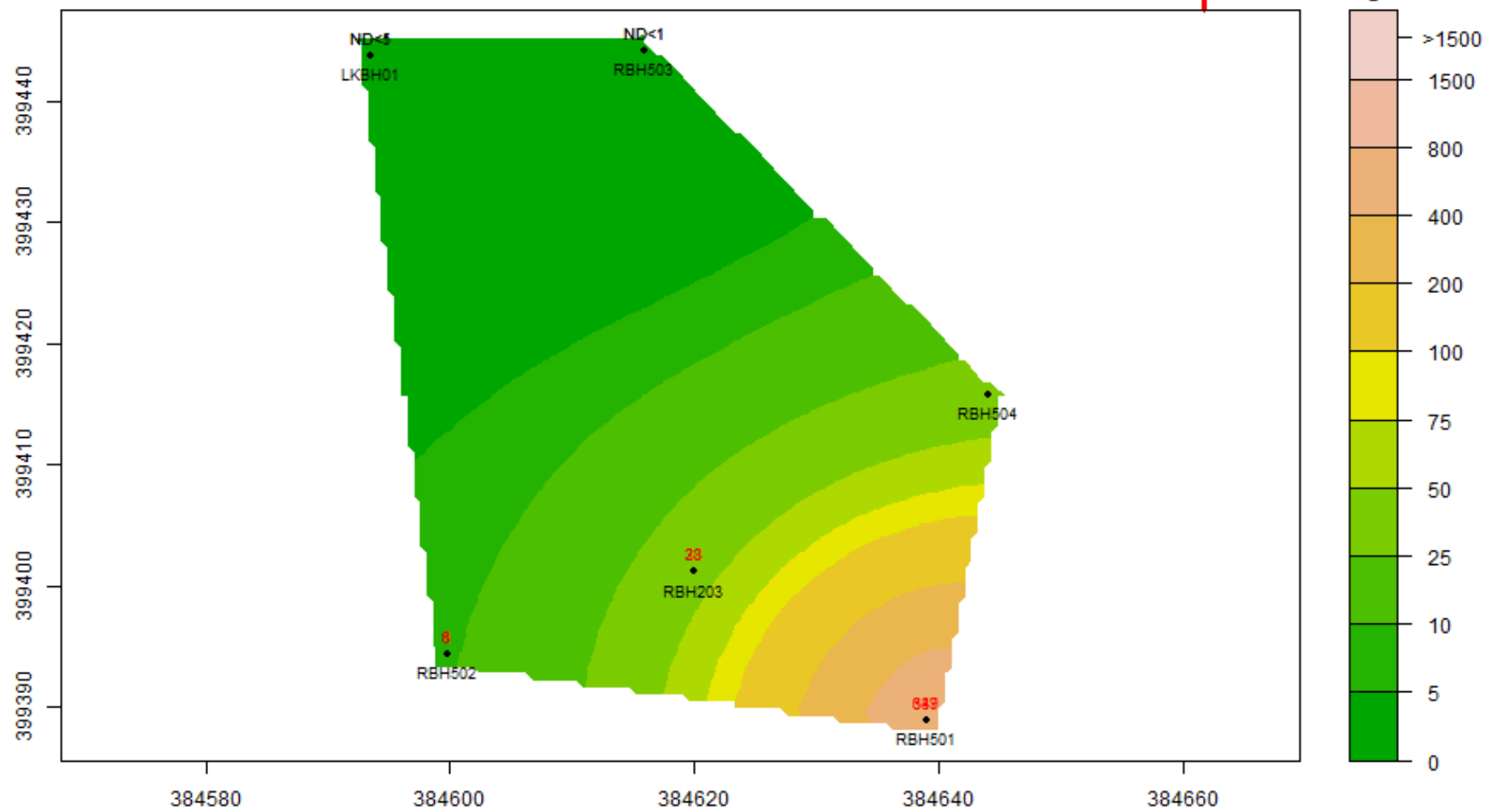
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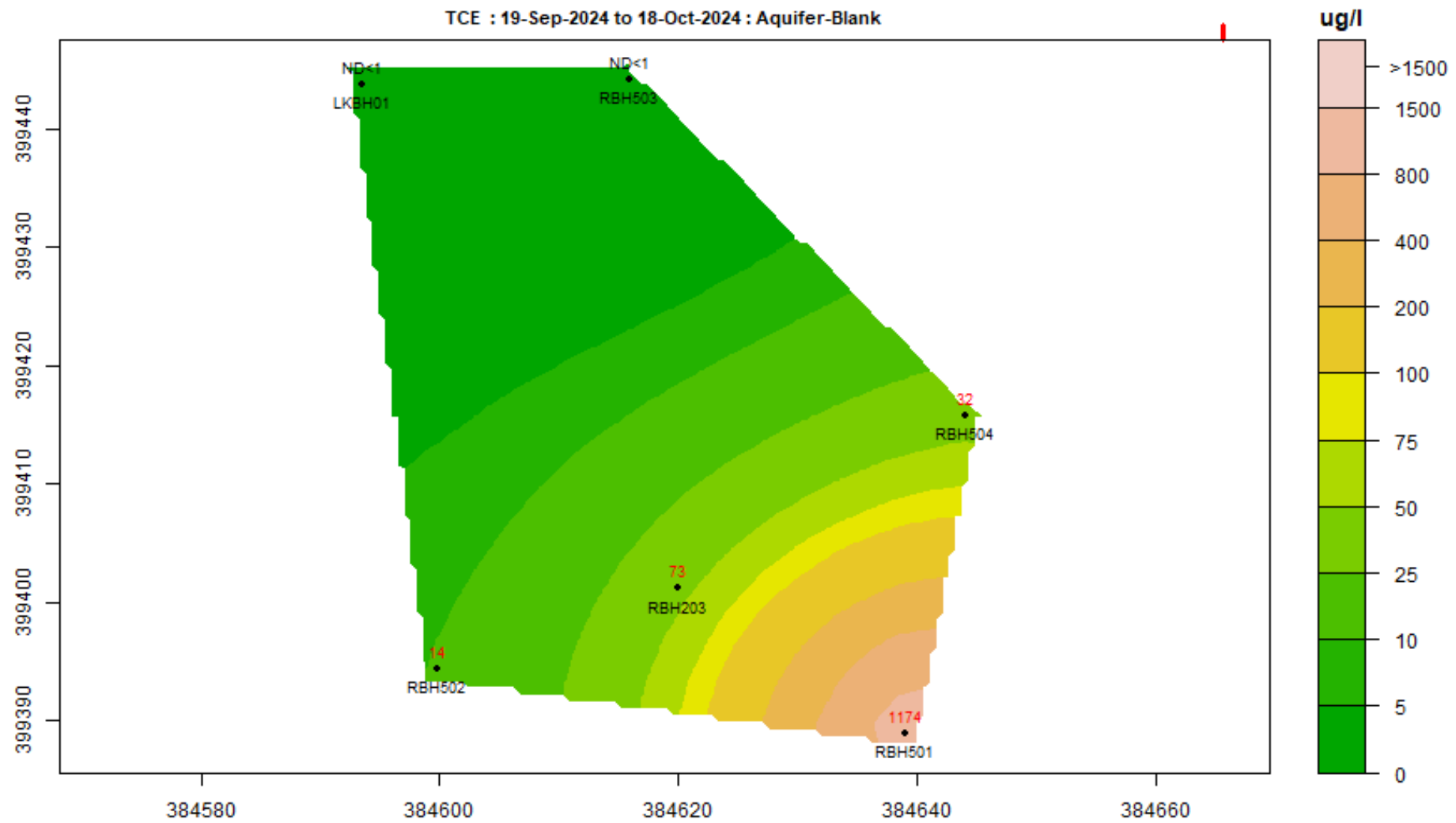
TCE : 19-Jul-2024 to 18-Aug-2024 : Aquifer-Blank



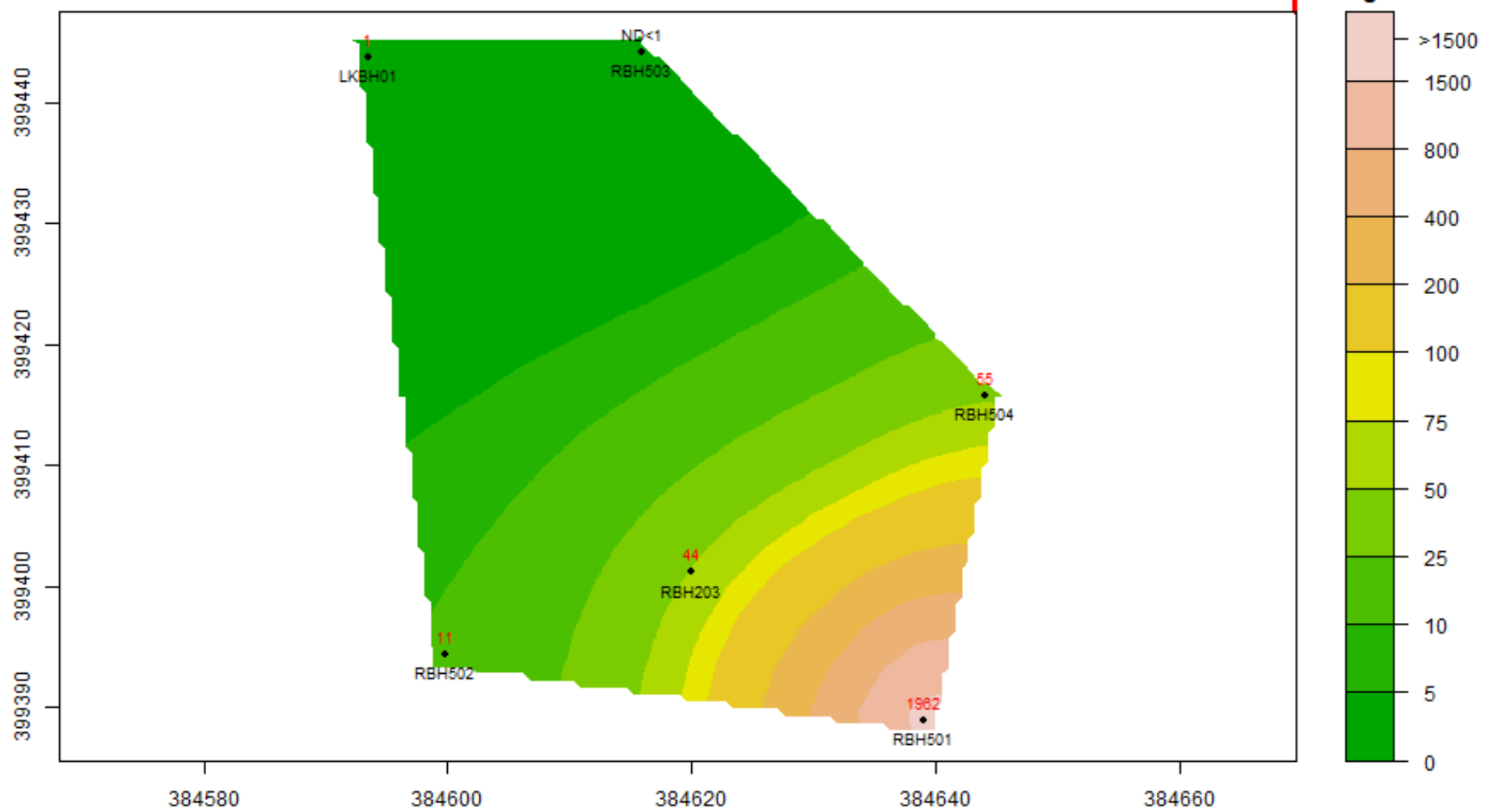
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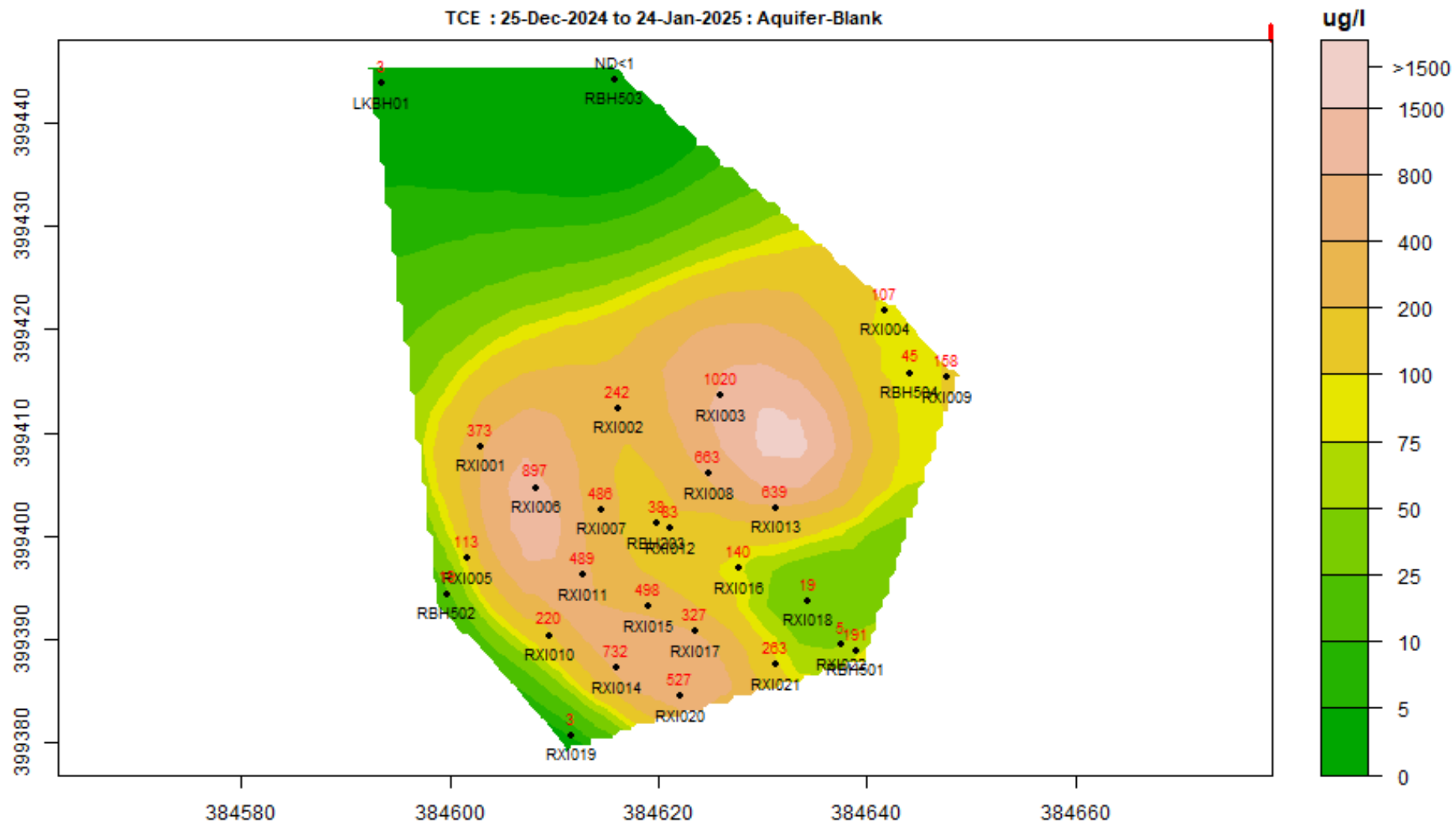
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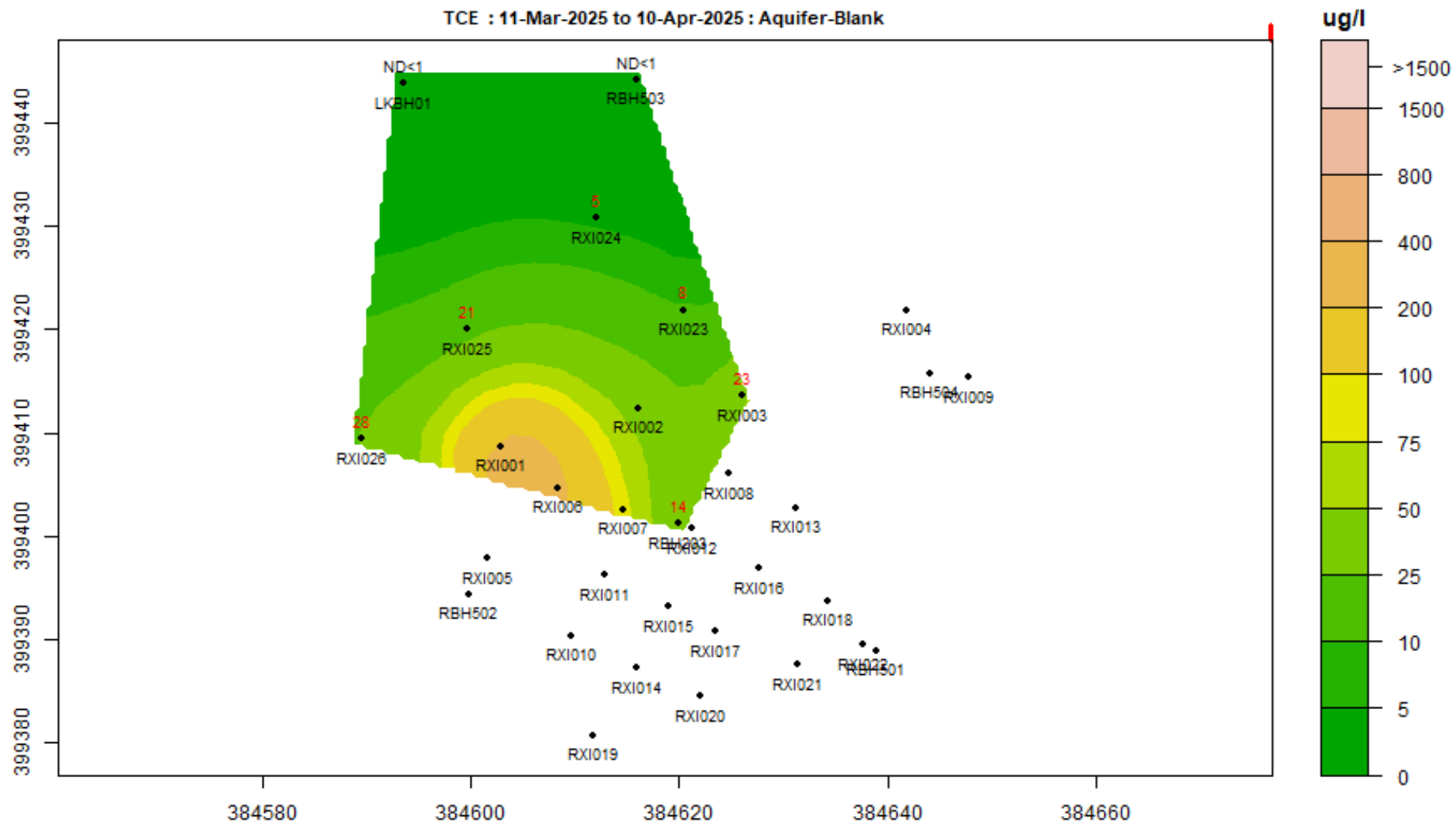
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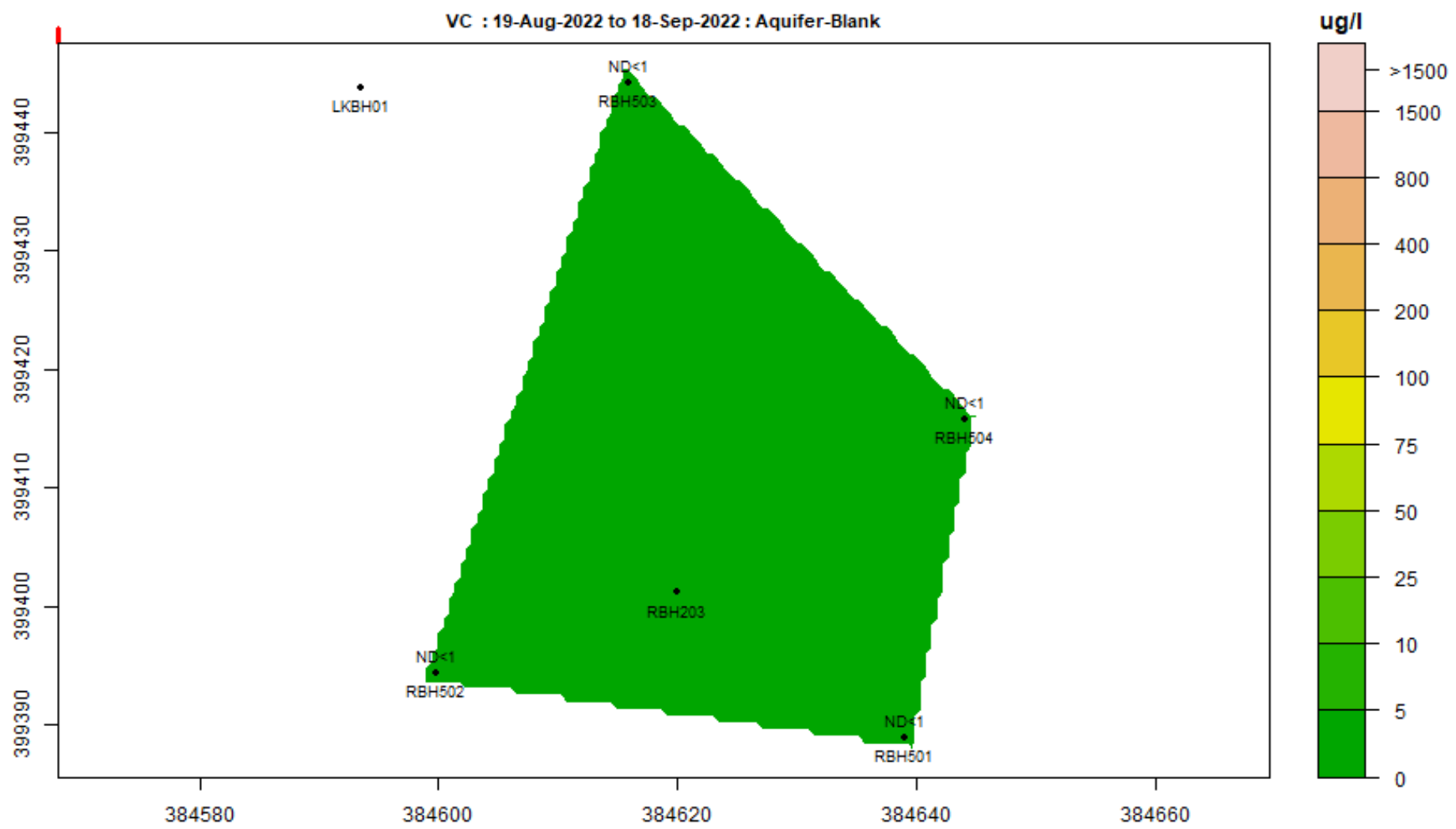


TCE : 25-Dec-2024 to 24-Jan-2025 : Aquifer-Blank

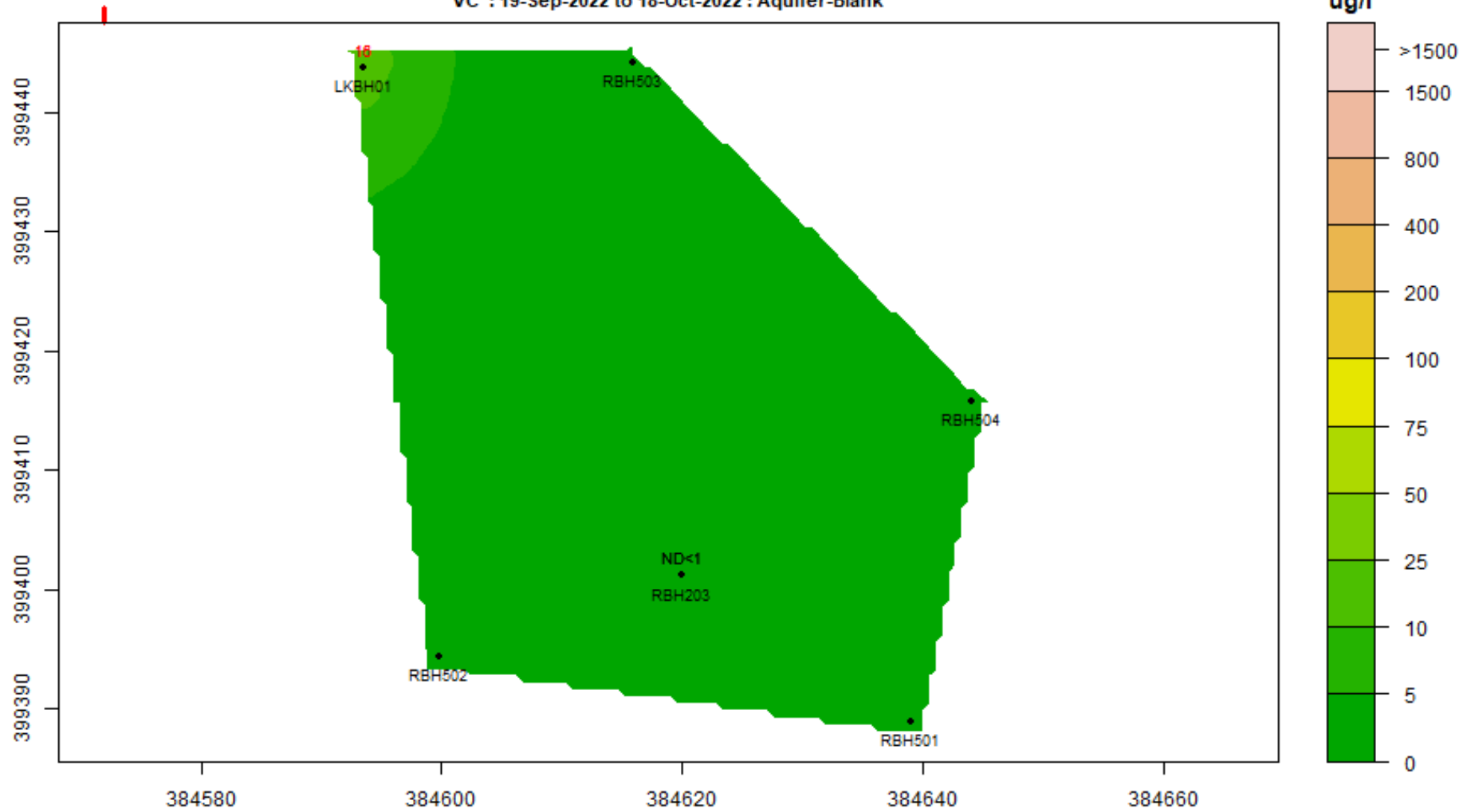


TCE : 11-Mar-2025 to 10-Apr-2025 : Aquifer-Blank

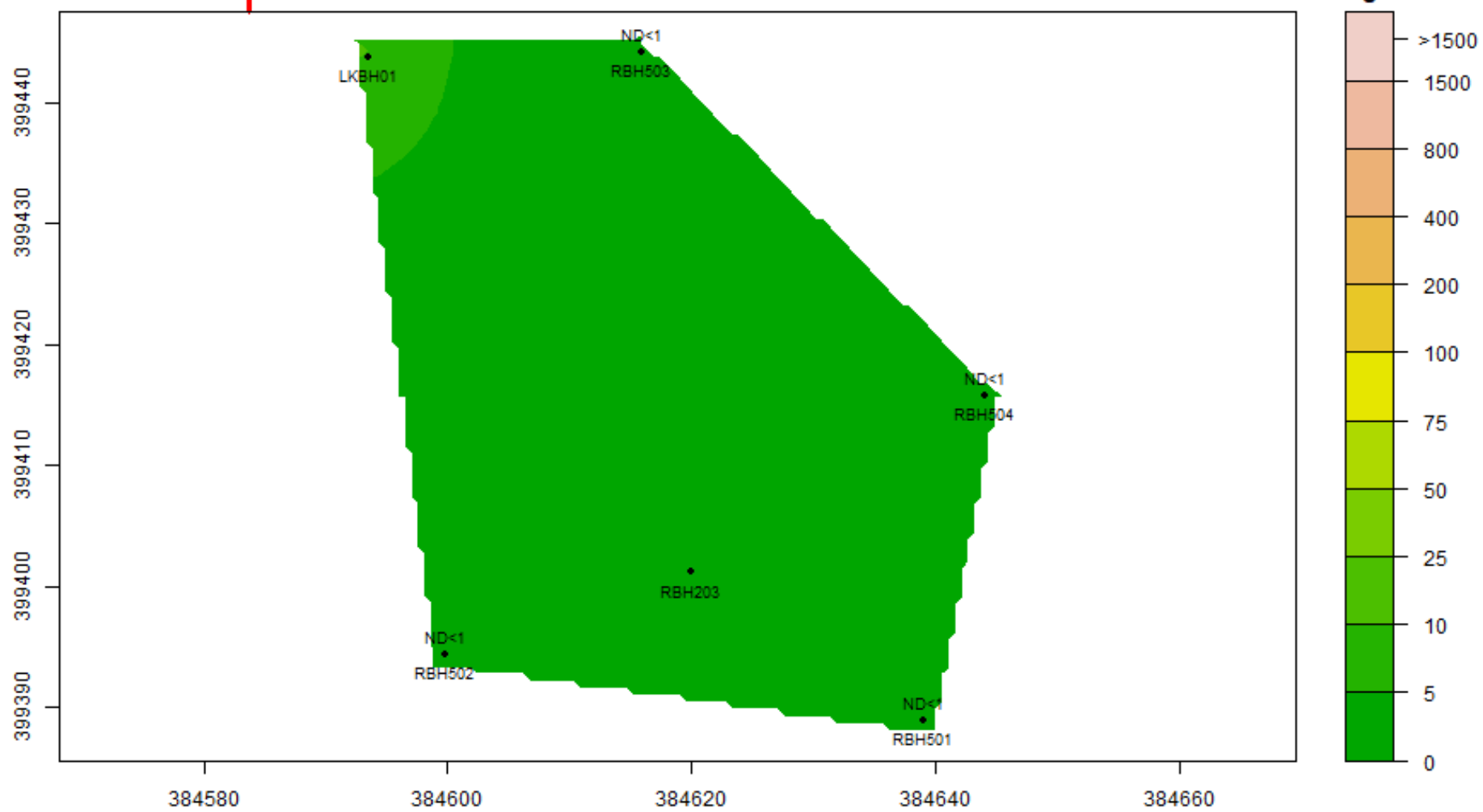




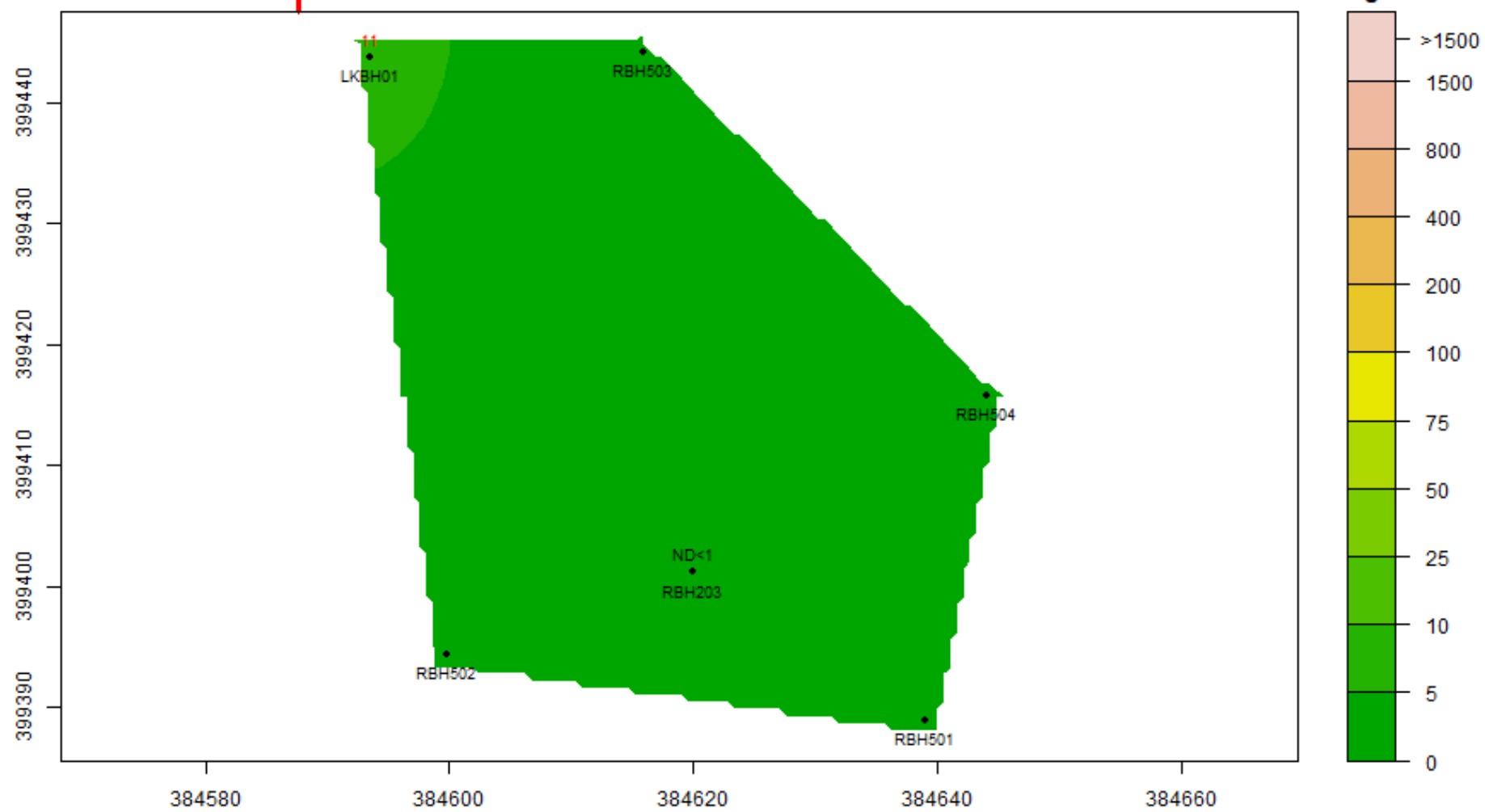
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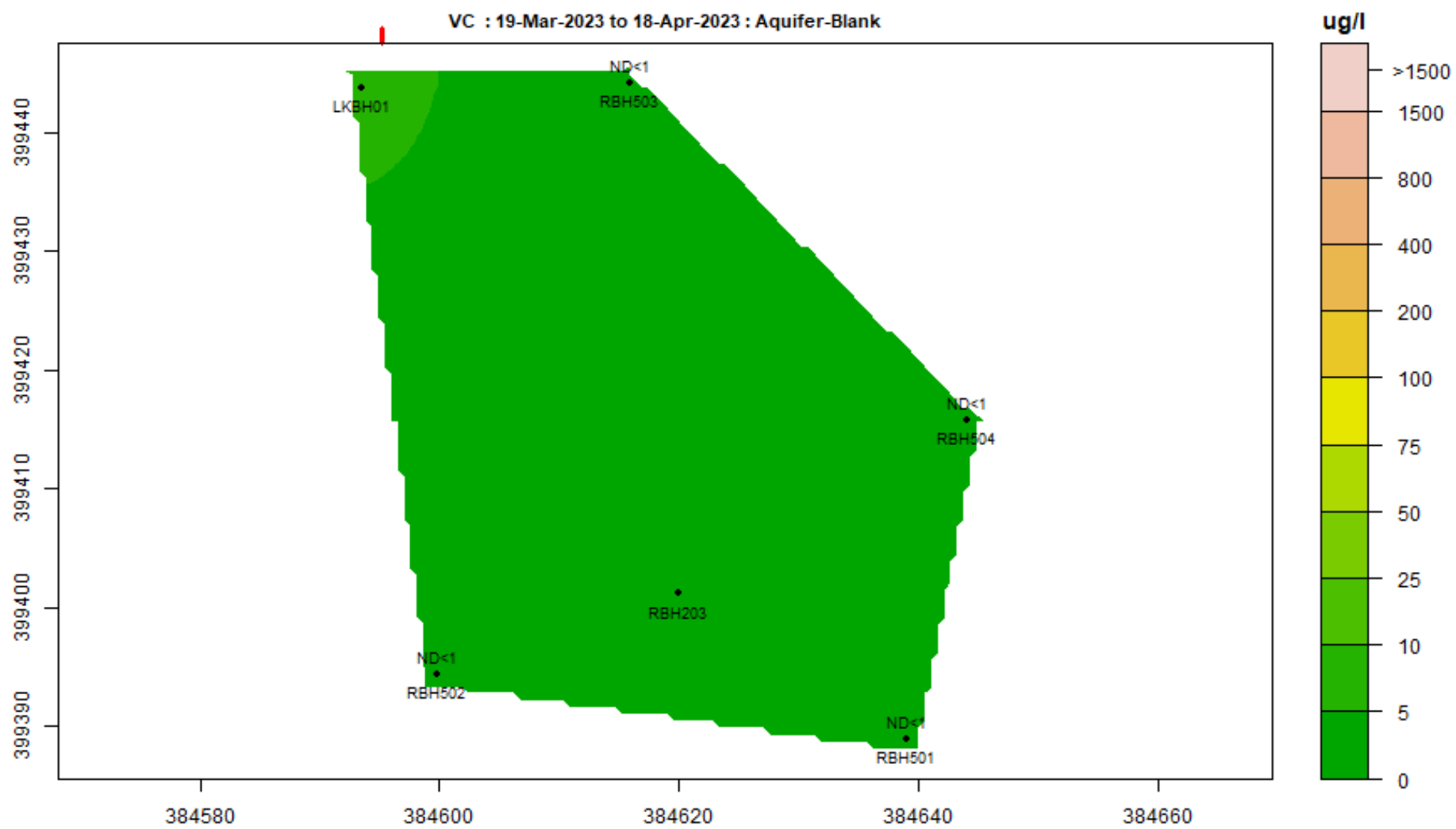


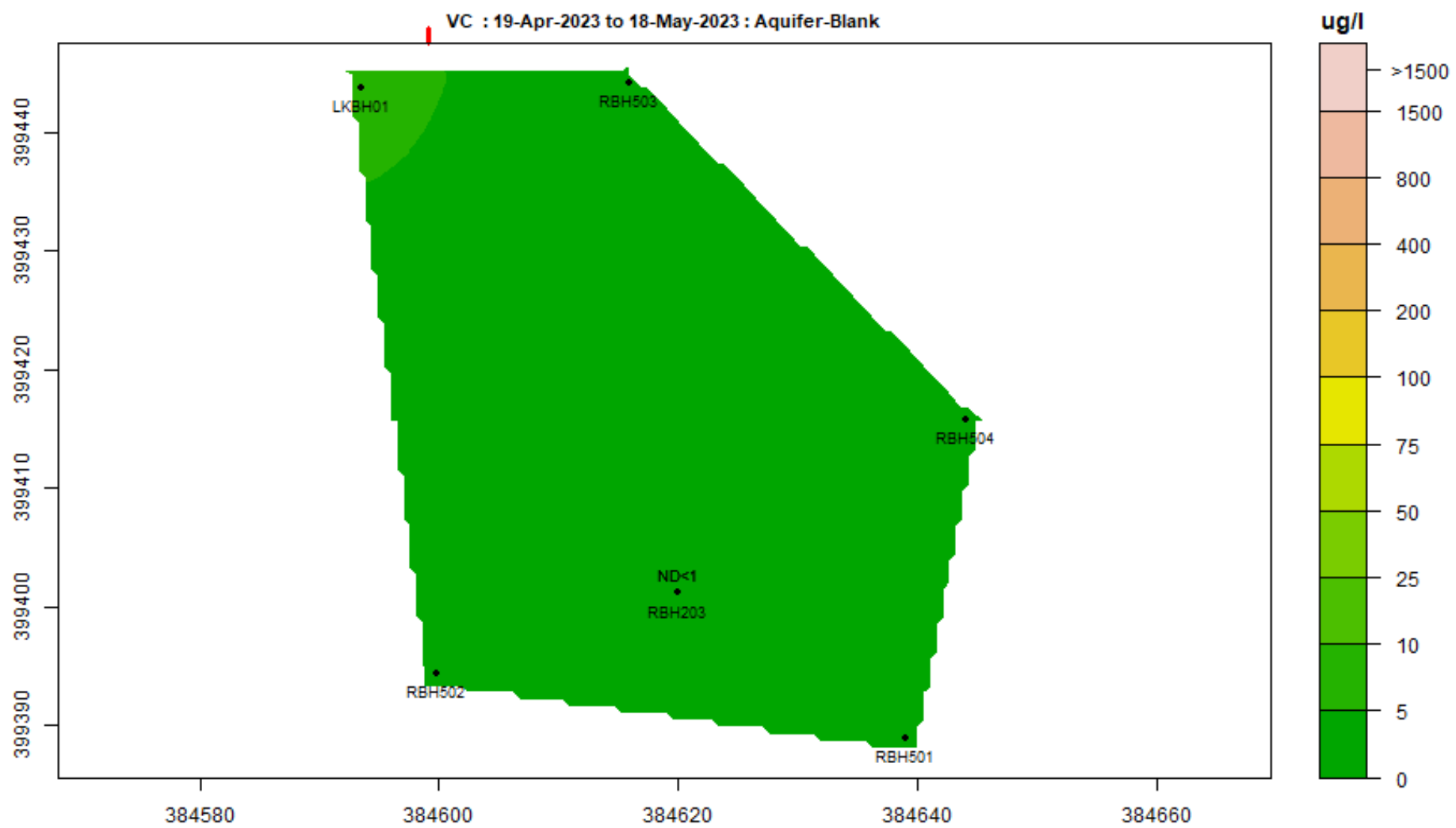
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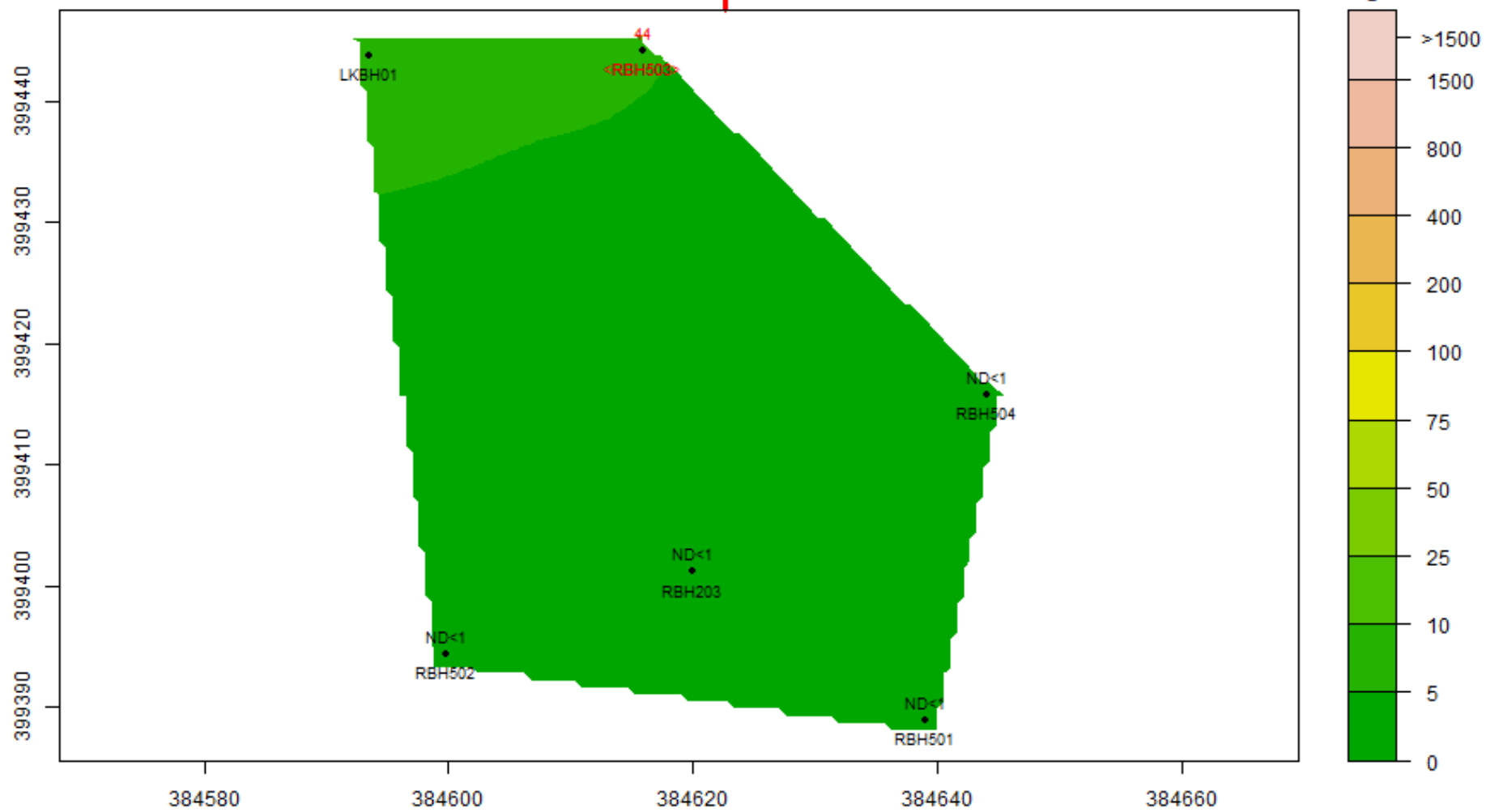
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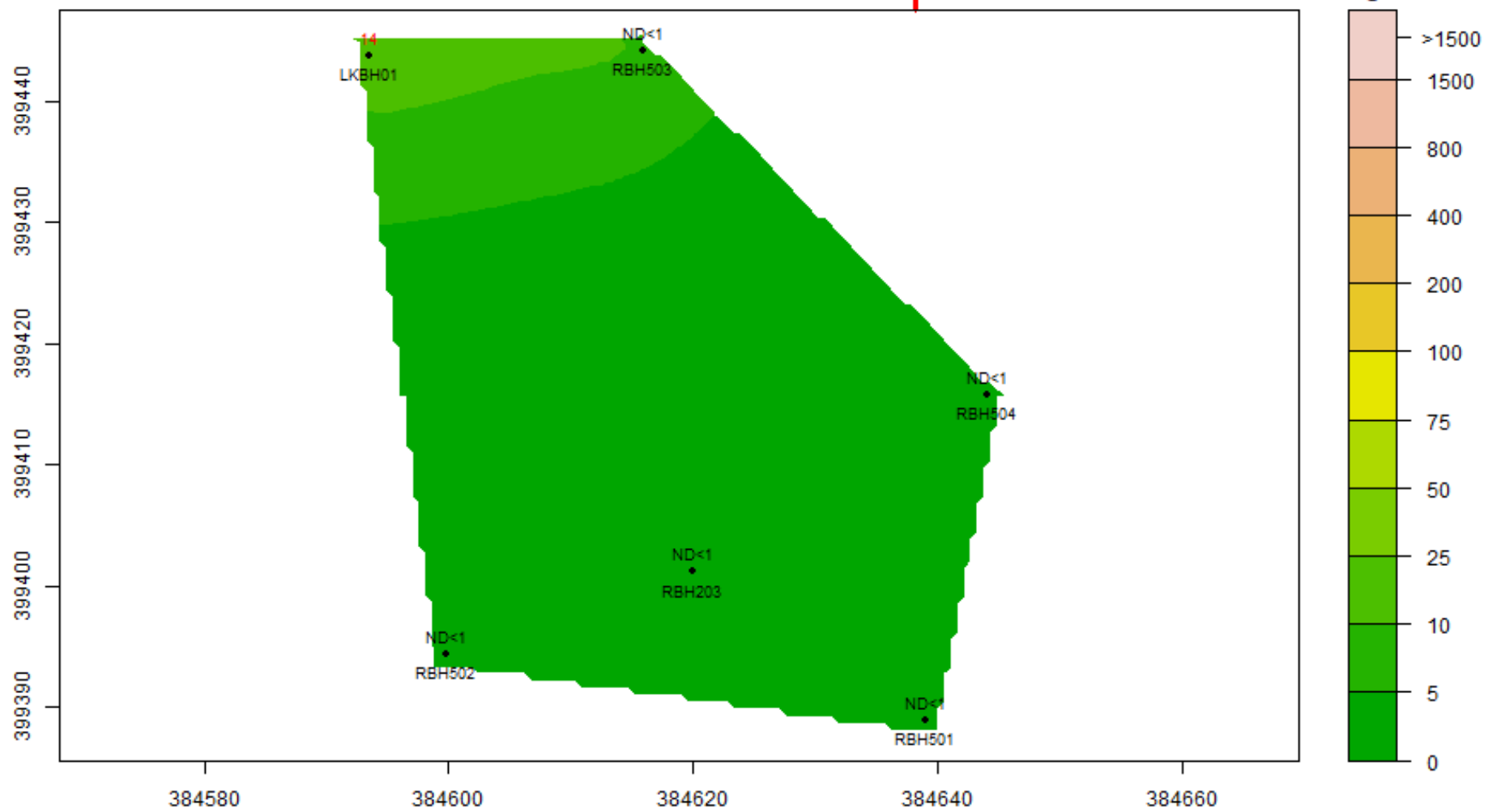




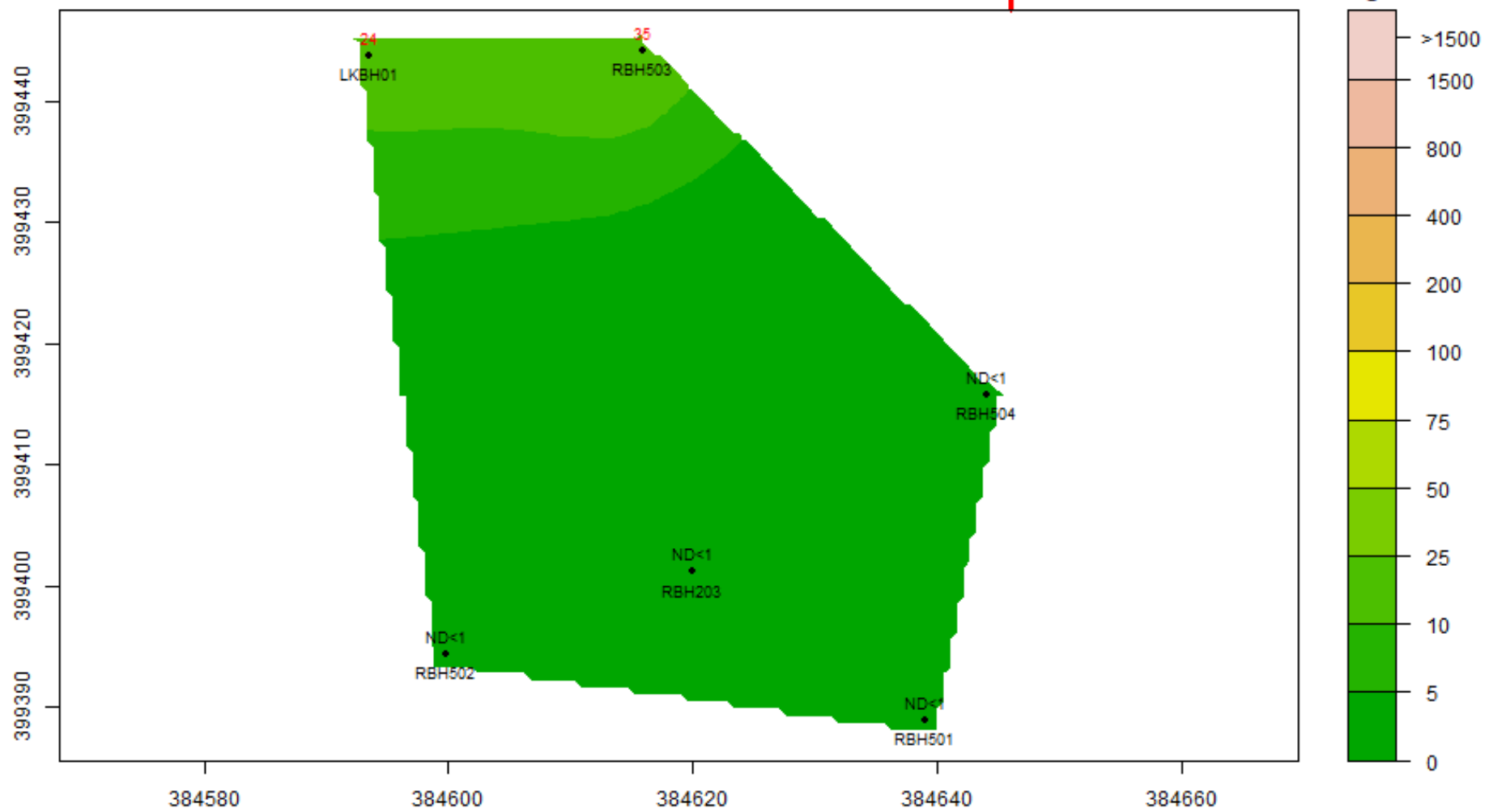
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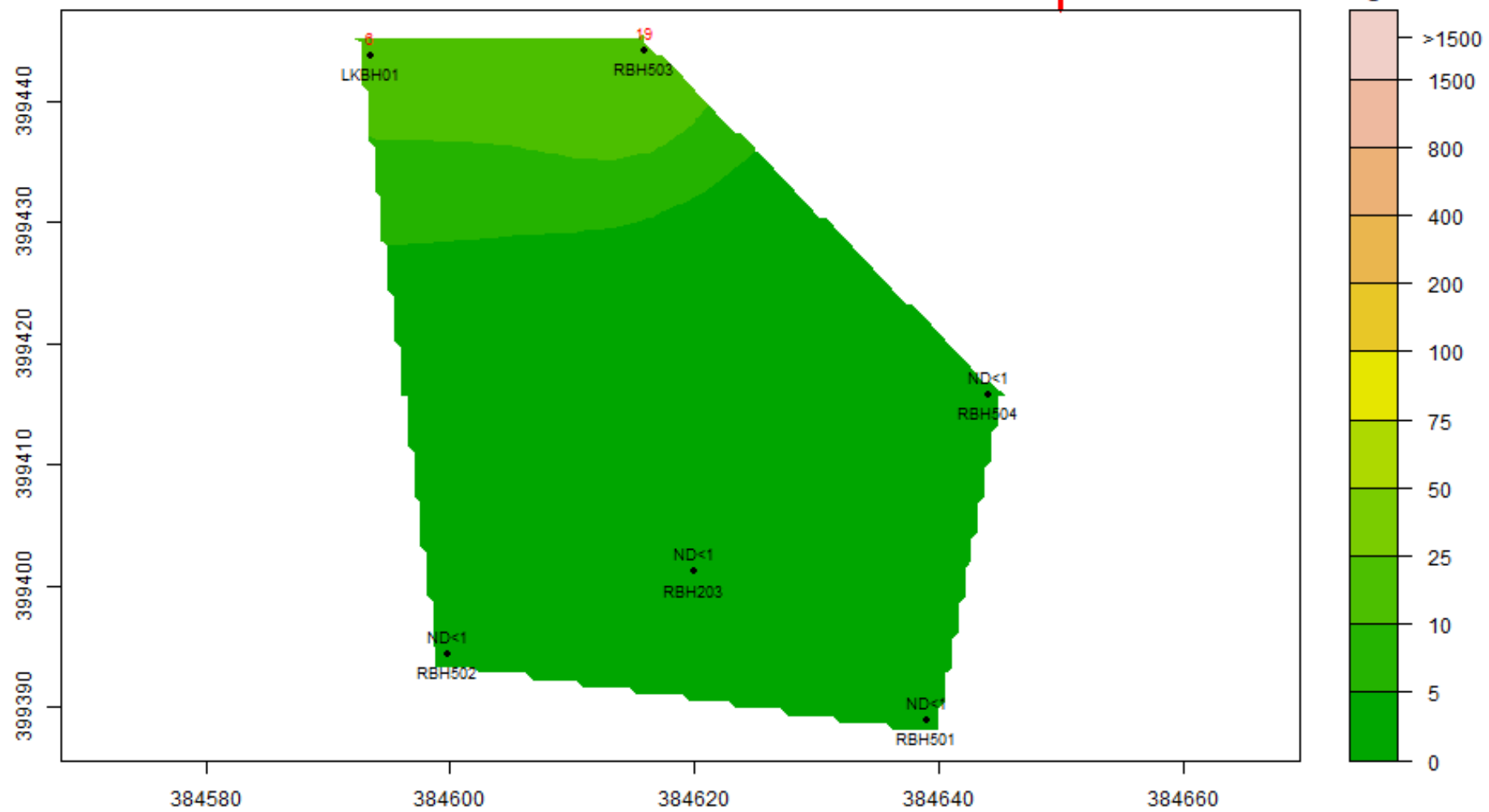
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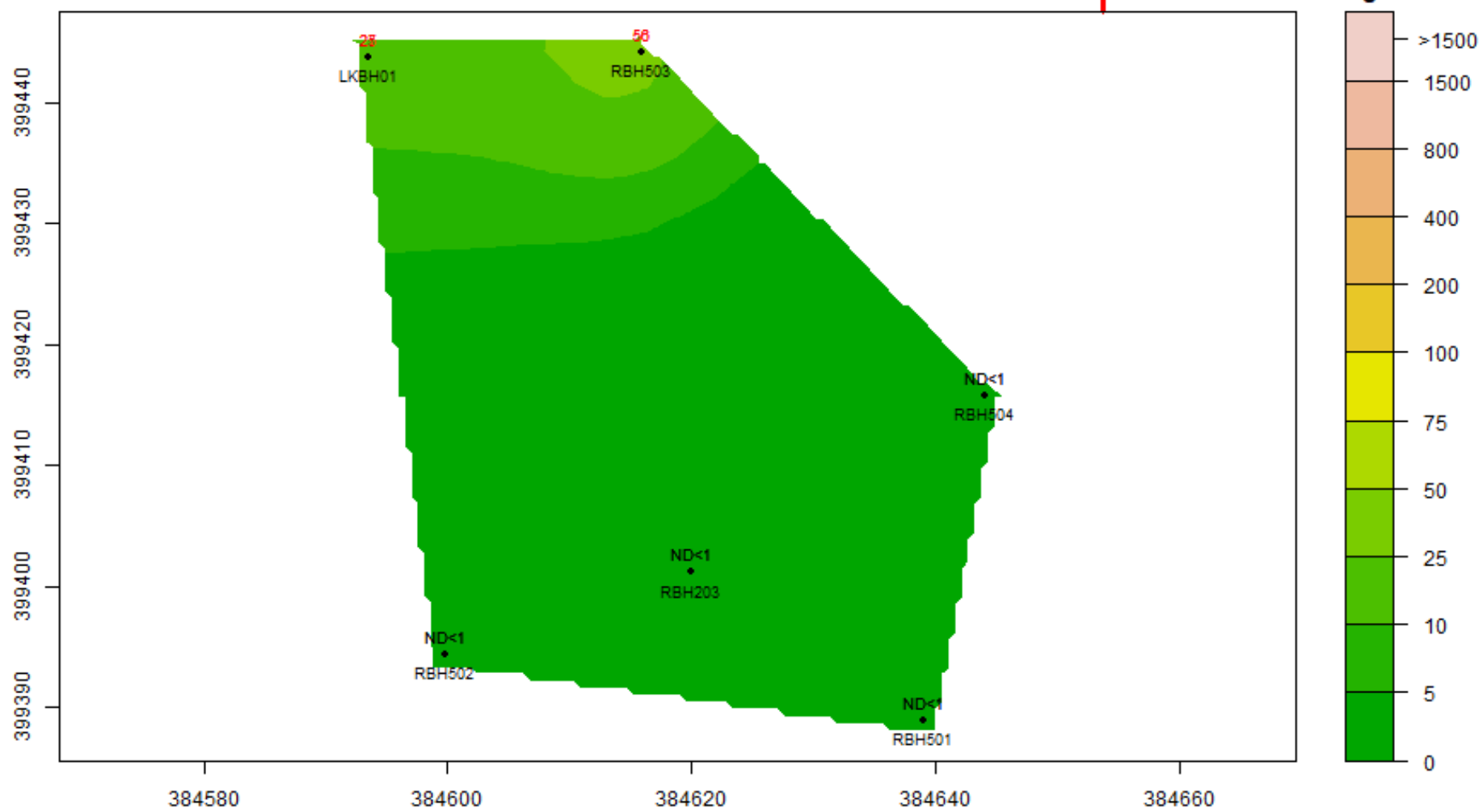
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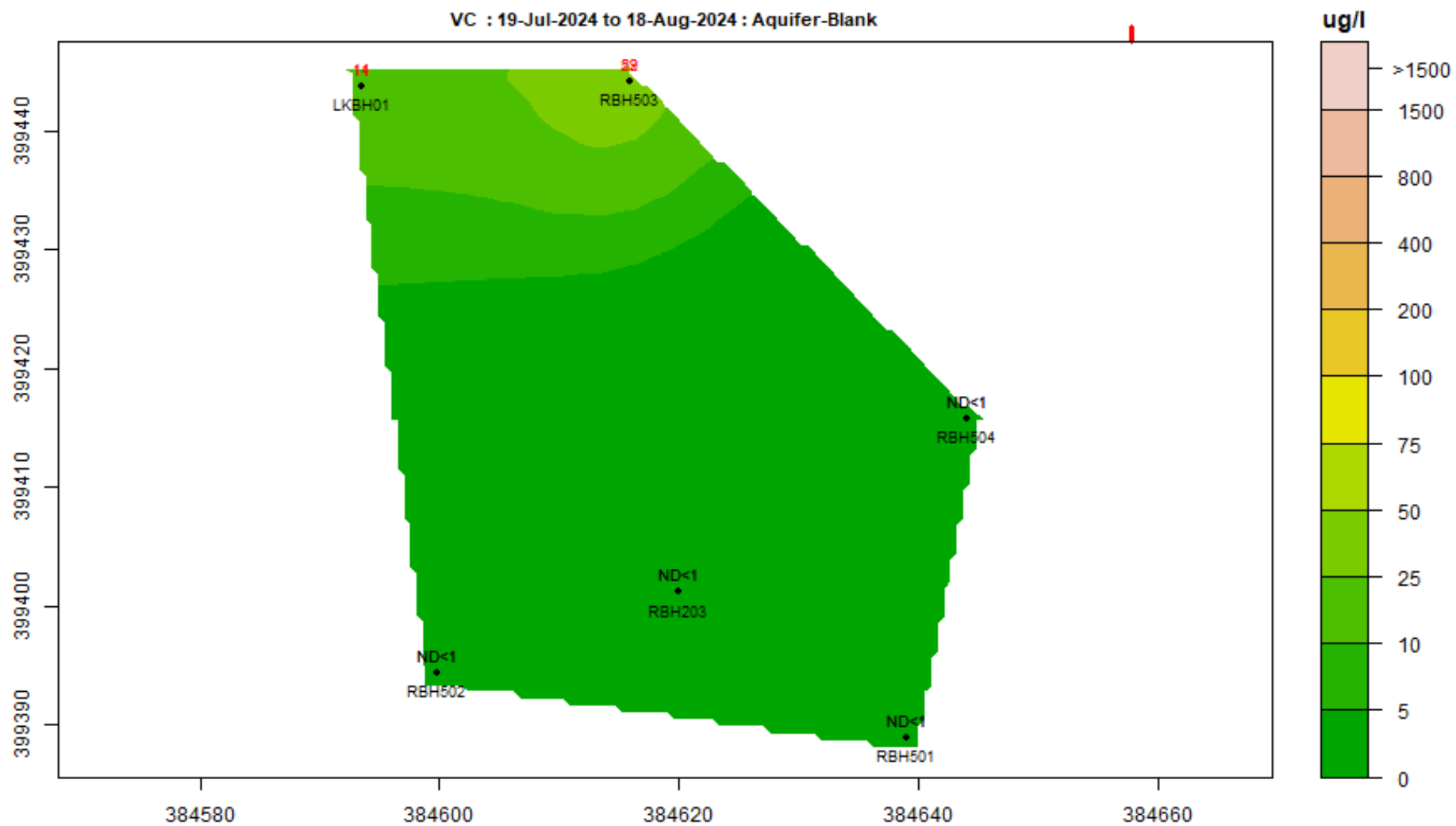
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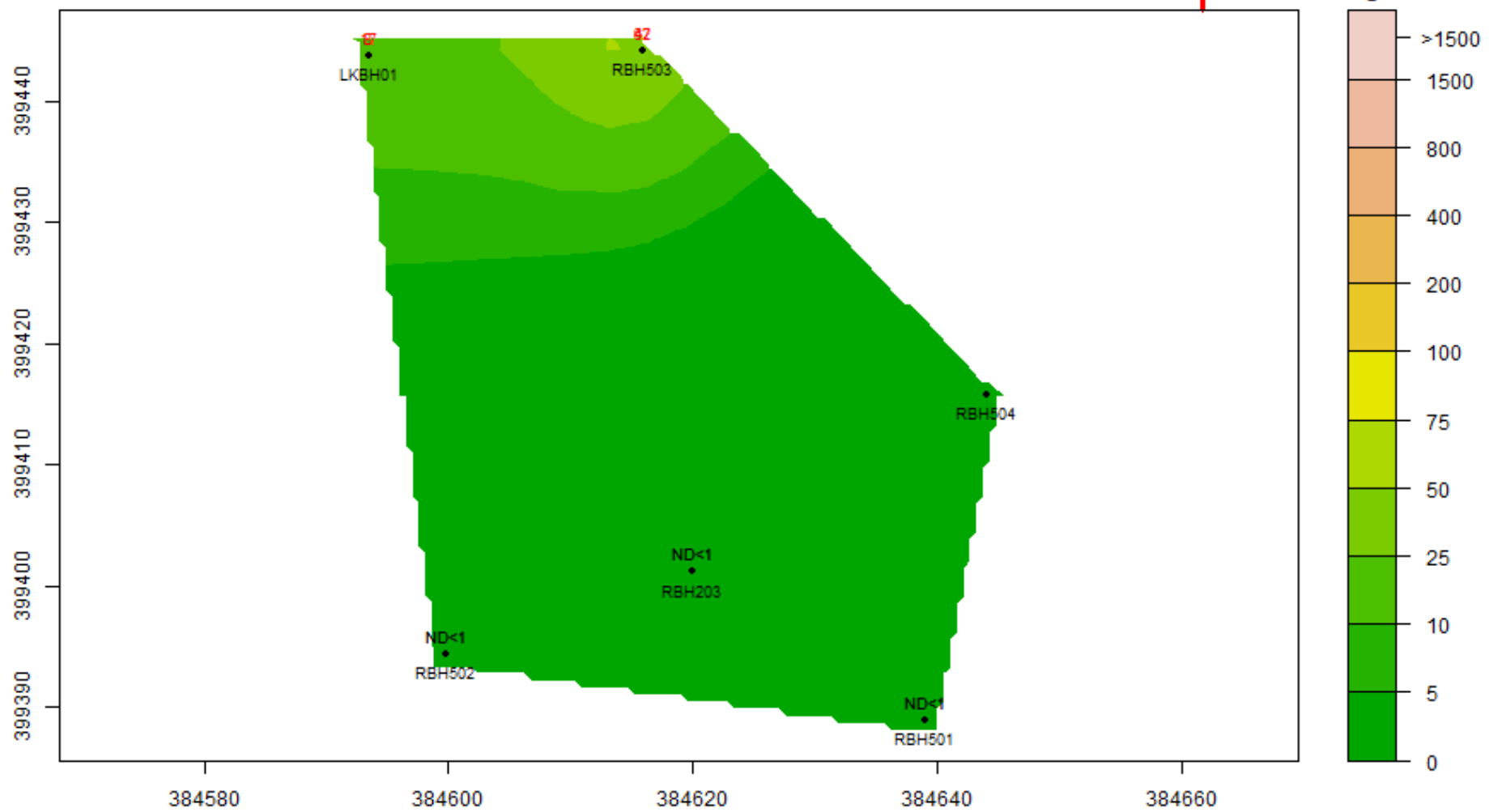
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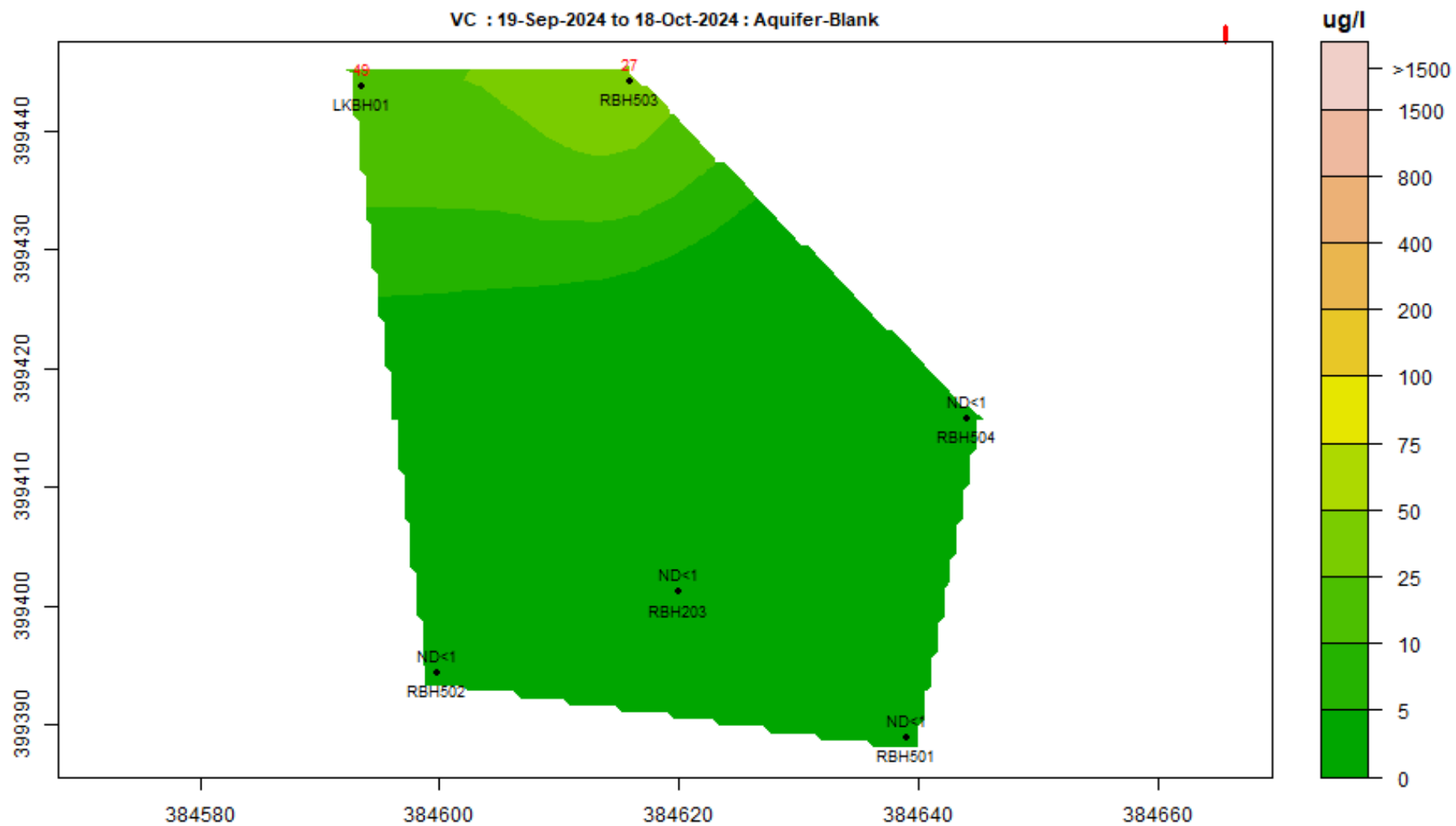
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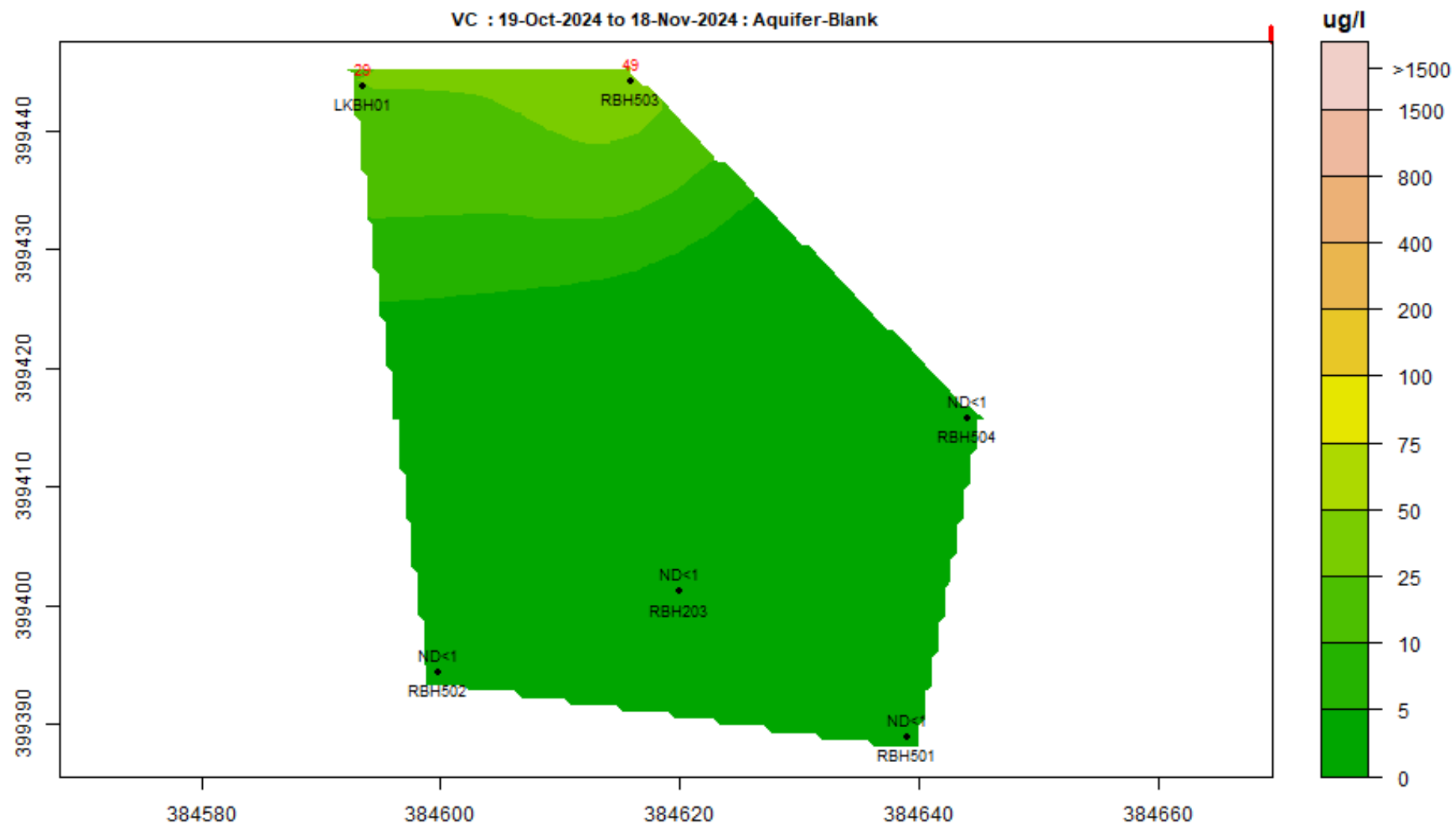
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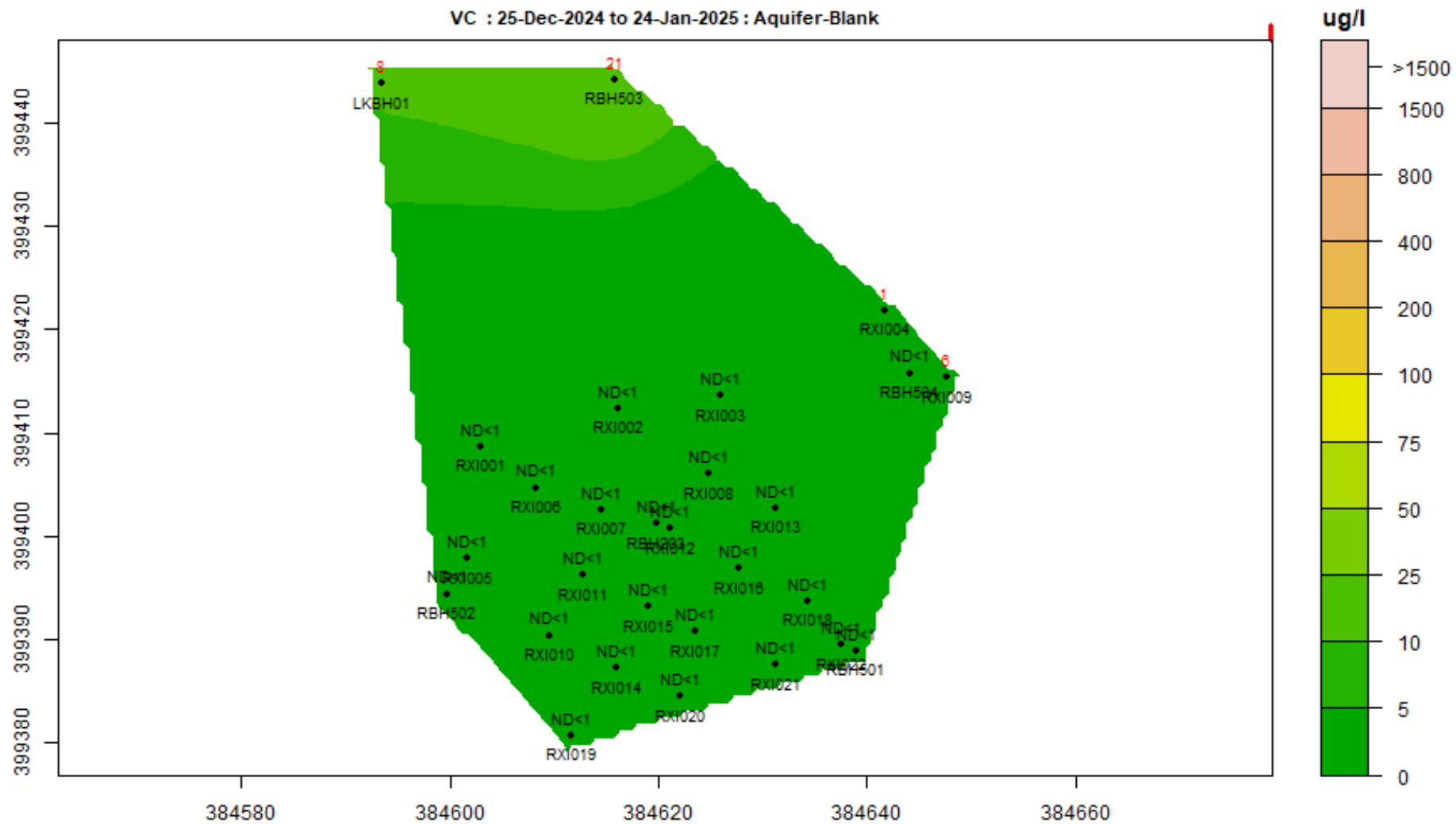
VC : 19-Sep-2024 to 18-Oct-2024 : Aquifer-Blank



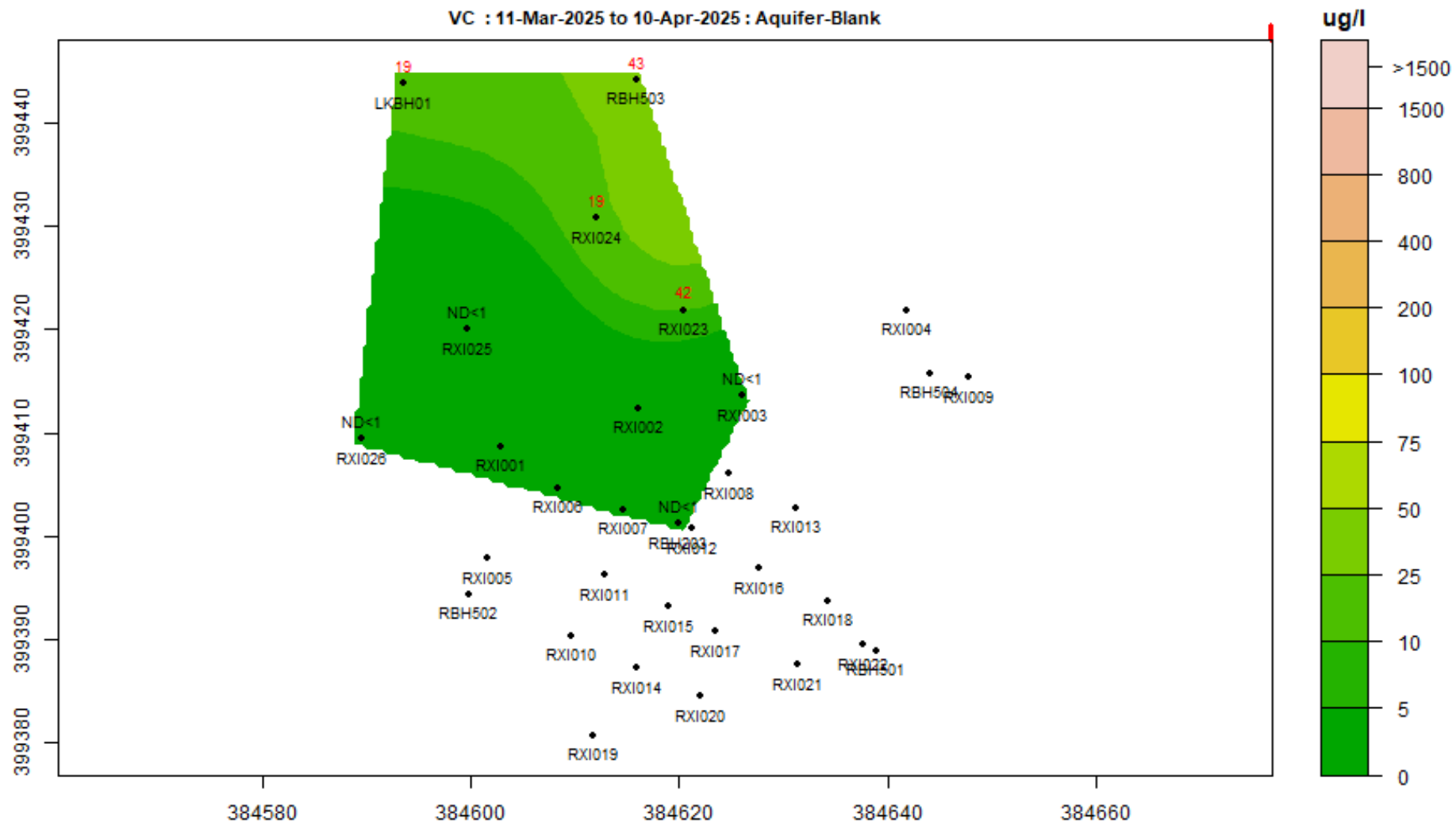
VC : 19-Oct-2024 to 18-Nov-2024 : Aquifer-Blank



VC : 25-Dec-2024 to 24-Jan-2025 : Aquifer-Blank



VC : 11-Mar-2025 to 10-Apr-2025 : Aquifer-Blank



APPENDIX H

Sample Name Sample Date	A231101 BH503 18/10/2024	A231101 BH203 18/10/2024	A231101 LK BH 01 18/10/2024
<i>Reductive Dechlorination</i>	cells/mL	cells/mL	cells/mL
<i>Dehalococcoides</i> (DHC)	5.50E+01	<2.50E-01	4.20E-01
tceA Reductase (TCE)	<9.60E-01	<2.50E-01	<2.50E-01
BAV1 Vinyl Chloride Reductase (BVC)	<9.60E-01	<2.50E-01	3.20E-01
Vinyl Chloride Reductase (VCR)	3.60E+01	<2.50E-01	<2.50E-01
<i>Dehalobacter</i> spp. (DHBt)	3.70E+01	<2.50E-01	1.40E+03
<i>Dehalobacter</i> DCM (DCM)	<9.60E-01	<2.50E-01	<2.50E-01
<i>Dehalogenimonas</i> spp. (DHG)	<9.60E-01	<2.50E-01	6.00E+01
cerA Reductase (CER)	<9.60E-01	<2.50E-01	<2.50E-01
trans-1,2-DCE Reductase (TDR)	<9.60E-01	<2.50E-01	<2.50E-01
<i>Desulfitobacterium</i> spp. (DSB)	1.00E+02	<2.50E-01	9.30E+01
<i>Dehalobium chlorocoercia</i> (DECO)	2.80E+02	2.50E+02	1.40E+02
<i>Desulfuromonas</i> spp. (DSM)	1.60E+03	7.40E+01	6.40E+02
PCE Reductase (PCE-1)	<9.60E-01	<2.50E-01	<2.50E-01
PCE Reductase (PCE-2)	<9.60E-01	<2.50E-01	<2.50E-01
Chloroform Reductase (CFR)	<9.60E-01	<2.50E-01	<2.50E-01
1,1 DCA Reductase (DCA)	<9.60E-01	<2.50E-01	<2.50E-01
1,2 DCA Reductase (DCAR)	<9.60E-01	<2.50E-01	<2.50E-01
<i>Aerobic (Co)Metabolic</i>			
Soluble Methane Monooxygenase (SMMO)	<9.60E-01	<2.50E-01	<2.50E-01
Toluene Dioxygenase (TOD)	<9.60E-01	<2.50E-01	<2.50E-01
Phenol Hydroxylase (PHE)	3.70E+04	7.70E+03	9.80E+03
Trichlorobenzene Dioxygenase (TCBO)	<9.60E-01	<2.50E-01	2.90E+01
Toluene Monooxygenase 2 (RDEG)	7.50E+03	5.40E+03	1.20E+04
Toluene Monooxygenase (RMO)	3.80E+02	2.50E+01	1.20E+02
Ethene Monooxygenase (EtnC)	<9.60E-01	<2.50E-01	<2.50E-01
Epoxyalkane Transferase (EtnE)	<9.60E-01	<2.50E-01	<2.50E-01
Dichloromethane Dehalogenase (DCMA)	<9.60E-01	<2.50E-01	<2.50E-01
<i>Other</i>			
Total Eubacteria (EBAC)	3.40E+06	2.00E+06	4.20E+06
Sulfate Reducing Bacteria (APS)	4.40E+03	2.30E+03	1.10E+03
Methanogens (MGN)	<9.60E-01	<2.50E-01	<2.50E-01

Legend:

NA = Not Analyzed

NS = Not Sampled

J = Estimated Gene Copies Below PQL but Above LQL

I = Inhibited

< = Result Not Detected

Results

Table 1: Summary of the QuantArray®-Chlor results obtained for samples RBH 203, RBH 503, RXI 006, and RXI 026

Sample Name Sample Date	RBH 203 03/06/2025	RBH 503 03/06/2025	RXI 006 02/06/2025	RXI 026 02/06/2025
<i>Reductive Dechlorination</i>	cells/mL	cells/mL	cells/mL	cells/mL
<i>Dehalococcoides</i> (DHC)	<5.00E-01	2.30E+01	3.70E-01 (J)	<2.50E+00
tceA Reductase (TCE)	<5.00E-01	2.60E+00	<5.00E-01	<2.50E+00
BAV1 Vinyl Chloride Reductase (BVC)	<5.00E-01	1.10E+01	<5.00E-01	<2.50E+00
Vinyl Chloride Reductase (VCR)	<5.00E-01	2.20E+01	<5.00E-01	<2.50E+00
<i>Dehalobacter</i> spp. (DHBt)	2.20E+05	1.30E+03	2.20E+05	4.40E+04
<i>Dehalobacter</i> DCM (DCM)	<5.00E-01	<2.50E-01	<5.00E-01	5.60E+02
<i>Dehalogenimonas</i> spp. (DHG)	<5.00E-01	2.20E+02	<5.00E-01	<2.50E+00
cerA Reductase (CER)	<5.00E-01	<2.50E-01	<5.00E-01	<2.50E+00
trans-1,2-DCE Reductase (TDR)	<5.00E-01	<2.50E-01	<5.00E-01	<2.50E+00
<i>Desulfitobacterium</i> spp. (DSB)	1.40E+05	6.20E+02	2.90E+05	6.20E+03
<i>Dehalobium chlorocoercia</i> (DECO)	1.60E+03	5.00E+03	4.10E+03	1.90E+03
<i>Desulfuromonas</i> spp. (DSM)	8.10E+03	2.00E+03	<5.00E-01	1.40E+03
PCE Reductase (PCE-1)	<5.00E-01	<2.50E-01	<5.00E-01	<2.50E+00
PCE Reductase (PCE-2)	<5.00E-01	<2.50E-01	<5.00E-01	<2.50E+00
Chloroform Reductase (CFR)	<5.00E-01	<2.50E-01	<5.00E-01	<2.50E+00
1,1 DCA Reductase (DCA)	<5.00E-01	<2.50E-01	<5.00E-01	<2.50E+00
1,2 DCA Reductase (DCAR)	<5.00E-01	<2.50E-01	<5.00E-01	<2.50E+00
<i>Aerobic (Co)Metabolic</i>				
Soluble Methane Monooxygenase (SMMO)	4.10E+01	4.40E+01	<5.00E-01	2.30E+02
Toluene Dioxygenase (TOD)	<5.00E-01	2.50E+01	3.10E+02	6.30E+02
Phenol Hydroxylase (PHE)	7.60E+03	6.30E+04	7.90E+04	5.20E+04
Trichlorobenzene Dioxygenase (TCBO)	<5.00E-01	1.20E+02	<5.00E-01	<2.50E+00
Toluene Monooxygenase 2 (RDEG)	4.20E+03	1.30E+04	2.30E+04	8.70E+03
Toluene Monooxygenase (RMO)	6.60E+03	6.80E+03	3.90E+03	7.90E+02
Ethene Monooxygenase (EtnC)	<5.00E-01	<2.50E-01	7.30E-01	<2.50E+00
Epoxyalkane Transferase (EtnE)	<5.00E-01	8.00E+01	<5.00E-01	<2.50E+00
Dichloromethane Dehalogenase (DCMA)	<5.00E-01	<2.50E-01	<5.00E-01	<2.50E+00
<i>Other</i>				
Total Eubacteria (EBAC)	1.10E+07	3.20E+06	3.70E+07	7.50E+07
Sulfate Reducing Bacteria (APS)	7.50E+04	3.70E+04	5.40E+05	1.50E+04
Methanogens (MGN)	7.90E-01	<2.50E-01	2.60E-01 (J)	1.40E+00 (J)

Legend:

NA = Not Analyzed

NS = Not Sampled

J = Estimated Gene Copies Below PQL but Above LQL

I = Inhibited

< = Result Not Detected

APPENDIX I

Provect ERD-CH4™ Liquid, Antimethanogenic ERD Amendment

Technology Description

A high fermentable carbon content ($\geq 85\%$ carbon) liquid bioremediation amendment of self-emulsifiable vegetable oil uniquely combined with Provect-CH4® methane control technology (**Photograph 1**). The product readily disperses in water and the antimethanogenic agent remains suspended in a stable dispersion. This product is ideal for injection through screened groundwater remediation wells.



Photograph 1. Provect-ERD CH4™ 15: 1 Water:Oil (Left), 85% Carbon + 4% AMR Self-Emulsifiable Oil Concentrate (Middle), and 85% Carbon Self-Emulsifiable Oil Concentrate, no AMR (Right).

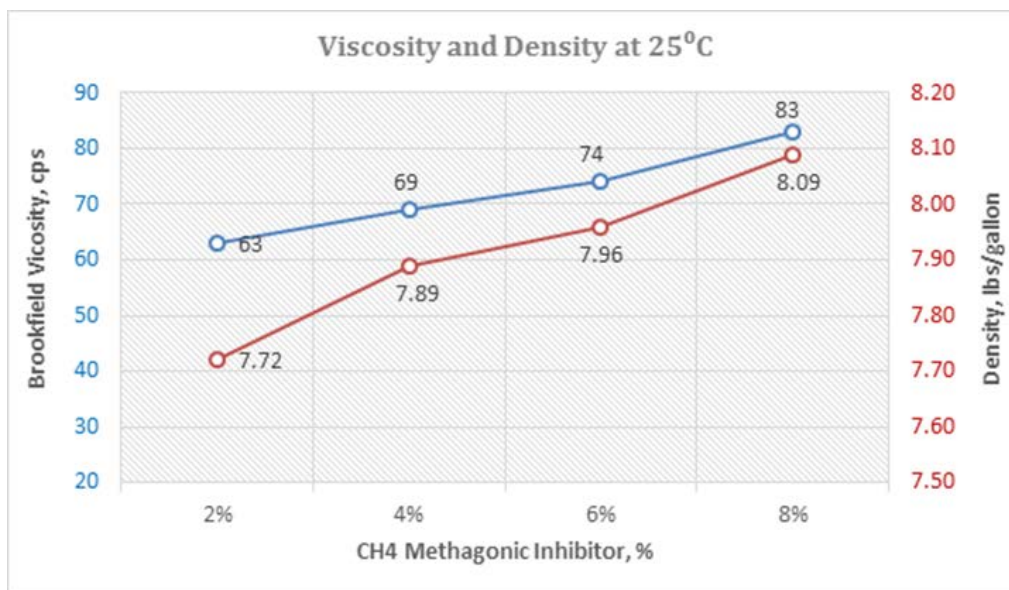
Product Data

The materials are all combined at our own manufacturing facilities in the USA (and Europe) at proportions and formulations optimized for a given site. ERD-CH4™ is manufactured using 100% food grade ingredients that provide fast- and slow-release characteristics. Provect-CH4® antimethanogenic reagent (AMR) is typically added at three to five weight percent of the mass of the fermentable carbon. The common dosage of ERD-CH4 provides groundwater concentrations of 1,000 to 3,000 ppm TOC plus a minimum 150 ppm of AMR within the targeted treatment area.

Color	Translucent Yellow
Density (lbs. / gal)	7.75 to 8.46 (varies based on AMR)
Physical State	Liquid
Odor	Earthy
Viscosity (Brookfield, 30 rpm @25°C)	50-100 cps
pH – 1% w/v in water	7.3

Oil Sample	Al	P	S	Zn	Fe	Mg	Ca	Na	K
Self-Emulsifiable Vegetable Oil	1.2 to 1.3	1,265 to 1,751	17.2 to 28.2	19.6 to 39.7	1.4 to 2.3	138 to 143	135 to 187	15.4 to 15.9	507 to 954

- All units mg/kg oil



Applications

ERD-CH4™ is an electron donor (carbon substrate) used to create ERD (Enhanced Reductive Dechlorination) biogeochemical conditions in groundwater, in combination with controlled methanogenesis and a high percentage of soluble carbon for environmental bioremediation. The product is manufactured and shipped as a liquid system that is easily and safely handled in the field.

Storage

Store product in the original sealed container at a temperature of 40 to 95° F. Do not allow to Freeze. Reseal tightly after each use.

Shelf life

Minimum shelf life under proper storage is one year from date of production.

Packaging

Available in steel drums, non-returnable 275 USG totes, and bulk

Provectus Environmental Products, Inc.
2871 W. Forest Road Suite 2 Freeport IL 61032 (815) 650-2230
info@provectusenvironmental.com

US patents 9,221,699; patents pending 14/854,640 and others

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SAFETY DATA SHEET

(Antimethanogenic) Anaerobic Biostimulant

ERD-CH4™: ERD-CH4™ (+DVI optional)

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ERD-CH4™: ERD-CH4™ (+DVI)
GENERAL USE: Bioremediation of halogenated organics and metals

MANUFACTURER:

Provectus Environmental Products, Inc
2871 W. Forest Rd. #2
Freeport, IL 61032
(815) 650-2230

EMERGENCY TELEPHONE:

Within USA and Canada: 1-800-424-9300
+1 703-527-3887 (collect calls accepted)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Product is generally recognized as safe. May cause irritation exposure to eyes. Long term contact to skin may cause some drying and minor irritation.

3. COMPOSITION INFORMATION ON INGREDIENTS

Proprietary mixture of fatty acids, glycerol, vegetable oils, garlic*, yeast extracts*, organic iron* and emulsifying agent.

<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>	<u>Toxic Release Inventory (TRI) Listed Chemicals</u>
Iron (Fe)(*)	7439-89-6	0 – 20	NA	NA
Glycerol	56-81-5	2 – 10	NA	NA
Oleic Acid	112-80-1	20 – 50	NA	NA
Food Grade Veg Oil	8001-22-7	10 – 50	NA	NA
Potable Water	7732-18-5	10 – 40	NA	NA
Yeast Extracts(*)	8013-01-2	0 – <5	NA	NA
Garlic(*)	539-86-6	0 – <10	NA	NA

*(some formulations contain these materials)

4. FIRST AID MEASURES

EYES: Immediately flush with water for up to 15 minutes. If irritation persists, seek medical attention.

SKIN: Rinse with water. Irritation is unlikely, but if irritation occurs or persists, seek medical attention.

INGESTION: Generally safe to ingest but not recommended.

INHALATION: No first aid required.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Deluge with water

FIRE/EXPLOSION HAZARDS: Product is combustible only at temperatures above 600C

FIRE FIGHTING PROCEDURES: Use flooding with plenty of water, carbon dioxide or other inert gasses. Wear full protective clothing and self-contained breathing apparatus. Deluging with water is the best method to control combustion of the product.

FLAMMABILITY LIMITS: non-combustible

SENSITIVITY TO IMPACT: non-sensitive

SENSITIVITY TO STATIC DISCHARGE: non-sensitive

6. ACCIDENTAL RELEASE MEASURES

Confine and collect spill. Transfer to an approved DOT container and properly dispose. Do not dispose of or rinse material into sewer, stormwater or surface water. Discharge of product to surface water could result in depressed dissolved oxygen levels and subsequent biological impacts.

7. HANDLING AND STORAGE

HANDLING: Protective gloves and safety glasses are recommended.

STORAGE: Keep dry. Use first in, first out storage system. Keep container tightly closed when not in use. Avoid contamination of opened product. Avoid contact with reducing agents.

8. EXPOSURE CONTROLS – PERSONAL PROTECTION

EXPOSURE LIMITS

Chemical Name	ACGIH	OSHA	Supplier
ERD-CH4	NA	NA	NA

ENGINEERING CONTROLS: None are required

PERSONAL PROTECTIVE EQUIPMENT

EYES and FACE: Safety glasses recommended

RESPIRATOR: none necessary

PROTECTIVE CLOTHING: None necessary

GLOVES: rubber, latex or neoprene recommended but not required

9. PHYSICAL AND CHEMICAL PROPERTIES

Odor:	none to mild pleasant organic odor
Appearance:	milky
Auto-ignition Temperature	Non-combustible
Boiling Point	>600 C
Melting Point	NA
Density	0.90 - 1.02 gram/cc
Solubility	infinite
pH	7-9

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Do not contact with strong oxidizers

STABILITY: product is stable

POLYMERIZATION: will not occur

INCOMPATIBLE MATERIALS: strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS:

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

A: General Product Information

Acute exposure may cause mild skin and eye irritation.

B: Component Analysis - LD50/LC50

No information available.

B: Component Analysis - TDLo/LDLo

TDLo (Oral-Man) none

Carcinogenicity

A: General Product Information

No information available.

B: Component Carcinogenicity

Product is not listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Epidemiology

No information available.

Neurotoxicity

No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Discharge to water may cause depressed dissolved oxygen and subsequent ecological stresses

Environmental Fate

No potential for food chain concentration

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Material is not considered hazardous, but consult with local, state and federal agencies prior to disposal to ensure all applicable laws are met.

14. TRANSPORT INFORMATION

NOTE: The shipping classification information in this section (Section 14) is meant as a guide to the overall classification of the product. However, transportation classifications may be subject to change with changes in package size. Consult shipper requirements under I.M.O., I.C.A.O. (I.A.T.A.) and 49 CFR to assure regulatory compliance.

US DOT Information

Shipping Name: Not Regulated

Hazard Class: Not Classified

UN/NA #: Not Classified

Packing Group: None

Required Label(s):None

50th Edition International Air Transport Association (IATA):

Not hazardous and not regulated

INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG)

Material is not regulated under IMDG

15. REGULATORY INFORMATION

UNITED STATES**SARA TITLE III**

SECTION 311 No Hazard for Immediate health Hazard

SECTION 312 No Threshold Quantity

SECTION 313 Not listed

CERCLA NOT REGULATED UNDER CERCLA

TSCA NOT REGULATED UNDER TSCA

CANADA (WHIMS): NOT REGULATED

16. OTHER INFORMATION

HMIS:

ERD-CH4 (DVI)**December 2019**

Health	0
Flammability	0
Physical Hazard	0
Personal Protection	E

E: Safety Glasses, gloves



Ferrous Gluconate

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 06/01/2015

Revision date: 06/11/2018

Supersedes: 10/04/2015

Version: 2.0

SECTION 1: Identification

1.1. Identification

Product form : Substance
Substance name : Ferrous Gluconate
CAS-No. : 299-29-6
Formula : $\text{Fe}(\text{C}_6\text{H}_{11}\text{O}_7)_2 \cdot 2\text{H}_2\text{O}$

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Nutrient; Dietary Supplement; Pharmaceuticals

1.3. Supplier

Manufacturer

Jost Chemical Co.
8150 Lackland Rd.
Saint Louis, Missouri 63114
T 314-428-4300 - F 314-428-4366
sds@jostchemical.com - www.jostchemical.com

1.4. Emergency telephone number

Emergency number : For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
United States and Canada: 1-800-424-9300 / +1 703-527-3887
Global: +1 703-741-5970

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS-US labeling

No labeling applicable

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Substance type : Mono-constituent

Name	Product identifier	%	GHS-US classification
Ferrous Gluconate (Main constituent)	(CAS-No.) 299-29-6	100	Not classified

Full text of hazard classes and H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with labored breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Remove the victim into fresh air.

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First-aid measures after skin contact	: Wash immediately with lots of water (15 minutes)/shower. Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Take victim to an ophthalmologist. Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Rinse mouth with water. Ingestion of large quantities: immediately to hospital. Call Poison Information Centre (www.big.be/antigif.htm). Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and symptoms	: Practically non-toxic if swallowed (LD50 oral 2000/5000 mg/kg).
Symptoms/effects after inhalation	: Irritation of the respiratory tract.
Symptoms/effects after skin contact	: Slight irritation.
Symptoms/effects after eye contact	: Mild eye irritation.
Symptoms/effects after ingestion	: SIMILAR PRODUCTS CAUSE FOLLOWING SYMPTOMS: Gastrointestinal complaints. Nausea. Vomiting. Abdominal pain. Diarrhoea. FOLLOWING SYMPTOMS MAY APPEAR LATER: Change in the hemogramme/blood composition. Blood in vomit. Blue/grey discolouration of the skin. Feeling of weakness. Dizziness. Low arterial pressure. Cramps/uncontrolled muscular contractions. Enlargement/affection of the liver.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Quick-acting ABC powder extinguisher. Class A foam extinguisher. Water (quick-acting extinguisher, reel). Water. Class A foam. Water spray. Dry powder. Foam.
Unsuitable extinguishing media	: Quick-acting BC powder extinguisher. Quick-acting CO2 extinguisher.

5.2. Specific hazards arising from the chemical

Fire hazard	: No data available on direct fire hazard. No data available on indirect fire hazard.
Explosion hazard	: No data available on direct explosion hazard. No data available on indirect explosion hazard.
Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.

5.3. Special protective equipment and precautions for fire-fighters

Precautionary measures fire	: Exposure to fire/heat: keep upwind. Exposure to fire/heat: have neighborhood close doors and windows.
Firefighting instructions	: Do not dispose of fire-fighting water in the environment. Cool down the containers exposed to heat with a water spray.
Protection during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment	: Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus.
Emergency procedures	: Ventilate spillage area. Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash contaminated clothes.

6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
----------------------	---

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment	: Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water spray.
Methods for cleaning up	: Mechanically recover the product. Stop dust cloud by covering with sand/earth. Scoop solid spill into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

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Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid raising dust. Keep away from naked flames/heat. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing.

Hygiene measures : Reduce/avoid exposure and/or contact. Keep container tightly closed. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Does not require any specific or particular technical measures.

Storage conditions : Store in a clean, dry warehouse in the original unopened containers. Store in a well-ventilated place. Keep cool.

Incompatible materials : Strong oxidizers.

Heat-ignition : KEEP SUBSTANCE AWAY FROM: heat sources.

Information on mixed storage : KEEP SUBSTANCE AWAY FROM: oxidizing agents.

Storage area : Meet the legal requirements.

Special rules on packaging : SPECIAL REQUIREMENTS: closing. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.

Packaging materials : SUITABLE MATERIAL: cardboard. plastics.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Dust production: dust mask with filter type P2. Gloves. Safety glasses.

Materials for protective clothing:

GIVE GOOD RESISTANCE: rubber

Hand protection:

Gloves

Eye protection:

Safety glasses. In case of dust production: protective goggles. Safety glasses

Skin and body protection:

Protective clothing

Respiratory protection:

Dust formation: dust mask

Personal protective equipment symbol(s):



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Brown, tan or gray to greenish yellow powder, coarse granular.
Color	: No data available
Odor	: Sweet odor
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: Not applicable
Relative density	: Not applicable
Molecular mass	: 482.17 g/mol
Solubility	: Soluble in water. Soluble in glycerol. Water: soluble, Literature
Log Pow	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

Other properties : Substance has acid reaction.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Oxidizing agent.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified (Lack of data)
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

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Ferrous Gluconate (299-29-6)	
LD50 oral rat	2237 mg/kg (Rat)
ATE US (oral)	2237 mg/kg body weight
Skin corrosion/irritation	: Not classified (Lack of data)
Serious eye damage/irritation	: Not classified (Lack of data)
Respiratory or skin sensitization	: Not classified (Lack of data)
Germ cell mutagenicity	: Not classified (Lack of data)
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified (Lack of data)
Specific target organ toxicity – single exposure	: Not classified (Lack of data)
Specific target organ toxicity – repeated exposure	: Not classified (Lack of data)
Aspiration hazard	: Not classified (Lack of data)
Viscosity, kinematic	: No data available
Likely routes of exposure	: Skin and eye contact. Inhalation.
Potential Adverse human health effects and symptoms	: Practically non-toxic if swallowed (LD50 oral 2000/5000 mg/kg).
Symptoms/effects after inhalation	: Irritation of the respiratory tract.
Symptoms/effects after skin contact	: Slight irritation.
Symptoms/effects after eye contact	: Mild eye irritation.
Symptoms/effects after ingestion	: SIMILAR PRODUCTS CAUSE FOLLOWING SYMPTOMS: Gastrointestinal complaints. Nausea. Vomiting. Abdominal pain. Diarrhoea. FOLLOWING SYMPTOMS MAY APPEAR LATER: Change in the hemogramme/blood composition. Blood in vomit. Blue/grey discolouration of the skin. Feeling of weakness. Dizziness. Low arterial pressure. Cramps/uncontrolled muscular contractions. Enlargement/affection of the liver.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: No known adverse effects on the functioning of water treatment plants under normal use conditions as recommended.
Ecology - water	: No data available on ecotoxicity.

Ferrous Gluconate (299-29-6)	
NOEC (acute)	> 1000 mg/l (96 hr; Scophthalmus maximus) (OECD 203 method)

12.2. Persistence and degradability

Ferrous Gluconate (299-29-6)	
Persistence and degradability	Biodegradability in water: no data available.
Chemical oxygen demand (COD)	0.00066 g O ₂ /g substance

12.3. Bioaccumulative potential

Ferrous Gluconate (299-29-6)	
Bioaccumulative potential	No bioaccumulation data available.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Recycle/reuse.

Ferrous Gluconate

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

Transportation of Dangerous Goods

Proper Shipping Name (Transportation of Dangerous Goods) : Not regulated for transport

Transport by sea

Proper Shipping Name (IMDG) : Not regulated for transport

Air transport

Proper Shipping Name (IATA) : Not regulated for transport

SECTION 15: Regulatory information

15.1. US Federal regulations

Ferrous Gluconate (299-29-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2. International regulations

CANADA

Ferrous Gluconate (299-29-6)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Ferrous Gluconate (299-29-6)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Ferrous Gluconate (299-29-6)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Korean ECL (Existing Chemicals List)
Listed on INSQ (Mexican national Inventory of Chemical Substances)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

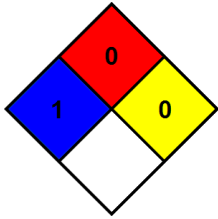
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 06/11/2018

Ferrous Gluconate

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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

NFPA health hazard	: 1 - Materials that, under emergency conditions, can cause significant irritation.	
NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.	
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.	
Hazard Rating		
Health	: 1 Slight Hazard - Irritation or minor reversible injury possible	
Flammability	: 0 Minimal Hazard - Materials that will not burn	
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.	

SDS US (HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

Safety Data Sheet (SDS)

OSHA HazCom 2012 Standard 29 CFR 1910.1200. Prepared to GHS Rev03.

Printing date 06/05/2016

Reviewed on 09/11/2018

* 1 Identification

Trade name: Provect-CH4® and Provect-CH4 Advanced Methanogen Inhibitor (AMR)

• **Product description**

Remediation product supplement for use in controlling methane production and reducing methane concentrations in ground water, soil gas/vapor and indoor air. Can be used in landfill management and in various environmental applications associated with the treatment of soil, sediment and groundwater. Not for use in potable water sources.

• **Details of the supplier of the safety data sheet**

• **Manufacturer/Supplier:**

Provectus Environmental Products
2871 W. Forest Road
Suite 2
Freeport, IL 61032
Phone: 815-650-2230
Fax: 815-650-2232
www.provectusenvironmental.com

• **Emergency telephone number:** 815-650-2230

* 2 Hazard(s) identification

• **Classification of the substance or mixture**

The substance is not classified according to the Globally Harmonized System (GHS).

• **Label elements**

• **GHS label elements** Non-Regulated Material

• **Hazard pictograms** Non-Regulated Material

• **Signal word** Non-Regulated Material

• **Hazard statements** Non-Regulated Material

• **Classification system:**

• **NFPA ratings (scale 0 - 4)**



• **HMIS-ratings (scale 0 - 4)**



* 3 Composition/information on ingredients

Proprietary Red Yeast Rice Extract (CAS 8013-01-2)	0-50%
Proprietary Natural Garlic Oil Juice (CAS 539-86-6)	50-100%

• **Chemical characterization:** Dry powder or liquid

• **Description:** Individual or mixture of the substances listed above with nonhazardous additions.

* 4 First-aid measures

• **Description of first aid measures**

• **General information:** Flush well with water; fresh air.

(Contd. on page 2)

Safety Data Sheet (SDS)

OSHA HazCom 2012 Standard 29 CFR 1910.1200. Prepared to GHS Rev03.

Printing date 06/05/2016

Reviewed on 09/11/2018
(Contd. of page 1)

Provect-CH4® and Provect-CH4 Advanced Methanogen Inhibitor (AMR))

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Give large amounts of water. If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

* 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Pick up mechanically. Rinse with water
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

* 7 Handling and storage

- **Precautions for safe handling** No special measures required; garlic odor
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities** **Storage:** Cool, dry conditions
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep dry.
- **Specific end use(s)** No further relevant information available.

* 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters**

· **Components with occupational exposure limits:**

PEL	None
REL	None
TLV	None

- **Additional information:** The lists that were valid during the creation were used as basis.

(Contd. on page 3)

Safety Data Sheet (SDS)

OSHA HazCom 2012 Standard 29 CFR 1910.1200. Prepared to GHS Rev03.

Printing date 06/05/2016

Reviewed on 09/11/2018
(Contd. of page 2)

Provect-CH4® and Provect-CH4 Advanced Methanogen Inhibitor (AMR))

- **Exposure controls**
- **Personal protective equipment:** Avoid contact with clothing
- **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** very strong odor.
- **Protection of hands:** latex or other gloves.
- **Eye protection:** required.

* 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
 - Form:** Oily liquid
 - Color:** Dark red to brown
- **Odor:** Garlic
- **Odor threshold:** Not determined.
- **pH-value:** Not applicable.
- **Change in condition**
 - Melting point/Melting range:** Not determined.
 - Boiling point/Boiling range:** Undetermined.
- **Flash point:** Not applicable.
- **Flammability (solid, gaseous):** Not determined.
- **Ignition temperature:**
 - Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not self igniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
 - Lower:** Not determined.
 - Upper:** Not determined.
- **Vapor pressure:** Not applicable.
- **Density:** Not determined.
- **Relative density** Not determined.
- **Vapor density** Not applicable.
- **Evaporation rate** Not applicable.
- **Solubility in / Miscibility with**
 - Water:** Water Soluble.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - Dynamic:** Not applicable.
 - Kinematic:** Not applicable.
- **Solvent content:**
 - Organic solvents:** 0.0 %
 - Solids content:** up to 50 %

(Contd. on page 4)

Safety Data Sheet (SDS)

OSHA HazCom 2012 Standard 29 CFR 1910.1200. Prepared to GHS Rev03.

Printing date 06/05/2016

Reviewed on 09/11/2018

Trade name: Provect-CH4® and Provect-CH4 Advanced Methanogen Inhibitor (AMR)

(Contd. of page 3)

* 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Product is stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

* 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product is not subject to classification according to internally approved calculation methods for preparations.
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
- **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for potable water
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

* 13 Disposal considerations

- **Waste treatment methods:** flush with water
- **Recommendation:** Smaller quantities can be disposed of with household waste.

(Contd. on page 5)

Safety Data Sheet (SDS)

OSHA HazCom 2012 Standard 29 CFR 1910.1200. Prepared to GHS Rev03.

Printing date 06/05/2016

Reviewed on 09/11/2018

Provect-CH4® and Provect-CH4 Advanced Methanogen Inhibitor (AMR))

(Contd. of page 4)

- **Unclean or Used Packaging:** Disposal must be made according to local regulations: odor may be present.

14 Transport information

- **UN-Number**
- **DOT, ADR, ADN, IMDG, IATA** Non-Regulated Material
- **UN proper shipping name**
- **DOT, ADR, ADN, IMDG, IATA** Non-Regulated Material
- **Transport hazard class(es)**
- **DOT, ADR, ADN, IMDG, IATA**
- **Class** Non-Regulated Material
- **Packing group**
- **DOT, ADR, IMDG, IATA** Non-Regulated Material
- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** -

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

None of the ingredients is listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

(Contd. on page 6)

Safety Data Sheet (SDS)

OSHA HazCom 2012 Standard 29 CFR 1910.1200. Prepared to GHS Rev03.

Printing date 06/05/2016

Reviewed on 09/11/2018

Trade name: Provect-CH4® and Provect-CH4 Advanced Methanogen Inhibitor (AMR)

(Contd. of page 5)

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients listed.

- **GHS label elements** Non-Regulated Material
- **Hazard pictograms** Non-Regulated Material
- **Signal word** Non-Regulated Material
- **Hazard statements** Non-Regulated Material

· **National regulations:**

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

· **State Right to Know**

8013-01-2	Proprietary Red Yeast Rice Extract	0-50%
539-86-6	Proprietary Garlic Oil Juice	50-100%
All ingredients are listed.		

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Date of preparation / last revision** 09/11/2018

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 ACGIH: American Conference of Governmental Industrial Hygienists
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Description:	Sodium metabisulfite
Cat No. :	223070000; 223070010; 223075000
Synonyms	Sodium pyrosulfite
Index No	016-063-00-2
CAS No	7681-57-4
EC No	231-673-0
Molecular Formula	Na ₂ O ₅ S ₂
REACH registration number	01-2119531326-45

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use	Laboratory chemicals.
Sector of use	SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites
Product category	PC21 - Laboratory chemicals
Process categories	PROC15 - Use as a laboratory reagent
Environmental release category	ERC6a - Industrial use resulting in manufacture of another substance (use of intermediates)
Uses advised against	No Information available

1.3. Details of the supplier of the safety data sheet

Company

UK entity/business name
Fisher Scientific UK
Bishop Meadow Road,
Loughborough, Leicestershire LE11 5RG, United Kingdom

EU entity/business name
Thermo Fisher Scientific
Janssen Pharmaceuticaaan 3a, 2440 Geel, Belgium

E-mail address begel.sdsdesk@thermofisher.com

1.4. Emergency telephone number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11
Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99
CHEMTREC Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Physical hazards

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Sodium metabisulfite

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Based on available data, the classification criteria are not met

Health hazards

Acute oral toxicity
Serious Eye Damage/Eye Irritation

Category 4 (H302)
Category 1 (H318)

Environmental hazards

Based on available data, the classification criteria are not met

Full text of Hazard Statements: see section 16

2.2. Label elements



Signal Word

Danger

Hazard Statements

H302 - Harmful if swallowed
H318 - Causes serious eye damage
EUH031 - Contact with acids liberates toxic gas

Precautionary Statements

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P280 - Wear eye protection/ face protection
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor/physician

2.3. Other hazards

In accordance with Annex XIII of the REACH Regulation, inorganic substances do not require assessment

Toxicity to Soil Dwelling Organisms
Toxic to terrestrial vertebrates
This product does not contain any known or suspected endocrine disruptors

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Component	CAS No	EC No	Weight %	CLP Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567
Sodium metabisulfite	7681-57-4	EEC No. 231-673-0	<=100	Acute Tox. 4 (H302) Eye Dam. 1 (H318) (EUH031)

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REACH registration number

01-2119531326-45

Full text of Hazard Statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice	If symptoms persist, call a physician.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
Self-Protection of the First Aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

4.2. Most important symptoms and effects, both acute and delayed

None reasonably foreseeable. Causes severe eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

Extinguishing media which must not be used for safety reasons

No information available.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products

Sulfur oxides, Sodium oxides.

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.

6.2. Environmental precautions

Should not be released into the environment. Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from acids.

Technical Rules for Hazardous Substances (TRGS) 510 Class 13
Storage Class (LGK) (Germany)

7.3. Specific end use(s)

Use in laboratories

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

List source(s): **UK** - EH40/2005 Work Exposure Limits, Fourth edition. Published 2020. **IRE** - 2021 Code of Practice for the Chemical Agents Regulations, Schedule 1. Published by the Health and Safety Authority

Component	The United Kingdom	European Union	Ireland
Sodium metabisulfite	STEL: 15 mg/m ³ 15 min TWA: 5 mg/m ³ 8 hr		TWA: 5 mg/m ³ 8 hr. STEL: 15 mg/m ³ 15 min

Biological limit values

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Sodium metabisulfite

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This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL)

See table for values

Component	Acute effects local (Oral)	Acute effects systemic (Oral)	Chronic effects local (Oral)	Chronic effects systemic (Oral)
Sodium metabisulfite 7681-57-4 (≤100)				8.6 mg/kg bw/day

Component	Acute effects local (Inhalation)	Acute effects systemic (Inhalation)	Chronic effects local (Inhalation)	Chronic effects systemic (Inhalation)
Sodium metabisulfite 7681-57-4 (≤100)				DNEL = 225mg/m ³

Predicted No Effect Concentration (PNEC)

See values below.

Component	Fresh water	Fresh water sediment	Water Intermittent	Microorganisms in sewage treatment	Soil (Agriculture)
Sodium metabisulfite 7681-57-4 (≤100)	PNEC = 1mg/L			PNEC = 75.4mg/L	

Component	Marine water	Marine water sediment	Marine water intermittent	Food chain	Air
Sodium metabisulfite 7681-57-4 (≤100)	PNEC = 0.1mg/L				

8.2. Exposure controls

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Eye Protection

Goggles (European standard - EN 166)

Hand Protection

Protective gloves

Glove material	Breakthrough time	Glove thickness	EU standard	Glove comments
Natural rubber Nitrile rubber Neoprene PVC	See manufacturers recommendations	-	EN 374	(minimum requirement)

Skin and body protection

Long sleeved clothing.

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatibility, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

SAFETY DATA SHEET

Sodium metabisulfite

Revision Date 27-Sep-2023

Respiratory Protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly
Large scale/emergency use	Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced Recommended Filter type: Particulates filter conforming to EN 143
Small scale/Laboratory use	Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Recommended half mask:- Particle filtering: EN149:2001 When RPE is used a face piece Fit Test should be conducted
Environmental exposure controls	Prevent product from entering drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State	Powder Solid	
Appearance	Off-white	
Odor	pungent	
Odor Threshold	No data available	
Melting Point/Range	150 °C / 302 °F	
Softening Point	No data available	
Boiling Point/Range	No information available	
Flammability (liquid)	Not applicable	Solid
Flammability (solid,gas)	No information available	
Explosion Limits	No data available	
Flash Point	No information available	Method - No information available
Autoignition Temperature	No data available	
Decomposition Temperature	120 °C	
pH	4-6	5% aq.sol
Viscosity	Not applicable	Solid
Water Solubility	Soluble	
Solubility in other solvents	No information available	
Partition Coefficient (n-octanol/water)		
Component	log Pow	
Sodium metabisulfite	-3.7	
Vapor Pressure	No information available	
Density / Specific Gravity	1.4	
Bulk Density	No data available	
Vapor Density	Not applicable	Solid
Particle characteristics	No data available	

9.2. Other information

Molecular Formula	Na ₂ O ₅ S ₂
Molecular Weight	190.1
Evaporation Rate	Not applicable - Solid

SECTION 10: STABILITY AND REACTIVITY

SAFETY DATA SHEET

Sodium metabisulfite

Revision Date 27-Sep-2023

10.1. Reactivity

Yes

10.2. Chemical stability

Air sensitive. Moisture sensitive.

10.3. Possibility of hazardous reactions

**Hazardous Polymerization
Hazardous Reactions**

Hazardous polymerization does not occur.
None under normal processing.

10.4. Conditions to avoid

Avoid dust formation. Incompatible products. Excess heat. Exposure to air or moisture over prolonged periods.

10.5. Incompatible materials

Acids. Strong oxidizing agents.

10.6. Hazardous decomposition products

Sulfur oxides. Sodium oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Product Information

(a) acute toxicity;

Oral

Category 4

Based on available data, the classification criteria are not met

Dermal

Based on available data, the classification criteria are not met

Inhalation

Based on available data, the classification criteria are not met

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium metabisulfite	LD50 = 1310 mg/kg (Rat)	LD50 > 2000 mg/kg (Rat)	-

(b) skin corrosion/irritation;

Based on available data, the classification criteria are not met

(c) serious eye damage/irritation;

Category 1 Based on available data, the classification criteria are not met

(d) respiratory or skin sensitization;

Respiratory

Based on available data, the classification criteria are not met

Skin

Based on available data, the classification criteria are not met

(e) germ cell mutagenicity;

Based on available data, the classification criteria are not met

(f) carcinogenicity;

Based on available data, the classification criteria are not met

There are no known carcinogenic chemicals in this product

(g) reproductive toxicity;

Based on available data, the classification criteria are not met

(h) STOT-single exposure;

Based on available data, the classification criteria are not met

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(i) STOT-repeated exposure; Based on available data, the classification criteria are not met

Target Organs None known.

(j) aspiration hazard; Not applicable
Solid

Symptoms / effects, both acute and delayed No information available.

11.2. Information on other hazards

Endocrine Disrupting Properties Assess endocrine disrupting properties for human health. This product does not contain any known or suspected endocrine disruptors.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity effects Do not empty into drains. Contains a substance which is: Harmful to aquatic organisms. The product contains following substances which are hazardous for the environment.

Component	Freshwater Fish	Water Flea	Freshwater Algae
Sodium metabisulfite	LC50: = 32 mg/L, 96h static (Lepomis macrochirus)		EC50: = 40 mg/L, 96h (Desmodesmus subspicatus) EC50: = 48 mg/L, 72h (Desmodesmus subspicatus)

Component	Microtox	M-Factor
Sodium metabisulfite	EC50 = 56 mg/L 17 h	

12.2. Persistence and degradability

Persistence Persistence is unlikely.
Degradability Not relevant for inorganic substances.
Degradation in sewage treatment plant Contains substances known to be hazardous to the environment or not degradable in waste water treatment plants.

12.3. Bioaccumulative potential Bioaccumulation is unlikely

Component	log Pow	Bioconcentration factor (BCF)
Sodium metabisulfite	-3.7	No data available

12.4. Mobility in soil The product is water soluble, and may spread in water systems. Will likely be mobile in the environment due to its water solubility. Highly mobile in soils.

12.5. Results of PBT and vPvB assessment In accordance with Annex XIII of the REACH Regulation, inorganic substances do not require assessment.

12.6. Endocrine disrupting properties

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors

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12.7. Other adverse effects
Persistent Organic Pollutant
Ozone Depletion Potential

This product does not contain any known or suspected substance
This product does not contain any known or suspected substance

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues/Unused Products

Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

Contaminated Packaging

Dispose of this container to hazardous or special waste collection point.

European Waste Catalogue (EWC)

According to the European Waste Catalog, Waste Codes are not product specific, but application specific.

Other Information

Do not flush to sewer. Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains.

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO

Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

ADR

Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

IATA

Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

No hazards identified

14.6. Special precautions for user

No special precautions required.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable, packaged goods

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

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International Inventories

China, X = listed, Australia, U.S.A. (TSCA), Canada (DSL/NDL), Europe (EINECS/ELINCS/NLP), Australia (AICS), Korea (KECL), China (IECSC), Japan (ENCS), Philippines (PICCS), Taiwan (TCSI), Japan (ISHL), New Zealand (NZIoC), Japan (ISHL). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

Component	CAS No	EINECS	ELINCS	NLP	IECSC	TCSI	KECL	ENCS	ISHL
Sodium metabisulfite	7681-57-4	231-673-0	-	-	X	X	KE-12701	-	X

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	DSL	NDSL	AICS	NZIoC	PICCS
Sodium metabisulfite	7681-57-4	X	ACTIVE	X	-	X	X	X

Legend: X - Listed '-' - Not Listed

KECL - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

Authorisation/Restrictions according to EU REACH

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Sodium metabisulfite	7681-57-4	-	Use restricted. See item 75. (see link for restriction details)	-

REACH links

<https://echa.europa.eu/substances-restricted-under-reach>

Seveso III Directive (2012/18/EC)

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements
Sodium metabisulfite	7681-57-4	Not applicable	Not applicable

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?

Not applicable

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

National Regulations

UK - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

WGK Classification

See table for values

Component	Germany - Water Classification (AwSV)	Germany - TA-Luft Class
Sodium metabisulfite	WGK1	

Component	France - INRS (Tables of occupational diseases)
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Sodium metabisulfite

Tableaux des maladies professionnelles (TMP) - RG 66

15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed

H318 - Causes serious eye damage

H314 - Causes skin irritation

H332 - Harmful if inhaled

H334 - May cause or aggravate asthma or other respiratory symptoms

H336 - May cause drowsiness or dizziness

H373 - May cause long-term health effects

Legend

CAS - Chemical Abstracts Service

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

ENCS - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit

ACGIH - American Conference of Governmental Industrial Hygienists

DNEL - Derived No Effect Level

RPE - Respiratory Protective Equipment

LC50 - Lethal Concentration 50%

NOEC - No Observed Effect Concentration

PBT - Persistent, Bioaccumulative, Toxic

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer
Predicted No Effect Concentration (PNEC)

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50%

POW - Partition coefficient Octanol:Water

vPvB - very Persistent, very Bioaccumulative

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code

OECD - Organisation for Economic Co-operation and Development

BCF - Bioconcentration factor

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

MARPOL - International Convention for the Prevention of Pollution from Ships

ATE - Acute Toxicity Estimate

VOC - (Volatile Organic Compound)

Key literature references and sources for data

<https://echa.europa.eu/information-on-chemicals>

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

Creation Date 08-Feb-2010

Revision Date 27-Sep-2023

Revision Summary SDS sections updated.

This safety data sheet complies with Regulation UK SI 2019/758 and UK SI 2020/1577 as amended.

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Sodium metabisulfite

Revision Date 27-Sep-2023

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet



COMPLEX CHALLENGES ...
MADE SIMPLE

APPENDIX C – ROC SITE MONITORING REPORTS

SITE OBSERVATION RECORD

Site Visit to:	NT02-04 Enabling Works
Client:	FEC
Job Number:	4328
Site Visit by:	Reece McGuinness
Date & Time of Inspection:	17.05.2024 0800
Weather Conditions:	Dry scattered cloud
Purpose of Inspection:	Inspect progress of works, witness borehole decommissioning, assist in location of buried boreholes.
Person Seen on Site:	Alex Cheregi
Areas Inspected:	NT02, NT03 and NT04

Work in Progress:

- Retained monitoring wells given raised covers and fenced off
- Decommissioning of boreholes not to be retained for monitoring purposes complete. Decommissioning report awaited.
- 5th Groundwater monitoring visit on 15th-16th May 2024.
- Tanks located on Plot NT02 fenced off and awaiting removal works.
- Stockpiles of demolition material stored on love factory slab
- Northern NT02 hardstanding broken out.
- NT03 former concrete batching plant slab being broken out
- Platform for Provectus compound established.
- NT02 earthworks to the north of plateau ongoing
- Samples obtained from sandstone for bench trials with Remedex.

General Observations:

Photo representative of retained borehole reinstatement.



NT02 Tank holding water



NT02 Stockpiles



NT02 cover of small tank



NT02 northern area hardstanding removed



Concrete stockpile on NT03



View of NT02 from atop Network Rail mound



Stockpiles of material on plot NT03



NT03 Tank



Provectus compound platform



NT04 Earthworks



NT04 Plateau



View west from NT04 Plateau



Next Steps (Tank features)

- Summary report of tank discoveries and chemical testing findings.
- Survey of any connecting pipes.
- Obtain soil samples from around the tank.
- Contractor required to remove tank.
- Records of the tanks' removal needed for validation report, including record of any leakage or impact on soil.
- Soil samples required after removal of tank.

Next Steps (Monitoring wells)

- Condition of monitoring wells to be expected on each visit to site

Signed..... Reece McGuinness

SITE OBSERVATION RECORD

Site Visit to:	NT02-04 Enabling Works
Client:	FEC
Job Number:	4328
Site Visit by:	Reece McGuinness
Date & Time of Inspection:	02.05.2024 0800
Weather Conditions:	Dry scattered cloud
Purpose of Inspection:	Inspect progress of works, witness borehole decommissioning, assist in location of buried boreholes.
Person Seen on Site:	Alex Cheregi
Areas Inspected:	NT02, NT03 and NT04

Work in Progress:

- Demolition rubble from Love Factory being processed with crusher on site.
- Thrust block left in-situ pending gas main diversion.
- Storage tanks uncovered during Love Factory demolition. Sampled and sent for testing, testing results received and indicate elevated concentrations of hydrocarbons.
- Japanese Knotweed has been located, removed and tested, of which the majority is considered as hazardous waste. The material stockpiles have now been removed from site.
- Trial pit has been dug on the Eastern wing wall on the mound to expose one side of the footing. Logs received 18th April.
- Concrete cores have been completed on the eastern wing wall on the mound. Logs received 18th April.
- Concrete cores have been completed on the Love Factory retaining wall. Logs received 18th April.
- Site hoarding being installed along Dalton Street, completion expected w/c 06/05/24
- BAM Ritchies have decommissioned a number of boreholes on site and decommissioning boreholes in the southern portion of Plot NT02 at the time of the visit. Decommissioning of located boreholes expected to be completed w/c 06/05/2024
- A number of boreholes were not able to be located due to site operations, stockpiles and haul road. During excavation work to locate RBH20 suspected asbestos insulation was encountered, and the trial pit immediately backfilled, and location recorded by BAM.
- RBH305, RBH502, LKBH01 and RBH505 cover missing and will need reinstatement. Fencing previously placed around wells moved at RBH305 and RBH505. BAM advised to fence off all monitoring well locations and have BAM Ritchies reinstate covers to prevent any further damage and reconfirmed in email post site visit.
- 4th Groundwater monitoring visit by SSL on 15-16.04.2024.

General Observations:

Demolition rubble crushing operations on Plot NT02



RBH 02 missing cover





Stockpiles of material on Plot NT03 and NT04

NT04



NT04 Haul Road and Hoarding Installation in Progress



RBH30 Buried



LKBH01 Buried



NT04 Sewer E cavation



Borehole Decommissioning



Borehole Decommissioning



E cavation that Encountered Suspected Asbestos Insulation



NT04



Next Steps (Tank features)

- Summary report of tank discoveries and chemical testing findings.
- Survey of any connecting pipes.
- Obtain soil samples from around the tank.
- Contractor required to remove tank.
- Records of the tanks' removal needed for validation report, including record of any leakage or impact on soil.
- Soil samples required after removal of tank.

Next Steps (Monitoring wells)

- Retained monitoring wells to be reinstated with raised covers and fenced off.

Signed..... Reece McGuinness

SITE OBSERVATION RECORD

Site Visit to:	NT02-04 Enabling Works
Client:	FEC
Job Number:	4328
Site Visit by:	Reece McGuinness
Date & Time of Inspection:	18.06.2024 0800
Weather Conditions:	Dry scattered cloud
Purpose of Inspection:	Inspect tank removal and general site progress
Person Seen on Site:	David Knapp (Provectus) Joseph Holmes (BAM)
Areas Inspected:	NT02, NT03 and NT04

Work in Progress:

- Thrust block left in-situ pending gas main diversion.
- Storage tanks uncovered during Love Factory demolition being removed.
- Southern portion of NT03 earthworks
- NT04 Earthworks
- NT04 Archaeological investigation
- Next groundwater monitoring visit by SSL on 24-25.06.2024.

General Observations:

Area of reduced level dig in TCE source zone







TCE source zone excavation stockpiles



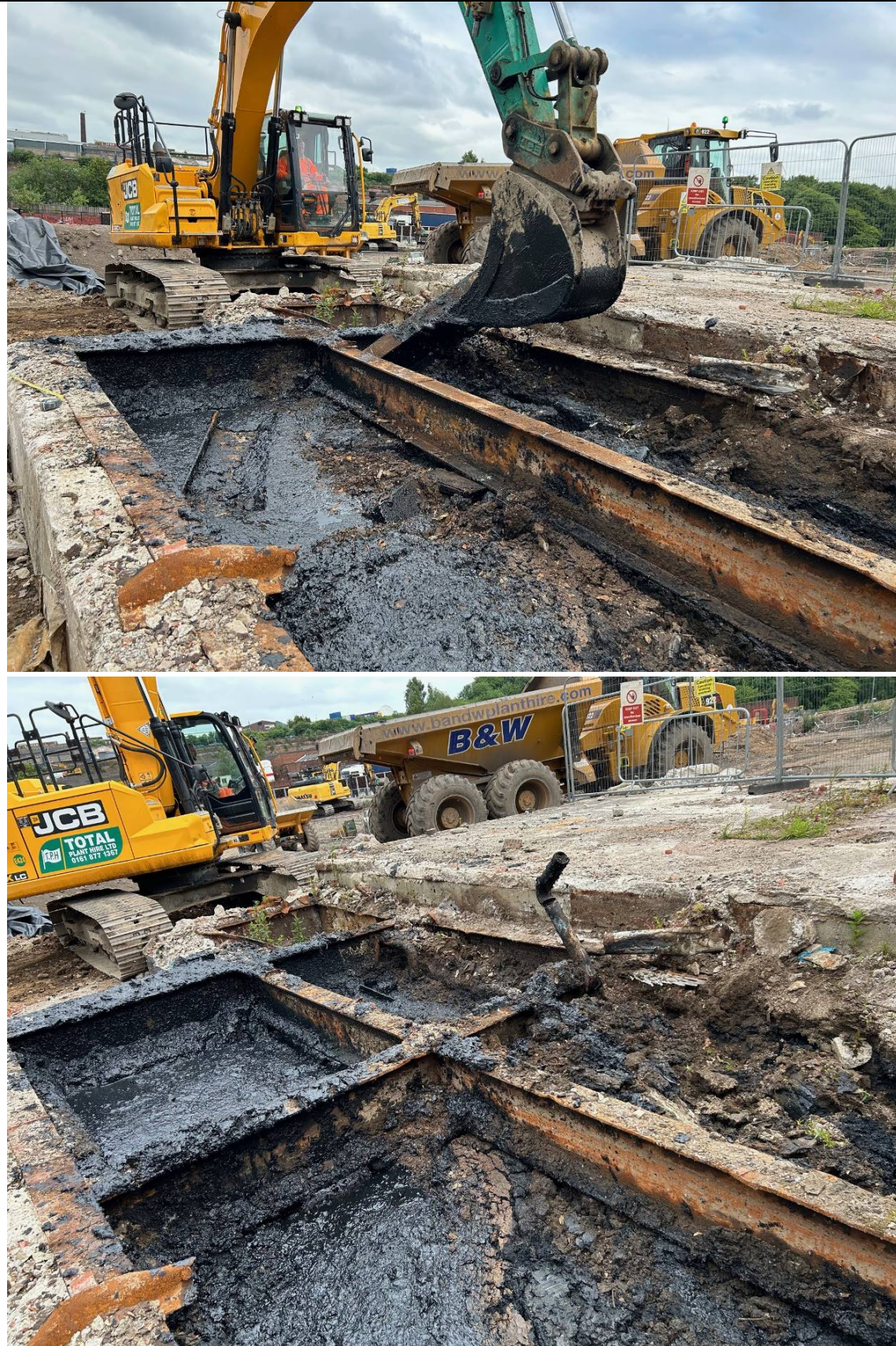




NT02 Tank Removal – insert 9168 9171 9175 9176 9184 9188 9191 9194











Bund for tank materials –







Steel

pipe encountered beneath NT02 tank



General NT02



General NT03





NT04 Archaeological Investigation







General NT04 Photographs







Next Steps (NT02 Tanks)

- Chemical testing of soils beneath tank to determine any impact from sludge contained within tank. Visual inspection did not indicate any significant impact and sludge within tank appears to have been contained within the concrete tank structure.
- Impacted material excavated from within tank to be removed from site
- Survey and removal of any connecting pipes
- Removal of second tank located adjacent to existing gas main. **ROC to be notified 48hr in advance of removal so an engineer can attend site to complete watching brief during removal.**
- Tank removal report once fully removed, pipework's delineated, and chemical testing completed on underlying soils

Next Steps (Monitoring wells)

- Fortnightly samples to be obtained to assess if earthworks are having any impact on TCE and related compound concentrations in groundwater. Next visit to be completed on the 24/25th June.
- Groundwater monitoring report to be updated.

Next Steps (TCE Source Zone)

- Completion of excavations adjacent to retaining wall
- Chemical testing results of excavated and stockpiled material awaited
- Ensure all stockpiled material covered and located on hardstanding material.

Next Step (Earthworks)

- BAM & ROC agreed with Provectus that all soil samples in the area of NT04 & NT03 be attributable to a GPS coord so sample location can be geospatially understood. (Previously only completed in TCE source zone).
- ROC to be provided access to waste notes, volumes of material and chemical testing results.
- Dust generation noted due to drier weather, Provectus have arranged for a water bowser to dampen down soils. Dust levels to be monitored going forward.

Asbestos boundary monitoring

- Boundary monitoring for asbestos fibres **not** currently in place as described in the Remediation Strategy.

Installation of proposed gas main and conflict with monitoring boreholes

- It is understood that two of the boreholes being utilised for ongoing monitoring and located in close proximity to the proposed Cadent gas main diversion. With one being ~1.10m from the centreline and the second being >2.00m from the centreline. Andy Campbell of BAM in discussion with Cadent and to update on any implications.
- If boreholes are damaged or removed during the installation of the gas main, they must be redrilled/reinstated ASAP to facilitate the ongoing groundwater monitoring programme.

Signed..... **Reece McGuinness**

SITE OBSERVATION RECORD

Site Visit to:	NT02-04 Enabling Works
Client:	FEC
Job Number:	4328
Site Visit by:	William Crane / Reece McGuinness
Date & Time of Inspection:	19.07.2024 0800
Weather Conditions:	Dry / Sunny
Purpose of Inspection:	General Site Walkover
Person Seen on Site:	Joseph Holmes (BAM)
Areas Inspected:	NT02, NT03 and NT04

Work in Progress:

- Gas main diversion installed / backfilled, connection to existing main south of site not yet complete
- Storage tanks removed – ROC not on site during the works
- Piled foundations removed NT02 ROC not on site during the works, earthworks being undertaken
- NT03 Concrete crushing / grading machine working
- NT04 Earthworks ongoing.
- NT04 Archaeological investigation of former print works.
- Joeseph Holmes indicated concern on ponding of water from NT04 slope to southern area of NT04 (low spot on site).

General Observations:

Gas Main installed



Head of diverted gas main at foot of NT02 retaining wall, main trench infilled



Diverted gas main at Road, main trench infilled

NT02 Storage tanks removed, relic foundations removed and ongoing earthworks



NT03 Concrete crushing / grading on going



NT04 ongoing earth works



NT04 ongoing earth works



NT04 ongoing archaeological excavations



Next Steps (NT02 Tanks)

- Chemical testing results to be provided of soils beneath tanks to determine any impact from contents.
- Tank removal report once fully removed, pipework's delineated, and chemical testing completed on underlying soils

Next Steps (Monitoring wells)

- Groundwater monitoring report to be updated. Next visit on 23/07/24

Next Steps (TCE Source Zone)

- Completion of excavations adjacent to retaining wall
- Chemical validation testing results awaited

Next Step (Earthworks)

- ROC to be provided access to waste notes, volumes of material and chemical testing results.
- ROC to be provided with access to geotechnical testing results.

Asbestos boundary monitoring

- Boundary monitoring for asbestos fibres **not** currently in place as described in the Remediation Strategy.

Installation of proposed gas main and conflict with monitoring boreholes

- If boreholes are damaged or removed during the installation of the gas main, they must be redrilled/reinstated ASAP to facilitate the ongoing groundwater monitoring programme.

Signed..... William Crane

SITE OBSERVATION RECORD

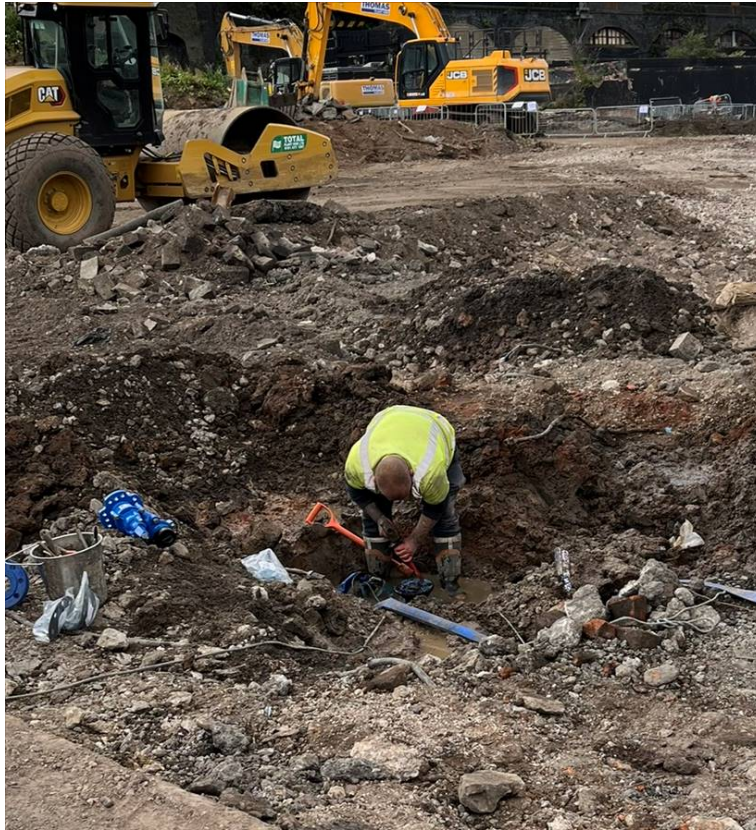
Site Visit to:	NT02-04 Enabling Works
Client:	FEC
Job Number:	4328
Site Visit by:	Dan Casañas
Date & Time of Inspection:	26.07.2024 10:00
Weather Conditions:	Dry / Overcast
Purpose of Inspection:	General Site Walkover
Person Seen on Site:	Joseph Holmes (BAM)
Areas Inspected:	NT02, NT03 and NT04

Work in Progress:

- Water main leak detected under NT03 – UU attended site to repair valve.
- Gas main diversion up to RW tie in installed awaiting works to complete temporary connection in lieu of easement agreement with Network Rail.
- Earthworks cut of contaminated soil to NT02 has completed – awaiting review of testing results by RSK.
- Crushed concrete stockpiled from NT02 & NT03 slab removals for re-use.
- Previous wheel wash was uncovered with associated tank – assumed contaminated material within. Testing results awaited.
- NT03 earthworks awaiting geotechnical testing results prior to fill and creation of piling platform.
- NT04 earthworks on hold – archaeological dig holding up further earthworks exercises to create plateaus and slopes.
- Suspected UU culvert was discovered and is actively discharging following burial.

General Observations:

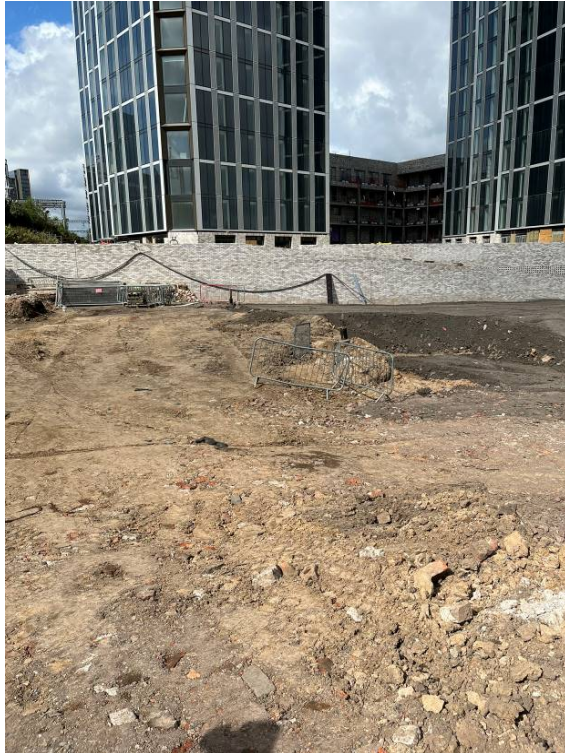
Water main leak repair (NT03)



Gas main diversion



NT02 earthworks post-contaminated soil removal



Crushed concrete slabs stockpile



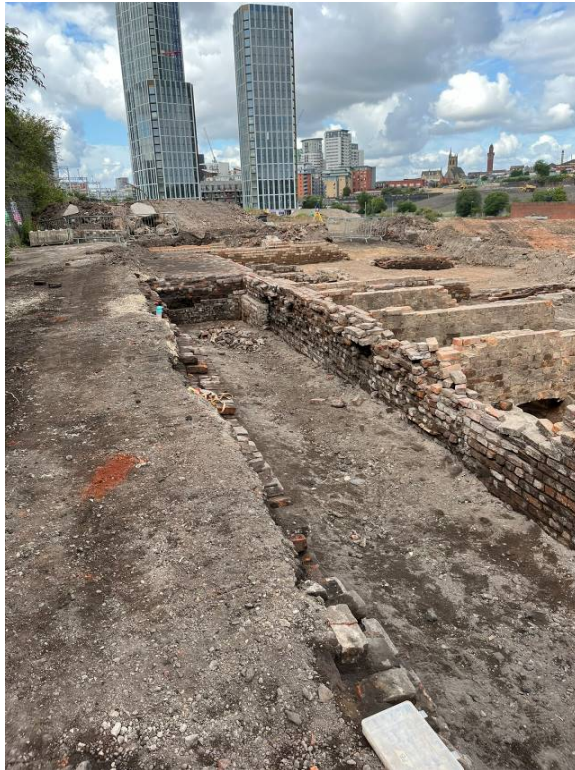
Wheel wash removal (NT03)



NT04 earthworks



Archaeology progress



Suspected UU culvert NT04



Signed..... D Casañas

SITE OBSERVATION RECORD

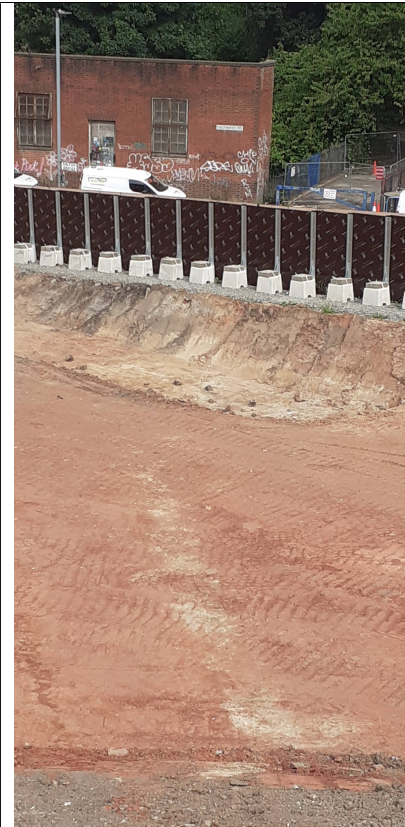
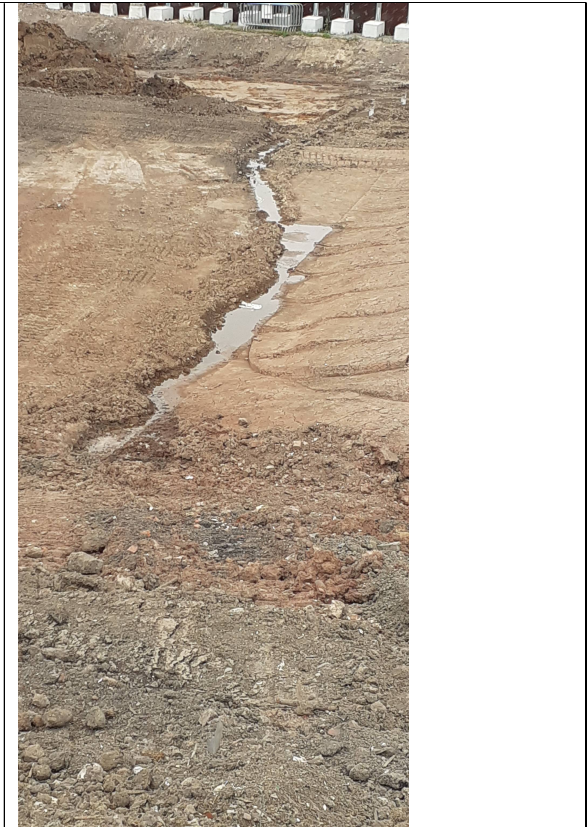
Site Visit to:	NT02-04 Enabling Works
Client:	FEC
Job Number:	4328
Site Visit by:	William Crane
Date & Time of Inspection:	12.08.2024 10 30
Weather Conditions:	Dry Sunny
Purpose of Inspection:	General Site Walkover
Person Seen on Site:	Joseph Holmes (BAM)
Areas Inspected:	NT02, NT03 and NT04

Work in Progress:

- Gas main diversion up to RW tie in installed awaiting works to complete temporary connection in lieu of easement agreement with Network Rail.
- 7no BH locations on NT02 NT03 have been protected using concrete MH rings and numbered
- Earthworks cut of contaminated soil to NT02 has completed awaiting review of testing results by RSK.
- Crushed concrete stockpiled from NT02 NT03 slab removals for re-use.
- Archaeological NT04 dig completed, foundations and brickwork grubbed out awaiting disposal
- NT04 earthworks progressing Ramped access to piling platform, expected to be completed in approx. 7 days
- Suspected culvert NT04 is actively discharging following burial. Photographs provided by BAM 08.13.2024
- RBH504 Reduction, ROC to review reduction and by whom. BAM can reduce earth around RBH504 to provide access to reduce level of head, BAM will also take existing level and reduced level for provision to ROC, BAM to provide 4no poles hard tape to ensure RBH504 is not damaged during future works
- BAM have again raised concerns regarding excavated area within NT04 adjacent Dantick Street the level has been reduced to 30.205mAOD and surface water from the site is likely to drain into the excavation. Responsibility for the management of temporary site drainage during enabling works lies with BAM.

General Observations

		
RBH504 to be reduced in height	NT03	7no BH locations protected and TCE impacted area excavations backfilled
		
Retaining wall abutment	not tied in	Archaeological works completed NT04

		
<p>Excavation low point adjacent Dant ic St NT04</p>	<p>Exposed culvert discharging - NT04</p>	
		
<p>Material stockpile NT02 NT03</p>		



CONSULTING ENGINEERS

Civil
Structural
Earth sciences
Strategic land
Special projects

Signed..... William Crane 0 .13.2024

SITE OBSERVATION RECORD

Site Visit to:	NT02-04 Enabling Works
Client:	FEC
Job Number:	4328
Site Visit by:	Reece McGuinness
Date & Time of Inspection:	23.09.2024 0800
Weather Conditions:	Dry scattered cloud
Purpose of Inspection:	Inspect general site progress
Person Seen on Site:	Joseph Holmes (BAM)
Areas Inspected:	NT02, NT03 and NT04

Work in Progress:

- Construction of piling mat for Network Rail Mound piled retaining wall works
- Minor NT04 earthworks
- Next groundwater monitoring visit by SSL on 30/09/2024

General Observations:

Removal of soils containing deleterious materials



Material imported for piling mat construction



View east across NT03-NT04 clay soils waterlogged –



Network Rail mound –



NT03 waterlogged clay soils –



RBH502 level reduced following earthworks –



View north on NT03 waterlogged ground -



Plateau for piling rig access -



NT03 waterlogged soils



NT04 waterlogged soils



Network Rail Mound Piling Platform



Uncovered relic drainage (NT03/04) -



Next Steps (NT02 Tanks)

- Tank removal report once fully removed, pipework's delineated, and chemical testing completed on underlying soils

Next Steps (Monitoring wells)

- Monthly samples to be obtained. Next visit to be completed on the 24/25th June.
- Groundwater monitoring report to be updated.

Next Steps (TCE Source Zone)

- Completion of excavations adjacent to retaining wall
- Review of soil remediation works for inclusion within validation report
- Provectus remediation completion report

Next Step (Earthworks)

- ROC to be provided access to waste notes, volumes of material and chemical testing results.
- Drainage issues to be remedied.

Signed..... **Reece McGuinness**

SITE OBSERVATION RECORD

Site Visit to:	NT02-04 Enabling Works
Client:	FEC
Job Number:	4328
Site Visit by:	Reece McGuinness
Date & Time of Inspection:	11.04.2024 13 00
Weather Conditions:	Dry cloudy
Purpose of Inspection:	Inspect tanks, locate buried borehole and resurvey in borehole locations.
Person Seen on Site:	oseph Holmes
Areas Inspected:	NT02-03

Work in Progress:

- Demolition of Love Factory complete. Demolition rubble still present on site.
- Thrust block left in-situ pending gas main diversion.
- Storage tank uncovered during Love Factory demolition. Sampled and sent for testing, testing results still awaited and chased with BAM 11 04 2024.
- Japanese Knotweed has been located, removed and tested, of which the majority is considered as hazardous waste. The material is currently stockpiled awaiting disposal.
- Trial pit has been dug on the Eastern wing wall on the mound to expose one side of the footing. Logs awaited.
- Concrete cores have been completed on the eastern wing wall on the mound, records awaited.
- Concrete cores have been completed on the Love Factory retaining wall, records awaited.
- RBH305 uncovered by BAM on site, cover missing and will need reinstatement. RBH502, LKBH01 and RBH505 are also missing covers and will require reinstatement. Replacement of all 8 retained monitoring wells with raised covers advised. BAM advised to fence off all monitoring well locations to prevent any further damage and reconfirmed in email post site visit.
- 3rd Groundwater monitoring visit TBC by SSL on 12.04.2024.

General site view towards Dant ic Street



General site view towards NT04



General Observations:

LKBH01



RBH203



RBH30



RBH501



RBH 02



RBH 03



RBH 04



RBH 0



NT02 retaining wall cores



Network Rail eastern wing wall cores



Next Steps (Tank features)

- Survey of location and form of tank, including search for any connecting pipes needed.
- Obtain soil samples from around the tank.
- Contractor required to remove tank.
- Records of the tanks' removal needed for validation report, including record of any leakage or impact on soil.
- Soil samples required after removal of tank.

Next Steps (Monitoring wells)

- Retained monitoring wells to be reinstated with raised covers and fenced off.
- BAM to provide updated coordinates as surveyed on site.

Signed..... Reece McGuinness

SITE OBSERVATION RECORD

Site Visit to:	NT02-04 Enabling Works
Client:	FEC
Job Number:	4328
Site Visit by:	Dan Casa as
Date & Time of Inspection:	28.03.2024 0 45
Weather Conditions:	Dry cloudy
Purpose of Inspection:	Monthly progress
Person Seen on Site:	oseph Holmes
Areas Inspected:	NT02-03

Work in Progress:

- Demolition of Love Factory complete. Demolition rubble still present on site.
- Thrust block left in-situ pending gas main diversion.
- Trial pits in Love Factory slab retaining wall undertaken and logs circulated.
- Storage tank uncovered during Love Factory demolition. Liquid sampled and sent for testing.
- Demolition of existing boundary fencing on Dant ic Street and Dalton Street has commenced, in preparation for erection of site hoarding.
- apanese Knotweed has been located, removed and tested, of which the ma ority is considered as ha ardous waste. The material is currently stockpiled awaiting disposal.
- Trial pit has been dug on the Eastern wing wall on the mound to expose one side of the footing. Logs awaited.



General Observations:

Trial pits in Love Factory slab



ncovered storage tank



Next Steps

- Survey of location and form of tank, including search for any connecting pipes needed.
- Obtain soil samples from around the tank.
- Contractor required to remove tank.
- Records of the tanks' removal needed for validation report, including record of any leakage or impact on soil.
- Soil samples required after removal of tank.

Backfilled trial pit in retaining wall base



Thrust block left in-situ following Love Factory demolition pending gas main diversion



Trial pit at eastern wing wall



Demolition of site boundary fencing



Signed..... Dan Casa as

SITE OBSERVATION RECORD

Site Visit to:	NT02-04 Enabling Works
Client:	FEC
Job Number:	4328
Site Visit by:	Dan Casa as
Date & Time of Inspection:	30.05.2024 14 00
Weather Conditions:	Dry, overcast
Purpose of Inspection:	General observation of site works progress
Person Seen on Site:	oseph Holmes
Areas Inspected:	NT02, NT03 and NT04

Work in Progress:

- Site hoarding completed along length of Dulwich and Dalton Street.
- Demolition of the slabs to NT02 and the previous concrete batching plant has commenced, with the rubble stockpiled for crushing and re-use.
- Retained boreholes observed to be protected as instructed.
- Recently located oil tanks and existing thrust block left in-situ pending gas main diversion, since they are within the gas main easement.
- A new patch of Japanese Knotweed was discovered on site during the earthworks. It has been fenced off prior to removal with a specialist.
- Site welfare compound has been set up for Provectus.
- Bulk earthworks has commenced on NT04.
- Earthworks to build-up levels in the vicinity of the haul road on NT03 NT04 (adacent to NR RW) has commenced.

General Observations:

General Photo



Site hoarding completed



Demolition to NT02 slabs





Protected borehole on NT02

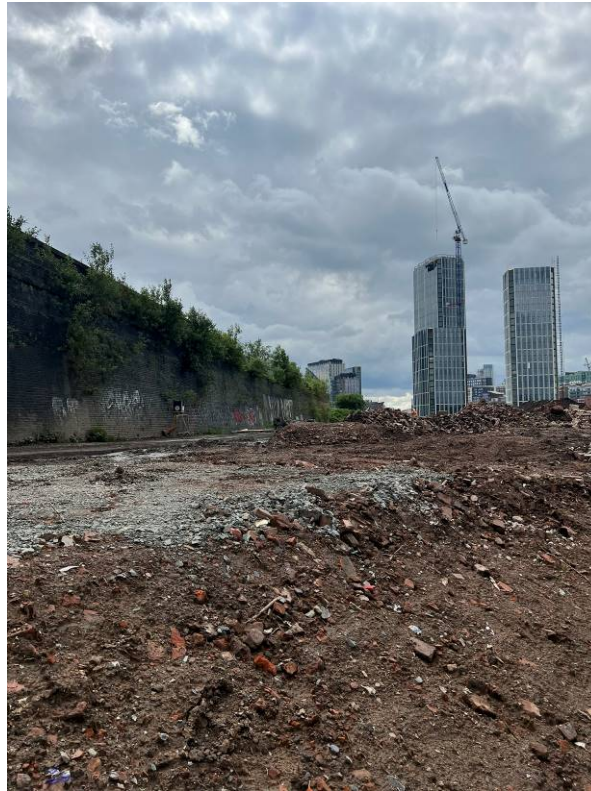


Demolition rubble processing

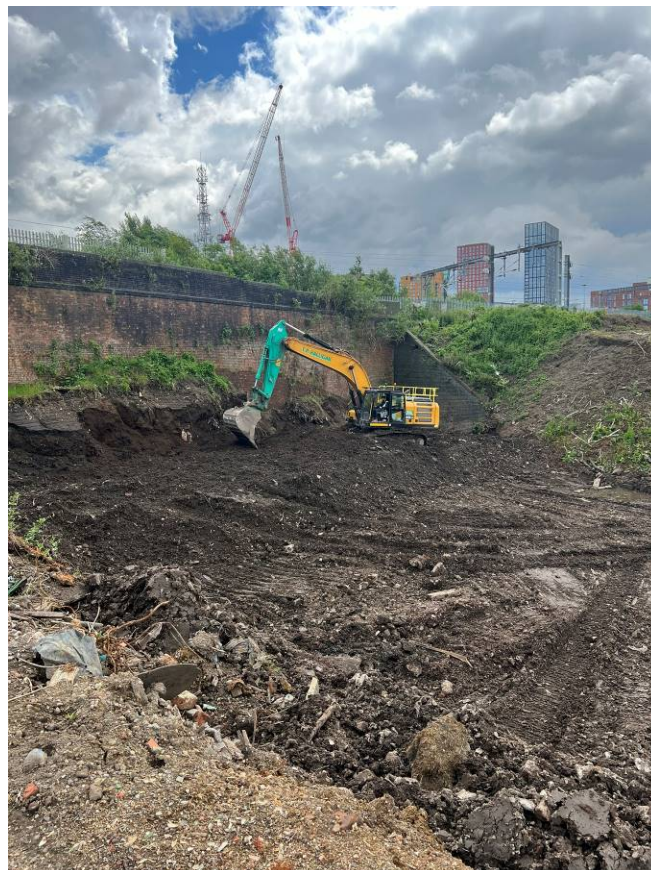


Bulk earthworks to NT04





Haul road earthworks NT03 NT04



Next Steps (Tank features)

- Summary report of tank discoveries and chemical testing findings.
- Survey of any connecting pipes.
- Obtain soil samples from around the tank.
- Contractor required to remove tank.
- Records of the tanks' removal needed for validation report, including record of any leakage or impact on soil.
- Soil samples required after removal of tank.

Signed..... Dan Casa as

SITE OBSERVATION RECORD

Site Visit to:	NT02-04 Enabling Works
Client:	FEC
Job Number:	4328
Site Visit by:	William Crane
Date & Time of Inspection:	21.08.2024 2:00pm
Weather Conditions:	Dry / Sunny
Purpose of Inspection:	General Site Walkover
Person Seen on Site:	Alex Cheregi, (BAM)
Areas Inspected:	NT02, NT03 and NT04

Work in Progress:

- Gas main diversion up to RW tie in installed awaiting works to complete temporary connection in lieu of easement agreement with Network Rail. Gas works continuing in Dantzic Street
- Boundary wall to NT02 being backfilled, due to be completed 21.08.2024. Note:- joints in boundary wall have not been filled adequately – excavation local to joints will need to be dug to expose joint to complete works
- Earthworks cut of contaminated soil to NT02 has completed – awaiting review of testing results by RSK.
- Archaeological NT04 dig completed, foundations and brickwork grubbed out – awaiting disposal + pile of tyres
- NT04 earthworks progressing – Ramped access to piling platform, continuing, query regarding earth batter against retaining wall
- Cables exposed adjacent railway boundary, numerous ‘dead’ cables were identified and removed, works were progressing
- Suspected UU culvert NT04 is actively discharging following burial. Photographs provided by BAM 08.13.2024 CCTV received 27.08.2024 indicating collapse and lateral connections into culvert
- 375mm dia pipe in NT03 (suspected SW run off) has lateral connections, 2nd pipe approx. 225mm dia pipe found adjacent slightly lower – to be investigated
- RBH504 – Reduction ongoing discussions
- BAM have again raised concerns regarding excavated area within NT04 adjacent Dantzic Street the level has been reduced to 30.205mAOD and surface water from the site is likely to drain into the excavation. **Responsibility for the management of temporary site drainage during enabling works lies with BAM.** This is not the position that BAM are taking

General Observations



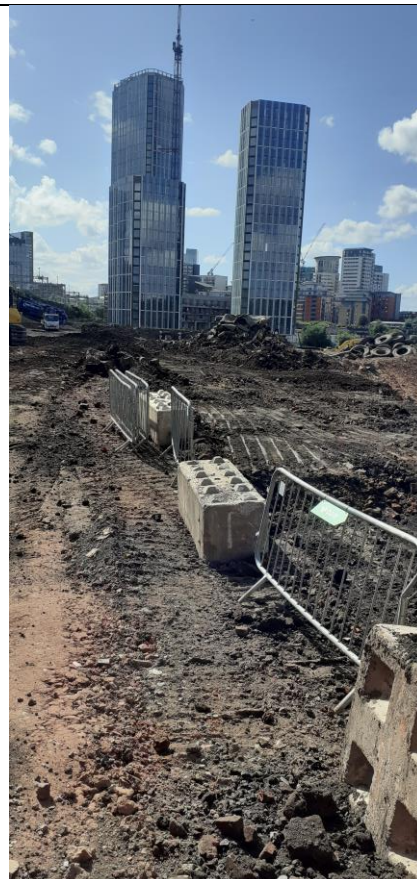
Backfilling to boundary wall – NT02



Backfilling to boundary wall – NT02
Joint in wall not filled



Backfilling to boundary wall – NT02
Foundations to be covered with backfill



Archaeological works completed – NT04
Ramp to piling platform progressing



Ramp to piling platform progressing NT04 – can ground be battered along retaining wall?



Cables exposed adjacent railway boundary in concrete trough



Numerous dead cables exposed and removed adjacent railway boundary



375mm dia SW pipe with approx. 225mm dia additional pipe found adjacent



375mm dia SW pipe – note lateral pipe connection



Brick culvert – CCTV received from BAM 27.08.2024



Excavated area within NT04 – minor ponding of water

Signed..... William Crane 08.28.2024

SITE OBSERVATION RECORD

Site Visit to:	NT02-04 Enabling Works
Client:	FEC
Job Number:	4328
Site Visit by:	Dan Casañas
Date & Time of Inspection:	28.08.2024 13:30
Weather Conditions:	Dry / Overcast
Purpose of Inspection:	General Site Walkover
Person Seen on Site:	Joseph Holmes (BAM)
Areas Inspected:	NT02, NT03 and NT04

Work in Progress:

- Gas main diversion works ongoing – work temporarily halted due to detection of hazardous ‘cold tar’ sealant applied externally to existing gas main. The sealant has to be removed at the locations of tie-ins to ensure a gas-tight seal of the connection collar. Note fragments of the ‘cold tar’ have been left in-situ at each tie-in location (Provectus (ground remediation contractor) have been informed).
- Demolition of the retained area thought to contain the thrust block for the gas main has commenced. Work temporarily halted due to detection of asbestos in the ground (Provectus (ground remediation contractor) have been informed).
- Earthworks to NT02 largely complete.
- Earthworks to NT03 and NT04 ongoing.
- 3no. culverts have been exposed on NT04 plot, 2 of which are unrecorded. Survey information requested from BAM to determine line and level to record as known obstructions.
- Earthworks to create the fill under the piling platform has commenced.
- Excavation of the temporary slope for the NR Retaining wall has commenced.

General Observations

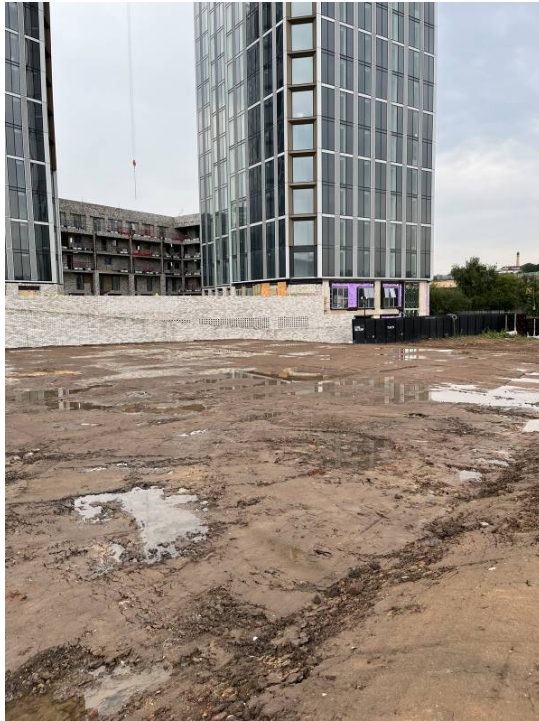
Gas main diversion works



Demolition of retained area thought to contain thrust block



Earthworks progress generally



Network Rail Mound



Culverts observed on NT04 (awaiting detailed survey information)



Signed..... D Casañas

SITE OBSERVATION RECORD

Site Visit to:	NT02-04 Enabling Works
Client:	FEC
Job Number:	4328
Site Visit by:	Reece McGuinness
Date & Time of Inspection:	10.06.2024 0800
Weather Conditions:	Dry scattered cloud
Purpose of Inspection:	Inspect progress of works, witness borehole decommissioning, assist in location of buried boreholes.
Person Seen on Site:	Joseph Holmes
Areas Inspected:	NT02, NT03 and NT04

Work in Progress:

- Bulk earthworks ongoing on NT04.
- NT02 slabs demolished with the exception of northern slab which remains in place for Victoria Riverside crane lift.
- Storage tanks uncovered during Love Factory demolition. Sampled and sent for testing, testing results received and indicate elevated concentrations of hydrocarbons.
- Retained boreholes remain in good condition and protected by pedestrian barriers.
- Recently located oil tanks and existing thrust block left in-situ pending gas main diversion, since they are within the gas main easement.
- Earthworks to build-up levels in the vicinity of the haul road on NT03 NT04 (adjacent to NR RW) underway.
- Excavations in TCE impacted one commenced

General Observations:

Demolition rubble stockpiles in northern area of Plot NT02



NT02 Slab removed



Concrete Stockpile NT03



NT02 Slab broken out and surface compacted



NT02 Northern slab still in place for crane lift



Network Rail Mound



NT03 General



NT04 Earthworks



NT04 Stockpile of deleterious material



NT04 Plateau



Beginning of Source one E cavations



Next Steps (Tank features)

- Survey of any connecting pipes.
- Obtain soil samples from around the tank.
- Contractor required to remove tank.
- Records of the tanks' removal needed for validation report, including record of any leakage or impact on soil.
- Soil samples required after removal of tank.

Next Steps (TCE Source one)

- Soils to be excavated in accordance with Remediation Strategy with supporting testing of soils and validation of soils left in situ. Copies of chemical testing to be provided to ROC.

Signed..... **Reece McGuinness**

SITE OBSERVATION RECORD

Site Visit to:	NT02-04 Enabling Works
Client:	FEC
Job Number:	4328
Site Visit by:	Reece McGuinness
Date & Time of Inspection:	02.12.2024 0800
Weather Conditions:	Dry scattered cloud
Purpose of Inspection:	Inspect tank removal and general site progress
Person Seen on Site:	Joseph Holmes (BAM)
Areas Inspected:	NT02, NT03 and NT04

Work in Progress:
<ul style="list-style-type: none"> • Drilling of in situ chemical reduction (ISCR) wells • On site ISCR trials (injection of deoxygenated water)

General Observations:

View across NT03 (Waterlogged)



Network Rail Mound



Thrust Block Excavated



Installation of ISCR Wells



NT02 Soft Ground



Installation of ISCR Wells (Rotary open hole drilling)



View across NT03-04



Lay Down Area for Piling Materials Adjacent Network Rail Mound



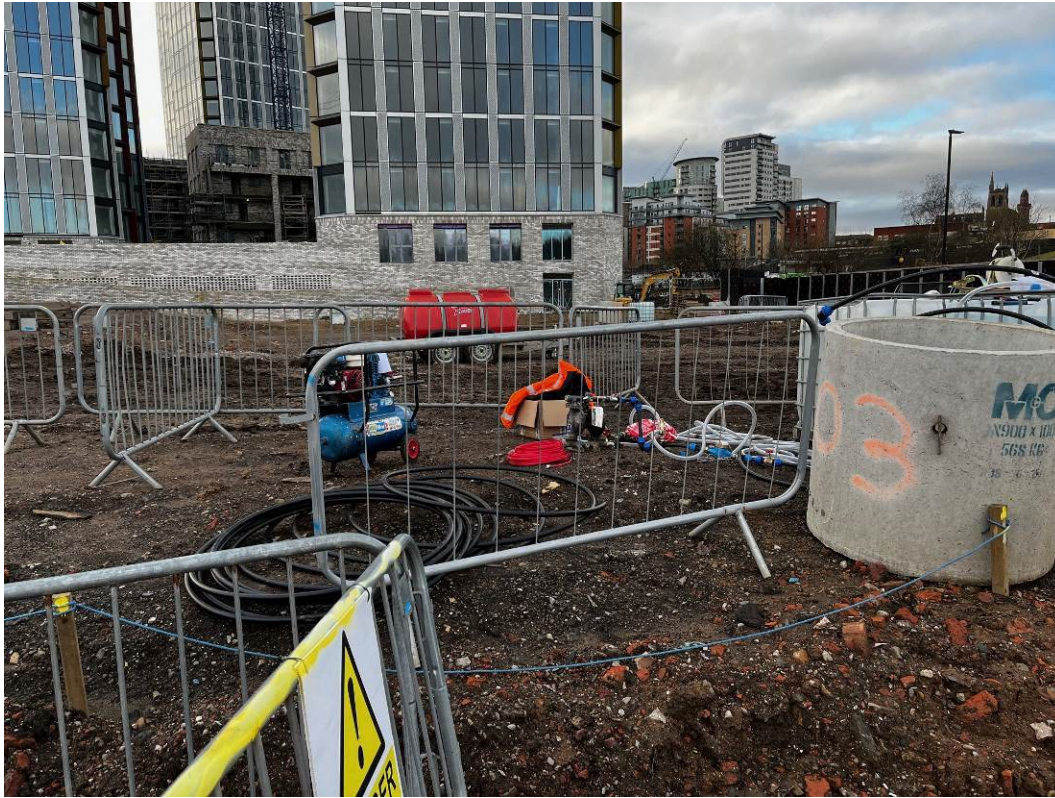
View West Across Site



View South to Site Compound Area



ISCR Test



ISCR Test



ISCR Test



ISCR Test





Sewer Excavation (NT03)



Network Rail Piling Mat



Steps (Monitoring wells)

- Monthly samples to be obtained. Next visit to be completed in January 2025.
- Groundwater monitoring report to be updated.

Next Steps (TCE Source Zone)

- Review of chemical testing information and Provectus remediation report.

Next Step (Earthworks)

- ROC to be provided access to waste notes, volumes of material and chemical testing results.
- Drainage issues to be remedied.

ISCR

- ISCR Injection due to start February
- Remedx to complete baseline monitoring across ISCR wells

Signed..... **Reece McGuinness**



COMPLEX CHALLENGES ...
MADE SIMPLE

APPENDIX D – BOREHOLE DECOMMISSIONING REPORT

Victoria North NT Borehole Decommissioning

Factual Account of Borehole Decommissioning



May 2024
BAM Ritchies Project Reference: RGN.331B-3

Control sheet

Project Name:	Victoria North NT Borehole Decommissioning
Project No:	RGN.331B-3
Client:	BAM Nuttall Ltd
Engineer:	RoC Consulting
Status:	DRAFT
Revision No:	01

Authorisation

	Name	Signature	Date
Prepared by	S Morrell		10/05/2024
Checked by	J Elson		24/05/2024
Approved for issue by	J Hogg		24/05/2024

Distribution

Copy	To	Controlled / Uncontrolled	Date of Issue
01	BAM Nuttall	Controlled	23/05/2023

Revision History

Revision Reference	Revision Description	Date
00	DRAFT	10/05/2024
01	DRAFT	21/05/2024

Note

The scope of the investigation was determined by the Engineer for the particular project requirements set out in the Specification for the Contract.

The decommissioning works were carried out by BAM Ritchies and this report has been prepared for the sole use of the Client. This report shall not be relied upon or transferred to any other parties without the express written authorisation of BAM Ritchies.

This report has been produced by BAM Ritchies

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2 Decommissioned Borehole Location Plan	
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1b Decommissioning logs & photographs	

1.0 Introduction

In April 2024, BAM Ritchies was commissioned by BAM Nuttall on behalf of Manchester City Council (MCC) to decommission groundwater/ground gas monitoring installations at the Victoria North NT site in Collyhurst, Manchester as part of ongoing enabling works.

A range of monitoring installations were present on site from previous phases of ground investigation conducted by third parties. These installations were decommissioned in order to remove potential pathways for on-site contamination to reach underlying aquifers. All positions were decommissioned in accordance with 2012 EA guidelines: Well Type C – Low Permeability Backfill as instructed by the Client.

The works involved using a cable percussive rig to drill out the monitoring installations and insert casing to keep the hole open. As the casing was removed, a grout mixer pumped cement grout into the hole, from the base of the old monitoring installation to ground level.

The scope of the works, which was specified by RoC Consulting design engineers, comprised the following;

- Nineteen groundwater/ground gas monitoring installations decommissioned to a maximum depth of 25.00m (RBH201 & RBH202).

This report presents the factual records of the fieldworks. The report has been prepared in accordance with BS5930:2020¹ and the requirements of the Client.

¹ BS 5930 Code of practice for ground investigations

2.0 The site and geology

2.1 Site description

The site is centred on National Grid Reference (NGR) SJ 8467899461 and lies adjacent to Dantzic Street, Manchester. The site has been divided into three plots, Plot NT02 to the west, Plot NT03 in the centre and Plot NT04 in the east. The site was previously occupied by various structures which have now been demolished. It is understood the site is to be developed with low rise blocks and high rise residential buildings.

Figure 1 shows the location of the site within the region.

2.2 Geology

Information from the BGS indicates bedrock underlying the western section of the site is composed of Sandstone of the Chester Formation. Mudstone of the Manchester Marls Formation is recorded underlying the eastern section of the site.

Superficial Deposits are recorded as overlying the solid geology in the form of Glacial Till (Diamicton).

3.0 Fieldwork

3.1 General

The scope of the works was determined by BAM Nuttall. Fieldwork was carried out between 22 April and 08 May 2024.

3.2 Borehole decommissioning

The monitoring installations to decommission were set out by a BAM Nuttall site engineer. A Dando 3000 cable percussive drilling rig was used to over-drill the existing monitoring installations, then a Putzmeister SP 11 TMR pumped cement bentonite grout into the open hole, up to ground level. A concrete cap was installed at ground level for positions located on hardstanding. As-built co-ordinates were then taken by a BAM Nuttall site engineer. Please refer to logs in Appendix 1 for specific details.

The positions are shown on the exploratory hole plan which comprises Figure 2.

The decommissioned installations are summarised in Table 1.

The decommissioning logs & photographs are presented in Appendix 1.

Tables

- 1 Fieldwork summary

TABLE 1 - FIELDWORK SUMMARY

Project Name: Victoria North NT Enabling Works Client: BAM Nuttall												
Project No: 331B-3				Engineer: RoC Consulting								
INSTALLATION DETAILS				BACKFILL DETAILS								
Hole No	Type	Recorded Response Zone		Hole No	From (mbgl)	To (mbgl)	Date Backfilled		Description	As built coordinates		
		From (mbgl)	To (mbgl)				Start	End		Easting	Northing	GL (mAOD)
LKBH03	SP	3.00	20.00	LKBH03	0.00	20.00	07/05/2024	07/05/2024	Cement bentonite grout	384635.98	399393.61	33.57
LKWS103	SP	1.00	3.00	LKWS103	0.00	3.00	03/05/2024	03/05/2024	Cement bentonite grout	384634.68	399447.34	33.57
WS203	SP	0.50	1.00	WS203	0.00	1.00	02/05/2024	02/05/2024	Cement bentonite grout	384606.86	399381.65	33.59
WS204	SP	0.50	1.50	WS204	0.00	1.50	08/05/2024	08/05/2024	Cement bentonite grout	384645.66	399436.19	32.91
WS301	SP	0.50	1.50	WS301	0.00	1.50	03/05/2024	03/05/2024	Cement bentonite grout	384601.92	399388.78	33.54
WS303	SP	0.50	1.50	WS303	0.00	1.50	03/05/2024	03/05/2024	Cement bentonite grout	384625.83	399404.62	33.56
WS309	SP	1.00	2.00	WS309	0.00	2.00	02/05/2024	02/05/2024	Cement bentonite grout	384638.34	399390.97	31.18
WS310	SP	0.50	1.00	WS310	0.00	1.00	07/05/2024	07/05/2024	Cement bentonite grout	384677.17	399498.98	31.19
WS311	SP	0.50	1.50	WS311	0.00	1.50	07/05/2024	07/05/2024	Cement bentonite grout	384708.23	399442.96	35.04
RBH201	SP	21.00	25.00	RBH201	0.00	25.00	22/04/2024	22/04/2024	Cement bentonite grout	384597.08	399455.18	31.40
RBH202	SP	21.00	25.00	RBH202	0.00	25.00	23/04/2024	23/04/2024	Cement bentonite grout	384640.63	399445.96	32.69
RBH206	SP	21.00	25.00	RBH206	0.00	25.00	25/04/2024	25/04/2024	Cement bentonite grout	384701.93	399491.00	31.85
RBH301	SP	4.00	10.00	RBH301	0.00	10.00	22/04/2024	22/04/2024	Cement bentonite grout	384576.68	399444.27	31.41
RBH302	SP	5.00	12.00	RBH302	0.00	12.00	18/04/2024	18/04/2024	Cement bentonite grout	384606.89	399381.68	33.59
RBH303	SP	5.00	10.00	RBH303	0.00	10.00	18/04/2024	18/04/2024	Cement bentonite grout	384648.45	399425.66	33.26
RBH304	SP	5.00	9.00	RBH304	0.00	9.00	25/04/2024	25/04/2024	Cement bentonite grout	384680.66	399402.09	34.60
RBH306	SP	9.00	11.00	RBH306	0.00	11.00	23/04/2024	23/04/2024	Cement bentonite grout	384692.00	399446.81	33.73
RBH401	SP	11.50	16.50	RBH401	0.00	16.50	26/04/2024	26/04/2024	Cement bentonite grout	384698.71	399410.25	43.16
RBH403	SP	11.50	16.50	RBH403	0.00	16.50	26/04/2024	26/04/2024	Cement bentonite grout	384717.73	399423.10	42.88

For Abbreviations see Key to Exploratory Hole Records

Figures

- 1 Site Location Plan
- 2 Decommissioned Borehole Location Plan



Legend Key

 Project Bounds



SITE PLAN

Project Name: Victoria North NT Enabling Works

Project No: 331B-3

Client: BAM Nuttall

Engineer: RoC Consulting

Contractor: BAM Ritchies

Date: 10/05/2024

Scale: 1:3500



Microsoft product screen shot(s) reprinted with permission from Microsoft Corporation



Figure No		331B-3/2	
Exploratory Hole Locations			
Project Name:	Victoria North NT Decommissioning		
Project No:	331B-3		
Client:	Homes England Housing Infrastructure Fund		
Engineer:	BAM Nuttall		
Contractor:	BAM Ritchies		
Date:	21/05/2024		
Scale:	1:700		
BAM R Hole Location Plan A3 Landscape Fig 09/09/2016			

Appendices

Appendix 1

- 1a Key to decommissioning logs
- 1b Decommissioning logs & photographs

KEY TO EXPLORATORY HOLE RECORDS

LOCATION TYPES

(abbreviations based on AGS 4.0 : 2011)

CP	Cable percussion	PM	Pressuremeter test hole
DCP	Dynamic cone penetrometer	RC	Rotary cored
DP	Dynamic probe sampling	RO	Rotary open hole
EXP	Logged exposure	SCP	Static cone penetrometer
HA	Hand Auger	SNC	Sonic core drilling
ICBR	In situ CBR test	TP	Trial pit/trench
IDEN	In situ density test	TRAV	Linear logging traverse or scanline survey
INST	instrument	VC	Vibrocore
IP	Inspection pit	W	Wash boring
IRDX	In situ redox test	WLS	Dynamic (windowless) sampler
IRES	In situ resistivity	WS	Window Sampler
IVAN	In situ vane test	CC	Concrete core
OP	Observation pit/trench	IPLT	In situ plate loading test

SAMPLES

(abbreviations based on AGS 4.0 : 2011)

AMAL	Amalgamated sample	L / Liner	Window Sample Liner Sample
B	Bulk disturbed sample	LB	Large bulk disturbed sample
BLK	Block sample	P	Piston sample
C	Core sample	TW	Thin walled push in sample
CBR	CBR mould sample	U	Undisturbed sample - open drive
D	Small disturbed sample	UT	Thin wall open drive tube sampler
ES	Soil sample for environmental testing (suite of containers)	W	Water sample
EW	Water sample for environmental testing (suite of containers)	G	Gas sample
RC	Rotary Core Run	NR	No recovery
WS(1)	Window Sample Run No.	D-NR	No recovery from SPT

IN SITU TESTS

SPT S or SPT C	Standard Penetration Test, open shoe (S) or solid cone (C) Incremental blow count / penetration given on Borehole Hole Information Sheet Summary result given on borehole log as N value, N=**, where the full test drive of 300mm is reached otherwise as blow count/penetration in mm. Details result, Self Weight Penetration and Hammer Energy Ratio given on Borehole Information Sheet
BHV	Borehole Vane Test - result given as peak(remoulded)
HV	Hand Vane Test - result given as peak(remoulded)
PP	Pocket Penetrometer Test, result given as shear strength
kBFH	Borehole Falling Head Permeability Test
kBRH	Borehole Rising Head Permeability Test
kBCH	Borehole Constant Head Permeability Test
kBPT	Borehole Contant Head Packer Permeability Test
kSPFH	Standpipe/Piezometer Falling Head Permeability Test
kSPRH	Standpipe/Piezometer Rising Head Permeability Test
kSPCH	Standpipe/Piezometer Constant Head Permeability Test
Soak	Soakaway Test
Eh	Redox Potential Test
Rs	Resistivity Test
SRDS	Sand Replacement Density Test, Small Pouring Cylinder
SRDL	Sand Replacement Density Test, Large Pouring Cylinder
CCD	Core Cutter Density Test
DCP	CBR from Dynamic Cone Penetrometer (DMRB HD29/08 Section 7.27)
CBR	In situ CBR apparatus (BS1377-9:1990 Section 4.3)
MEX	Mexecone

CORE RECORDS

(abbreviations based on BS5930:2015)

TCR	Total Core Recovery
SCR	Solid Core Recovery
RQD	Rock Quality Designation
If min	Minimum Fracture Spacing
If ave	Average Fracture Spacing
If max	Maximum Fracture Spacing
FI	Fracture Index - number of fractures per metre
CRF	Core recovered in the following run given in detailed description
AZCL	Assessed zone of core loss
NR	No recovery
NI	Non-intact

In inclined boreholes depth is measured along the core axis and dips are given with respect to the normal to the core axis The assessment of SCR, ROD and Fracture Spacing excludes artificial fractures

FLUSH Flush type, returns percentage and colour given on Borehole Information Sheet

GROUNDWATER Details are given on Borehole Hole Information Sheet



Groundwater strike



Groundwater level after standing period



Groundwater strike where level rise recorded after entry.

INSTALLATIONS Type and details of installation and backfill are given on Borehole Hole Information Sheet (based on AGS 4.0 : 2011)

EPIE	Electronic Piezometer	ICM	Inclinometer - Manual
ETM	Magnetic Extensometer	PPIE	Pneumatic Piezometer
ETR	Rod Extensometer	SLIP	Slip indicator
ETT	Tape Extensometer	SP	Standpipe
HPIE	Hydraulic piezometer	SPIE	Standpipe piezometer
ICE	Inclinometer		

Notes

Soils and rocks are described in accordance with BS EN ISO 14688-1 : 2002, 14688-2 : 2004, 14689-1 : 2003 and BS 5930 :2015

References

AGS: 2011 Electronic Transfer of Geotechnical and Geoenvironmental Data AGS4

BS EN ISO 14688-1 : 2002: Geotechnical investigation and testing - Identification and classification of soil - Part 1 Identification and description. BSI

BS EN ISO 14688-2: 2004: Geotechnical investigation and testing - Identification and classification of soil - Part 2 Principles for a classification. BSI

BS EN ISO 14689-1 : 2003: Geotechnical investigation and testing - identification and classification of rock - Part 1 Identification and description. BSI

BS EN ISO 22476-3 : 2005 : Geotechnical investigation and testing - Field testing - Part 3 Standard penetration test. BSI

BS 1377-9:1990, Methods of test for soils for civil engineering purposes – Part 9: In-situ tests. BSI

BS 5930 : 2015 Code of Practice for site investigations. British Standards Institution. BSI

The Highways Agency : 2008 : Volume 7 Section 3 Part 2 HD29/08. Testing at Investigation Sites

KEY TO EXPLORATORY HOLE RECORDS

Network Rail Legend Codes

1 BALLAST

a) With no subgrade erosion

1		Clean Ballast
2		Slightly Dirty Ballast
3		Dirty Ballast
4		Very Dirty Ballast (non-cohesive)
5		Very Dirty Ballast (cohesive)
6		Very dirty ballast (slurried)

2 TRACKBED LAYERS/FILLS

a) Derived from naturally occurring Sands and Gravels. (% refers to clay/ silt content)

11		Fine/Medium Sand (<5%)
12		Coarse Sand (<5%)
13		Sand and Gravel (<5%)
14		Clayey/silty Sand and/or Gravel (5 to 20%)
15		Slurried Sand and/or Gravel (5 to 20%)

b) Quarry Products

16		Stone dust (<5%)
17		Coarse Crushed stone aggregate (<5%)
18		Clayey/silty Crushed Stone Aggregate (5 to 20%)
19		Slurried Crushed Stone Aggregate

3 SUBGRADE

Use legends from section 2 where appropriate,
legend with bold outline indicates natural ground

a) Homogenous Fine Soils (Clay and Silt)

31		Organic/Very Soft
32		Soft Cu < 40kN/m²
33		Firm Cu = 40 to 75kN/m²
34		Stiff Cu = 75 to 150kN/m²
35		Very Stiff / Hard / Very weak Mudstone Cu > 150kN/m²

b) Mixed (Fine and Coarse) Soils

36		Unstratified (clayey/silty Coarse Soil OR sandy or gravelly Fine Soil)
37		Interbedded or weathered/ weakly cemented fine grained rocks

c) Rock or Rockfill

38		Weak fine grained (mudstone, limestone, chalk, fine sandstone)
39		Moderately strong to hard rock

b) With subgrade erosion

7		Slurried Ballast < 10% fines
8		Slurried Ballast > 10% fines
9		Ballast – Voids filled with silt/fine sand
10		Ballast – Voids Filled with soft/firm clay

c) Ash

20		Fine ash (sand sized) (<5%)
21		Coarse ash (gravel sized) (<5%) and
22		Clayey/silty Ash (5 to 20%)
23		Slurried Ash

d) Other granular trackbed materials

24		Fine grained, susceptible to erosion (<5%)
25		Coarse Granular Layer (<5%)
26		Clayey/silty Granular Layer (5 to 20%)
27		Slurried Granular Layer
28		Any of 2 a-d in a clay matrix (20 to 50%)

4 PITCHING LAYERS

29		Clean pitching
30		Slurried Pitching

5 SAMPLE LOSS IN ABS

0x		Soil penetrated by ABS, but not recovered
0d		Soil displaced by ABS – indicative of very soft soil

6 ADDITIONAL INFORMATION

- g** – permeable geotextile separator
- c** – permeable geocomposite
- m** – reinforcing mesh (geogrid)
- p** – impermeable membrane (polythene)
- h** – impermeable geocomposite
- w** – water level (wet samples)
- ws** – standing water (recorded in drill hole)
- hs** – historical slurring
- 34** – shear strength kN/m²
- e** – likely chemical contamination
- L** – >10 % limestone ballast

KEY TO EXPLORATORY HOLE RECORDS

101 - TOPSOIL	
102 - MADE GROUND	
103 - Bituminous Material	
104 - CONCRETE	
201 - CLAY	
202 - Silty CLAY	
203 - Sandy CLAY	
204 - Gravelly CLAY	
205 - Cobbly CLAY	
206 - Bouldery CLAY	
207 - Silty sandy CLAY	
208 - Silty gravelly CLAY	
209 - Silty cobbly CLAY	
210 - Silty bouldery CLAY	
211 - Silty sandy gravelly CLAY	
212 - Silty sandy cobbly CLAY	
213 - Silty sandy bouldery CLAY	
214 - Silty sandy gravelly cobbly CLAY	
215 - Silty sandy gravelly bouldery CLAY	
216 - Silty sandy gravelly cobbly bouldery CLAY	
217 - Silty sandy organic CLAY	
218 - Silty sandy gravelly organic CLAY	
219 - Silty organic CLAY	
220 - Sandy gravelly CLAY	
222 - Sandy cobbly CLAY	
223 - Sandy bouldery CLAY	
224 - Sandy gravelly cobbly CLAY	
225 - Sandy gravelly bouldery CLAY	
226 - Sandy gravelly cobbly bouldery CLAY	
228 - Sandy gravelly organic CLAY	
229 - Organic CLAY	
230 - Gravelly cobbly CLAY	
231 - Silty gravelly cobbly CLAY	
301 - SILT	
302 - Clay/Silt	
303 - Sandy SILT	
304 - Gravelly SILT	
305 - Organic SILT	
309 - Clayey sandy SILT	
310 - Sandy gravelly SILT	
314 - Clayey sandy gravelly organic cobbly SILT	
316 - Sandy cobbly SILT	
317 - Sandy bouldery SILT	
318 - Sandy organic SILT	
319 - Sandy gravelly organic SILT	
320 - Sandy gravelly cobbly SILT	
321 - Sandy gravelly organic cobbly SILT	
322 - Gravelly cobbly SILT	
323 - Gravelly bouldery SILT	
324 - Gravelly organic SILT	

KEY TO EXPLORATORY HOLE RECORDS

325 - Gravelly organic cobbly SILT	
326 - Cobbly SILT	
327 - Cobbly bouldery SILT	
328 - Organic cobbly SILT	
331 - Bouldery SILT	
401 - SAND	
402 - Clayey SAND	
403 - Silty SAND	
404 - Gravelly SAND	
405 - Cobbly SAND	
406 - Bouldery SAND	
410 - Clayey gravelly SAND	
411 - Clayey gravelly cobbly SAND	
412 - Silty gravelly SAND	
413 - Silty gravelly cobbly SAND	
414 - Silty gravelly cobbly bouldery SAND	
415 - Gravelly cobbly SAND	
416 - Gravelly cobbly bouldery SAND	
417 - Gravelly bouldery SAND	
418 - Cobbly bouldery SAND	
430 - SAND and GRAVEL	
431 - Organic SAND	
433 - Silty organic SAND	
434 - Gravelly organic SAND	
435 - Cobbly organic SAND	
436 - Bouldery organic SAND	
501 - GRAVEL	
502 - Clayey GRAVEL	
503 - Silty GRAVEL	
504 - Sandy GRAVEL	
505 - Organic GRAVEL	
506 - Cobbly GRAVEL	
507 - Bouldery GRAVEL	
509 - Clayey sandy GRAVEL	
510 - Clayey cobbly GRAVEL	
511 - Clayey bouldery GRAVEL	
512 - Clayey organic GRAVEL	
513 - Clayey sandy cobbly GRAVEL	
517 - Clayey sandy organic GRAVEL	
520 - Silty sandy GRAVEL	
521 - Silty cobbly GRAVEL	
522 - Silty bouldery GRAVEL	
523 - Silty organic GRAVEL	
524 - Silty organic sandy GRAVEL	
525 - Sandy cobbly GRAVEL	
526 - Sandy bouldery GRAVEL	
527 - Sandy organic GRAVEL	
528 - Silty sandy cobbly GRAVEL	
601 - PEAT	
602 - Clayey PEAT	

KEY TO EXPLORATORY HOLE RECORDS

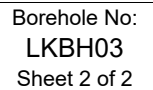
603 - Silty PEAT	
604 - Sandy PEAT	
605 - Gravelly PEAT	
606 - Cobbly PEAT	
608 - Clayey sandy PEAT	
609 - Clayey gravelly PEAT	
612 - Silty sandy PEAT	
613 - Silty sandy gravelly PEAT	
614 - Sandy gravelly PEAT	
701 - COBBLES	
702 - Clayey COBBLES	
703 - Silty COBBLES	
704 - Sandy COBBLES	
705 - Gravelly COBBLES	
706 - Organic COBBLES	
708 - Clayey sandy COBBLES	
709 - Clayey gravelly COBBLES	
713 - Silty sandy COBBLES	
714 - Silty gravelly COBBLES	
715 - Silty organic COBBLES	
716 - Silty gravelly sandy COBBLES	
717 - Silty sandy organic COBBLES	
718 - Silty sandy gravelly organic COBBLES	
719 - Sandy gravelly COBBLES	
720 - Sandy organic COBBLES	
721 - Gravelly organic COBBLES	
725 - COBBLES and BOULDERS	
730 - BOULDERS	
731 - Gravelly cobbly BOULDERS	
801 - MUDSTONE	
802 - SILTSTONE	
803 - SANDSTONE	
804 - LIMESTONE	
805 - CHALK	
806 - COAL	
807 - BRECCIA	
808 - CONGLOMERATE	
809 - Fine grained IGNEOUS	
810 - Medium grained IGNEOUS	
811 - Coarse grained IGNEOUS	
812 - Fine grained METAMORPHIC	
813 - Medium grained METAMORPHIC	
814 - Coarse grained METAMORPHIC	
997 - Undetermined	
998 - No Recovery	
999 - Void	



KEY TO EXPLORATORY HOLE RECORDS

Backfill / Installations

901 - Sand Backfill	
902 - Gravel Backfill	
903 - Bentonite	
904 - Grout	
905 - Arisings	
906 - Concrete	
907 - Asphalt	
909 - Upstand cover	
910 - Flush cover	
Plain Pipe	
Slotted Pipe	



0.00m

BAM R Borehole Log 03/08/2022



BOREHOLE INFORMATION SHEET

Borehole No
LKBH03
Sheet 1 of 1

Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
Project No:	331B-3	Co-ordinates:	384635.98 mE	Checked By:	JE
Client:	Homes England Housing Infrastructure Fund		399393.61 mN	Approved By:	JH
Engineer:	BAM Nuttall	Ground Level:	33.57 mOD	Log Status:	Drilled
Date Started:	07/05/2024	Orientation:	- - deg.	Print Date:	21/05/2024
Date Completed:	07/05/2024	Inclination:	90 deg.	Final Depth:	20.00m

Depth Related Exploratory Hole Information										
From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	20.00	CP	07/05/2024	07/05/2024	T820-634			Ian Slater / Jamie fairhurst		

Boring-Drilling Progress						Hole Diameter by Depth			Casing Diameter by Depth		
Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks	Depth (m)	Dia. (mm)	Remarks	Depth (m)	Dia. (mm)	Remarks
07/05/2024	07:30	20.00	0.00	5.20	Start of shift	20.00	150		20.00	150	
07/05/2024	17:00	0.00	0.00	Dry	Hole complete						
Water Added Records											
From (m)			To (m)			Volume (litres)			Remarks		

Depth Related Remarks				Chiselling / Hard Boring Details				Drilling Flush Details				
From (m)	To (m)	Remarks		From (m)	To (m)	Duration (hh:mm)	Tool	From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes							Monitoring Installation Pipe Work							Backfill Details	
Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks	Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks	From (m)	To (m)
														0.00	0.50
														0.50	20.00
														906	Concrete
														904	Grout

Standard Penetration Test Results																			
Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Decommissioning completed

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

BR-SR13 - Borehole Decommissioning Record

Contract Name:	Victoria North	Contract No:	RGN.331B
Location ID:	LKBH03	Date:	2024-05-08

Location

Type of Locating equipment:

☒ dGPS ☐ GPS

Grid Reference System:

OSGB

Easting:

384635.979

Northing:

399393.606

Datum:

MSL

Elevation (m):

33.568

Location Configuration

Site Type:

☒ Private ☐ Highway ☐ Railway ☐ Soft landscape ☐ Arable Field ☐ Grazing Field

Existing Features:

☐ Protective fence ☐ Raised cover ☒ Flush cover ☐ Instrumentation ☐ Other

Other (please specify:)

Has additional features been removed by decommissioning?

☒ Yes ☐ No ☐ N/A

Can decommissioning work be completed?

☒ Yes ☐ No

General Details

Weather

Dry

Start of shift

2024-05-07

Time:

07:30

End of shift

2024-05-07

Time:

17:00

Pre-condition Photographs

#	Photograph
1	



#	Photograph
2	



#	Photograph
3	

Over-drill Log

Has the location been over-drilled?

☒ Yes ☐ No

A drillers log (BR-SR1) must also be completed for over-drilled locations.

Borehole and Installation Details

Reason for abandonment:

End of monitoring

Borehole Diameter (mm)

150

Installations

ID	Type	Diameter (mm)	Response Zone (mbgl)		Dip (mbgl)	
LKBH03	SP - Standpipe	50	Top:	3.00	Base:	20.00
	Distance (m): 20.00		Base:	20.00	Water:	5.20 ☐ or Dry

Decommissioning Details:

Decommissioning well type (EA,2012):

C - Low Permeability Backfill

Has pipework been removed:

☒ Yes
 ☐ No
 ☐ N/A

Depth pipe cut off (mbgl):

20.00

Grout mixer used (Equipment Make/Model):

Putzmeister

Backfill Rows

Top (mbgl):	Base (mbgl):	Type	Estimated Volume	Details
0.00	0.50	906 - Concrete Method: ☐ Tremie pipe ☒ Poured	Litres: 9 m3: 0.009	Volume used: Litres: 20kg bags: m3: 9 0.009 Comments (mix ratio / compaction type):
0.50	20.00	904 - Grout Method: ☒ Tremie pipe ☐ Poured	Litres: 345 m3: 0.345	Volume used: Litres: 20kg bags: m3: 350 0.35 Comments (mix ratio / compaction type):

Cap Dimensions

Has a concrete cap been placed?

☒ Yes
 ☐ No

Cap Top Depth (m):

0.00

Cap Width (m):

0.30

Cap Length (m):

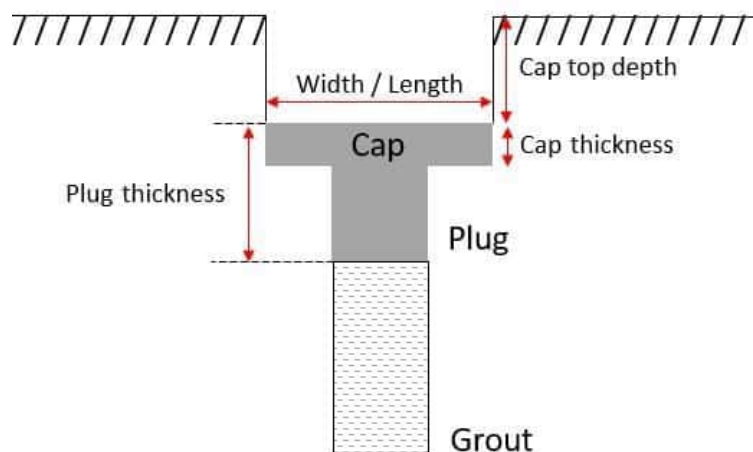
0.30

Cap Thickness (m):

0.20

Plug Thickness (m):

0.30



Post-condition Photographs

#	Photograph
1	

#	Photograph
2	



#	Photograph
3	



#	Photograph
4	

Sketch

Include sketch (if applicable):

Operative Details

Is decommissioning works complete?

☒ Yes ☐ No

Additional Remarks

Office:

GI Warrington

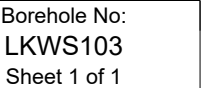
Form completed by:

Ian Slater



07 May 2024 10:17:39 +01:00

Form revision: 1.0.0 (2024-04-10)



Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
		Co-ordinates:	384634.68 mE	Checked By:	JE
Project No:	331B-3		399393.61 mN	Approved By:	JH
Client:	Homes England Housing Infrastructure Fund	Ground Level:	33.57 mOD	Scale:	1:50
Engineer:	BAM Nuttall			Log Status:	Drilled
Date Started:	03/05/2024	Orientation:	- - deg.	Print Date:	21/05/2024
Date Completed:	03/05/2024	Inclination:	90 deg.	Final Depth:	3.00m

[illegible]

Stratum depths measured along borehole axis.	Remarks
Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.	Existing monitoring installation over drilled and grouted. See attached decommissioning form for details.
Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'	
Further details given on appended 'Borehole Information Sheet'.	



BOREHOLE INFORMATION SHEET

Borehole No
LKWS103
Sheet 1 of 1

Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
Project No:	331B-3	Co-ordinates:	384634.68 mE	Checked By:	JE
Client:	Homes England Housing Infrastructure Fund		399393.61 mN	Approved By:	JH
Engineer:	BAM Nuttall	Ground Level:	33.57 mOD	Log Status:	Drilled
Date Started:	03/05/2024	Orientation:	- - deg.	Print Date:	21/05/2024
Date Completed:	03/05/2024	Inclination:	90 deg.	Final Depth:	3.00m

Depth Related Exploratory Hole Information											
From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks	
0.00	3.00	CP	03/05/2024	03/05/2024	T820-774			Chris Hewitt / Jamie Fairhurst			

Boring-Drilling Progress						Hole Diameter by Depth			Casing Diameter by Depth		
Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks	Depth (m)	Dia. (mm)	Remarks	Depth (m)	Dia. (mm)	Remarks
03/05/2024	15:00	3.00	0.00	Dry	Start of shift	3.00	150		3.00	150	
						Water Added Records					
						From (m)	To (m)	Volume (litres)	Remarks		

Depth Related Remarks				Chiselling / Hard Boring Details				Drilling Flush Details				
From (m)	To (m)	Remarks		From (m)	To (m)	Duration (hh:mm)	Tool	From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes						Monitoring Installation Pipe Work								Backfill Details			
Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks	Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks	From (m)	To (m)	Legend	Description
														0.00	0.50	906	Concrete
														0.50	3.00	904	Grout
		</															

Standard Penetration Test Results																				
Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%	

Reason for Hole Termination: Decommissioning completed

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

BR-SR13 - Borehole Decommissioning Record

Contract Name:	Victoria North	Contract No:	RGN.331B
Location ID:	LKWS103	Date:	2024-05-03

Location

Type of Locating equipment:

☒ dGPS ☐ GPS

Grid Reference System:

OSGB

Easting:

384634.675

Northing:

399447.339

Datum:

MSL

Elevation (m):

33.568

Location Configuration

Site Type:

☒ Private ☐ Highway ☐ Railway ☐ Soft landscape ☐ Arable Field ☐ Grazing Field

Existing Features:

☐ Protective fence ☐ Raised cover ☒ Flush cover ☐ Instrumentation ☐ Other

Other (please specify:)

Has additional features been removed by decommissioning?

☒ Yes ☐ No ☐ N/A

Can decommissioning work be completed?

☒ Yes ☐ No

General Details

Weather

Overcast

Start of shift

2024-05-03

Time:

08:00

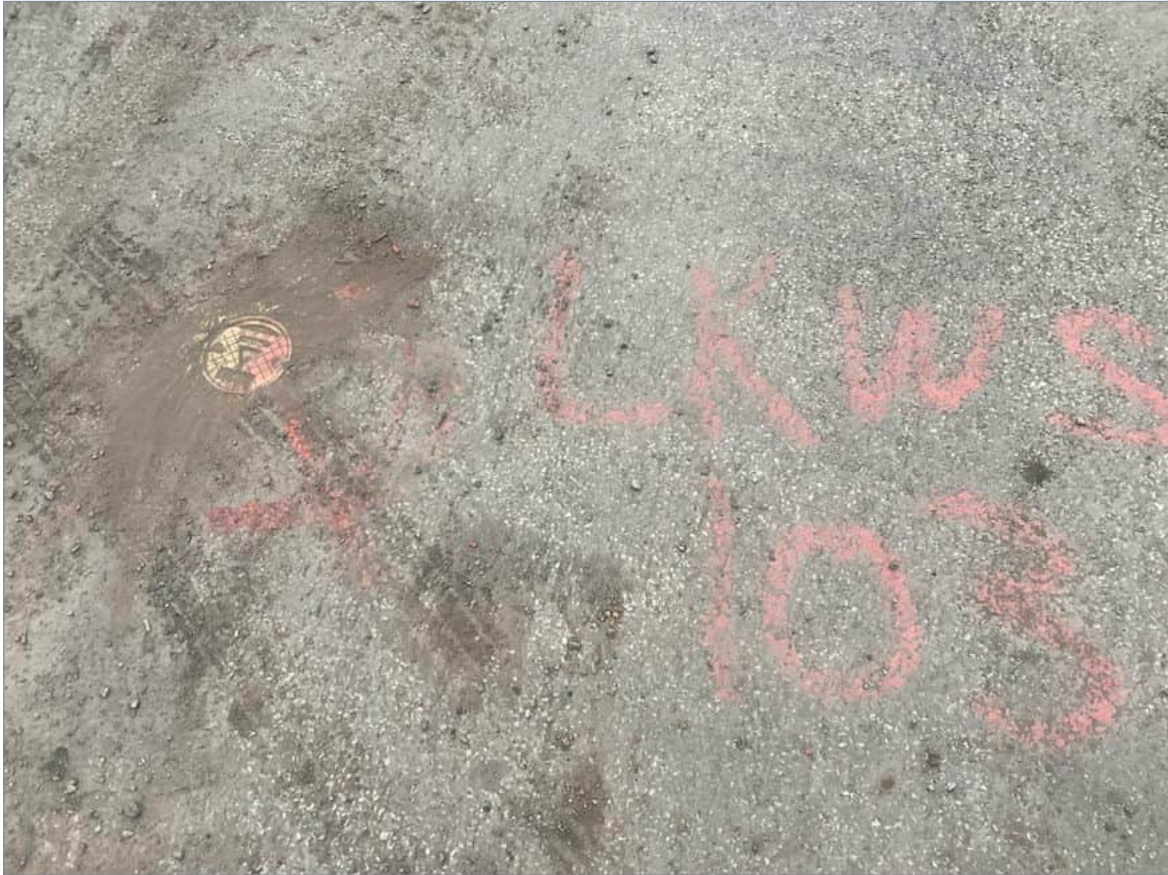
End of shift

2024-05-03

Time:

15:00

Pre-condition Photographs

#	Photograph
1	



#	Photograph
2	



#	Photograph
3	



#	Photograph
4	



Over-drill Log

Has the location been over-drilled?

☒ Yes ☐ No

A drillers log (BR-SR1) must also be completed for over-drilled locations.

Borehole and Installation Details

Reason for abandonment:

End of monitoring

Borehole Diameter (mm)

115

Installations

ID	Type	Diameter (mm)	Response Zone (mbgl)		Dip (mbgl)	
LKWS103	SP - Standpipe	50	Top:	1.00	Base:	3.00
	Distance (m): 3.00		Base:	3.00	Water:	☒ or Dry

Decommissioning Details:

Decommissioning well type (EA,2012):

C - Low Permeability Backfill

Has pipework been removed:

☒ Yes
 ☐ No
 ☐ N/A

Depth pipe cut off (mbgl):

3.00

Grout mixer used (Equipment Make/Model):

Putzmeister

Backfill Rows

Top (mbgl):	Base (mbgl):	Type	Estimated Volume	Details
0.00	0.50	906 - Concrete Method: ☐ Tremie pipe ☒ Poured	Litres: 6 m3: 0.006	Volume used: Litres: 6 20kg bags: m3: 0.006 Comments (mix ratio / compaction type):
0.50	3.00	904 - Grout Method: ☒ Tremie pipe ☐ Poured	Litres: 26 m3: 0.026	Volume used: Litres: 50 20kg bags: m3: 0.05 Comments (mix ratio / compaction type):

Cap Dimensions

Has a concrete cap been placed?

☒ Yes
 ☐ No

Cap Top Depth (m):

0.00

Cap Width (m):

0.30

Cap Length (m):

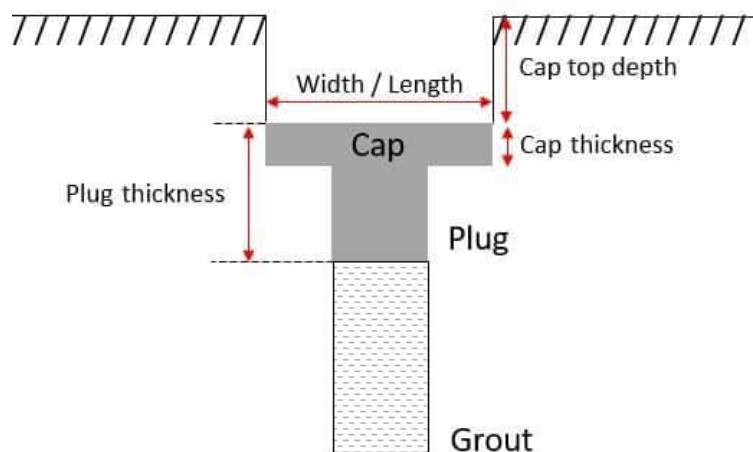
0.30

Cap Thickness (m):

0.20

Plug Thickness (m):

0.30



Post-condition Photographs

#	Photograph
1	



#	Photograph
2	



#	Photograph
3	



Sketch

Include sketch (if applicable):

Operative Details

Is decommissioning works complete?

☒ Yes ☐ No

Additional Remarks

Office:

GI Warrington

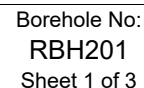
Form completed by:

Chris Hewitt



07 May 2024 13:52:52 +01:00

Form revision: 1.0.0 (2024-04-10)



CP

JE

JH

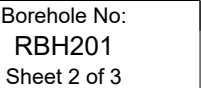
1:50

Drilled

21/05/2024

25.00m

Existing monitoring installation over drilled and grouted. See attached decommissioning form for details.



Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
		Co-ordinates:	384597.08 mE	Checked By:	JE
Project No:	331B-3		399455.18 mN	Approved By:	JH
Client:	Homes England Housing Infrastructure Fund	Ground Level:	31.40 mOD	Scale:	1:50
Engineer:	BAM Nuttall			Log Status:	Drilled
Date Started:	22/04/2024	Orientation:	- - deg.	Print Date:	21/05/2024
Date Completed:	22/04/2024	Inclination:	90 deg.	Final Depth:	25.00m

[illegible]

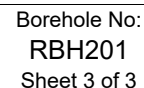
Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Borehole Information Sheet'.

Remarks
Existing monitoring installation over drilled and grouted. See attached decommissioning form for details.



25.00m

Existing monitoring installation over drilled and grouted. See attached decommissioning form for details.



BOREHOLE INFORMATION SHEET

Borehole No
RBH201
Sheet 1 of 1

Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
Project No:	331B-3	Co-ordinates:	384597.08 mE	Checked By:	JE
Client:	Homes England Housing Infrastructure Fund		399455.18 mN	Approved By:	JH
Engineer:	BAM Nuttall	Ground Level:	31.40 mOD	Log Status:	Drilled
Date Started:	22/04/2024	Orientation:	- - deg.	Print Date:	21/05/2024
Date Completed:	22/04/2024	Inclination:	90 deg.	Final Depth:	25.00m

Depth Related Exploratory Hole Information										
From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	25.00	CP	22/04/2024	22/04/2024	T820-634			Richard McCormick / Jamie fairhurst		Redrill and decommissioned

Boring-Drilling Progress						Hole Diameter by Depth			Casing Diameter by Depth		
Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks	Depth (m)	Dia. (mm)	Remarks	Depth (m)	Dia. (mm)	Remarks
22/04/2024	07:30	0.00	0.00	Dry	Start of shift	25.00	150		25.00	150	
22/04/2024	18:00	25.00	25.00	Dry	Hole complete						
Water Added Records											
From (m)			To (m)			Volume (litres)			Remarks		

Depth Related Remarks				Chiselling / Hard Boring Details				Drilling Flush Details				
From (m)	To (m)	Remarks		From (m)	To (m)	Duration (hh:mm)	Tool	From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes							Monitoring Installation Pipe Work							Backfill Details	
Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks	Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks	From (m)	To (m)
														0.00	25.00
														904	Grout

Standard Penetration Test Results																				
Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%	

Reason for Hole Termination: Decommissioning completed

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

BR-SR13 - Borehole Decommissioning Record

Contract Name:	Victoria North	Contract No:	RGN.331B
Location ID:	RBH201	Date:	2024-04-22

Location

Type of Locating equipment:

☒ dGPS ☐ GPS

Grid Reference System:

OSGB

Easting:

384597.0833

Northing:

399455.1755

Datum:

MSL

Elevation (m):

31.400

Location Configuration

Site Type:

☒ Private ☐ Highway ☐ Railway ☐ Soft landscape ☐ Arable Field ☐ Grazing Field

Existing Features:

☐ Protective fence ☐ Raised cover ☒ Flush cover ☐ Instrumentation ☐ Other

Other (please specify:)

Has additional features been removed by decommissioning?

☐ Yes ☐ No ☒ N/A

Can decommissioning work be completed?

☒ Yes ☐ No

General Details

Weather

Dry

Start of shift

2024-04-22

Time:

12:24

End of shift

2024-04-22

Time:

18:00

Pre-condition Photographs

#	Photograph
1	 A photograph showing a borehole site. The ground is dark, loose soil with some rocks. A white plastic cap is placed on the ground, surrounded by a red-painted circle and other red markings. A blue pencil or marker is visible on the ground to the right of the cap. The site is bordered by a metal fence on the left and right sides.

Over-drill Log

Has the location been over-drilled?

☒ Yes ☐ No

A drillers log (BR-SR1) must also be completed for over-drilled locations.

Borehole and Installation Details

Reason for abandonment:

End of monitoring

Borehole Diameter (mm)

150

Installations

ID	Type	Diameter (mm)	Response Zone (mbgl)		Dip (mbgl)	
RBH201	SP - Standpipe	50	Top:	20.00	Base:	25.00
	Distance (m): 25.00		Base:	25.00	Water:	6.10 ☐ or Dry

Decommissioning Details:

Decommissioning well type (EA,2012):

C - Low Permeability Backfill

Has pipework been removed:

☒ Yes
 ☐ No
 ☐ N/A

Depth pipe cut off (mbgl):

25.00

Grout mixer used (Equipment Make/Model):

Pudzmeister

Backfill Rows

Top (mbgl):	Base (mbgl):	Type	Estimated Volume	Details
0.00	25.00	904 - Grout Method: ☒ Tremie pipe ☐ Poured	Litres: 442 m3: 0.442	Volume used: Litres: 20kg bags: m3: 300 0.3 Comments (mix ratio / compaction type): 24 bags

Cap Dimensions

Has a concrete cap been placed?

☐ Yes
 ☒ No

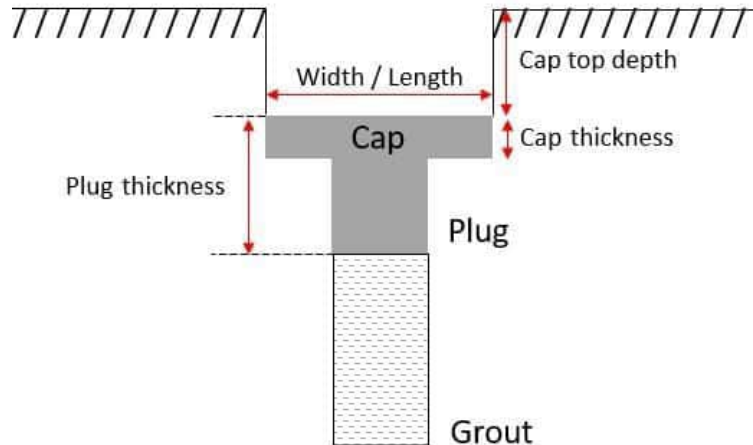
Cap Top Depth (m):

Cap Width (m):

Cap Length (m):

Cap Thickness (m):

Plug Thickness (m):



Post-condition Photographs

#	Photograph
1	



#	Photograph
2	

Sketch

Include sketch (if applicable):

Operative Details

Is decommissioning works complete?

☒ Yes ☐ No

Additional Remarks

Office:

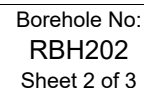
GI Warrington

Form completed by:

Richard McCormick


22 Apr 2024 14:11:51 +01:00

Form revision: 1.0.0 (2024-04-10)



25.00m

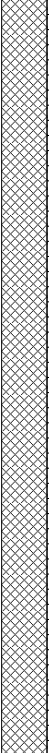
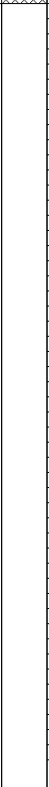
Existing monitoring installation over drilled and grouted. See attached decommissioning form for details.



BOREHOLE LOG

Borehole No:
RBH202
Sheet 3 of 3

Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
Project No:	331B-3	Co-ordinates:	384640.63 mE 399445.96 mN	Checked By:	JE
Client:	Homes England Housing Infrastructure Fund	Ground Level:	32.69 mOD	Approved By:	JH
Engineer:	BAM Nuttall	Orientation:	- - deg.	Scale:	1:50
Date Started:	23/04/2024	Inclination:	90 deg.	Log Status:	Drilled
Date Completed:	23/04/2024			Print Date:	21/05/2024
				Final Depth:	25.00m

Stratum Description	Leg.	Depth (Thick- ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Pea gravel (driller's description).		(5.00)														
Borehole Terminated at 25.00m		25.00	7.69													
																

Stratum depths measured along borehole axis. Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant. Explanation of symbols and abbreviations given in 'Key to Exploratory Holes' Further details given on appended 'Borehole Information Sheet'.	Remarks Existing monitoring installation over drilled and grouted. See attached decommissioning form for details.
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BOREHOLE INFORMATION SHEET

Borehole No
RBH202
Sheet 1 of 1

Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
Project No:	331B-3	Co-ordinates:	384640.63 mE	Checked By:	JE
Client:	Homes England Housing Infrastructure Fund		399445.96 mN	Approved By:	JH
Engineer:	BAM Nuttall	Ground Level:	32.69 mOD	Log Status:	Drilled
Date Started:	23/04/2024	Orientation:	- - deg.	Print Date:	21/05/2024
Date Completed:	23/04/2024	Inclination:	90 deg.	Final Depth:	25.00m

Depth Related Exploratory Hole Information										
From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	25.00	CP	23/04/2024	23/04/2024	T820-634			Richard McCormick / Jamie fairhurst		Overdrill

Boring-Drilling Progress						Hole Diameter by Depth			Casing Diameter by Depth		
Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks	Depth (m)	Dia. (mm)	Remarks	Depth (m)	Dia. (mm)	Remarks
23/04/2024	07:30	0.00	0.00	Dry	Start of shift	25.00	150		25.00	150	
23/04/2024	18:00	0.00	0.00		Hole complete						
Water Added Records											
From (m)			To (m)			Volume (litres)			Remarks		

Depth Related Remarks				Chiselling / Hard Boring Details				Drilling Flush Details				
From (m)	To (m)	Remarks		From (m)	To (m)	Duration (hh:mm)	Tool	From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes							Monitoring Installation Pipe Work							Backfill Details			
Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks	Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks	From (m)	To (m)	Legend	Description
														0.00	0.50	906	Concrete
														0.50	25.00	904	Grout

Standard Penetration Test Results																			
Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Decommissioning completed

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

BR-SR13 - Borehole Decommissioning Record

Contract Name:	Victoria North	Contract No:	RGN.331B
Location ID:	RBH202	Date:	2024-04-18

Location

Type of Locating equipment:

☒ dGPS ☐ GPS

Grid Reference System:

OSGB

Easting:

384640.633

Northing:

399445.961

Datum:

MSL

Elevation (m):

32.694

Location Configuration

Site Type:

☒ Private ☐ Highway ☐ Railway ☐ Soft landscape ☐ Arable Field ☐ Grazing Field

Existing Features:

☐ Protective fence ☐ Raised cover ☒ Flush cover ☐ Instrumentation ☐ Other

Other (please specify:)

Has additional features been removed by decommissioning?

☐ Yes ☐ No ☒ N/A

Can decommissioning work be completed?

☒ Yes ☐ No

General Details

Weather

Dry

Start of shift

2024-04-23

Time:

07:30

End of shift

2024-04-23

Time:

18:00

Pre-condition Photographs

#	Photograph
1	

Over-drill Log

Has the location been over-drilled?

☒ Yes ☐ No

A drillers log (BR-SR1) must also be completed for over-drilled locations.

Borehole and Installation Details

Reason for abandonment:

End of monitoring

Borehole Diameter (mm)

150

Installations

ID	Type	Diameter (mm)	Response Zone (mbgl)		Dip (mbgl)	
RBH202	SP - Standpipe	50	Top:	20.00	Base:	25.00
	Distance (m): 25.00		Base:	25.00	Water:	☐ or Dry

Decommissioning Details:

Decommissioning well type (EA,2012):

C - Low Permeability Backfill

Has pipework been removed:

☒ Yes
 ☐ No
 ☐ N/A

Depth pipe cut off (mbgl):

25.00

Grout mixer used (Equipment Make/Model):

Putzmeister

Backfill Rows

Top (mbgl):	Base (mbgl):	Type	Estimated Volume	Details
0.00	0.50	906 - Concrete Method: ☐ Tremie pipe ☒ Poured	Litres: 9 m3: 0.009	Volume used: Litres: 10 20kg bags: m3: 0.01 Comments (mix ratio / compaction type): 2 bags
0.50	25.00	904 - Grout Method: ☒ Tremie pipe ☐ Poured	Litres: 433 m3: 0.433	Volume used: Litres: 350 20kg bags: m3: 0.35 Comments (mix ratio / compaction type): 28 bags

Cap Dimensions

Has a concrete cap been placed?

☒ Yes
 ☐ No

Cap Top Depth (m):

0.00

Cap Width (m):

0.30

Cap Length (m):

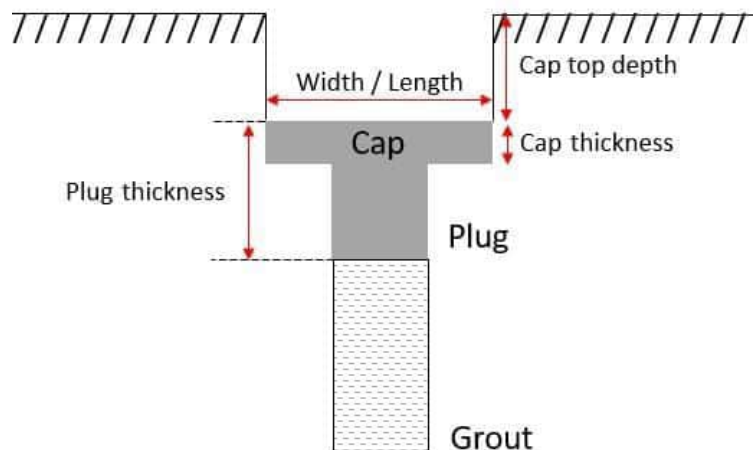
0.30

Cap Thickness (m):

0.20

Plug Thickness (m):

0.30



Post-condition Photographs

#	Photograph
1	

#	Photograph
2	



#	Photograph
3	

Sketch

Include sketch (if applicable):

Operative Details

Is decommissioning works complete?

☒ Yes ☐ No

Additional Remarks

Office:

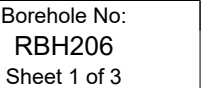
GI Warrington

Form completed by:

Richard McCormick

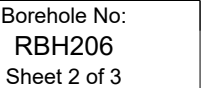

18 Apr 2024 10:52:33 +01:00

Form revision: 1.0.0 (2024-04-10)



Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
		Co-ordinates:	384701.93 mE	Checked By:	JE
Project No:	331B-3		399491.00 mN	Approved By:	JH
Client:	Homes England Housing Infrastructure Fund	Ground Level:	31.85 mOD	Scale:	1:50
Engineer:	BAM Nuttall			Log Status:	Drilled
Date Started:	25/04/2024	Orientation:	- - deg.	Print Date:	21/05/2024
Date Completed:	25/04/2024	Inclination:	90 deg.	Final Depth:	25.00m

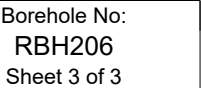
Stratum Description	Leg.	Depth (Thickness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Bentonite (driller's description).																
Stratum depths measured along borehole axis.																
Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.																
Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'																
Further details given on appended 'Borehole Information Sheet'.																
Remarks																
Existing monitoring installation over drilled and grouted. See attached decommissioning form for details.																



Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
		Co-ordinates:	384701.93 mE	Checked By:	JE
Project No:	331B-3		399491.00 mN	Approved By:	JH
Client:	Homes England Housing Infrastructure Fund	Ground Level:	31.85 mOD	Scale:	1:50
Engineer:	BAM Nuttall			Log Status:	Drilled
Date Started:	25/04/2024	Orientation:	- - deg.	Print Date:	21/05/2024
Date Completed:	25/04/2024	Inclination:	90 deg.	Final Depth:	25.00m

[illegible]

Stratum depths measured along borehole axis.	Remarks
Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.	Existing monitoring installation over drilled and grouted. See attached decommissioning form for details.
Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'	
Further details given on appended 'Borehole Information Sheet'.	



Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
		Co-ordinates:	384701.93 mE	Checked By:	JE
Project No:	331B-3		399491.00 mN	Approved By:	JH
Client:	Homes England Housing Infrastructure Fund	Ground Level:	31.85 mOD	Scale:	1:50
Engineer:	BAM Nuttall			Log Status:	Drilled
Date Started:	25/04/2024	Orientation:	- - deg.	Print Date:	21/05/2024
Date Completed:	25/04/2024	Inclination:	90 deg.	Final Depth:	25.00m

[illegible]

Stratum depths measured along borehole axis.	Remarks
Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.	Existing monitoring installation over drilled and grouted. See attached decommissioning form for details.
Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'	
Further details given on appended 'Borehole Information Sheet'.	



BOREHOLE INFORMATION SHEET

Borehole No
RBH206
Sheet 1 of 1

Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
Project No:	331B-3	Co-ordinates:	384701.93 mE	Checked By:	JE
Client:	Homes England Housing Infrastructure Fund		399491.00 mN	Approved By:	JH
Engineer:	BAM Nuttall	Ground Level:	31.85 mOD	Log Status:	Drilled
Date Started:	25/04/2024	Orientation:	- - deg.	Print Date:	21/05/2024
Date Completed:	25/04/2024	Inclination:	90 deg.	Final Depth:	25.00m

Depth Related Exploratory Hole Information										
From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	25.00	CP	25/04/2024	25/04/2024	T820-764			Richard McCormick / Jamie fairhurst		Overdrill

Boring-Drilling Progress						Hole Diameter by Depth			Casing Diameter by Depth		
Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks	Depth (m)	Dia. (mm)	Remarks	Depth (m)	Dia. (mm)	Remarks
25/04/2024	07:30	0.00	0.00	Dry	Start of shift	25.00	150		25.00	150	
25/04/2024	18:00	0.00	0.00	Dry	Hole complete						
Water Added Records											
From (m)			To (m)			Volume (litres)			Remarks		

Depth Related Remarks				Chiselling / Hard Boring Details				Drilling Flush Details				
From (m)	To (m)	Remarks		From (m)	To (m)	Duration (hh:mm)	Tool	From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes							Monitoring Installation Pipe Work							Backfill Details			
Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks	Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks	From (m)	To (m)	Legend	Description
														0.00	25.00	904	Grout

Standard Penetration Test Results																				
Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%	

Reason for Hole Termination: Decommissioning completed

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

BR-SR13 - Borehole Decommissioning Record

Contract Name:	Victoria North	Contract No:	RGN.331B
Location ID:	RBH206	Date:	2024-04-25

Location

Type of Locating equipment:

☒ dGPS ☐ GPS

Grid Reference System:

OSGB

Easting:

384701.931

Northing:

399490.999

Datum:

MSL

Elevation (m):

31.851

Location Configuration

Site Type:

☒ Private ☐ Highway ☐ Railway ☐ Soft landscape ☐ Arable Field ☐ Grazing Field

Existing Features:

☐ Protective fence ☐ Raised cover ☐ Flush cover ☐ Instrumentation ☐ Other

Other (please specify:)

Has additional features been removed by decommissioning?

☐ Yes ☐ No ☒ N/A

Can decommissioning work be completed?

☒ Yes ☐ No

General Details

Weather

Wet

Start of shift

2024-04-25

Time:

09:56

End of shift

2024-04-25

Time:

18:00

Pre-condition Photographs

#	Photograph
1	



#	Photograph
2	



#	Photograph
3	



Over-drill Log

Has the location been over-drilled?

☒ Yes ☐ No

A drillers log (BR-SR1) must also be completed for over-drilled locations.

Borehole and Installation Details

Reason for abandonment:

End of monitoring

Borehole Diameter (mm)

150

Installations

ID	Type	Diameter (mm)	Response Zone (mbgl)		Dip (mbgl)	
RBH206	SP - Standpipe	50	Top:	21.00	Base:	25.00
	Distance (m): 25.00		Base:	25.00	Water:	10.50 ☐ or Dry

Decommissioning Details:

Decommissioning well type (EA,2012):

C - Low Permeability Backfill

Has pipework been removed:

☒ Yes
 ☐ No
 ☐ N/A

Depth pipe cut off (mbgl):

25.00

Grout mixer used (Equipment Make/Model):

Putzmeister

Backfill Rows

Top (mbgl):	Base (mbgl):	Type	Estimated Volume	Details
0.00	25.00	904 - Grout Method: ☒ Tremie pipe ☐ Poured	Litres: 442 m3: 0.442	Volume used: Litres: 20kg bags: m3: 300 0.3 Comments (mix ratio / compaction type): 3:1 bentonite cement 300 litres 24 bags

Cap Dimensions

Has a concrete cap been placed?

☐ Yes
 ☒ No

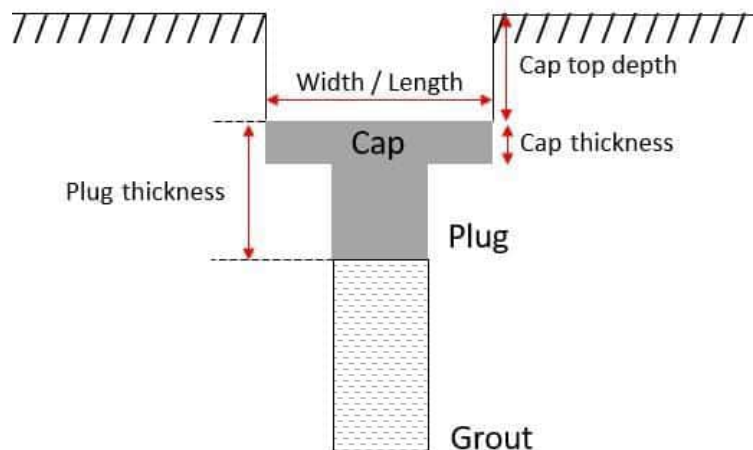
Cap Top Depth (m):

Cap Width (m):

Cap Length (m):

Cap Thickness (m):

Plug Thickness (m):



Post-condition Photographs

#	Photograph
1	



#	Photograph
2	



#	Photograph
3	

Sketch

Include sketch (if applicable):

Operative Details

Is decommissioning works complete?

☒ Yes ☐ No

Additional Remarks

Office:

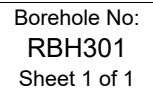
GI Warrington

Form completed by:

Richard McCormick


25 Apr 2024 14:41:05 +01:00

Form revision: 1.0.0 (2024-04-10)



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Remarks
Existing monitoring installation over drilled and grouted. See attached decommissioning form for details.



BOREHOLE INFORMATION SHEET

Borehole No
RBH301
Sheet 1 of 1

Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
Project No:	331B-3	Co-ordinates:	384576.68 mE	Checked By:	JE
Client:	Homes England Housing Infrastructure Fund		399444.27 mN	Approved By:	JH
Engineer:	BAM Nuttall	Ground Level:	31.41 mOD	Log Status:	Drilled
Date Started:	22/04/2024	Orientation:	- - deg.	Print Date:	21/05/2024
Date Completed:	22/04/2024	Inclination:	90 deg.	Final Depth:	10.00m

Depth Related Exploratory Hole Information										
From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	10.00	CP	22/04/2024	22/04/2024	T820-634			Richard McCormick / Jamie fairhurst		Overdrill

Boring-Drilling Progress						Hole Diameter by Depth			Casing Diameter by Depth		
Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks	Depth (m)	Dia. (mm)	Remarks	Depth (m)	Dia. (mm)	Remarks
22/04/2024	07:30	0.00	0.00	Dry	Start of shift	10.00	150		10.00	150	
22/04/2024	18:00	0.00	0.00	Dry	Hole complete						
Water Added Records											
From (m)			To (m)			Volume (litres)			Remarks		

Depth Related Remarks				Chiselling / Hard Boring Details				Drilling Flush Details				
From (m)	To (m)	Remarks		From (m)	To (m)	Duration (hh:mm)	Tool	From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes							Monitoring Installation Pipe Work							Backfill Details			
Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks	Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks	From (m)	To (m)	Legend	Description
														0.00 0.50	0.50 10.00	906 904	Concrete Grout

Standard Penetration Test Results																			
Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Decommissioning completed

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

BR-SR13 - Borehole Decommissioning Record

Contract Name:	Victoria North	Contract No:	RGN.331B
Location ID:	RBH301	Date:	2024-04-22

Location

Type of Locating equipment:

☒ dGPS ☐ GPS

Grid Reference System:

OSGB

Easting:

384576.6815

Northing:

399444.2723

Datum:

MSL

Elevation (m):

31.41

Location Configuration

Site Type:

☒ Private ☐ Highway ☐ Railway ☐ Soft landscape ☐ Arable Field ☐ Grazing Field

Existing Features:

☐ Protective fence ☐ Raised cover ☐ Flush cover ☐ Instrumentation ☐ Other

Other (please specify:)

Has additional features been removed by decommissioning?

☐ Yes ☒ No ☐ N/A

Can decommissioning work be completed?

☒ Yes ☐ No

General Details

Weather

Wet

Start of shift

2024-04-22

Time:

07:30

End of shift

2024-04-22

Time:

18:00

Pre-condition Photographs

#	Photograph
1	 A photograph showing a green and orange drilling rig on a muddy, disturbed site. The rig is positioned on the right side of the frame, with its green frame and orange components visible. A yellow hook is attached to the rig. The ground is dark and muddy, with some debris and rocks scattered around. A green vertical post is visible on the left side of the frame, and a green horizontal beam is at the bottom left. The background shows a dark, possibly paved area.



#	Photograph
2	



Over-drill Log

Has the location been over-drilled?

☒ Yes ☐ No

A drillers log (BR-SR1) must also be completed for over-drilled locations.

Borehole and Installation Details

Reason for abandonment:

End of monitoring

Borehole Diameter (mm)

150

Installations

ID	Type	Diameter (mm)	Response Zone (mbgl)		Dip (mbgl)	
RBH301	SP - Standpipe	50	Top:	4.00	Base:	10.00
	Distance (m): 10.00		Base:	10.00	Water:	☒ or Dry

Decommissioning Details:

Decommissioning well type (EA,2012):

C - Low Permeability Backfill

Has pipework been removed:

☒ Yes
 ☐ No
 ☐ N/A

Depth pipe cut off (mbgl):

10.00

Grout mixer used (Equipment Make/Model):

Putzmeister

Backfill Rows

Top (mbgl):	Base (mbgl):	Type	Estimated Volume	Details
0.50	10.00	904 - Grout Method: ☒ Tremie pipe ☐ Poured	Litres: 168 m3: 0.168	Volume used: Litres: 20kg bags: m3: 200 0.2 Comments (mix ratio / compaction type): 8 bags

Cap Dimensions

Has a concrete cap been placed?

☒ Yes
 ☐ No

Cap Top Depth (m):

0.00

Cap Width (m):

0.30

Cap Length (m):

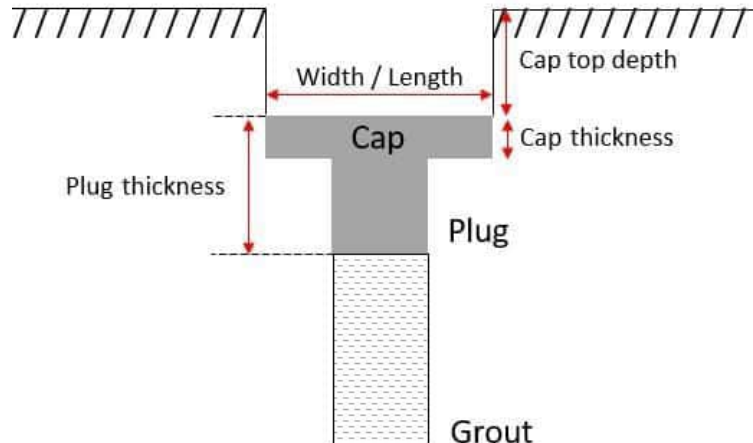
0.30

Cap Thickness (m):

0.20

Plug Thickness (m):

0.30



Post-condition Photographs

#	Photograph
1	



#	Photograph
2	



Sketch

Include sketch (if applicable):

Operative Details

Is decommissioning works complete?

☒ Yes ☐ No

Additional Remarks

Office:

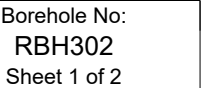
GI Warrington

Form completed by:

Richard McCormick


22 Apr 2024 12:17:23 +01:00

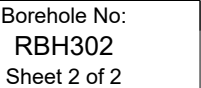
Form revision: 1.0.0 (2024-04-10)



Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
		Co-ordinates:	384606.89 mE	Checked By:	JE
Project No:	331B-3		399381.68 mN	Approved By:	JH
Client:	Homes England Housing Infrastructure Fund	Ground Level:	33.59 mOD	Scale:	1:50
Engineer:	BAM Nuttall			Log Status:	Drilled
Date Started:	18/04/2024	Orientation:	- - deg.	Print Date:	21/05/2024
Date Completed:	19/04/2024	Inclination:	90 deg.	Final Depth:	12.00m

[illegible]

Stratum depths measured along borehole axis.	Remarks
Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.	Existing monitoring installation over drilled and grouted. See attached decommissioning form for details.
Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'	
Further details given on appended 'Borehole Information Sheet'.	



Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
		Co-ordinates:	384606.89 mE	Checked By:	JE
Project No:	331B-3		399381.68 mN	Approved By:	JH
Client:	Homes England Housing Infrastructure Fund	Ground Level:	33.59 mOD	Scale:	1:50
Engineer:	BAM Nuttall			Log Status:	Drilled
Date Started:	18/04/2024	Orientation:	- - deg.	Print Date:	21/05/2024
Date Completed:	19/04/2024	Inclination:	90 deg.	Final Depth:	12.00m

[illegible]

Stratum depths measured along borehole axis.	Remarks
Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.	Existing monitoring installation over drilled and grouted. See attached decommissioning form for details.
Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'	
Further details given on appended 'Borehole Information Sheet'.	



BOREHOLE INFORMATION SHEET

Borehole No
RBH302
Sheet 1 of 1

Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
Project No:	331B-3	Co-ordinates:	384606.89 mE	Checked By:	JE
Client:	Homes England Housing Infrastructure Fund		399381.68 mN	Approved By:	JH
Engineer:	BAM Nuttall	Ground Level:	33.59 mOD	Log Status:	Drilled
Date Started:	18/04/2024	Orientation:	- - deg.	Print Date:	21/05/2024
Date Completed:	19/04/2024	Inclination:	90 deg.	Final Depth:	12.00m

Depth Related Exploratory Hole Information										
From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	12.00	CP	18/04/2024	18/04/2024	T820-634			Richard McCormick / Jamie fairhurst		Overdrill

Boring-Drilling Progress						Hole Diameter by Depth			Casing Diameter by Depth		
Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks	Depth (m)	Dia. (mm)	Remarks	Depth (m)	Dia. (mm)	Remarks
18/04/2024	07:30	0.00	0.00	Dry	Start of shift	12.00	150		12.00	150	
18/04/2024	18:00	12.00	12.00	6.50	Hole complete						
Water Added Records											
From (m)			To (m)			Volume (litres)			Remarks		

Depth Related Remarks				Chiselling / Hard Boring Details				Drilling Flush Details				
From (m)	To (m)	Remarks		From (m)	To (m)	Duration (hh:mm)	Tool	From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes							Monitoring Installation Pipe Work							Backfill Details			
Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks	Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks	From (m)	To (m)	Legend	Description
														0.00	0.50	906	Concrete
														0.50	12.00	904	Grout
			</														

Standard Penetration Test Results																			
Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Decommissioning completed

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

BR-SR13 - Borehole Decommissioning Record

Contract Name:	Victoria North	Contract No:	RGN.331B
Location ID:	RBH302	Date:	2024-04-18

Location

Type of Locating equipment:

☒ dGPS ☐ GPS

Grid Reference System:

OSGB

Easting:

384606.893

Northing:

399381.677

Datum:

MSL

Elevation (m):

33.590

Location Configuration

Site Type:

☒ Private ☐ Highway ☐ Railway ☐ Soft landscape ☐ Arable Field ☐ Grazing Field

Existing Features:

☐ Protective fence ☐ Raised cover ☒ Flush cover ☐ Instrumentation ☐ Other

Other (please specify:)

Has additional features been removed by decommissioning?

☐ Yes ☐ No ☒ N/A

Can decommissioning work be completed?

☒ Yes ☐ No

General Details

Weather

Rain

Start of shift

2024-04-18

Time:

07:30

End of shift

2024-04-18

Time:

18:00

Pre-condition Photographs

#	Photograph
1	

Over-drill Log

Has the location been over-drilled?

☒ Yes ☐ No

A drillers log (BR-SR1) must also be completed for over-drilled locations.

Borehole and Installation Details

Reason for abandonment:

End of monitoring

Borehole Diameter (mm)

150

Installations

ID	Type	Diameter (mm)	Response Zone (mbgl)		Dip (mbgl)	
RBH302	SP - Standpipe	50	Top:	5.00	Base:	12.00
	Distance (m): 12.00		Base:	12.00	Water:	6.50 ☐ or Dry

Decommissioning Details:

Decommissioning well type (EA,2012):

C - Low Permeability Backfill

Has pipework been removed:

☒ Yes
 ☐ No
 ☐ N/A

Depth pipe cut off (mbgl):

12.00

Grout mixer used (Equipment Make/Model):

Putzmeister

Backfill Rows

Top (mbgl):	Base (mbgl):	Type	Estimated Volume	Details
0.00	0.50	906 - Concrete Method: ☐ Tremie pipe ☒ Poured	Litres: 9 m3: 0.009	Volume used: Litres: 20kg bags: m3: 10 0.01 Comments (mix ratio / compaction type): 2 bags
0.50	12.00	904 - Grout Method: ☒ Tremie pipe ☐ Poured	Litres: 204 m3: 0.204	Volume used: Litres: 20kg bags: m3: 75 0.075 Comments (mix ratio / compaction type): 8 bags

Cap Dimensions

Has a concrete cap been placed?

☒ Yes
 ☐ No

Cap Top Depth (m):

0.00

Cap Width (m):

0.30

Cap Length (m):

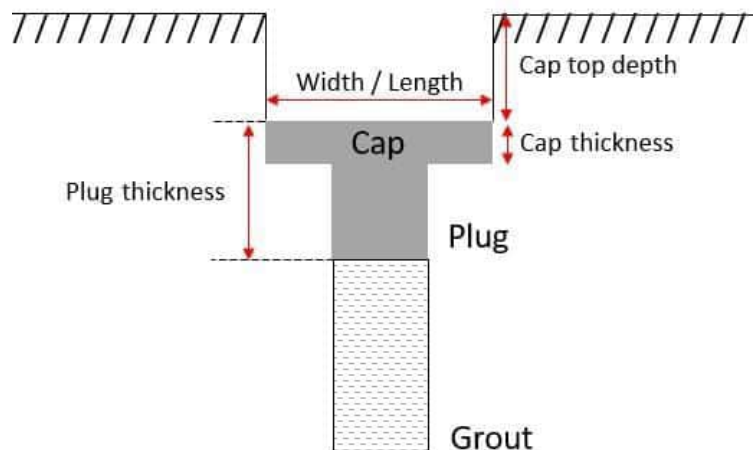
0.30

Cap Thickness (m):

0.20

Plug Thickness (m):

0.30



Post-condition Photographs

#	Photograph
1	

Sketch

Include sketch (if applicable):

Operative Details

Is decommissioning works complete?

☒ Yes ☐ No

Additional Remarks

Office:

GI Warrington

Form completed by:

Richard McCormick


22 Apr 2024 14:34:33 +01:00

Form revision: 1.0.0 (2024-04-10)



BOREHOLE INFORMATION SHEET

Borehole No
RBH303
Sheet 1 of 1

Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
Project No:	331B-3	Co-ordinates:	384648.45 mE	Checked By:	JE
Client:	Homes England Housing Infrastructure Fund		399425.66 mN	Approved By:	JH
Engineer:	BAM Nuttall	Ground Level:	33.26 mOD	Log Status:	Drilled
Date Started:	19/04/2024	Orientation:	- - deg.	Print Date:	21/05/2024
Date Completed:	19/04/2024	Inclination:	90 deg.	Final Depth:	10.00m

Depth Related Exploratory Hole Information										
From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	10.00	CP	18/04/2024	18/04/2024	T820-634			Richard McCormick / Jamie fairhurst		

Boring-Drilling Progress						Hole Diameter by Depth			Casing Diameter by Depth		
Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks	Depth (m)	Dia. (mm)	Remarks	Depth (m)	Dia. (mm)	Remarks
18/04/2024	07:30	0.00	0.00	Dry	Start of shift	10.00	150		10.00	150	
18/04/2024	18:00	10.00	10.00	Dry	Hole complete						
Water Added Records											
From (m)			To (m)			Volume (litres)			Remarks		

Depth Related Remarks				Chiselling / Hard Boring Details				Drilling Flush Details				
From (m)	To (m)	Remarks		From (m)	To (m)	Duration (hh:mm)	Tool	From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes							Monitoring Installation Pipe Work							Backfill Details			
Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks	Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks	From (m)	To (m)	Legend	Description
														0.00	0.50	906	Concrete
														0.50	10.00	904	Grout
															</		

Standard Penetration Test Results																				
Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%	

Reason for Hole Termination: Decommissioning completed

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

BR-SR13 - Borehole Decommissioning Record

Contract Name:	Victoria North	Contract No:	RGN.331B
Location ID:	RBH303	Date:	2024-04-18

Location

Type of Locating equipment:

☒ dGPS ☐ GPS

Grid Reference System:

OSGB

Easting:

384648.453

Northing:

399425.659

Datum:

MSL

Elevation (m):

33.259

Location Configuration

Site Type:

☒ Private ☐ Highway ☐ Railway ☐ Soft landscape ☐ Arable Field ☐ Grazing Field

Existing Features:

☐ Protective fence ☐ Raised cover ☒ Flush cover ☐ Instrumentation ☐ Other

Other (please specify:)

Has additional features been removed by decommissioning?

☐ Yes ☒ No ☐ N/A

Can decommissioning work be completed?

☒ Yes ☐ No

General Details

Weather

Dry

Start of shift

2024-04-18

Time:

07:30

End of shift

2024-04-18

Time:

18:00

Pre-condition Photographs

#	Photograph
1	



Over-drill Log

Has the location been over-drilled?

☒ Yes ☐ No

A drillers log (BR-SR1) must also be completed for over-drilled locations.

Borehole and Installation Details

Reason for abandonment:

End of monitoring

Borehole Diameter (mm)

150

Installations

ID	Type	Diameter (mm)	Response Zone (mbgl)	Dip (mbgl)
RBH303	SP - Standpipe Distance (m): 8.50	50	Top: 2.60 Base: 8.50	Base: 8.50 Water: 8.10 ☐ or Dry

Decommissioning Details:

Decommissioning well type (EA,2012):

C - Low Permeability Backfill

Has pipework been removed:

☒ Yes
 ☐ No
 ☐ N/A

Depth pipe cut off (mbgl):

10.00

Grout mixer used (Equipment Make/Model):

Putzmeister

Backfill Rows

Top (mbgl):	Base (mbgl):	Type	Estimated Volume	Details
0.50	10.00	904 - Grout Method: ☒ Tremie pipe ☐ Poured	Litres: 168 m3: 0.168	Volume used: Litres: 20kg bags: m3: 75 0.075 Comments (mix ratio / compaction type): 6 bags

Cap Dimensions

Has a concrete cap been placed?

☒ Yes
 ☐ No

Cap Top Depth (m):

0.00

Cap Width (m):

0.30

Cap Length (m):

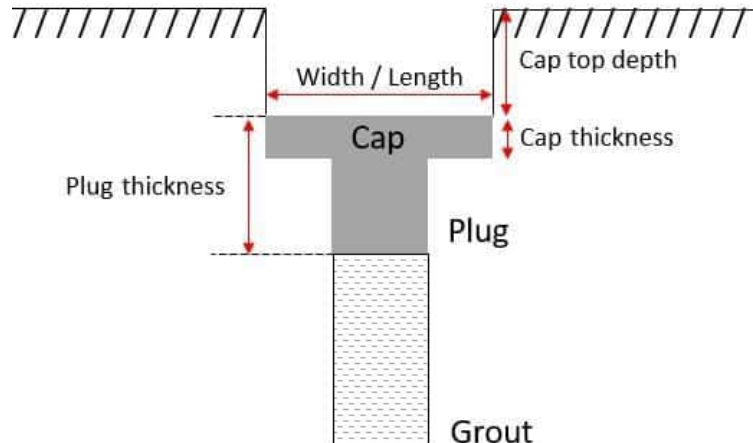
0.30

Cap Thickness (m):

0.20

Plug Thickness (m):

0.30



Post-condition Photographs

#	Photograph
1	



Sketch

Include sketch (if applicable):

Operative Details

Is decommissioning works complete?

☒ Yes ☐ No

Additional Remarks

Office:

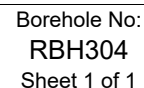
GI Warrington

Form completed by:

Richard McCormick


22 Apr 2024 14:33:02 +01:00

Form revision: 1.0.0 (2024-04-10)



9.00m

Existing monitoring installation over drilled and grouted. See attached decommissioning form for details.



BOREHOLE INFORMATION SHEET

Borehole No
RBH304
Sheet 1 of 1

Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
Project No:	331B-3	Co-ordinates:	384680.66 mE	Checked By:	JE
Client:	Homes England Housing Infrastructure Fund		399402.09 mN	Approved By:	JH
Engineer:	BAM Nuttall	Ground Level:	34.60 mOD	Log Status:	Drilled
Date Started:	25/04/2024	Orientation:	- - deg.	Print Date:	21/05/2024
Date Completed:	25/04/2024	Inclination:	90 deg.	Final Depth:	9.00m

Depth Related Exploratory Hole Information										
From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	11.00	CP	25/04/2024	25/04/2024	T820-634			Richard McCormick / Jamie fairhurst		Overdrill

Boring-Drilling Progress						Hole Diameter by Depth			Casing Diameter by Depth		
Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks	Depth (m)	Dia. (mm)	Remarks	Depth (m)	Dia. (mm)	Remarks
25/04/2024	07:30	0.00	0.00	Dry	Start of shift	9.00	150		9.00	150	
25/04/2024	18:00	0.00	0.00	Dry	Hole complete						
Water Added Records											
From (m)			To (m)			Volume (litres)			Remarks		

Depth Related Remarks				Chiselling / Hard Boring Details				Drilling Flush Details				
From (m)	To (m)	Remarks		From (m)	To (m)	Duration (hh:mm)	Tool	From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes							Monitoring Installation Pipe Work							Backfill Details	
Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks	Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks	From (m)	To (m)
														0.00	9.00
														904	Grout

Standard Penetration Test Results																			
Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Decommissioning completed

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

BR-SR13 - Borehole Decommissioning Record

Contract Name:	Victoria North	Contract No:	RGN.331B
Location ID:	RBH304	Date:	2024-04-25

Location

Type of Locating equipment:

☒ dGPS ☐ GPS

Grid Reference System:

OSGB

Easting:

384680.6566

Northing:

399402.092

Datum:

MSL

Elevation (m):

34.603

Location Configuration

Site Type:

☒ Private ☐ Highway ☐ Railway ☐ Soft landscape ☐ Arable Field ☐ Grazing Field

Existing Features:

☐ Protective fence ☐ Raised cover ☐ Flush cover ☐ Instrumentation ☐ Other

Other (please specify:)

Has additional features been removed by decommissioning?

☐ Yes ☐ No ☒ N/A

Can decommissioning work be completed?

☒ Yes ☐ No

General Details

Weather

Overcast

Start of shift

2024-04-25

Time:

07:30

End of shift

2024-04-25

Time:

18:00

Pre-condition Photographs

#	Photograph
1	



#	Photograph
2	



#	Photograph
3	

#	Photograph
4	

Over-drill Log

Has the location been over-drilled?

☒ Yes ☐ No

A drillers log (BR-SR1) must also be completed for over-drilled locations.

Borehole and Installation Details

Reason for abandonment:

End of monitoring

Borehole Diameter (mm)

150

Installations

ID	Type	Diameter (mm)	Response Zone (mbgl)		Dip (mbgl)	
RBH304	SP - Standpipe	50	Top:	5.00	Base:	9.00
	Distance (m): 9.00		Base:	9.00	Water:	☒ or Dry

Decommissioning Details:

Decommissioning well type (EA,2012):

C - Low Permeability Backfill

Has pipework been removed:

☒ Yes
 ☐ No
 ☐ N/A

Depth pipe cut off (mbgl):

9.00

Grout mixer used (Equipment Make/Model):

Pudzmeister

Backfill Rows

Top (mbgl):	Base (mbgl):	Type	Estimated Volume	Details
0.00	9.00	904 - Grout Method: ☒ Tremie pipe ☐ Poured	Litres: 160 m3: 0.16	Volume used: Litres: 20kg bags: m3: 125 0.125 Comments (mix ratio / compaction type): 3:1 bentonite cement 125 litres 10 bags

Cap Dimensions

Has a concrete cap been placed?

☐ Yes
 ☒ No

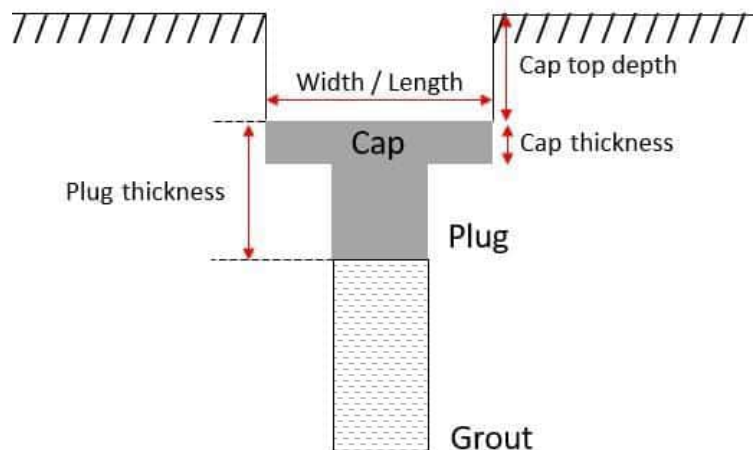
Cap Top Depth (m):

Cap Width (m):

Cap Length (m):

Cap Thickness (m):

Plug Thickness (m):



Post-condition Photographs

#	Photograph
1	 A photograph showing a close-up of a gravelly surface. In the upper left corner, there is a yellow pipe with a blue and red hazard symbol, resting on two weathered metal plates. The ground is covered in grey gravel and some darker soil. A small, light-colored, circular mark is visible in the center of the gravel area.

#	Photograph
2	



Sketch

Include sketch (if applicable):

Operative Details

Is decommissioning works complete?

☒ Yes ☐ No

Additional Remarks

Office:

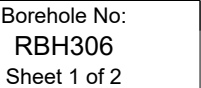
GI Warrington

Form completed by:

Richard McCormick


25 Apr 2024 12:44:03 +01:00

Form revision: 1.0.0 (2024-04-10)



Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
		Co-ordinates:	384692.00 mE	Checked By:	JE
Project No:	331B-3		399446.81 mN	Approved By:	JH
Client:	Homes England Housing Infrastructure Fund	Ground Level:	33.73 mOD	Scale:	1:50
Engineer:	BAM Nuttall			Log Status:	Drilled
Date Started:	30/04/2024	Orientation:	- - deg.	Print Date:	21/05/2024
Date Completed:	30/04/2024	Inclination:	90 deg.	Final Depth:	11.00m

[illegible]

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Borehole Information Sheet'.

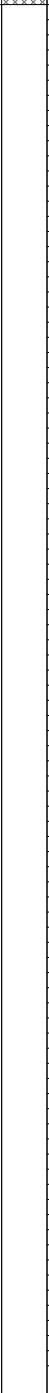
Remarks
Existing monitoring installation over drilled and grouted. See attached decommissioning form for details.



BOREHOLE LOG

Borehole No:
RBH306
Sheet 2 of 2

Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
Project No:	331B-3	Co-ordinates:	384692.00 mE 399446.81 mN	Checked By:	JE
Client:	Homes England Housing Infrastructure Fund	Ground Level:	33.73 mOD	Approved By:	JH
Engineer:	BAM Nuttall	Orientation:	- - deg.	Scale:	1:50
Date Started:	30/04/2024	Inclination:	90 deg.	Log Status:	Drilled
Date Completed:	30/04/2024			Print Date:	21/05/2024
				Final Depth:	11.00m

Stratum Description	Leg.	Depth (Thick- ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Pea gravel (driller's description).																
Borehole Terminated at 11.00m		11.00	22.73													
																

Stratum depths measured along borehole axis. Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant. Explanation of symbols and abbreviations given in 'Key to Exploratory Holes' Further details given on appended 'Borehole Information Sheet'.	Remarks Existing monitoring installation over drilled and grouted. See attached decommissioning form for details.
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BOREHOLE INFORMATION SHEET

Borehole No
RBH306
Sheet 1 of 1

Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
Project No:	331B-3	Co-ordinates:	384692.00 mE	Checked By:	JE
Client:	Homes England Housing Infrastructure Fund		399446.81 mN	Approved By:	JH
Engineer:	BAM Nuttall	Ground Level:	33.73 mOD	Log Status:	Drilled
Date Started:	30/04/2024	Orientation:	- - deg.	Print Date:	21/05/2024
Date Completed:	30/04/2024	Inclination:	90 deg.	Final Depth:	11.00m

Depth Related Exploratory Hole Information										
From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	11.00	CP	23/04/2024	23/04/2024	T820-634			Richard McCormick / Jamie fairhurst		Overdrill

Boring-Drilling Progress						Hole Diameter by Depth			Casing Diameter by Depth		
Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks	Depth (m)	Dia. (mm)	Remarks	Depth (m)	Dia. (mm)	Remarks
23/04/2024	07:30	0.00	0.00	Dry	Start of shift	11.00	150		11.00	150	
23/04/2024	18:00	0.00	0.00	Dry	Hole complete						
Water Added Records											
From (m)			To (m)			Volume (litres)			Remarks		

Depth Related Remarks				Chiselling / Hard Boring Details				Drilling Flush Details				
From (m)	To (m)	Remarks		From (m)	To (m)	Duration (hh:mm)	Tool	From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes							Monitoring Installation Pipe Work							Backfill Details	
Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks	Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks	From (m)	To (m)
														0.00	11.00
														904	Grout

Standard Penetration Test Results																				
Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%	

Reason for Hole Termination: Decommissioning completed

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

BR-SR13 - Borehole Decommissioning Record

Contract Name:	Victoria North	Contract No:	RGN.331B
Location ID:	RBH306	Date:	2024-04-23

Location

Type of Locating equipment:

☒ dGPS ☐ GPS

Grid Reference System:

OSGB

Easting:

384692.0001

Northing:

399446.8116

Datum:

MSL

Elevation (m):

33.730

Location Configuration

Site Type:

☒ Private ☐ Highway ☐ Railway ☐ Soft landscape ☐ Arable Field ☐ Grazing Field

Existing Features:

☐ Protective fence ☐ Raised cover ☐ Flush cover ☒ Instrumentation ☐ Other

Other (please specify:)

Stand pipe

Has additional features been removed by decommissioning?

☐ Yes ☐ No ☒ N/A

Can decommissioning work be completed?

☒ Yes ☐ No

General Details

Weather

Dry

Start of shift

2024-04-23

Time:

07:30

End of shift

2024-04-23

Time:

18:00

Pre-condition Photographs

#	Photograph
1	



#	Photograph
2	



#	Photograph
3	

Over-drill Log

Has the location been over-drilled?

☒ Yes ☐ No

A drillers log (BR-SR1) must also be completed for over-drilled locations.

Borehole and Installation Details

Reason for abandonment:

End of monitoring

Borehole Diameter (mm)

150

Installations

ID	Type	Diameter (mm)	Response Zone (mbgl)		Dip (mbgl)	
RBH306	SP - Standpipe	50	Top:	9.00	Base:	11.00
	Distance (m): 11.00		Base:	11.00	Water:	4.50 ☐ or Dry

Decommissioning Details:

Decommissioning well type (EA,2012):

C - Low Permeability Backfill

Has pipework been removed:

☒ Yes
 ☐ No
 ☐ N/A

Depth pipe cut off (mbgl):

11.00

Grout mixer used (Equipment Make/Model):

Putzmeister

Backfill Rows

Top (mbgl):	Base (mbgl):	Type	Estimated Volume	Details
0.00	11.00	904 - Grout Method: ☒ Tremie pipe ☐ Poured	Litres: 195 m3: 0.195	Volume used: Litres: 20kg bags: m3: 125 0.125 Comments (mix ratio / compaction type): 3:1 bentonite cement 125 litres water 10 x 25kg bags

Cap Dimensions

Has a concrete cap been placed?

☐ Yes
 ☒ No

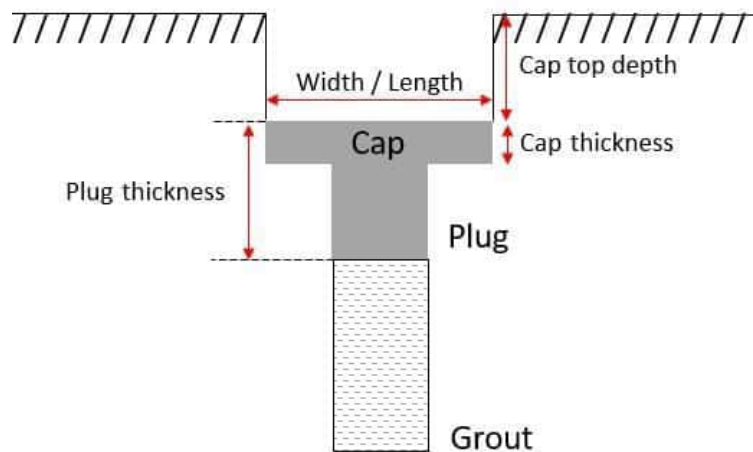
Cap Top Depth (m):

Cap Width (m):

Cap Length (m):

Cap Thickness (m):

Plug Thickness (m):



Post-condition Photographs

#	Photograph
1	



#	Photograph
2	

#	Photograph
3	

Sketch

Include sketch (if applicable):

Operative Details

Is decommissioning works complete?

☒ Yes ☐ No

Additional Remarks

Office:

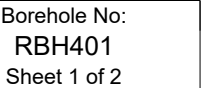
GI Warrington

Form completed by:

Richard McCormick


25 Apr 2024 10:24:50 +01:00

Form revision: 1.0.0 (2024-04-10)



Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
		Co-ordinates:	384698.71 mE	Checked By:	JE
Project No:	331B-3		399410.25 mN	Approved By:	JH
Client:	Homes England Housing Infrastructure Fund	Ground Level:	43.16 mOD	Scale:	1:50
Engineer:	BAM Nuttall			Log Status:	Drilled
Date Started:	26/04/2024	Orientation:	- - deg.	Print Date:	21/05/2024
Date Completed:	26/04/2024	Inclination:	90 deg.	Final Depth:	16.50m

[illegible]

Stratum depths measured along borehole axis.	Remarks
Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.	Existing monitoring installation over drilled and grouted. See attached decommissioning form for details.
Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'	
Further details given on appended 'Borehole Information Sheet'.	



BOREHOLE LOG

Borehole No:
RBH401
Sheet 2 of 2

Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
Project No:	331B-3	Co-ordinates:	384698.71 mE 399410.25 mN	Checked By:	JE
Client:	Homes England Housing Infrastructure Fund	Ground Level:	43.16 mOD	Approved By:	JH
Engineer:	BAM Nuttall	Orientation:	- - deg.	Scale:	1:50
Date Started:	26/04/2024	Inclination:	90 deg.	Log Status:	Drilled
Date Completed:	26/04/2024			Print Date:	21/05/2024
				Final Depth:	16.50m

Stratum Description	Leg.	Depth (Thick- ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Bentonite (driller's description).																
Pea gravel (driller's description).		12.50	30.66													
		(4.00)														
Borehole Terminated at 16.50m		16.50	26.66													

Stratum depths measured along borehole axis. Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant. Explanation of symbols and abbreviations given in 'Key to Exploratory Holes' Further details given on appended 'Borehole Information Sheet'.	Remarks Existing monitoring installation over drilled and grouted. See attached decommissioning form for details.
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BOREHOLE INFORMATION SHEET

Borehole No
RBH401
Sheet 1 of 1

Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
Project No:	331B-3	Co-ordinates:	384698.71 mE	Checked By:	JE
Client:	Homes England Housing Infrastructure Fund		399410.25 mN	Approved By:	JH
Engineer:	BAM Nuttall	Ground Level:	43.16 mOD	Log Status:	Drilled
Date Started:	26/04/2024	Orientation:	- - deg.	Print Date:	21/05/2024
Date Completed:	26/04/2024	Inclination:	90 deg.	Final Depth:	16.50m

Depth Related Exploratory Hole Information										
From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	16.50	CP	26/04/2024	26/04/2024	T820-634			Richard McCormick / Chris Hewitt		Overdrill

Boring-Drilling Progress						Hole Diameter by Depth			Casing Diameter by Depth		
Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks	Depth (m)	Dia. (mm)	Remarks	Depth (m)	Dia. (mm)	Remarks
26/04/2024	07:30	0.00	0.00	Dry	Start of shift	16.50	150		16.50	150	
26/04/2024	18:00	0.00	0.00	Dry	Hole complete						
Water Added Records											
From (m)			To (m)			Volume (litres)			Remarks		

Depth Related Remarks				Chiselling / Hard Boring Details				Drilling Flush Details				
From (m)	To (m)	Remarks		From (m)	To (m)	Duration (hh:mm)	Tool	From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes							Monitoring Installation Pipe Work							Backfill Details	
Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks	Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks	From (m)	To (m)
														0.00	16.50
														904	Grout

Standard Penetration Test Results																				
Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%	

Reason for Hole Termination: Decommissioning completed

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

BR-SR13 - Borehole Decommissioning Record

Contract Name:	Victoria North	Contract No:	RGN.331B
Location ID:	RBH401	Date:	2024-04-26

Location

Type of Locating equipment:

☒ dGPS ☐ GPS

Grid Reference System:

OSGB

Easting:

384698.706

Northing:

399410.25

Datum:

MSL

Elevation (m):

43.164

Location Configuration

Site Type:

☒ Private ☐ Highway ☐ Railway ☐ Soft landscape ☐ Arable Field ☐ Grazing Field

Existing Features:

☐ Protective fence ☐ Raised cover ☒ Flush cover ☐ Instrumentation ☐ Other

Other (please specify:)

Has additional features been removed by decommissioning?

☐ Yes ☐ No ☒ N/A

Can decommissioning work be completed?

☒ Yes ☐ No

General Details

Weather

Dry

Start of shift

2024-04-26

Time:

07:30

End of shift

2024-04-26

Time:

18:00

Pre-condition Photographs

#	Photograph
1	

Over-drill Log

Has the location been over-drilled?

☒ Yes ☐ No

A drillers log (BR-SR1) must also be completed for over-drilled locations.

Borehole and Installation Details

Reason for abandonment:

End of monitoring

Borehole Diameter (mm)

150

Installations

ID	Type	Diameter (mm)	Response Zone (mbgl)		Dip (mbgl)	
RBH401	SP - Standpipe	50	Top:	12.50	Base:	16.50
	Distance (m): 16.50		Base:	16.50	Water:	☒ or Dry

Decommissioning Details:

Decommissioning well type (EA,2012):

C - Low Permeability Backfill

Has pipework been removed:

☒ Yes
 ☐ No
 ☐ N/A

Depth pipe cut off (mbgl):

16.50

Grout mixer used (Equipment Make/Model):

Putzmeister

Backfill Rows

Top (mbgl):	Base (mbgl):	Type	Estimated Volume	Details
0.00	16.50	904 - Grout Method: ☒ Tremie pipe ☐ Poured	Litres: 292 m3: 0.292	Volume used: Litres: 20kg bags: m3: 200 0.2 Comments (mix ratio / compaction type): 3:1 bentonite cement 16 bags

Cap Dimensions

Has a concrete cap been placed?

☐ Yes
 ☒ No

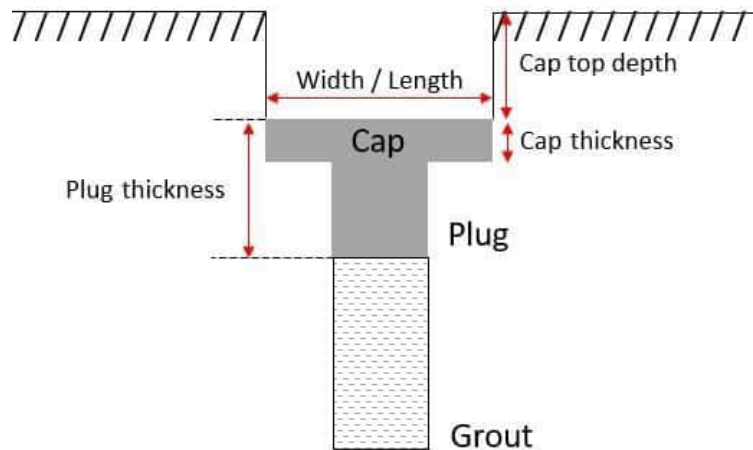
Cap Top Depth (m):

Cap Width (m):

Cap Length (m):

Cap Thickness (m):

Plug Thickness (m):



Post-condition Photographs

#	Photograph
1	



#	Photograph
2	

#	Photograph
3	



Sketch

Include sketch (if applicable):

Operative Details

Is decommissioning works complete?

☒ Yes ☐ No

Additional Remarks

Office:

GI Warrington

Form completed by:

Richard McCormick


29 Apr 2024 07:48:02 +01:00

Form revision: 1.0.0 (2024-04-10)



BOREHOLE LOG

Borehole No:
RBH403
Sheet 2 of 2

Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
Project No:	331B-3	Co-ordinates:	384717.73 mE 399423.10 mN	Checked By:	JE
Client:	Homes England Housing Infrastructure Fund	Ground Level:	42.88 mOD	Approved By:	JH
Engineer:	BAM Nuttall	Orientation:	- - deg.	Scale:	1:50
Date Started:	26/04/2024	Inclination:	90 deg.	Log Status:	Drilled
Date Completed:	26/04/2024			Print Date:	21/05/2024
				Final Depth:	16.50m

Stratum Description	Leg.	Depth (Thick- ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Bentonite (driller's description).																
Pea gravel (driller's description).		14.50	28.38													
		(2.00)														
Borehole Terminated at 16.50m		16.50	26.38													

Stratum depths measured along borehole axis.
Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.
Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'
Further details given on appended 'Borehole Information Sheet'.

Remarks
Existing monitoring installation over drilled and grouted. See attached decommissioning form for details.



BOREHOLE INFORMATION SHEET

Borehole No
RBH403
Sheet 1 of 1

Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
Project No:	331B-3	Co-ordinates:	384717.73 mE	Checked By:	JE
Client:	Homes England Housing Infrastructure Fund		399423.10 mN	Approved By:	JH
Engineer:	BAM Nuttall	Ground Level:	42.88 mOD	Log Status:	Drilled
Date Started:	26/04/2024	Orientation:	- - deg.	Print Date:	21/05/2024
Date Completed:	26/04/2024	Inclination:	90 deg.	Final Depth:	16.50m

Depth Related Exploratory Hole Information										
From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	16.50	CP	26/04/2024	26/04/2024	T820-634			Richard McCormick / Chris Hewitt		

Boring-Drilling Progress						Hole Diameter by Depth			Casing Diameter by Depth		
Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks	Depth (m)	Dia. (mm)	Remarks	Depth (m)	Dia. (mm)	Remarks
26/04/2024	07:30	0.00	0.00	Dry	Start of shift	16.50	150		16.50	150	
26/04/2024	18:00	0.00	0.00	Dry	Hole complete						
Water Added Records											
From (m)			To (m)			Volume (litres)			Remarks		

Depth Related Remarks				Chiselling / Hard Boring Details				Drilling Flush Details				
From (m)	To (m)	Remarks		From (m)	To (m)	Duration (hh:mm)	Tool	From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes							Monitoring Installation Pipe Work							Backfill Details	
Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks	Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks	From (m)	To (m)
														0.00	16.50
														904	Grout

Standard Penetration Test Results																				
Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%	

Reason for Hole Termination: Decommissioning completed

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

BR-SR13 - Borehole Decommissioning Record

Contract Name:	Victoria North	Contract No:	RGN.331B
Location ID:	RBH403	Date:	2024-04-26

Location

Type of Locating equipment:

☒ dGPS ☐ GPS

Grid Reference System:

OSGB

Easting:

384717.734

Northing:

399423.098

Datum:

MSL

Elevation (m):

42.883

Location Configuration

Site Type:

☒ Private ☐ Highway ☐ Railway ☐ Soft landscape ☐ Arable Field ☐ Grazing Field

Existing Features:

☐ Protective fence ☐ Raised cover ☒ Flush cover ☐ Instrumentation ☐ Other

Other (please specify:)

Has additional features been removed by decommissioning?

☐ Yes ☐ No ☒ N/A

Can decommissioning work be completed?

☒ Yes ☐ No

General Details

Weather

Dry

Start of shift

2024-04-26

Time:

07:30

End of shift

2024-04-26

Time:

18:00

Pre-condition Photographs

#	Photograph
1	



#	Photograph
2	

Over-drill Log

Has the location been over-drilled?

☒ Yes ☐ No

A drillers log (BR-SR1) must also be completed for over-drilled locations.

Borehole and Installation Details

Reason for abandonment:

End of monitoring

Borehole Diameter (mm)

150

Installations

ID	Type	Diameter (mm)	Response Zone (mbgl)		Dip (mbgl)	
RBH403	SP - Standpipe	50	Top:	14.50	Base:	16.50
	Distance (m): 16.50		Base:	16.50	Water:	☒ or Dry

Decommissioning Details:

Decommissioning well type (EA,2012):

C - Low Permeability Backfill

Has pipework been removed:

☒ Yes
 ☐ No
 ☐ N/A

Depth pipe cut off (mbgl):

16.50

Grout mixer used (Equipment Make/Model):

Putzmeister

Backfill Rows

Top (mbgl):	Base (mbgl):	Type	Estimated Volume	Details
0.00	16.50	904 - Grout Method: ☒ Tremie pipe ☐ Poured	Litres: 292 m3: 0.292	Volume used: Litres: 20kg bags: m3: 200 0.2 Comments (mix ratio / compaction type): 3:1 bentonite cement 16 bags 200 litres water

Cap Dimensions

Has a concrete cap been placed?

☐ Yes
 ☒ No

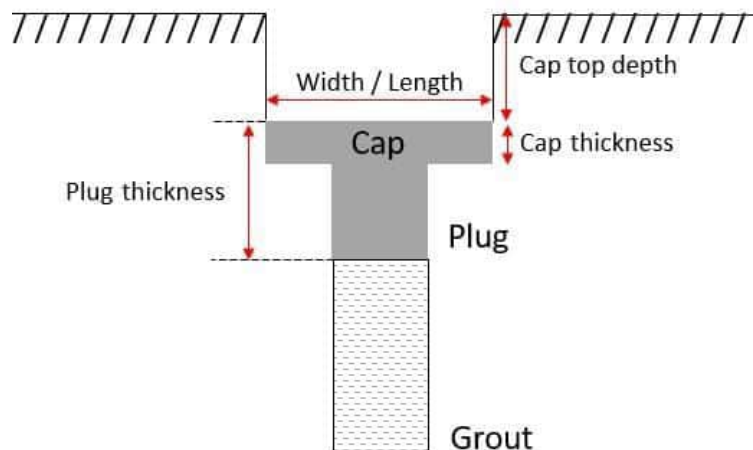
Cap Top Depth (m):

Cap Width (m):

Cap Length (m):

Cap Thickness (m):

Plug Thickness (m):



Post-condition Photographs

#	Photograph
---	------------

No Photographs Added

Sketch

Include sketch (if applicable):

Operative Details

Is decommissioning works complete?

☒ Yes ☐ No

Additional Remarks

Office:

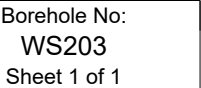
GI Warrington

Form completed by:

Richard McCormick


29 Apr 2024 07:39:56 +01:00

Form revision: 1.0.0 (2024-04-10)



Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
		Co-ordinates:	384606.86 mE	Checked By:	JE
Project No:	331B-3		399381.65 mN	Approved By:	JH
Client:	Homes England Housing Infrastructure Fund	Ground Level:	33.59 mOD	Scale:	1:50
Engineer:	BAM Nuttall			Log Status:	Drilled
Date Started:	02/05/2024	Orientation:	- - deg.	Print Date:	21/05/2024
Date Completed:	02/05/2024	Inclination:	90 deg.	Final Depth:	1.00m

[illegible]

Stratum depths measured along borehole axis.	Remarks
Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.	Existing monitoring installation over drilled and grouted. See attached decommissioning form for details.
Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'	
Further details given on appended 'Borehole Information Sheet'.	



BOREHOLE INFORMATION SHEET

Borehole No
WS203
Sheet 1 of 1

Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
Project No:	331B-3	Co-ordinates:	384606.86 mE	Checked By:	JE
Client:	Homes England Housing Infrastructure Fund		399381.65 mN	Approved By:	JH
Engineer:	BAM Nuttall	Ground Level:	33.59 mOD	Log Status:	Drilled
Date Started:	02/05/2024	Orientation:	- - deg.	Print Date:	21/05/2024
Date Completed:	02/05/2024	Inclination:	90 deg.	Final Depth:	1.00m

Depth Related Exploratory Hole Information										
From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	1.00	CP	02/05/2024	02/05/2024	T830-774			Chris Hewitt		

Boring-Drilling Progress						Hole Diameter by Depth			Casing Diameter by Depth		
Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks	Depth (m)	Dia. (mm)	Remarks	Depth (m)	Dia. (mm)	Remarks
02/05/2024	12:00	1.00	0.00	Dry	Start of shift	1.00	150		1.00	150	
02/05/2024	17:00	1.00	0.00	Dry	Hole complete						
Water Added Records											
From (m)			To (m)			Volume (litres)			Remarks		

Depth Related Remarks				Chiselling / Hard Boring Details				Drilling Flush Details				
From (m)	To (m)	Remarks		From (m)	To (m)	Duration (hh:mm)	Tool	From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes							Monitoring Installation Pipe Work							Backfill Details			
Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks	Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks	From (m)	To (m)	Legend	Description
														0.00	0.50	906	Concrete
														0.50	1.00	904	Grout

Standard Penetration Test Results																				
Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%	

Reason for Hole Termination: Decommissioning completed

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

BR-SR13 - Borehole Decommissioning Record

Contract Name:	Victoria North	Contract No:	RGN.331B
Location ID:	WS203	Date:	2024-05-02

Location

Type of Locating equipment:

☒ dGPS ☐ GPS

Grid Reference System:

OSGB

Easting:

384606.862

Northing:

399381.649

Datum:

MSL

Elevation (m):

33.59

Location Configuration

Site Type:

☒ Private ☐ Highway ☐ Railway ☐ Soft landscape ☐ Arable Field ☐ Grazing Field

Existing Features:

☐ Protective fence ☐ Raised cover ☒ Flush cover ☐ Instrumentation ☐ Other

Other (please specify:)

Has additional features been removed by decommissioning?

☒ Yes ☐ No ☐ N/A

Can decommissioning work be completed?

☒ Yes ☐ No

General Details

Weather

Sunny

Start of shift

2024-05-02

Time:

13:40

End of shift

2024-05-02

Time:

17:00

Pre-condition Photographs

#	Photograph
1	



#	Photograph
2	



#	Photograph
3	



#	Photograph
4	



Over-drill Log

Has the location been over-drilled?

☒ Yes ☐ No

A drillers log (BR-SR1) must also be completed for over-drilled locations.

Borehole and Installation Details

Reason for abandonment:

End of monitoring

Borehole Diameter (mm)

115

Installations

ID	Type	Diameter (mm)	Response Zone (mbgl)		Dip (mbgl)	
WS203	SP - Standpipe	50	Top:	0.50	Base:	0.10
	Distance (m): 1.00		Base:	1.00	Water:	☒ or Dry

Decommissioning Details:

Decommissioning well type (EA,2012):

C - Low Permeability Backfill

Has pipework been removed:

☒ Yes
 ☐ No
 ☐ N/A

Depth pipe cut off (mbgl):

1.00

Grout mixer used (Equipment Make/Model):

Putzmeister

Backfill Rows

Top (mbgl):	Base (mbgl):	Type	Estimated Volume	Details
0.00	0.50	906 - Concrete Method: ☐ Tremie pipe ☒ Poured	Litres: 6 m3: 0.006	Volume used: Litres: 6 20kg bags: m3: 0.006 Comments (mix ratio / compaction type):
0.50	1.00	904 - Grout Method: ☐ Tremie pipe ☒ Poured	Litres: 6 m3: 0.006	Volume used: Litres: 20 20kg bags: m3: 0.02 Comments (mix ratio / compaction type):

Cap Dimensions

Has a concrete cap been placed?

☒ Yes
 ☐ No

Cap Top Depth (m):

0.00

Cap Width (m):

0.30

Cap Length (m):

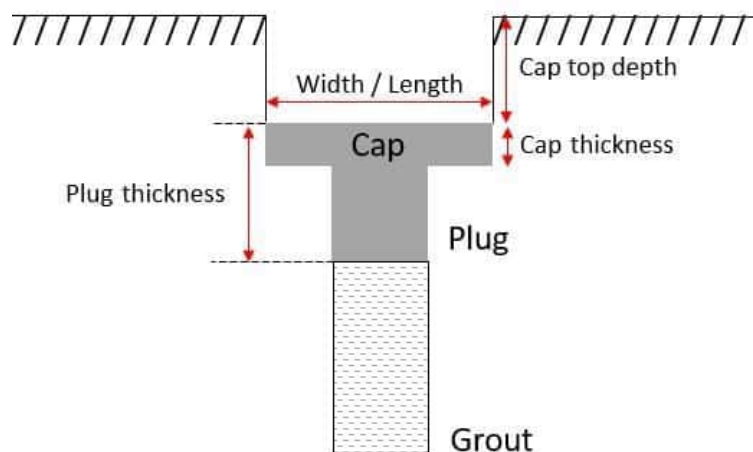
0.30

Cap Thickness (m):

0.20

Plug Thickness (m):

0.30



Post-condition Photographs

#	Photograph
1	

#	Photograph
2	



#	Photograph
3	



Sketch

Include sketch (if applicable):

Operative Details

Is decommissioning works complete?

☒ Yes ☐ No

Additional Remarks

Office:

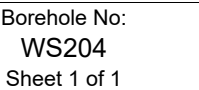
GI Warrington

Form completed by:

Chris Hewitt


02 May 2024 13:45:13 +01:00

Form revision: 1.0.0 (2024-04-10)



Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
		Co-ordinates:	384645.66 mE	Checked By:	JE
Project No:	331B-3		399436.19 mN	Approved By:	JH
Client:	Homes England Housing Infrastructure Fund	Ground Level:	32.91 mOD	Scale:	1:50
Engineer:	BAM Nuttall			Log Status:	Drilled
Date Started:	08/05/2024	Orientation:	- - deg.	Print Date:	21/05/2024
Date Completed:	08/05/2024	Inclination:	90 deg.	Final Depth:	1.50m

[illegible]

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Borehole Information Sheet'.

Remarks
Existing monitoring installation over drilled and grouted. See attached decommissioning form for details.



BOREHOLE INFORMATION SHEET

Borehole No
WS204
Sheet 1 of 1

Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
Project No:	331B-3	Co-ordinates:	384645.66 mE	Checked By:	JE
Client:	Homes England Housing Infrastructure Fund		399436.19 mN	Approved By:	JH
Engineer:	BAM Nuttall	Ground Level:	32.91 mOD	Log Status:	Drilled
Date Started:	08/05/2024	Orientation:	- - deg.	Print Date:	21/05/2024
Date Completed:	08/05/2024	Inclination:	90 deg.	Final Depth:	1.50m

Depth Related Exploratory Hole Information										
From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	1.50	CP	08/05/2024	08/05/2024	T820-774			Ian Slater / Jamie fairhurst		

Boring-Drilling Progress						Hole Diameter by Depth			Casing Diameter by Depth		
Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks	Depth (m)	Dia. (mm)	Remarks	Depth (m)	Dia. (mm)	Remarks
08/05/2024	07:30	1.50	0.00	Dry	Start of shift	1.50	150		1.50	150	
08/05/2024	15:00	1.50	0.00	Dry	Hole complete						
Water Added Records											
From (m)			To (m)			Volume (litres)			Remarks		

Depth Related Remarks				Chiselling / Hard Boring Details				Drilling Flush Details				
From (m)	To (m)	Remarks		From (m)	To (m)	Duration (hh:mm)	Tool	From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes							Monitoring Installation Pipe Work							Backfill Details			
Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks	Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks	From (m)	To (m)	Legend	Description
														0.00 0.40	0.40 1.50	906 904	Concrete Grout

Standard Penetration Test Results																				
Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%	

Reason for Hole Termination: Decommissioning completed

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

BR-SR13 - Borehole Decommissioning Record

Contract Name:	Victoria North	Contract No:	RGN.331B
Location ID:	WS204	Date:	2024-05-08

Location

Type of Locating equipment:

☒ dGPS ☐ GPS

Grid Reference System:

OSGB

Easting:

384645.661

Northing:

399436.194

Datum:

MSL

Elevation (m):

32.91

Location Configuration

Site Type:

☒ Private ☐ Highway ☐ Railway ☐ Soft landscape ☐ Arable Field ☐ Grazing Field

Existing Features:

☐ Protective fence ☐ Raised cover ☒ Flush cover ☐ Instrumentation ☐ Other

Other (please specify:)

Has additional features been removed by decommissioning?

☒ Yes ☐ No ☐ N/A

Can decommissioning work be completed?

☒ Yes ☐ No

General Details

Weather

Sunny

Start of shift

2024-05-08

Time:

07:30

End of shift

2024-05-08

Time:

12:00

Pre-condition Photographs

#	Photograph
1	

#	Photograph
2	 A photograph showing a close-up view of a decommissioned borehole. The ground surface is uneven, composed of dirt, gravel, and some debris. In the center of the frame, there is a circular metal cap or plug. To the right of the cap, there are some yellow and red markings on the ground, possibly paint or spray. The overall scene appears to be a construction or industrial site.

#	Photograph
3	



#	Photograph
4	



Over-drill Log

Has the location been over-drilled?

☒ Yes ☐ No

A drillers log (BR-SR1) must also be completed for over-drilled locations.

Borehole and Installation Details

Reason for abandonment:

End of monitoring

Borehole Diameter (mm)

115

Installations

ID	Type	Diameter (mm)	Response Zone (mbgl)		Dip (mbgl)	
WS204	SP - Standpipe	50	Top:	0.50	Base:	1.50
	Distance (m): 1.50		Base:	1.50	Water:	☒ or Dry

Decommissioning Details:

Decommissioning well type (EA,2012):

C - Low Permeability Backfill

Has pipework been removed:

☒ Yes ☐ No ☐ N/A

Depth pipe cut off (mbgl):

1.50

Grout mixer used (Equipment Make/Model):

Putzmeister

Backfill Rows

Top (mbgl):	Base (mbgl):	Type	Estimated Volume	Details
-------------	--------------	------	------------------	---------

No Backfill Added

Cap Dimensions

Has a concrete cap been placed?

☒ Yes ☐ No

Cap Top Depth (m):

0.00

Cap Width (m):

0.30

Cap Length (m):

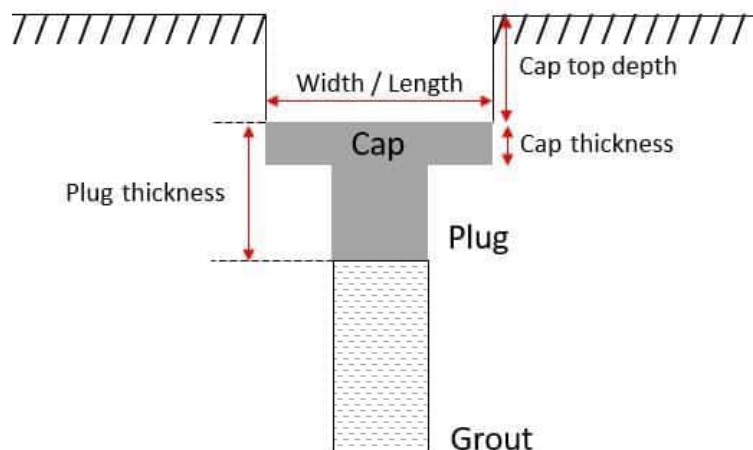
0.30

Cap Thickness (m):

0.20

Plug Thickness (m):

0.30



Post-condition Photographs

#	Photograph
1	



#	Photograph
2	



#	Photograph
3	

#	Photograph
4	

Sketch

Include sketch (if applicable):

Operative Details

Is decommissioning works complete?

☒ Yes ☐ No

Additional Remarks

Office:

GI Warrington

Form completed by:

Ian Slater



08 May 2024 12:36:22 +01:00

Form revision: 1.0.0 (2024-04-10)



BOREHOLE LOG

Borehole No:
WS301
Sheet 1 of 1

Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
Project No:	331B-3	Co-ordinates:	384601.92 mE 399388.78 mN	Checked By:	JE
Client:	Homes England Housing Infrastructure Fund	Ground Level:	33.54 mOD	Approved By:	JH
Engineer:	BAM Nuttall	Orientation:	- - deg.	Scale:	1:50
Date Started:	03/05/2024	Inclination:	90 deg.	Log Status:	Drilled
Date Completed:	03/05/2024			Print Date:	21/05/2024
				Final Depth:	1.50m

Stratum Description	Leg.	Depth (Thickness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Concrete (Driller's description).		(0.30)														
Bentonite (Driller's description).		0.30	33.24													
Pea gravel (Driller's description).		0.50	33.04													
		(1.00)														
Borehole Terminated at 1.50m		1.50	32.04													

Stratum depths measured along borehole axis. Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant. Explanation of symbols and abbreviations given in 'Key to Exploratory Holes' Further details given on appended 'Borehole Information Sheet'.	Remarks Existing monitoring installation over drilled and grouted. See attached decommissioning form for details.
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BOREHOLE INFORMATION SHEET

Borehole No
WS301
Sheet 1 of 1

Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
Project No:	331B-3	Co-ordinates:	384601.92 mE	Checked By:	JE
Client:	Homes England Housing Infrastructure Fund		399388.78 mN	Approved By:	JH
Engineer:	BAM Nuttall	Ground Level:	33.54 mOD	Log Status:	Drilled
Date Started:	03/05/2024	Orientation:	- - deg.	Print Date:	21/05/2024
Date Completed:	03/05/2024	Inclination:	90 deg.	Final Depth:	1.50m

Depth Related Exploratory Hole Information											
From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks	
0.00	1.50	CP	03/05/2024	03/05/2024	T820-774			Chris Hewitt, Jamie Fairhurst			

Boring-Drilling Progress						Hole Diameter by Depth			Casing Diameter by Depth		
Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks	Depth (m)	Dia. (mm)	Remarks	Depth (m)	Dia. (mm)	Remarks
03/05/2024	08:00	1.50	0.00	Dry	Start of shift	1.50	150		1.50	150	
03/05/2024	15:00	1.50	0.00	Dry	Hole complete						
Water Added Records											
From (m)			To (m)			Volume (litres)			Remarks		

Depth Related Remarks				Chiselling / Hard Boring Details				Drilling Flush Details				
From (m)	To (m)	Remarks		From (m)	To (m)	Duration (hh:mm)	Tool	From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes							Monitoring Installation Pipe Work							Backfill Details			
Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks	Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks	From (m)	To (m)	Legend	Description
														0.00	0.50	906	Concrete
														0.50	1.50	904	Grout

Standard Penetration Test Results																				
Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%	

Reason for Hole Termination: Decommissioning completed

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

BR-SR13 - Borehole Decommissioning Record

Contract Name:	Victoria North	Contract No:	RGN.331B
Location ID:	WS301	Date:	2024-05-03

Location

Type of Locating equipment:

☒ dGPS ☐ GPS

Grid Reference System:

OSGB

Easting:

384601.918

Northing:

399388.782

Datum:

MSL

Elevation (m):

33.542

Location Configuration

Site Type:

☒ Private ☐ Highway ☐ Railway ☐ Soft landscape ☐ Arable Field ☐ Grazing Field

Existing Features:

☐ Protective fence ☐ Raised cover ☒ Flush cover ☐ Instrumentation ☐ Other

Other (please specify:)

Has additional features been removed by decommissioning?

☒ Yes ☐ No ☐ N/A

Can decommissioning work be completed?

☒ Yes ☐ No

General Details

Weather

Overcast

Start of shift

2024-05-03

Time:

08:00

End of shift

2024-05-03

Time:

15:00

Pre-condition Photographs

#	Photograph
1	



#	Photograph
2	

Over-drill Log

Has the location been over-drilled?

☒ Yes ☐ No

A drillers log (BR-SR1) must also be completed for over-drilled locations.

Borehole and Installation Details

Reason for abandonment:

End of monitoring

Borehole Diameter (mm)

115

Installations

ID	Type	Diameter (mm)	Response Zone (mbgl)		Dip (mbgl)	
WS301	SP - Standpipe	50	Top:	0.50	Base:	1.30
	Distance (m): 1.50		Base:	1.50	Water:	☒ or Dry

Decommissioning Details:

Decommissioning well type (EA,2012):

C - Low Permeability Backfill

Has pipework been removed:

☒ Yes
 ☐ No
 ☐ N/A

Depth pipe cut off (mbgl):

1.50

Grout mixer used (Equipment Make/Model):

Putzmeister

Backfill Rows

Top (mbgl):	Base (mbgl):	Type	Estimated Volume	Details
0.00	0.50	906 - Concrete Method: ☐ Tremie pipe ☒ Poured	Litres: 6 m3: 0.006	Volume used: Litres: 6 20kg bags: m3: 0.006 Comments (mix ratio / compaction type):
0.50	1.50	904 - Grout Method: ☐ Tremie pipe ☒ Poured	Litres: 11 m3: 0.011	Volume used: Litres: 50 20kg bags: m3: 0.05 Comments (mix ratio / compaction type):

Cap Dimensions

Has a concrete cap been placed?

☒ Yes
 ☐ No

Cap Top Depth (m):

0.00

Cap Width (m):

0.30

Cap Length (m):

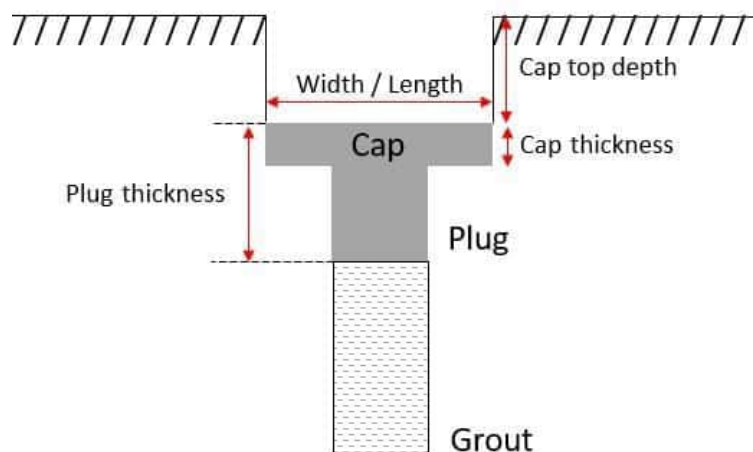
0.30

Cap Thickness (m):

0.20

Plug Thickness (m):

0.30



Post-condition Photographs

#	Photograph
1	



#	Photograph
2	



#	Photograph
3	



#	Photograph
4	



Sketch

Include sketch (if applicable):

Operative Details

Is decommissioning works complete?

☒ Yes ☐ No

Additional Remarks

Office:

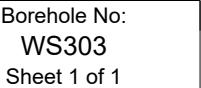
GI Warrington

Form completed by:

Chris Hewitt


03 May 2024 09:17:34 +01:00

Form revision: 1.0.0 (2024-04-10)



Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
		Co-ordinates:	384625.83 mE	Checked By:	JE
Project No:	331B-3		399404.62 mN	Approved By:	JH
Client:	Homes England Housing Infrastructure Fund	Ground Level:	33.56 mOD	Scale:	1:50
Engineer:	BAM Nuttall			Log Status:	Drilled
Date Started:	03/05/2024	Orientation:	- - deg.	Print Date:	21/05/2024
Date Completed:	03/05/2024	Inclination:	90 deg.	Final Depth:	1.50m

[illegible]

Stratum depths measured along borehole axis.	Remarks
Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.	Existing monitoring installation over drilled and grouted. See attached decommissioning form for details.
Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'	
Further details given on appended 'Borehole Information Sheet'.	



BOREHOLE INFORMATION SHEET

Borehole No
WS303
Sheet 1 of 1

Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
Project No:	331B-3	Co-ordinates:	384625.83 mE	Checked By:	JE
Client:	Homes England Housing Infrastructure Fund		399404.62 mN	Approved By:	JH
Engineer:	BAM Nuttall	Ground Level:	33.56 mOD	Log Status:	Drilled
Date Started:	03/05/2024	Orientation:	- - deg.	Print Date:	21/05/2024
Date Completed:	03/05/2024	Inclination:	90 deg.	Final Depth:	1.50m

Depth Related Exploratory Hole Information										
From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	1.50	CP	03/05/2024	03/05/2024	T820-774			Chris Hewitt, Jamie Fairhurst		

Boring-Drilling Progress						Hole Diameter by Depth			Casing Diameter by Depth		
Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks	Depth (m)	Dia. (mm)	Remarks	Depth (m)	Dia. (mm)	Remarks
03/05/2024	08:00	1.50	0.00	Dry	Start of shift	1.50	150		1.50	150	
03/05/2024	15:00	1.50	0.00	Dry	Hole complete						
Water Added Records											
From (m)			To (m)			Volume (litres)			Remarks		

Depth Related Remarks				Chiselling / Hard Boring Details				Drilling Flush Details				
From (m)	To (m)	Remarks		From (m)	To (m)	Duration (hh:mm)	Tool	From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes						Monitoring Installation Pipe Work								Backfill Details			
Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks	Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks	From (m)	To (m)	Legend	Description
														0.00	0.50	906	Concrete
														0.50	1.50	904	Grout

Standard Penetration Test Results																				
Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%	

Reason for Hole Termination: Decommissioning completed

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

BR-SR13 - Borehole Decommissioning Record

Contract Name:	Victoria North	Contract No:	RGN.331B
Location ID:	WS303	Date:	2024-05-03

Location

Type of Locating equipment:

☒ dGPS ☐ GPS

Grid Reference System:

OSGB

Easting:

384625.827

Northing:

399404.618

Datum:

MSL

Elevation (m):

33.556

Location Configuration

Site Type:

☒ Private ☐ Highway ☐ Railway ☐ Soft landscape ☐ Arable Field ☐ Grazing Field

Existing Features:

☐ Protective fence ☐ Raised cover ☒ Flush cover ☐ Instrumentation ☐ Other

Other (please specify:)

Has additional features been removed by decommissioning?

☒ Yes ☐ No ☐ N/A

Can decommissioning work be completed?

☒ Yes ☐ No

General Details

Weather

Overcast

Start of shift

2024-05-03

Time:

08:00

End of shift

2024-05-03

Time:

15:00

Pre-condition Photographs

#	Photograph
1	



#	Photograph
2	



#	Photograph
3	



#	Photograph
4	



Over-drill Log

Has the location been over-drilled?

☒ Yes ☐ No

A drillers log (BR-SR1) must also be completed for over-drilled locations.

Borehole and Installation Details

Reason for abandonment:

End of monitoring

Borehole Diameter (mm)

115

Installations

ID	Type	Diameter (mm)	Response Zone (mbgl)		Dip (mbgl)	
WS303	SP - Standpipe	50	Top:	0.50	Base:	1.50
	Distance (m): 1.50		Base:	1.50	Water:	☒ or Dry

Decommissioning Details:

Decommissioning well type (EA,2012):

C - Low Permeability Backfill

Has pipework been removed:

☒ Yes
 ☐ No
 ☐ N/A

Depth pipe cut off (mbgl):

1.50

Grout mixer used (Equipment Make/Model):

Putzmeister

Backfill Rows

Top (mbgl):	Base (mbgl):	Type	Estimated Volume	Details
0.00	0.50	906 - Concrete Method: ☐ Tremie pipe ☒ Poured	Litres: 6 m3: 0.006	Volume used: Litres: 20kg bags: m3: 6 0.006 Comments (mix ratio / compaction type):
0.50	1.50	904 - Grout Method: ☒ Tremie pipe ☐ Poured	Litres: 11 m3: 0.011	Volume used: Litres: 20kg bags: m3: 11 0.011 Comments (mix ratio / compaction type):

Cap Dimensions

Has a concrete cap been placed?

☒ Yes
 ☐ No

Cap Top Depth (m):

0.00

Cap Width (m):

0.30

Cap Length (m):

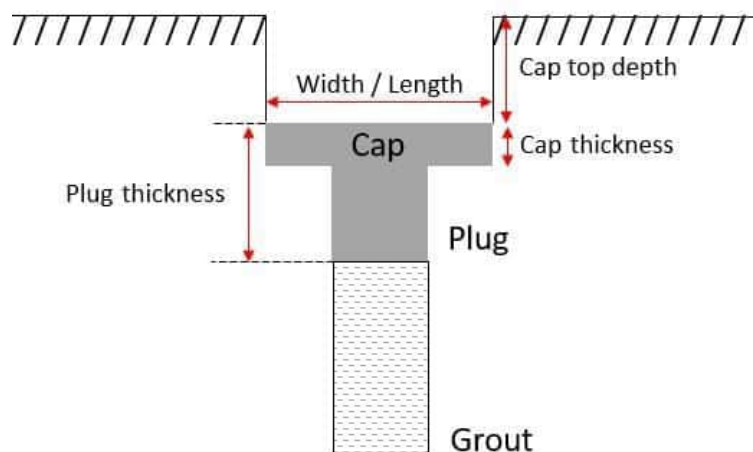
0.30

Cap Thickness (m):

0.20

Plug Thickness (m):

0.30



Post-condition Photographs

#	Photograph
1	



#	Photograph
2	



Sketch

Include sketch (if applicable):

Operative Details

Is decommissioning works complete?

☒ Yes ☐ No

Additional Remarks

Office:

GI Warrington

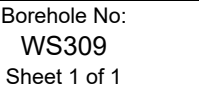
Form completed by:

Chris Hewitt



07 May 2024 09:43:47 +01:00

Form revision: 1.0.0 (2024-04-10)



Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
		Co-ordinates:	384638.34 mE	Checked By:	JE
Project No:	331B-3		399390.97 mN	Approved By:	JH
Client:	Homes England Housing Infrastructure Fund	Ground Level:	31.18 mOD	Scale:	1:50
Engineer:	BAM Nuttall			Log Status:	Drilled
Date Started:	02/05/2024	Orientation:	- - deg.	Print Date:	21/05/2024
Date Completed:	02/05/2024	Inclination:	90 deg.	Final Depth:	2.00m

[illegible]

Stratum depths measured along borehole axis.	Remarks
Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.	Existing monitoring installation over drilled and grouted. See attached decommissioning form for details.
Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'	
Further details given on appended 'Borehole Information Sheet'.	



BOREHOLE INFORMATION SHEET

Borehole No
WS309
Sheet 1 of 1

Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
Project No:	331B-3	Co-ordinates:	384638.34 mE	Checked By:	JE
Client:	Homes England Housing Infrastructure Fund		399390.97 mN	Approved By:	JH
Engineer:	BAM Nuttall	Ground Level:	31.18 mOD	Log Status:	Drilled
Date Started:	02/05/2024	Orientation:	- - deg.	Print Date:	21/05/2024
Date Completed:	02/05/2024	Inclination:	90 deg.	Final Depth:	2.00m

Depth Related Exploratory Hole Information											
From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks	
0.00	2.00	CP	02/05/2024	02/05/2024	T820-774			Chris Hewitt, Jamie Fairhurst			

Boring-Drilling Progress						Hole Diameter by Depth			Casing Diameter by Depth		
Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks	Depth (m)	Dia. (mm)	Remarks	Depth (m)	Dia. (mm)	Remarks
02/05/2024	13:00	2.00	0.00	Dry	Start of shift	2.00	150		2.00	150	
02/05/2024	17:00	2.00	0.00	Dry	Hole complete						
Water Added Records											
From (m)			To (m)			Volume (litres)			Remarks		

Depth Related Remarks				Chiselling / Hard Boring Details				Drilling Flush Details				
From (m)	To (m)	Remarks		From (m)	To (m)	Duration (hh:mm)	Tool	From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes							Monitoring Installation Pipe Work							Backfill Details			
Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks	Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks	From (m)	To (m)	Legend	Description
														0.00	0.50	906	Concrete
														0.50	2.00	904	Grout

Standard Penetration Test Results																				
Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%	

Reason for Hole Termination: Decommissioning completed

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

BR-SR13 - Borehole Decommissioning Record

Contract Name:	Victoria North	Contract No:	RGN.331B
Location ID:	WS309	Date:	2024-05-02

Location

Type of Locating equipment:

☒ dGPS ☐ GPS

Grid Reference System:

OSGB

Easting:

384638.339

Northing:

399390.969

Datum:

MSL

Elevation (m):

31.182

Location Configuration

Site Type:

☒ Private ☐ Highway ☐ Railway ☐ Soft landscape ☐ Arable Field ☐ Grazing Field

Existing Features:

☐ Protective fence ☐ Raised cover ☒ Flush cover ☐ Instrumentation ☐ Other

Other (please specify:)

Has additional features been removed by decommissioning?

☒ Yes ☐ No ☐ N/A

Can decommissioning work be completed?

☒ Yes ☐ No

General Details

Weather

Sunny

Start of shift

2024-05-02

Time:

13:00

End of shift

2024-05-02

Time:

17:00

Pre-condition Photographs

#	Photograph
1	



#	Photograph
2	



#	Photograph
3	



Over-drill Log

Has the location been over-drilled?

☒ Yes ☐ No

A drillers log (BR-SR1) must also be completed for over-drilled locations.

Borehole and Installation Details

Reason for abandonment:

End of monitoring

Borehole Diameter (mm)

115

Installations

ID	Type	Diameter (mm)	Response Zone (mbgl)		Dip (mbgl)	
WS309	SP - Standpipe	50	Top:	1.00	Base:	1.70
	Distance (m): 2.00		Base:	2.00	Water:	☒ or Dry

Decommissioning Details:

Decommissioning well type (EA,2012):

C - Low Permeability Backfill

Has pipework been removed:

☒ Yes
 ☐ No
 ☐ N/A

Depth pipe cut off (mbgl):

2.00

Grout mixer used (Equipment Make/Model):

Putzmeister

Backfill Rows

Top (mbgl):	Base (mbgl):	Type	Estimated Volume	Details
0.00	0.50	906 - Concrete Method: ☐ Tremie pipe ☒ Poured	Litres: 6 m3: 0.006	Volume used: Litres: 6 20kg bags: m3: 0.006 Comments (mix ratio / compaction type):
0.50	2.00	904 - Grout Method: ☒ Tremie pipe ☐ Poured	Litres: 16 m3: 0.016	Volume used: Litres: 25 20kg bags: m3: 0.025 Comments (mix ratio / compaction type):

Cap Dimensions

Has a concrete cap been placed?

☒ Yes
 ☐ No

Cap Top Depth (m):

0.00

Cap Width (m):

0.30

Cap Length (m):

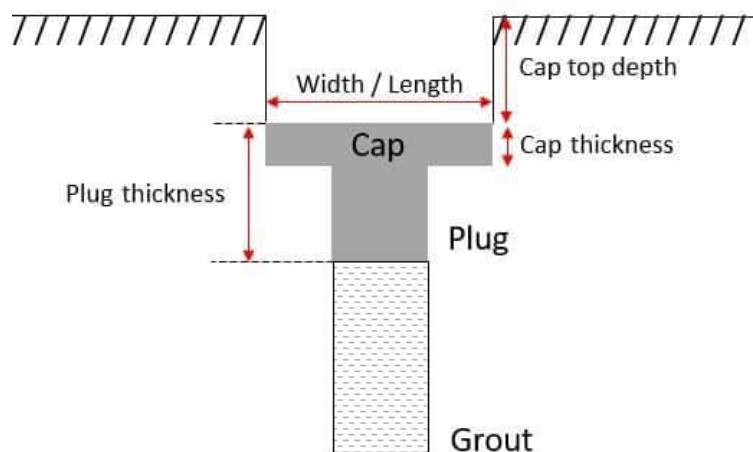
0.30

Cap Thickness (m):

0.20

Plug Thickness (m):

0.30



Post-condition Photographs

#	Photograph
1	 A photograph showing a ground surface covered in debris, including gravel, dirt, and some organic matter. A dark, irregular puddle is visible in the center. Yellow spray paint markings are on the ground. A shadow of the person taking the photo is in the bottom left. A dark, possibly metallic, object is in the top right.



#	Photograph
2	



#	Photograph
3	



Sketch

Include sketch (if applicable):

Operative Details

Is decommissioning works complete?

☒ Yes ☐ No

Additional Remarks

Office:

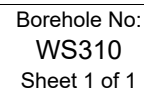
GI Warrington

Form completed by:

Chris Hewitt


02 May 2024 13:27:18 +01:00

Form revision: 1.0.0 (2024-04-10)



1.00m

Existing monitoring installation over drilled and grouted. See attached decommissioning form for details.



BOREHOLE INFORMATION SHEET

Borehole No
WS310
Sheet 1 of 1

Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
Project No:	331B-3	Co-ordinates:	384677.17 mE	Checked By:	JE
Client:	Homes England Housing Infrastructure Fund		399498.98 mN	Approved By:	JH
Engineer:	BAM Nuttall	Ground Level:	31.19 mOD	Log Status:	Drilled
Date Started:	07/05/2024	Orientation:	- - deg.	Print Date:	21/05/2024
Date Completed:	07/05/2024	Inclination:	90 deg.	Final Depth:	1.00m

Depth Related Exploratory Hole Information										
From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	1.00	CP	07/05/2024	07/05/2024	T820-774			Ian Slater / Jamie fairhurst		

Boring-Drilling Progress						Hole Diameter by Depth			Casing Diameter by Depth		
Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks	Depth (m)	Dia. (mm)	Remarks	Depth (m)	Dia. (mm)	Remarks
07/05/2024	07:30	1.00		Dry	Start of shift	1.00	150		1.00	150	
07/05/2024	17:00	1.00		Dry	Hole complete						
Water Added Records											
From (m)	To (m)	Volume (litres)	Remarks								

Depth Related Remarks				Chiselling / Hard Boring Details				Drilling Flush Details				
From (m)	To (m)	Remarks		From (m)	To (m)	Duration (hh:mm)	Tool	From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes							Monitoring Installation Pipe Work							Backfill Details	
Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks	Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks	From (m)	To (m)
														0.00	1.00
														904	Grout

Standard Penetration Test Results																				
Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%	

Reason for Hole Termination: Decommissioning completed

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

BR-SR13 - Borehole Decommissioning Record

Contract Name:	Victoria North	Contract No:	RGN.331B
Location ID:	WS310	Date:	2024-05-07

Location

Type of Locating equipment:

☒ dGPS ☐ GPS

Grid Reference System:

OSGB

Easting:

384677.165

Northing:

399498.976

Datum:

MSL

Elevation (m):

31.186

Location Configuration

Site Type:

☒ Private ☐ Highway ☐ Railway ☐ Soft landscape ☐ Arable Field ☐ Grazing Field

Existing Features:

☐ Protective fence ☐ Raised cover ☐ Flush cover ☐ Instrumentation ☒ Other

Other (please specify:)

No cover left open

Has additional features been removed by decommissioning?

☒ Yes ☐ No ☐ N/A

Can decommissioning work be completed?

☒ Yes ☐ No

General Details

Weather

Dry

Start of shift

2024-05-07

Time:

07:30

End of shift

2024-05-07

Time:

17:00

Pre-condition Photographs

#	Photograph
1	

#	Photograph
2	



#	Photograph
3	



#	Photograph
4	

Over-drill Log

Has the location been over-drilled?

☒ Yes ☐ No

A drillers log (BR-SR1) must also be completed for over-drilled locations.

Borehole and Installation Details

Reason for abandonment:

End of monitoring

Borehole Diameter (mm)

115

Installations

ID	Type	Diameter (mm)	Response Zone (mbgl)	Dip (mbgl)
----	------	---------------	----------------------	------------

No Monitoring Points Added

Decomissioning Details:

Decommissioning well type (EA,2012):

C - Low Permeability Backfill

Has pipework been removed:

☒ Yes
 ☐ No
 ☐ N/A

Depth pipe cut off (mbgl):

1.00

Grout mixer used (Equipment Make/Model):

Putzmeister

Backfill Rows

Top (mbgl):	Base (mbgl):	Type	Estimated Volume	Details
0.00	1.00	904 - Grout Method: ☐ Tremie pipe ☒ Poured	Litres: 11 m3: 0.011	Volume used: Litres: 20kg bags: m3: _____ Comments (mix ratio / compaction type): _____

Cap Dimensions

Has a concrete cap been placed?

☐ Yes
 ☒ No

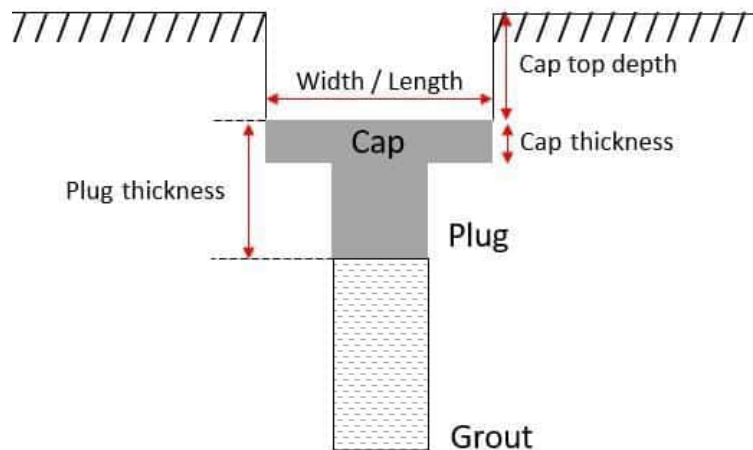
Cap Top Depth (m):

Cap Width (m):

Cap Length (m):

Cap Thickness (m):

Plug Thickness (m):



Post-condition Photographs

#	Photograph
1	



#	Photograph
2	



#	Photograph
3	



#	Photograph
4	

Sketch

Include sketch (if applicable):

Operative Details

Is decommissioning works complete?

☒ Yes ☐ No

Additional Remarks

Office:

GI Warrington

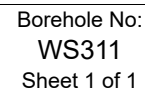
Form completed by:

Ian Slater



07 May 2024 14:34:16 +01:00

Form revision: 1.0.0 (2024-04-10)



1.50m

Existing monitoring installation over drilled and grouted. See attached decommissioning form for details.



BOREHOLE INFORMATION SHEET

Borehole No
WS311
Sheet 1 of 1

Project Name:	Victoria North NT Decommissioning	Survey Grid System:	OSGB	Hole Type:	CP
Project No:	331B-3	Co-ordinates:	384708.23 mE	Checked By:	JE
Client:	Homes England Housing Infrastructure Fund		399442.96 mN	Approved By:	JH
Engineer:	BAM Nuttall	Ground Level:	35.04 mOD	Log Status:	Drilled
Date Started:	07/05/2024	Orientation:	- - deg.	Print Date:	21/05/2024
Date Completed:	07/05/2024	Inclination:	90 deg.	Final Depth:	1.50m

Depth Related Exploratory Hole Information										
From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	1.50	CP	07/05/2024	07/05/2024	T820-774			Ian Slater / Jamie fairhurst		

Boring-Drilling Progress						Hole Diameter by Depth			Casing Diameter by Depth		
Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks	Depth (m)	Dia. (mm)	Remarks	Depth (m)	Dia. (mm)	Remarks
07/05/2024	07:30	1.50	0.00	Dry	Start of shift	1.50	150		1.50	150	
07/05/2024	17:00	1.50	0.00	Dry	Hole complete						
Water Added Records											
From (m)			To (m)			Volume (litres)			Remarks		

Depth Related Remarks				Chiselling / Hard Boring Details				Drilling Flush Details				
From (m)	To (m)	Remarks		From (m)	To (m)	Duration (hh:mm)	Tool	From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes							Monitoring Installation Pipe Work							Backfill Details	
Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks	Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks	From (m)	To (m)
														0.00	1.50
														904	Grout

Standard Penetration Test Results																			
Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Decommissioning completed

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

BR-SR13 - Borehole Decommissioning Record

Contract Name:	Victoria North	Contract No:	RGN.331B
Location ID:	WS311	Date:	2024-05-07

Location

Type of Locating equipment:

☒ dGPS ☐ GPS

Grid Reference System:

OSGB

Easting:

384708.232

Northing:

399442.964

Datum:

MSL

Elevation (m):

35.04

Location Configuration

Site Type:

☒ Private ☐ Highway ☐ Railway ☐ Soft landscape ☐ Arable Field ☐ Grazing Field

Existing Features:

☐ Protective fence ☐ Raised cover ☒ Flush cover ☐ Instrumentation ☐ Other

Other (please specify:)

Has additional features been removed by decommissioning?

☒ Yes ☐ No ☐ N/A

Can decommissioning work be completed?

☒ Yes ☐ No

General Details

Weather

Dry

Start of shift

2024-05-07

Time:

07:30

End of shift

2024-05-07

Time:

17:00

Pre-condition Photographs

#	Photograph
1	

#	Photograph
2	

#	Photograph
3	



#	Photograph
4	



Over-drill Log

Has the location been over-drilled?

☒ Yes ☐ No

A drillers log (BR-SR1) must also be completed for over-drilled locations.

Borehole and Installation Details

Reason for abandonment:

End of monitoring

Borehole Diameter (mm)

115

Installations

ID	Type	Diameter (mm)	Response Zone (mbgl)	Dip (mbgl)
----	------	---------------	----------------------	------------

No Monitoring Points Added

Decomissioning Details:

Decommissioning well type (EA,2012):

C - Low Permeability Backfill

Has pipework been removed:

☒ Yes
 ☐ No
 ☐ N/A

Depth pipe cut off (mbgl):

1.50

Grout mixer used (Equipment Make/Model):

Putzmeister

Backfill Rows

Top (mbgl):	Base (mbgl):	Type	Estimated Volume	Details
0.00	1.50	904 - Grout Method: ☐ Tremie pipe ☒ Poured	Litres: 16 m3: 0.016	Volume used: Litres: 16 20kg bags: m3: 0.016 Comments (mix ratio / compaction type):

Cap Dimensions

Has a concrete cap been placed?

☐ Yes
 ☒ No

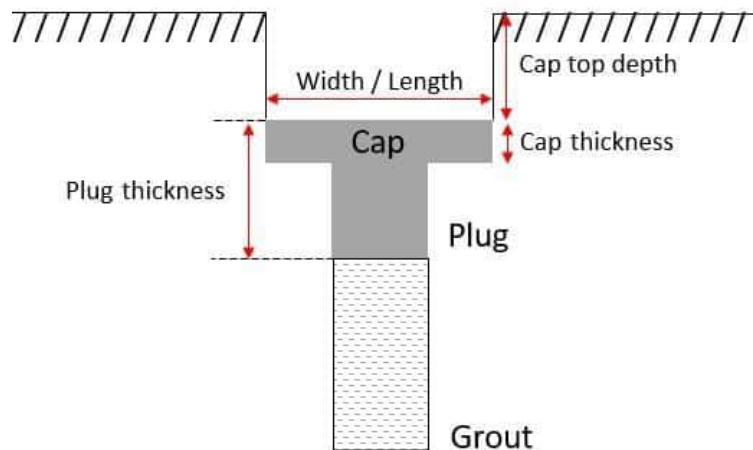
Cap Top Depth (m):

Cap Width (m):

Cap Length (m):

Cap Thickness (m):

Plug Thickness (m):



Post-condition Photographs

#	Photograph
1	

#	Photograph
2	



#	Photograph
3	



#	Photograph
4	 A photograph showing a large pile of excavated earth and debris at a construction site. The pile is composed of dark, moist soil and various rocks. In the background, a brick building and a yellow excavator are visible. The foreground shows a dirt path with some red spray-painted markings.

Sketch

Include sketch (if applicable):

Operative Details

Is decommissioning works complete?

☒ Yes ☐ No

Additional Remarks

Office:

GI Warrington

Form completed by:

Ian Slater



07 May 2024 17:09:33 +01:00

Form revision: 1.0.0 (2024-04-10)



COMPLEX CHALLENGES ...
MADE SIMPLE

APPENDIX E – PLANNING NOTICES AND CONSULTATION RECORDS

Far East Consortium (FEC)
UK (London Office)
12 Stanhope Gate
London
W1K 1AW

Our ref:
SO/2023/123379/04-L01
Your ref:
'Application '5' - 136814/FO/2023
Date of Issue:
05 January 2024

FAO: Far East Consortium (FEC) 'Application 5' Project Team: John Sherrington / Mike Newman / Alex Smiles

CHARGEABLE PLANNING AGREEMENT ENVPAC/1/GMC/00443 – VICTORIA NORTH – APPLICATION 4 & APPLICATION 5 (REDBANK & NEWTOWN NEIGHBOURHOOD)

ENVIRONMENT AGENCY / FAR EAST CONSORTIUM:

- 1. PRELIMINARY VIRTUAL DISCUSSION MEETING 20TH DECEMBER 2023
[13:00-15:00]**
 - 2. PRELIMINARY TECHNICAL REVIEW OF DRAFT REPORTING SUBMISSIONS ADDRESSING THE REQUIREMENT(S) OF CONDITION 17 (GROUND INVESTIGATIONS, REMEDIAL STRATEGY AND REMEDIAL VERIFICATION PLAN) ATTACHED TO PLANNING PERMISISON 136814/FO/2023 (GRANTED 18TH DECEMBER 2023)**
-

Dear Far East Consortium (FEC) 'Application 5' Project Team,

Thank you again for requesting and undertaking preliminary engagement with the Environment Agency (EA) regarding addressing relevant conditional requirements, relating to the protection and enhancement of controlled waters, placed upon planning permission 136814/FO/2023 for 'Application 5' (Plots NT02-NT04) of the wider Victoria North strategic regeneration.

Further to virtual (MS Teams) collective meeting discussions held on the 20th December 2023 (refer to separate meeting record email issued 21/12/2023 - 10:39), as instructed, we have progressed under chargeable planning agreement ENVPAC/1/GMC/00443 a further technical review of the reporting submissions listed below. The intention of this review is to identify any wider matters to be addressed by the FEC project team in the progression of condition discharge efforts associated with Application 5 / Plots NT02-NT04.

Condition 4 (Enabling Works Phase Plan / Strategy) Related Submissions Received:

- I. Plots NT02,NT03, NT04 Enabling Works- Rev 03 08/12/2023.

- II. Block XX Enabling Works Soil Remediation Phasing Plan. Drawing No: RDB-ROC-xx-xx-DR-C-PP01 Rev P02
- III. Block XX Groundwater Remediation Phase Plan, drawing No: RDB-ROC-XX-XX-DR-C-PP02 Rev P01.

Condition 17 (Site Investigation / Remedial Strategy / Verification Plan) Related Submissions Received:

- IV. Phase 2 Site investigation, NT02, NT03 and NT04 Dantzic Street, Far East Consortium Ltd-Rev 05 dated 15/12/2023.
- V. Plots NT02, NT03 and NT04, Northern Gateway, Dantzic Street, Phase 3a Detailed Remediation Strategy Report- Rev 01dated 15/12/23.
- VI. Plot NT02 Dantzic Street, Controlled Waters Risk Assessment – Rev 01 15/12/2023

N.B – Further to the above listed reporting, we note we are in receipt of email correspondence from Alex Smiles / RSK providing the missing initial ‘Discovery Strategy’ of the Phase 3a Remedial Strategy report (V).

Preamble - EA Review Context & Understanding of Proceedings Associated with Application 5 Condition Discharge

As preamble to our wider technical review commentary below, we advise the EA’s understanding for the benefit of this further technical review is as follows:

1. Planning permission for 136814/FO/2023 / ‘Application 5’ has now been granted by Manchester City Council planning authority on the 18th December 2023. As such, conditional requirements and numbers are formalised / ‘frozen’ and conditional discharge is now possible to progress by the FEC project team.
2. As per virtual discussions held on the 20th December 2023 and wider associated email correspondence, it remains the intention of the FEC Project Team to further update the Phase 3a Detailed Remedial Strategy Submission to ensure this includes robust and appropriate details of:
 - a. A discovery strategy - how any unsuspected contamination (of adverse levels) will be monitored for and identified (with defined criteria for this).
 - b. The anticipated parameters for a groundwater monitoring programme (of benefit to contingency planning, remedial strategy refinement and unforeseen contamination identification).
 - c. Details of the anticipated ‘contingency plan’ to be enacted should adverse mobilisation of groundwater contamination be observed and / or unforeseen contamination be identified during the progression of site enabling / development works.
3. In connection with (2) above and HIF funding, the assignment of a remedial contractor to progress remedial works within the ‘Application 5’ development area

is premised and fully dependent upon condition 17 attached to 136814/FO/2023 being effectively discharged prior.

4. In connection with (3) above, it is the intention of FEC the project team, alongside relevant final technical submissions supporting / seeking the formal discharge of condition 17 attached to 136814/FO/2023 to also submit in connection with this reporting a 'Statement of Intention'. The submitted 'Statement of Intention' will:
 - Clearly outline a recognition that further elements of the remedial strategy will only be possible to refine and fully delineate upon assignment of a remedial contractor which (as per 3 above) is premised and critically dependent upon the effectual discharge of condition 17.
 - Noting the limitations of detail which can be provided prior to remedial contractor assignment, a written commitment to work further with key stakeholders (EA and Manchester City Council Environmental Health) to ensure that the final detailed strategy enacted and developed (post-condition 17) is sufficient to address the requirements of condition 18 (remedial strategy verification) and, as appropriate, support condition 21 (groundwater monitoring) and condition 22 (piling risk assessment).
5. Further to (1) above and conversations held on the 20th December 2023, the FEC Project Team has now formally submitted for Condition 4 (Enabling Phase Plan) for full discharge under planning application CDN/23/0876.

Should any of the EA's understanding outlined above prove incorrect, then we ask that we are notified by the FEC project team at the earliest possible opportunity to make further representation.

EA Technical Review Commentary – Condition 4 (Enabling Works Phase Plan / Strategy) Related Submissions

As identified within preamble above (refer to point 5), from third-party correspondence with the Local Planning Authority (LPA) we are aware that the FEC project team has now formally submitted for the discharge of Condition 4 under CDN/23/0876.

From a review of the separate formal submissions made under CDN/23/0876, we have identified that the updated iterations of documents (I), (II) and (III) listed above have been submitted, responding to preliminary feedback provided by the EA in December 2023 post-meeting.

We advise the FEC project team that we have reviewed these revised Condition 4 submissions and are satisfied that they are sufficient to address the conditional requirement of condition 4 in so far as the EA is concerned.

An EA formal planning response for CDN/23/0876, to the effect to the of the above, will be issued to the LPA shortly. However, noting the intrinsic link of the Condition 4 Enabling Phase Plan to site remedial requirements, we wish to take this opportunity to provide the following notes and observations to benefit the FEC Project Team's further efforts:

As per the written wording of the Condition 4 Enabling Phase Plan formally submitted under CDN/23/0876, it will be necessary for the remedial strategy (subject of condition

17) to include sufficient details of the 'discovery strategy', 'contingency plan' and 'groundwater monitoring' programme to be undertaken in association. As per EA understanding points (3) and (4) written above, the EA accepts that full exact details for these elements of the remedial strategy will not likely be possible to provide prior to remedial contractor assignment. However, for the purpose of formal discharge of condition 17 submissions, it will need to be ensured sufficient details are provided to enable the EA confidence that matters associated with the protection and enhancement of controlled waters will be achieved. In the absence of 'full and 'final' details of these three elements of the remedial strategy, we consider a 'Statement of Intention' as a formal submission will be critical to address this limitation.

In association with the above, as per discussions held on the 20th December 2023, we strongly recommend early perspective on this matter is sought from the LPA and their Environmental Health Department as to whether the 'Statement of Intention Approach' will be more widely acceptable. We note final determination of whether to grant planning condition discharge is the responsibility of the LPA not the EA i.e. whether the 'Statement of Intention' approach is viable cannot be determined by the EA.

As per the revised Groundwater Remediation Phase Plan, drawing No: RDB-ROC-XX-XX-DR-C-PP02 formally submitted, we note the 'groundwater remediation' area now extends to encompass the built development area of plot NT03.

Further to discussions held on the 20th December, identifying need for revision (in reflection to latest TCE groundwater monitoring), we can confirm we are satisfied with the revised extend of the 'groundwater remediation zone' presented. However, noting the encroachment of the revised zone area into the spatial footprint of plot NT03, we advise that going forwards careful consideration will need to be given to this as part of any subsequent Construction Phase(s), subject of condition 11.

Completion of groundwater remediation ahead of attempted progression of built-form development within Plot NT03 is advisable. If it is considered that built-form development within plot NT03 needs to be progressed prior to full groundwater remediation, then we ask that we are notified and advocate for further early discussion with the EA regarding this matter, noting the wording of condition 18 (remedial verification report) and potential complication for interim verification reporting sign-off.

Linking to the above, we note to the formally submitted iteration of the Enabling Phase Plan/Strategy does not include reference or detail as to when in sequence basement excavations within 'Area B' will be undertaken. Whilst we do not consider the omission of this detail to prevent the discharge of condition 4, we note from the lower ground floor plans approved under 136814/FO/2023 that 'basement excavations' may be required as part of the progression of Plots NT02-NT04.

As above, we would advocate for the completion of all groundwater remedial works prior to extensive excavation / void creation and encourage preliminary engagement with the EA if it anticipated basement excavation in Area B will occur prior to the conclusion of groundwater remedial works.

Finally, we note that no reference is currently made within the enabling phase plan to addressing pre-commencement condition 21 (borehole management). We presume it is the intention of the FEC project to address the requirement of condition 21 upon remedial contractor assignment i.e. post-discharge of condition 17 given the level of detail required to be supplied for the purpose of condition 21. However, we request we are notified if an alternative intention exists.

EA Technical Review Commentary – Condition 17 (Site Investigation / Remedial Strategy / Verification Plan Related Submissions)

Whilst, in conjunction with the preamble detailed above for the purpose of this preliminary review, we do not consider the current suite of reporting submissions provided sufficient to address the full extent of the requirements detailed under condition 17 attached to 136814/FO/2023, the following points pertinent to further discharge efforts are noted:

- Additional fully detailed information regarding the implementation of the remedial strategy cannot be provided until the remedial contractor has been appointed, which is contingent on the condition 17 being discharged.
- Plots NT02, NT03 and NT04 have been subjected to a sufficiently detailed level of characterisation, with the identified contaminants of potential concern assessed via way of a DQRA. Conclusions reached about the level of risk posed and the identification of suitable remedial options are considered robust.
- Whilst it is acknowledged and considered by the EA that further ground investigation and groundwater monitoring maybe required to fully develop the remedial strategy in detail, it is considered by the EA unlikely that any further ground investigations / monitoring undertaken will result in material changes or impact the viability of the risk assessment and remedial options appraisal. However, the EA do consider that additional groundwater monitoring is required as part of the contingency plan (see below comments below).

In virtue of the above, our considerations for the specifics listed requirements of condition 17 are as follows:

- Condition 17, Part 1 - Effectively addressed in relation to the EA's remit.
- Condition 17, Part 2 – In relation to the EA's remit, there is currently insufficient information to discharge this part of the condition, due to the requirement for full details of the remedial measures and how they will be implemented.
- Condition 17 Part 3 – In relation to the EA's remit, there is currently insufficient information to discharge this part of the condition as worded due to lack of details on the long-term monitoring, maintenance and arrange for a contingency action plan. Noted - the subject of the 'Statement of Intention Strategy' required needs to be discussed with Manchester City Council planning department.
- Condition 17, Part 4 - Effectively addressed in relation to the EA's remit.
- Condition 17, Part 5 – To be addressed via Manchester City Council's Environmental Health Officer. EA cannot advise.
- Condition 17, Part 6 – In relation to the EA's remit, this point is considered to have been addressed. There are numerous other investigation locations in proximity to TP214 which indicate the lack of a wider infilled area.

- Condition 17, Part 7 - As per Part 1 above, effectively addressed in relation to the EA's remit.
- Condition 17, Part 8 - To be addressed via Manchester City Council's Environmental Health Officer. EA cannot advise.
- Condition 17, Part 9 - As per Part 2 above, effectively addressed in relation to the EA's remit.
- Condition 17, Part 10 - This appears to duplicate the requirements of part 2, although is less prescriptive. A remediation strategy has been provided which, while not detailed, sets out a high-level strategy which is generally acceptable.
- Condition 17, Part 11 - Concluding paragraph sets out requirements for dealing with unexpected contamination. A discovery strategy has been provided, but it is considered that the wording should also be altered to ensure that the discovery strategy is consistent with the wording of this part of the condition. EA consideration is that Part 11 will remain live, but only triggered if unexpected contamination is encountered.

Expanding on the above, we wish to take this opportunity to provide the following additional element specific commentary to aid the further efforts of the FEC Project Team:

Discovery Strategy Commentary

The general approach set out in the discovery strategy is acceptable in principle. However, further to the iteration of reporting currently supplied to the EA, prior to formal submission, the report wording will need to be amended to ensure an accurate reflection and acknowledgement to the wording of part 11 of condition 17. This wording is as follows:

"In the event that ground contamination, groundwater contamination and/or ground gas, not previously identified, are found to be present , at any time, before the development is occupied, then development on the relevant Phase or phases shall cease and on-site works not recommenced until a report outlining what measures, if any, are required to remediate the relevant land (the Revised Remediation Strategy) is submitted to and approved in writing by the City Council as Local Planning Authority . In the event that the identified contamination can be isolated or is contained to a localized area of the site, subject to agreement, works can continue following submission of a plan identifying the area of contamination. Development shall then be carried out in accordance with the approved Revised Remediation Strategy, which shall take precedence over any Remediation Strategy or earlier Revised Remediation Strategy of relevance."

So, for example, the discovery strategy will need to capture the requirements for works to cease, for the regulators to be informed, submission of a report detailing what remedial works, if any, are required etc.

Benzene and TPH Commentary

During the most recent groundwater sampling round (which included the new 500 series boreholes), concentrations of benzene and TPH were encountered. TPH was characterised as heavier with lower mobility fractions which, along with the localised nature of the contamination, is considered unlikely to pose a risk.

The distribution of benzene observed from current ground investigations is suggestive of a potential offsite source, although the potential for an on-site source cannot be fully discounted. Caution is therefore advised (linking to discovery strategy).

Based on lines of evidence and level of risk posed, we consider that requesting further ground investigation is undertaken at this stage would be disproportionate and that it would be more appropriate that consideration to this risk is given via way of the discovery strategy discussed above.

During slab breaking and groundworks within the TCE impacted soils area, there is the potential for additional contamination to be mobilised. As TCE has been confirmed as the main contaminant of concern in soils, rather than dealing with any additional leaching under unexpected contamination, it will be covered via a monitoring strategy and specific contingency plan.

Contingency plan and Monitoring Strategy Commentary

We note that Part 3 of condition 17 requires a long-term monitoring, maintenance plan and arrangements for contingency action plan, with respect to contamination.

It is noted that the Phase 2 Ground Investigation report includes some commentary on risks of slab removal and associated recommendations (10.0.12). While the contents of this are fine in the context of the phase 2 report, as identified within the meeting discussion and wider correspondence, it is not sufficiently detailed to be considered a contingency plan. As collectively identified and as recognised under the Enabling Phase Plan submitted in support of the discharge of condition 4, this will need to be a level of detail supplied within the remedial strategy itself.

Point 2 of paragraph 10.0.19 identifies the need to protect boreholes at a level of detail appropriate for the phase 2 report but not considered sufficiently detailed to form a monitoring plan. As collectively identified and as per the Enabling Phase Plan submitted in support of the discharge of condition 4, this will need to be a level of detail supplied within the remedial strategy itself.

As above, the EA's expectation is that a monitoring strategy and contingency plan is included within further updated iteration of the Phase 3a remedial strategy. As per our meeting discussion and associated correspondence, it is acknowledged that it will not be possible to provide full details until such a time as the specialist remedial contractor has been appointed. However, it has been collectively agreed as possible for the FEC project team to provide further details at this stage on these matters, thereby enabling the EA confidence that the protection and, where possible, enhancement of controlled water resources can be achieved.

In terms of a further updated Phase 3a remedial strategy, examples of the information the EA expect to see includes:

- Identification of the minimum number of monitoring rounds required to establish baseline conditions.
- Parameters to be monitored for.
- Further monitoring undertaken should include benzene and TPH.

NB - The EA considers that this monitoring will seek to further confirm conditions, (especially with the 500 series boreholes currently subject to a single monitoring round).

- Detailed methodology for establishing trigger values and / or intended trigger values.
- An indicative contingency plan, as a minimum, identifying what the contingency plan should achieve in its enactment.

There would be benefit at this stage in establishing where responsibility for these various actions sit.

Importation criteria:

Plots NT02, NT03 and NT04, Northern Gateway, Dantzic Street, Phase 3a Detailed Remediation Strategy Report (Rev 01 dated 15/12/23) Table 11: Criteria for the simple soil cover system are to be used as importation criteria. Excavated soils being imported from another site meeting these criteria would be considered waste and cannot be placed without an Environmental Permit.

The DoWCoP document and subsequent FAQs provide detail on requirements for importing soils from donor sites and the criteria that must be met.

In order for soils being imported from a donor site (irrespective of whether it is brownfield or not), to meet the requirements of DoWCoP (and demonstrate that they are not waste) they need to meet the definition of “clean naturally occurring material” as per the DoWCoP main document. Please update the documents accordingly.

Summary

In summary to the above, we do not believe our technical further review (post 20th December 2023) of the Condition 4 and Condition 17 submissions provided under ENPAC/1/GMC/00443 has identified any further matters which have not already been identified to the FEC project team during prior conversations to be addressed as part of further iteration / revision. However, as collectively agreed and identified prior, further update to the current iteration of the Phase 3 remedial strategy (Revision 1) will be required to ensure the elements of the discovery strategy, groundwater monitoring approach and contingency plan are effectually addressed (in alignment to the Phasing Plan submitted for Condition 4).

Further to the above, in virtue of the outlined contractual assignment limitations / challenges, we strongly recommend the viability of the ‘Statement of Intention’ approach for Condition 17 is discussed and agreed with Manchester City Council’s Planning and Environmental Health Departments. Understandably, if the ‘Statement of Intention’ approach is not deemed acceptable, we envisage this will materially alter the scope and level of detail required to be submitted to enable the effectual discharge of condition 17 and forward proceedings.

Finally, we ask that we are provided clarification on the queries raised under letter section ‘*EA Technical Review Commentary – Condition 4 (Enabling Works Phase Plan / Strategy) Related Submissions*’, as appropriate. Although, as stated, we do not anticipate these queries to impact the ability of the EA to recommend the discharge of Condition 4 as submitted under CDN/23/0876.

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We trust that the FEC project team finds the contents of this letter beneficial. However, any queries or questions regarding the contents of this letter, then please do not hesitate to get in contact with the EA Project Team.

Yours sincerely,

Mr Andy Davies
Green Growth Team Project Manager & Planning Advisor

Direct e-mail andy.davies1@environment-agency.gov.uk

Document Reviewed:

Plots NT02,NT03 and NT04, Northern Gateway, Dantzig Street Phase 3a Detailed Remediation Strategy Report (RSK, ref: 11834 R02 (02), dated 24 Jan 2024)

General notes on report- not for sharing

Page and ref	Text	Comment	Action Req.	RSK Response to EA Advisory
Page 54, 'Table 11 – Criteria for Simple Soil Cover System'	Tabulated values indicate potential waste importation, this would be a environmental offence.	Current ambiguity regarding the nature and quality of materials to be imported as part of site preparatory efforts.	Written statement should be updated to make clear that will only be utilising clean uncontaminated which achieves accordance to the criteria of and guidance of DoWCoP.	Have adjusted screening criteria to suit the importation of only clean natural soils for use in landscaping based on resi w/o plant uptake scenario, as agreed with MCC
Pg 9 section 2.3.1	It is understood there will be no basement structures, however some structures straddle slopes...	This should remove concerns/comments about how the excavations in NT03 will be excavated?	N/A	No Actions
Pg16 - Surface water	Comments of impacts from soils/groundwater	Agree with these- ie site does not appear to be having an impact.	N/A	No Actions
Pg 19	Derived RTVs need to be agreed with EA	Need to check this and state that we formally agree.	LPA is final determinant but agree EA should be sighted and engaged. Part of 'Statement of Intention' approach.	Assume no changes to this section of report
Pg 22 table 5 Hydrology	River irk likely to be in continuity with groundwater	Maybe, although it looks like there a wall so this might prevent continuity. However assuming continuity is good ie conservative.	N/A – Positive conservative assessment	No Actions
Pg 24	Groundwater flow directions comments-	Not sure I would agree with this-	Whilst not critical when the report is	Have amended section in table

	specifically that overall groundwater flow is trending east to west	groundwater levels from boreholes just in the Chester formation show flow is more from the south west to north/north east (this is consistent with the plume of CHC). When bores in the marls are considered then you get more an east to west flow (although there is still a some flow to the north/north east shown. This doesn't change any of the conclusions reached re rem strat.	looked at in totality i.e. does not change the remedial methodology approach/intentions. We would welcome amendment to this section as it will benefit subsequent efforts of the remedial contractor.	dealing with hydraulic gradient to cover this
Pg 26 4.2.4.1	Benzene considered to be a risk	Typo- should be that benzene is not a risk?	Text amendment required to state Benzene not considered to be primary risk, but contaminant to be considered as part of discovery strategy (to be further developed by remedial contractor).	Amended
Pg 27 VOCs	Identified CoC as CHC with focus on Plot NT02	Yep agree	N/A	
Pg 27 4.2.41 Surface water	Comments on River Irk not being a sensitive receptor	Argument based on the fact it is of poor quality and receives pollution from other sources. Don't think that this is justification for ignoring a river in general, however by setting a 50m compliance point for the principal aquifer this is not an issue (the river is over 50ms away).	Amendment required. River Irk is a sensitive receptor but not the primary risk receptor in this instance. Amendment should make clear that groundwater resources are the primary risk receptor. ^ Linking to the above, should note the generic risk	Agreed, have amended to reflect

			assessment indicates that the site will not pose a risk of impact to the River Irk.	
Pg 34 7.2.3	Unexpected contamination	Limited details provided at this stage of proceedings.	Following 'Statement of Intention' approach, further detail will be required regarding the discovery strategy to be implemented. As above, we encourage this is developed with EA consultation to avoid delay.	Have reworded this para as there is inconsistency with the recent update where we added in the disco strat. Have indicated this issue is elaborated further in the strategy and added the clause above into the disco strat
Pg 35 7.3.1 clean cover layer	Validation criteria set out in section 8	Need to check this and make sure they are not using GACs.	N/A	No Actions
Pg 42 7.6	Remedial requirements for GW	No issue here	N/A	No Actions
Pg 43	ISCR	Final rem option is ISCR- fine, final paragraph raises MNA as a potential polishing off technique – fine.	N/A – Details of implementation will be required to be provided by remedial contractor following 'Statement of Intention' approach.	No Actions
Pg 44 7.8 discovery strat	1) Sets out were info on identifying contamination is located	Appendix G contains criteria for identifying contamination. Only additional point I would add is that there would be benefit in informing LPA/EA when unexpected contamination encountered, nothing detailed just we found something, looking into it will let you know kind of thing.	Amendment required. If adverse unforeseen contamination identified then, following planning condition written requirement, LPA should be notified as first action following the stoppage of work. Notification to LPA can include advisory on intended associated actions.	Have added an additional para to the 3 rd bullet point of clause 2 within the disco strat framework to notify LA / EA and also tweaked the associated flowchart in App G

Pg 46	PID due to gasing, potential for update from rem contractor	These are good points- it seems logical for the rem contractor to provide more detail within the further detailed strategy document once developed- asl for this even if just to confirm they will use process set out by RSK.	N/A	No action
Pg 46 7.6 Contingency plan	Details of preventing TCE et al being mobilised	Yep all seems fine.	No action required at this stage. Further detailed required at point of remedial contractor assignment.	No Action
Pg 47 7.10	Monitoring and boreholes	Identifies need for futher monitoring – level and quality. Quarterly as a minimum, frequency to increase prior to rem works commencing, details of this need to be confirmed by contractor as part of the detailed implementation plan. Don't have an issue with this, need to document what needs to go into the implementation plan.	As above for contingency plan.	No Action
Pg 48 well retention and monitoring		Good coverage, would like to see LK RBH1 retained too as its recorded highest concentrations of CHC – combination of both trans and sis dce- looks like this is the core of DCE plume. Its interesting the BH505 has not detected anything	RSK to confirm if LK RBH1 is a viable monitoring point to retain. If viable, EA would request and encourage that LK RBH1 is encourage to achieve effective monitoring programme.	Have amended to include this well, the well was still present during recent SI works and could be reused. Have added a comment in to cover comment on the need for contractors to

		although there is only a single round. BH201 is screened at over 20m deep into the marls.	N.B – As part of detailed strategy discussion, if an effectual monitoring cannot be achieved via pre-existing boreholes/monitoring points then additional points will need to be created.	replace any lost or damaged wells also
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Overall thoughts:

Several straightforward amendments required prior to formal submission to enable EA to offer position of recommendation to condition discharge. However, provided 'Statement of Intention' (SOI) approach acceptable by the LPA, we consider then is no significant re-work(s) to remedial strategy required prior to progressing to formal discharge of condition stage.

Key point from review is that we will require further information as part of the detailed remediation plan and the issue with importation criteria. As per SOI, further preliminary engagement with the EA and Manchester's Environmental Health (EH) Department will be required prior to remedial strategy implementation.

Engagement with the EA and Manchester's EH department at the earliest opportunity, upon remedial contractor assignment is strongly encourage, to ensure programme deliver remains impinged. If remedial works are progressed on-site prior to the agreement of a detailed remedial strategy, then as per the National Planning Policy Framework, then developer should recognise that the proceed at their own risk and will be responsible for any adverse impact(s). Wider to this, we note the EA would not be able to recommend the discharge of any interim verification reporting submitted, a pre-requisite requirement to the progression of built-form development (as per the conditions placed upon the planning permission).

The Environment Agency would need written assurances, agreed as part of the discharge of condition 17 that works do not commence prior to the detailed remedial implementation strategy has been agreed. This should be enshrined within the Statement of Intention (if agreed as an acceptable approach by the LPA).

It is important that the remedial contractor is made aware of what will be expected from them. The following are the points that I consider most important:

-Discovery strategy for unexpected contamination:

Either the contractor should provide their own version or confirm that they will be following the framework set out with Appendix G. Either way this should include a requirement to notify the relevant regulators should unexpected contamination be encountered and briefly summarise what the next steps will be. Subject to Statement of Intention approach agreement, it is not expected that detailed information will be required at this stage (prior to condition 17 submission).

-Groundwater monitoring

Locations have been identified along with a recommendation for quarterly groundwater monitoring. The Environment Agency considers this to be the **minimum frequency** for the site and notes and agrees with need for monitoring frequency to be increased prior to remedial works commencing. Full details of this monitoring will need to be provided by the remediation contractor. We advise the strategy must include baseline monitoring for a period of time prior to commencement remedial works, further discussion regarding this matter in due course with the EA is encouraged.

BHLK1 has historically reported the highest concentrations of DCE (sis and dis combined) and could be monitoring the central part of the plume. There would be benefit in including this borehole within those to be retained or, if not possible installing an additional borehole targeting the Chester formation further down gradient. It is noted that BH505 has not reported elevated chlorinated solvents but has only been sampled once. Conclusion about requiring an additional borehole may therefore change once more monitoring data has been provided at the detailed design stage.

With respect to piling, there will potentially be monitoring requirements associated with these works. It is anticipated that details of this monitoring (if required) will be provided with a foundation works / piling risk assessment. It is recommended that all monitoring strategies are considered holistically to ensure that responsibilities and specific requirements are clearly stated.

Importation criteria:

It is noted that the criteria to be used for assessing the suitability of imported soils as set out in Table 11 still appear to be based on a land-use scenario and would result in soils being brought onto the site which is of significantly worse quality, often with concentrations of specific contaminants orders of magnitude above those present on the site, this would increase contaminant loadings on the site. This is an action which must be avoided (benefitting remedial verification efforts).

Further to the above, we note that importation of material of a worse quality than on-site material would be counter to the requirements of the Waste Framework Directive and would not be compatible with the requirements of DoWCoP.

It should be highlighted now that, if upon receiving a verification report which confirmed that soils had been imported meeting these quality criteria it is extremely likely that the Environment Agency would consider that an illegal waste activity had taken place.

Importation criteria must be revised so as to be compliant with waste regulations prior to the Environment Agency being able to accept this document.

Outstanding documents and other conditions:

- There is still matter of the agreement to provide us with the additional information in the form of a detailed remedial strategy.

- There are still outstanding pre-commencement conditions for example piling risk assessment which we have not been consulted on.

Far East Consortium (FEC)
UK (London Office)
12 Stanhope Gate
London
W1K 1AW

Our ref: SO/2023/123379/01-L01
Your ref: Application '5'
Date: 14 September 2023

FAO: Linden Richardson / RoC Consulting (acting on behalf of FEC) / John Sherrington / SPC Limited (acting on behalf of FEC)

ENVPAC/1/GMC/00443 – Written Preliminary Review Phase 2 Site Investigation

TECHNICAL WRITTEN REVIEW - ENVIRONMENT AGENCY / FAR EAST CONSORTIUM – VICTORIA NORTH DEVELOPMENT PROPOSALS - PHASE 1

PLOTS NT02, NT03, NT04 ('Application 5') - LAND CONTAMINATION REVIEW AND RESPONSE LETTER FOR:

- **Phase 2 Site Investigation Plots NT02, NT03 and NT04 Dantzic Street. Prepared by RoC Consulting. Ref: 4328-ROC-zz-XX-RP-ES-P2-101. Rev 03. Date: 17th July 2023.**
- **Controlled Waters Risk Assessment, Plot NT02 Dantzic Street. Repared by RSK Geosciences. Ref. 11847 R01 (00). Rev. 00. Date: 18th July 2023.**
- **Remediation Strategy Report (Outline), Plot NT02-NT04, Northern Gate Dantzic Street. Prepared by RSK Geosciences. Ref. 11834 R01 (00). Date: 18th August 2023.**

LAND OFF DANTZIC STREET, PLOTS NT02, NT03 & NT04

Thank you for requesting advice from the Environment Agency (EA) in relation to land contamination matters on the Victoria North Development Plots NT02-NT04 under chargeable agreement ENVPAC/1/GMC/00443.

EA Review Context

We note the NT02-NT04 site, as part of the Victoria North Phase 1 development, is subject to historic contamination as a result of previous industrial land use. From the EA's engagement with the FEC project team to date and understanding of the Phase 1 Desk Study (by RoC Consulting, dated 12th January 2023) and Phase 2 Site Investigation (by RoC Consulting, dated 21st October 2023) previously produced, the most significantly impacted area of the development site is plot NT02. It was highlighted and agreed that additional site investigation work is required to delineate and understand the extent of the chlorinated solvents present on site to confidently determine the risk and, subsequently, establish an appropriate remediation strategy (SO/2023/122837/01-L01, dated 9th March 2023).

We note approval for Plots NT02-NT04 (also named 'Application 5') is currently being sought through Manchester City Council (MCC) planning application ref. 136814/FO/2023. The EA acknowledge the project team's intention to phase both the 'enabling' and 'construction' works for plots NT02-NT04 under 136814/FO/2023. The

EA has no objections with this approach in principle and had highlighted through engagement with the project team and within our formal response to the LPA, that any intrusive works / below ground demolition / material extraction will need to be supported by a firm understanding of the characterisation of ground conditions; associated risks; and remedial works, if necessary (SO/2023/123166/01-L01, dated 18th August 2023). With regards to the 'enabling works' package / phase, such understanding will be required prior to the commencement of these works with the exception of above ground activities, including site set-up; vegetation clearance and above ground demolition, to ensure contamination risks are managed appropriately.

The ground conditions / land contamination information submitted in support of 136814/FO/2023 (as previously reviewed by the EA under our pre-application engagement with the project team) sufficiently demonstrated that the risks to 'controlled waters' can be appropriately managed. Acknowledging the additional work required to sufficiently characterise / assess ground conditions and subsequent production of a remediation strategy for the development site, the EA recommended a pre-commencement planning condition for details of the additional site investigation / assessment work; remedial strategy; and verification plan to be submitted prior to the commencement of any phase of development (excluding site set-up; vegetation clearance and above ground demolition) (SO/2023/123166/01-L01, dated 18th August 2023). Wider to this, and in relation to contaminated land matters, the EA also recommended planning conditions for the submission of a verification report to demonstrate the success of proposed remedial works (by phase); an assessment for proposals that include surface water infiltration drainage; a risk assessment for proposed piling / foundation works; and a scheme for the management / decommissioning of boreholes on site (by phase).

[The EA are awaiting confirmation of the intended final wording of the planning conditions on the Decision Notice for 136814/FO/2023 (email dated 25th August 2023)]

We note the site investigation work and remedial approach will establish the appropriateness of a phased approach to both the 'enabling' and 'construction' phases of the development. Based on the information submitted in support of 136814/FO/2023 and through direct engagement with the project team, there was recognition that a phased remedial approach may not be achievable but recognise this would be subject to the findings of the additional site investigation work / assessment and subsequent remedial approach proposed.

The EA are now in receipt of the updated Phase 2 site investigation report (17th July 2023); controlled waters risk assessment (for NT02 only) (18th July 2023); and outline remediation strategy for Plots NT02-NT04 to demonstrate the progress made since our previous review to address the contaminated land issues at Plots NT02-NT04 (18th August 2023). This is with recognition of the intention to phase the proposed development for both the 'enabling' and 'construction' works.

Therefore, in line with the above context, please see below the EA's commentary on the review of the aforementioned reporting for Plots NT02 to NT04.

EA Commentary on Contaminated Land Matters for Plots NT02-NT04

[Commentary below provided by EA Contaminated Land Advisor, Clay Durrant]

The reporting submitted to date provides confidence that the risks to controlled waters from historic contamination, including chlorinated solvents, can be mitigated. The site

has been subject to good degree of investigation, with results used in support of a Detailed Quantitative Risk Assessment. Based on these, a robust remedial options appraisal has been presented which has identified viable options. We note relevant sections of the reports have identified the remaining uncertainties and recommended further works to address these as summarised below:

- Requirements for further intrusive works to better delineate the extent of TCE contamination both within soils and groundwater.
- Further testing of the hydraulic conductivity and hydraulic gradient.
- Ongoing monitoring to ensure that ground conditions are accurately captured.
- Updating the relevant documents as part of finalising the remedial strategy.

The above listed works are generally consistent with our assessment of the site-specific circumstances. While this information is required to ensure that appropriate remedial criteria is developed and allow for the design of a detailed remedial strategy, it is considered unlikely that the results will impact upon the viability of the identified remedial options in principle.

To support the additional work the EA understand will be undertaken as above, we have the following detailed commentary for the project team's consideration:

Delineation of Chlorinated solvents

We note borehole logs from NT02 indicate that the surface of the Manchester Marls dips to the southwest, with thickness of the Chester Formation increasing down dip. BH305 encountered the base of the Chester Formation at 23.15m AOD, with the depth to base increasing (elevation decreasing) as shown by BH202, BH303 to 18m AOD at BH203, a drop of 5.15m. The same trend is shown between BH305 and BH201 (19.60m AOD), with the base of the Chester Formation encountered at 19.60m AOD, a drop of 3.55m. ROCRBH301, terminated at 15.00m bgl (16.41m AOD) and did not encounter the base of the Chester Formation.

While the lower permeability marls are likely to limit the vertical migration of DNAPL (if present), migration down dip at the base of the Chester Formation / top of the Manchester Marls could occur.

As recognised in the report, further works are required to delineate soil and groundwater chlorinated solvents, namely TCE in areas of the site which have not been accessible due to current site operations. We have the following comments in relation to the approach undertaken on the delineation of chlorinated solvents to date:

- Currently the down dip locations within plot NT02 lack sufficient depth (i.e., boreholes which extend to the base of the Chester Formation). Additional investigation in this area must be sufficient to refine this aspect of the CSM and bridge the current, perceived, information gap.
- It is noted that several boreholes are screened at depth within the Manchester Marls. Groundwater samples obtained from these may not accurately capture the presence of chlorinated solvents, due to the lower permeability of the marls limiting vertical migration.

- Groundwater data from ROCRBH203, ROCRBH303 and LK RBH3 have all detected TCE significantly above the relevant assessment criteria. Concentrations are generally higher during the rounds completed in late 2022 and early 2023. Drivers for these trends have not been discussed and their significance remains unclear. This, in our opinion, makes the information gaps more significant and will need to be addressed in future reporting.
- Ongoing monitoring should help to better identify any trends and analysis of the results should consider the points such as strata individual boreholes are screened in and sample depths from within the water column.

The EA would welcome an opportunity to review the additional works / assessment on the delineation of chlorinated solvents once available. We note, in particular, that the extent of this contamination plume will influence the intended phasing / sequencing of works for plots NT02-NT04.

Controlled Waters Risk Assessment

We note sensitivity analysis has identified key parameters which require further refinement, with this data to be collected via further investigation works which is welcomed. Based on the current Controlled Waters Risk Assessment, we have the following comments to make:

Hydraulic conductivity (K)

Site specific K values have been obtained for the Chester Formation (286.50m/d from BH203 10-15m bgl and 19.70m from BH301 4-10m bgl), with a final value of 1.025m/day selected. This is based on the geometric mean of the higher measured value and the geometric mean of the literature value for sandstone. It is noted that this value has been selected to be representative of the flow within the weathered sandstone and the more competent bedrock. From local knowledge, the higher value obtained is potentially realistic. Sensitivity analysis has shown the model to be sensitive to this parameter so the proposal to undertake further investigations to achieve better characterisation is welcomed.

With respect to chlorinated solvents migrating vertically into the marls and therefore use of a K value for the sandstone being overly conservative, the lower permeability marls could also act to significantly limit vertical migration, with any DNAPL migrating down dip and dissolved phase migration primarily in the Chester Formation. Ultimately the final selected K value will need to be supported by the CSM.

Hydraulic gradient (i)

Due to the differing hydraulic properties between the sandstones and the marls, care should be taken to ensure 'i' is calculated from boreholes screened in the same strata.

Degradation rates

Rates for aerobic (based on site conditions) and anaerobic conditions have been used in the model as part of the sensitivity analysis, with model being shown to be highly sensitive. Ongoing monitoring to better constrain conditions within the aquifer and support selection of an appropriate rate are welcomed.

Calibration

While model calibration is useful, care should be taken to ensure that down gradient locations used are representative ie. wells screened in the same strata, samples are appropriate depths within the water column, temporal fluctuations in groundwater flow direction have been considered.

The EA would welcome an opportunity to review the revised Controlled Waters Risk Assessment once supplementary information from the additional investigation works has been considered to refine this assessment.

Outline Remediation Strategy - Remedial options

While further investigation works are required to better refine the CSM and develop a detailed remedial strategy, we agree with the conclusion that it is very unlikely the results will materially alter the identified remedial options.

Of the 2 preferred options with respect to groundwater, the EA considers option 1 (hydraulic containment and MNA) is the least suitable. Current levels of information are not sufficient to support MNA and time frames for implementing such a strategy are unlikely to be compatible with those of the development.

Option 2 (in situ chemical reduction) would be the preferable option. This will more likely achieve remedial objectives in an appropriate time frame. Post completion, MNA has been identified as a polishing off option. The EA would be supportive of this approach provided it is supported by the post in-situ works monitoring data. It is noted the option of undertaking additional in-situ works has been included if required.

As previously mentioned, the EA is concerned that DNAPL may be present, having migrated down dip. Currently, there is no inclusion of a strategy to deal with any recoverable DNAPL. However, from experience it is known that options exist which should be implementable on the site in the case of recoverable DNAPL being discovered.

Retaining Wall

It is understood that the enabling works will include a bored piled retaining wall to provide support to the railway line as part of the 'enabling works' phase. This wall will require piled foundations and it is likely this work will need to be completed as part of the remedial works. From the information available, it would seem that the piled works will be located close to but outside the areas of soil and groundwater contamination, however, we would welcome confirmation on this matter. From engagement with the project team, we welcome the intention to produce a Piling Risk Assessment, given the potential for mobilisation of contamination and creation of new contamination pathways. We would welcome further discussions on how these works will be managed.

Enabling Works Phasing

It is understood the ground remediation works are to be undertaken as part of the 'enabling works'. It is the EA's understanding that additional investigation and remedial works will potentially run concurrently to an 'enabling works' phase. In principle, phasing works in this manner could be acceptable provided there are sufficient controls in place to ensure such enabling works will not increase risk to 'controlled waters' and prejudice requirements for further investigation or implementation of the remedial strategy. As in

the above context of this review, it is critical the 'enabling works' are cognisant of contamination risks and ensures that these are appropriately managed.

Whilst it is potentially feasible to combine the additional works required with the enabling phases of the development, this is dependent upon receiving satisfactory information demonstrating how each phase of the enabling works will be managed so as not to jeopardise further investigation and remediation, whilst ensuring no adverse impacts on contamination as a result of such works (i.e. where intrusive works are undertaken prior to remedial works). If the project team intend to progress with this approach, the EA would welcome an opportunity to undertake an initial review (or discussion) on the phasing plan for the 'enabling works' (as currently required by planning condition under 136814/FO/2023) which includes narrative that is cognisant to these matters and inclusion of the intended sequencing of such works per phase.

--

We trust that you find the contents of this letter beneficial to further the progression of land contamination matters for proposed development / plots NT02-NT04. However, should you have any queries or questions regard the contents of this letter and/or wish to seek further advice, guidance or discussion regarding this topic matter following the completion of additional ground investigations, then please don't hesitate to get in contact.

Yours faithfully

Ms Anne-Marie McLaughlin
Planning Advisor

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APPENDIX F – DISCOVERY NOTES

TANK DISCOVERY TECHNICAL REPORT

Plot NT02, Red Bank

for

Far East Consortium International
Ltd



04/09/2024



COMPLEX CHALLENGES ...
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TANK DISCOVERY TECHNICAL REPORT

Plot NT02, Red Bank

for

Far East Consortium International Ltd

TITLE	NAME	SIGNATURE	DATE
Report Author	REECE MCGUINESS		04/09/2024
Approved By	MIKE NEWMAN		04/09/2024
Issue No. 01	FINAL		
Report Reference	4328-ROC-ZZ-XX-RP-ES-ESTN01		

REVISION	DESCRIPTION	SIGNATURE	DATE



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1.0 SUMMARY OF TANK DISCOVERY

This technical report has been produced to summarise the discovery of two tank features on Plot NT02 adjacent the former southern warehouse building, a further tank feature at the base of the Network Rail mound and a tank feature located beneath the former northern warehouse in Plot NT02 referred to as the “Love Factory”. A location plan depicting the surveyed extents of the encountered tanks is presented in Appendix A.

Tank LFT01 is located immediately adjacent the southern warehouses eastern façade and is made of concrete with a steel grated cover, pipework is visible connecting to the tank and is believed to relate to a nearby drainage channel. Tank LFT02 is located to the southeast of LFT01 and in close proximity to the gas main that crosses the site. LFT02 is understood to be constructed of concrete.

Tank CYT01 is located within Plot NT03 immediately to the north of the Network Rail Mound and is believed to be associated with an old wheel wash, the tank is covered by steel plates and understood to be formed of steel.

NT02 Tank was encountered most recently and is located in the western portion of NT02 beneath the concrete slab of the former Love Factory building and is formed of brick and concrete.

RoC Consulting was notified of two tank features being identified on site on the 02/04/2024 (Tank LFT01 and LFT02). Four soil samples (TW01, TW02, TW03 and TW04) and one water sample (WS01) was taken from tank LFT01 on 22/03/2024 and 1 soil sample (LFT01 Contents) were taken from tank LFT02 on 26/03/2024 by BAM and sent for chemical testing. Samples were tested for a variety of determinands including:

Soils

- Metals and other inorganics
- TPH
- BTEX
- SVOCs
- VOCs

Water

- Metals and other inorganics
- TPH
- BTEX
- SVOCs
- VOCs

Chemical testing results were received from BAM on 17/04/2024 and are contained within Appendix B.



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Soil chemical testing results have been screened against commercial GACs. Results indicate that elevated levels of lead, a number of hydrocarbon fractions and Xylene M & P are present within the samples. Although no exceedances of commercial GACs were recorded. A summary screening table is presented on the next page in Table 1.

RoC Consulting were also notified of the discovery of an old wheel (CYT01) wash on site adjacent the Network Rail Mound. No visual or olfactory evidence of contamination was noted within the tank which contained wet silt. PID testing completed by Provectus did not indicate the presence of any volatile substances. Therefore, no chemical testing was undertaken on the tank contents.

RoC Consulting were notified of the discovery of NT02 tank on the 20/06/2024. Prior to removal, oily water was noted in the tank, and this was removed by a tanker prior to the tank being removed due to the western wall of the tank being perched above ground level due to neighbouring earthworks. The discovery of the tank involved the accidental removal of the roof of the tank during slab removal works in the former southern warehouse building on Plot NT02 and potentially compromised the structural integrity of the tank. Therefore, the decision to remove tank contents via tanker and disposal off site as "oily water" was made on site due to the fact that the western tank wall was above ground level and at risk of failure with the possibility of contents subsequently running into the neighbouring Victoria Riverside Development / River Irk. Chemical testing results were not obtained from the oily water that was contained within the NT02 tank. (what about soils?)

Table 1: Tank Contents Soil Screening Summary Table

Compound	Unit	Commercial GAC	TW01	TW02	TW03	TW04	LFT01
SOM	%	-	12.3	20.4	17.6	13	-
Asbestos	N/A	-	ND	ND	ND	ND	-
Metals							
Arsenic	mg/kg	640	9	7	13	11	13
Boron	mg/kg	240000	1.9	6	4.5	2.2	5.3
Cadmium	mg/kg	410	0.7	1.1	0.9	0.7	2.2
Chromium III	mg/kg	8600	29	29	35	33	49
Chromium VI	mg/kg	49	<2	<2	<2	<2	-
Copper	mg/kg	68000	122	179	137	101	130
Lead	mg/kg	2300	287	365	300	332	680
Elemental Mercury	mg/kg	-	<1	<1	<1	<1	-
Inorganic Mercury	mg/kg	1120	<1	<1	<1	<1	0.7
Methyl Mercury	mg/kg	-	<1	<1	<1	<1	-
Nickel	mg/kg	980	18	26	22	20	28
Selenium	mg/kg	12000	<2	<2	<2	<2	<1
Vanadium	mg/kg	9000	19	32	23	20	-
Zinc	mg/kg	74000	1800	993	894	1600	900
Cyanide	mg/kg	-	<1	<1	<1	<1	-
BTEX							
Benzene	mg/kg	27	<2	<2	<2	<2	<5
Toluene	mg/kg	56000	<5	<5	<5	<5	0.014
Ethylbenzene	mg/kg	6000	0.285	0.259	0.176	0.101	0.064
Xylene-m *	mg/kg	5900	0.594	311.01	0.424	0.167	0.31
Xylene-o	mg/kg	6600	0.306	<2	0.193	0.86	0.11
Xylene-p *	mg/kg	5900	0.594	311.01	0.424	0.167	0.31
Total Xylene	mg/kg	-	0.9	311.01	0.617	1.027	0.42
Methyl tertiary-butly ether (MTBE)	mg/kg	7500	<0.005	<0.005	<0.005	<0.005	<0.005

**COMPLEX CHALLENGES ...
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Compound	Unit	Commercial GAC	TW01	TW02	TW03	TW04	LFT01
PAHs							
Acenaphthene	mg/kg	110000	<0.1	0.62	0.92	<0.1	-
Acenaphthylene	mg/kg	110000	<0.1	<0.1	<0.1	<0.1	-
Anthracene	mg/kg	520000	<0.1	0.31	<0.1	<0.1	-
Benzo(a)anthracene	mg/kg	170	0.4	0.01	0.89	0.31	-
Benzo(a)pyrene	mg/kg	77	0.44	1.22	1.02	0.33	-
Benzo(a)fluoranthene	mg/kg	44	0.53	1.14	1.06	0.39	-
Benzo(g,h,i)perylene	mg/kg	3900	<0.1	0.41	0.41	<0.1	-
Benzo(k)fluoranthene	mg/kg	1200	0.19	0.46	0.29	<0.1	-
Chrysene	mg/kg	350	0.46	1.1	1.16	0.43	-
Dibenzo(a,h)anthracene	mg/kg	3.5	<0.1	<0.1	<0.1	<0.1	-
Fluoranthene	mg/kg	23000	1.12	2.71	2.42	0.88	-
Fluorene	mg/kg	63000	<0.1	0.81	2.01	0.37	-
Indeno(1,2,3-cd)pyrene	mg/kg	500	<0.1	0.46	0.36	<0.1	-
Naphthalene	mg/kg	1800	0.19	1.88	0.6	<0.1	-
Phenanthrene	mg/kg	22000	1.06	2.82	4.79	1.13	-
Pyrene	mg/kg	54000	1.59	2.38	2.73	0.88	-
Phenol	mg/kg	440	<2	<2	<2	<2	-
TPH							
Ali C5-C6	mg/kg	3200	<0.01	<0.01	<0.01	<0.01	<0.02
Ali >C6-C8	mg/kg	7800	<0.05	<0.05	<0.05	<0.05	<0.02
Ali >C8-C10	mg/kg	2000	<2	26	4	<2	0.26
Ali >C10-C12	mg/kg	9700	11	47	24	14	72
Ali >C12-C16	mg/kg	5,900	441	277	413	162	3300

**COMPLEX CHALLENGES ...
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Compound	Unit	Commercial GAC	TW01	TW02	TW03	TW04	LFT01
Ali >C16-C35	mg/kg	1000000	6264	5002	2957	870	53300
Ali >C35-C44	mg/kg	1000000	726	275	187	60	-
Aro >C8-C10	mg/kg	3500	24	76	38	2	0.54
Aro>C10-C12	mg/kg	16000	23	53	40	<2	76
Aro >C12-C16	mg/kg	36000	172	94	293	23	1900
Aro >C16-C21	mg/kg	28000	718	222	552	59	4400
Aro >C21-C35	mg/kg	28000	1264	564	411	24	8100
Aro >C35-C44	mg/kg	28000	160	<10	<10	<10	14000

Water chemical testing results have been screened against DWS/EQS GACs. Results indicate that elevated levels of aliphatic and aromatic hydrocarbon with exceedance of GACs reported in Aliphatic fraction C12-C16 and Aromatic fraction C12-C16, C16-C21 and C21-C45 are present within the samples. A summary screening table is present below in Table 2, with exceedances of GACs highlighted red.

Table 2: Tank Contents DWS Screening

Compound	Unit	DWS GAC	WS01
Metals and Inorganics			
Cyanide	µg/l	-	<5
Sulphate	mg/l	250	33
DOC	mg/l	-	18
Hardness - Total	MgCaCO ₃ /l	-	113
Arsenic	µg/l	10	0.6
Boron	µg/l	-	52
Cadmium	µg/l	5	<0.2
Chromium	µg/l	50	<0.2
Copper	µg/l	2000	0.6
Lead	µg/l	10	<0.2
Mercury	µg/l	1	<0.04
Nickel	µg/l	20	2.9
Selenium	µg/l	10	<0.2
Vanadium	µg/l	-	0.2
Zinc	µg/l	3000	2
Calcium	mg/l	-	42.7
Total Phenols	µg/l	-	<10
PAHs			
Acenaphthene	µg/l	-	0.04
Acenaphthylene	µg/l	-	<0.01
Anthracene	µg/l	-	0.03
Benzo(a)anthracene	µg/l	-	0.04
Benzo(a)pyrene	µg/l	0.01	<0.01
Benzo(b)fluoranthene	µg/l	0.1	<0.01
Benzo(g,h,i)perylene	µg/l	0.1	<0.008
Benzo(k)fluoranthene	µg/l	0.1	<0.01
Chrysene	µg/l	-	0.05
Dibenzo(a,h)anthracene	µg/l	-	<0.01
Fluoranthene	µg/l	-	0.16
Fluorene	µg/l	-	0.08

**COMPLEX CHALLENGES ...
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Compound	Unit	DWS GAC	WS01
Metals and Inorganics			
Indeno(1,2,3-cd)pyrene	µg/l	0.1	<0.01
Naphthalene	µg/l	-	0.14
Phenanthrene	µg/l	-	0.23
Pyrene	µg/l	-	0.2
TPH			
Ali C5-C6	µg/l	15000	<10
Ali >C6-C8	µg/l	15000	<10
Ali >C8-C10	µg/l	300	<10
Ali >C10-C12	µg/l	300	25
Ali >C12-C16	µg/l	300	579
Ali >C16-C35	µg/l	-	4897
Ali >C35-C44	µg/l	-	373
Total Ali	µg/l	-	5874
Aro >C8-C10	µg/l	-	<10
Aro>C10-C12	µg/l	90	15
Aro >C12-C16	µg/l	90	189
Aro >C16-C21	µg/l	90	543
Aro >C21-C35	µg/l	90	931
Aro >C35-C44	µg/l	-	72
Total Aro	µg/l	-	1750
BTEX			
Benzene	µg/l	-	<1
Toluene	µg/l	-	<5
Ethylbenzene	µg/l	-	<5
Xylene-p & m	µg/l	-	<10
Xylene-o	µg/l	-	<5
Methyl tertiary-butly ether (MTBE)	µg/l	-	<10

2.0 RECOMMENDATIONS

The tanks will require removal from site, removal works should be subject to a watching brief from a suitably qualified geoenvironmental engineer and photographic records of the removal works obtained. The tanks condition should be inspected, and the condition of any containment features should also be recorded. The surrounding soils once the tank is removed should be inspected for any visual or olfactory evidence of contamination. Soil samples should be taken from the walls and base of the excavation once the tank is removed and tested for contaminants of concern as well as metals, inorganics, hydrocarbons and PAHs. Pipework associated with the tank should also be chased out and removed.

The results of the chemical testing of samples obtained from soils surrounding the tank and pipework should be considered in the context of the agreed remediation strategy for the site.

3.0 TANK REMOVAL

Tank LFT01 was removed on the 18/06/24. RoC was in attendance to witness the tank removal and photographs of the tank removal process are contained within Appendix A. The removal works involved the excavation of oily sludge like material from the tank which was then placed within a taped visqueen sheeted bund prior to being removed from site. The tank itself was constructed of concrete which was broken out and removed once the oily sludge had been cleared. The drainage channel which fed into the tank was also removed. Soils beneath and surrounding the tank were inspected for any visual or olfactory evidence of contamination and none was reported. Soil samples were obtained from beneath the tank to determine if there had been any impact on site soils. Results from this testing are contained within Appendix C. Screening of chemical testing data indicates that samples obtained from the base and north, east, south and west faces of soils surrounding the tank had no exceedance of commercial GACs for PAHs, petroleum hydrocarbons and BTEX compounds.

Tank LFT02 was removed on the 04/07/24. Photographic evidence of the removal process has been provided by Provectus and is contained within Appendix A. Soil samples were obtained from beneath the tank to determine if there had been any impact on site soils. Results from this testing are contained within Appendix C. Review of chemical testing data indicates that samples obtained from the base and north, east, south and west faces of soils surrounding the tank had no exceedances of commercial GACs for PAHs, petroleum hydrocarbons and BTEX compounds.

Tank CYT01 was removed on the 24/07/24. Photographic evidence of the removal process has been provided by Provectus and is contained within Appendix A. No chemical testing was completed on soils present beneath the tank as the tank did not contain any hydrocarbons or other obviously impacted material.

The NT02 tank was removed on the 17/07/24. Photographic evidence of the removal process has been provided by Provectus and is contained within Appendix A. The tank structure itself was then removed and following removal of the tank, soil samples were obtained from beneath the tank to determine if there had been any impact on site soils. Results from this testing are contained within Appendix C. Review of chemical testing data indicates that no exceedances of commercial GACs were reported for metals, PAHs, VOCs, petroleum hydrocarbons and BTEX compounds.

4.0 TANK REMOVAL SOIL TESTING

Table 3: Tank LFT01 Validation Testing

Compound	Unit	Commercial GAC	5C Tank B	5C Tank N	5C Tank E	5C Tank S	5C Tank W
BTEX							
Benzene	mg/kg	27	<5	<5	<5	<5	<5
Toluene	mg/kg	56000	<5	<5	<5	<5	<5
Ethylbenzene	mg/kg	6000	<5	<5	<5	<5	<5
Xylene-m *	mg/kg	5900	<5	<5	<5	<5	<5
Xylene-o	mg/kg	6600	<5	<5	<5	<5	<5
Xylene-p *	mg/kg	5900	<5	<5	<5	<5	<5
Methyl tertiary-butly ether (MTBE)	mg/kg	7500	<5	<5	<5	<5	<5
PAHs							
Acenaphthene	mg/kg	110000	0.48	0.14	0.31	2.50	5.40
Acenaphthylene	mg/kg	110000	<0.05	0.11	0.14	<0.05	<0.05
Anthracene	mg/kg	520000	0.73	0.50	0.65	3.10	8.00
Benzo(a)anthracene	mg/kg	170	1.50	1.20	1.30	5.60	9.90
Benzo(a)pyrene	mg/kg	77	1.60	1.40	1.60	5.70	9.10
Benzo(a)fluoranthene	mg/kg	44	0.82	0.54	0.82	2.8	4.7
Benzo(g,h,i)perylene	mg/kg	3900	0.92	0.77	0.87	2.8	4.4
Benzo(k)fluoranthene	mg/kg	1200	0.82	0.54	0.82	2.8	4.7
Chrysene	mg/kg	350	1.60	1.30	1.70	6.00	10.00
Dibenzo(a,h)anthracene	mg/kg	3.5	0.15	0.15	<0.05	0.52	0.85
Fluoranthene	mg/kg	23000	3.3	2.3	2.8	15	28
Fluorene	mg/kg	63000	0.35	0.19	0.28	2.1	4.3
Indeno(1,2,3-cd)pyrene	mg/kg	500	0.75	0.64	0.71	2.60	4.10
Naphthalene	mg/kg	1800	0.22	0.24	0.18	1.20	1.40
Phenanthrene	mg/kg	22000	3	1.8	2.3	11	28
Pyrene	mg/kg	54000	3.2	2.4	2.9	13	24

**COMPLEX CHALLENGES ...
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Compound	Unit	Commercial GAC	5C Tank B	5C Tank N	5C Tank E	5C Tank S	5C Tank W
TPH							
Ali C5-C6	mg/kg	3200	<0.02	<0.02	<0.02	<0.02	<0.02
Ali >C6-C8	mg/kg	7800	<0.02	<0.02	<0.02	<0.02	<0.02
Ali >C8-C10	mg/kg	2000	<0.05	<0.05	<0.05	<0.05	<0.05
Ali >C10-C12	mg/kg	9700	<1	<1	1.5	1.3	1.2
Ali >C12-C16	mg/kg	5900	19	<2	23	19	44
Ali >C16-C21	mg/kg	1000000	75	<8	89	78	220
Ali >C21-C35	mg/kg	1000000	210	38	330	460	1300
Aro >C5-C7	mg/kg	-					
Aro >C8-C10	mg/kg	3500	<0.01	<0.01	<0.01	<0.01	<0.01
Aro>C10-C12	mg/kg	16000	<0.01	<0.01	<0.01	<0.01	<0.01
Aro >C12-C16	mg/kg	36000	<0.05	<0.05	<0.05	<0.05	<0.05
Aro >C16-C21	mg/kg	28000	71	<10	40	110	380
Aro >C21-C35	mg/kg	28000	140	35	110	440	1100

Table 4: Tank LFT02 Validation Testing

Compound	Unit	Commercial GAC	Small Tank N	Small Tank E	Small Tank S	Small Tank W	Small Tank B
BTEX							
Benzene	mg/kg	27	<5	<5	<5	<5	<5
Toluene	mg/kg	56000	<5	<5	<5	<5	<5
Ethylbenzene	mg/kg	6000	<5	<5	<5	<5	<5
Xylene-m *	mg/kg	5900	<5	<5	<5	<5	<5
Xylene-o	mg/kg	6600	<5	<5	<5	<5	<5
Xylene-p *	mg/kg	5900	<5	<5	<5	<5	<5
Methyl tertiary-butly ether (MTBE)	mg/kg	7500	<5	<5	<5	<5	<5
PAHs							
Acenaphthene	mg/kg	110000	<0.05	<0.05	0.59	0.07	<0.05
Acenaphthylene	mg/kg	110000	<0.05	<0.05	<0.05	<0.05	<0.05
Anthracene	mg/kg	520000	<0.05	<0.05	0.77	<0.05	<0.05
Benzo(a)anthracene	mg/kg	170	<0.05	<0.05	1.60	0.38	<0.05
Benzo(a)pyrene	mg/kg	77	<0.05	<0.05	1.40	0.52	<0.05
Benzo(b)fluoranthene	mg/kg	44	<0.05	<0.05	1.7	0.45	<0.05
Benzo(g,h,i)perylene	mg/kg	3900	<0.05	<0.05	0.81	0.3	<0.05
Benzo(k)fluoranthene	mg/kg	1200	<0.05	<0.05	0.5	<0.05	<0.05
Chrysene	mg/kg	350	0.12	<0.05	1.6	0.39	<0.05
Dibenzo(a,h)anthracene	mg/kg	3.5	<0.05	<0.05	<0.05	0.07	<0.05
Fluoranthene	mg/kg	23000	0.2	<0.05	2.5	0.51	<0.05
Fluorene	mg/kg	63000	<0.05	<0.05	0.57	<0.05	<0.05
Indeno(1,2,3-cd)pyrene	mg/kg	500	0.09	<0.05	0.72	0.32	<0.05
Naphthalene	mg/kg	1800	<0.05	<0.05	0.87	<0.05	<0.05
Phenanthrene	mg/kg	22000	0.16	<0.05	2.70	0.48	<0.05
Pyrene	mg/kg	54000	<0.05	<0.05	<0.05	<0.05	<0.05
TPH							
Ali C5-C6	mg/kg	3200	<0.02	<0.02	<0.02	<0.02	<0.02
Ali >C6-C8	mg/kg	7800	<0.02	<0.02	<0.02	<0.02	<0.02

**COMPLEX CHALLENGES ...
MADE SIMPLE**

Compound	Unit	Commercial GAC	Small Tank N	Small Tank E	Small Tank S	Small Tank W	Small Tank B
Ali >C8-C10	mg/kg	2000	<0.05	<0.05	<0.05	<0.05	<0.05
Ali >C10-C12	mg/kg	9700	<1	<1	4.3	<1	<1
Ali >C12-C16	mg/kg	5900	<2	<2	9.3	<2	<2
Ali >C16-C21	mg/kg	1000000	11	<8	19	<8	<8
Ali >C21-C35	mg/kg	1000000	44	<8	51	<8	<8
Aro >C5-C7	mg/kg	-	<0.01	<0.01	<0.01	<0.01	<0.01
Aro >C8-C10	mg/kg	3500	<0.01	<0.01	<0.01	<0.01	<0.01
Aro >C10-C12	mg/kg	16000	<1	<1	<1	<1	<1
Aro >C12-C16	mg/kg	36000	<2	<2	<2	4.2	<2
Aro >C16-C21	mg/kg	28000	<10	<10	<10	19	<10
Aro >C21-C35	mg/kg	28000	<10	<10	<10	25	<10

Table 5: NT02 Tank Validation Testing

Compound	Unit	Commercial GAC	NT02 Tank N	NT02 Tank E	NT02 Tank S	NT02 Tank Base
METALS						
Arsenic	mg/kg	640	4.2	14	4.3	12
Boron	mg/kg	240000	<0.2	0.4	<0.2	0.6
Cadmium	mg/kg	410	<0.2	0.9	0.2	0.8
Chromium III	mg/kg	8600	8	24	8.4	31
Chromium VI	mg/kg	49	-	-	-	-
Copper	mg/kg	68000	13	65	13	75
Lead	mg/kg	2300	16	210	18	720
Elemental Mercury	mg/kg	-	16	210	18	220
Inorganic Mercury	mg/kg	1120	-	-	-	-
Methyl Mercury	mg/kg	-	-	-	-	-
Nickel	mg/kg	980	9	24	8.2	22
Selenium	mg/kg	12000	<1.0	<1.0	<1.0	1.1
Vanadium	mg/kg	9000	-	-	-	-
Zinc	mg/kg	74000	32	330	33	340
Cyanide	mg/kg	-	-	-	-	-

**COMPLEX CHALLENGES ...
MADE SIMPLE**

Compound	Unit	Commercial GAC	NT02 Tank N	NT02 Tank E	NT02 Tank S	NT02 Tank Base
BTEX						
Benzene	mg/kg	27	<5	<5	<5	<5
Toluene	mg/kg	56000	<5	<5	<5	<5
Ethylbenzene	mg/kg	6000	<5	<5	<5	<5
Xylene-m *	mg/kg	5900	<5	<5	<5	<5
Xylene-o	mg/kg	6600	<5	<5	<5	<5
Xylene-p *	mg/kg	5900	<5	<5	<5	<5
Total Xylene	mg/kg	-	<5	<5	<5	<5
Methyl tertiary-butly ether (MTBE)	mg/kg	7500	<5	<5	<5	<5
PAHs						
Acenaphthene	mg/kg	110000	0.08	1.7	1.4	3
Acenaphthylene	mg/kg	110000	<0.05	<0.05	<0.05	0.12
Anthracene	mg/kg	520000	0.06	3.1	3.7	5.6
Benzo(a)anthracene	mg/kg	170	0.17	6	6.4	8.2
Benzo(a)pyrene	mg/kg	77	0.21	6.6	6.3	8.4
Benzo(b)fluoranthene	mg/kg	44	0.2	7.6	7.3	8.8
Benzo(g,h,i)perylene	mg/kg	3900	0.14	4.3	3.2	4.4
Benzo(k)fluoranthene	mg/kg	1200	0.08	2.4	3	4.5
Chrysene	mg/kg	350	0.17	7	6.1	9.4
Dibenzo(a,h)anthracene	mg/kg	3.5	<0.05	0.93	0.64	0.87
Fluoranthene	mg/kg	23000	0.34	14	17	19
Fluorene	mg/kg	63000	0.05	1.5	1.4	2.9
Indeno(1,2,3-cd)pyrene	mg/kg	500	0.09	3.8	2.9	4.2
Naphthalene	mg/kg	1800	0.07	0.62	0.11	0.96
Phenanthrene	mg/kg	22000	0.25	9.9	12	17
Pyrene	mg/kg	54000	0.35	13	14	17

**COMPLEX CHALLENGES ...
MADE SIMPLE**

Compound	Unit	Commercial GAC	NT02 Tank N	NT02 Tank E	NT02 Tank S	NT02 Tank Base
TPH						
Ali C5-C6	mg/kg	3200	<0.02	<0.02	<0.02	<0.02
Ali >C6-C8	mg/kg	7800	<0.02	<0.02	<0.02	<0.02
Ali >C8-C10	mg/kg	2000	<0.05	<0.05	<0.05	<0.05
Ali >C10-C12	mg/kg	9700	<1.0	<1.0	<1.0	<1.0
Ali >C12-C16	mg/kg	5,900	<2.0	15	2.7	17
Ali >C16-21	mg/kg	1000000	<8	58	<8	55
Ali >C21-35	mg/kg	1000000	<8	420	9	380
Aro >C5-C7	mg/kg	-	<0.01	<0.01	<0.01	<0.01
Aro >C7-C8	mg/kg	-	<0.01	<0.01	<0.01	<0.01
Aro >C8-C10	mg/kg	3500	<0.05	<0.05	<0.05	<0.05
Aro>C10-C12	mg/kg	16000	<1	3.5	5.6	1.6
Aro >C12-C16	mg/kg	36000	<2	16	20	13
Aro >C16-C21	mg/kg	28000	<10	100	85	85
Aro >C21-C35	mg/kg	28000	<10	540	130	370
VOCs						
1,1,1,2 – Tetrachloroethane	mg/kg	110	<0.005	<0.005	<0.005	<0.005
1,1,2,2 – Tetrachloroethane	mg/kg	270	<0.005	<0.005	<0.005	<0.005
1,1,1 – Trichloroethane	mg/kg	700	<0.005	<0.005	<0.005	<0.005
1,1,2 – Trichloroethane	mg/kg	89	<0.005	<0.005	<0.005	<0.005
1,1 – Dichloroethane	mg/kg	24	<0.005	<0.005	<0.005	<0.005
1,2 – Dichloroethane	mg/kg	0.67	<0.005	<0.005	<0.005	<0.005
1,2,4 – Trimethylbenzene	mg/kg	330	<0.005	<0.005	<0.005	<0.005
1,3,5 – Trimethylbenzene	mg/kg	NR	<0.005	<0.005	<0.005	<0.005
1,2 – Dichloropropane	mg/kg	3	<0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride	mg/kg	2.9	<0.005	<0.005	<0.005	<0.005
Chloroethane	mg/kg	901	<0.005	<0.005	<0.005	<0.005
Chloromethane	mg/kg	1	<0.005	<0.005	<0.005	<0.005

**COMPLEX CHALLENGES ...
MADE SIMPLE**

Compound	Unit	Commercial GAC	NT02 Tank N	NT02 Tank E	NT02 Tank S	NT02 Tank Base
Cis 1,2 Dichloroethene	mg/kg	14	<0.005	<0.005	<0.005	<0.005
Dichloromethane	mg/kg	257	<0.005	<0.005	<0.005	<0.005
Tetrachloroethene (PCE)	mg/kg	24	<0.005	<0.005	<0.005	<0.005
Trichloroethene (TCE)	mg/kg	0.7	<0.005	0.024	0.022	<0.005
Trans 1,2 Dichloroethene	mg/kg	21	<0.005	<0.005	<0.005	<0.005
Vinyl Chloride	mg/kg	1.1	<0.005	<0.005	<0.005	<0.005

All tanks have now been excavated and removed from site along with tank contents. Chemical testing of soils left in-situ beneath the former tanks indicates that there are no exceedances of commercial GACs.



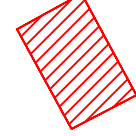
COMPLEX CHALLENGES ...
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APPENDIX A - DRAWINGS & PHOTOGRAPHS



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NOTES

 BELOW GROUND TANK

DRAWING NOTES

- TO BE READ IN CONJUNCTION WITH ROC CONSULTING TECHNICAL NOTE ON BELOW GROUND TANK DISCOVERY.
- EXISTING SITE LEVEL INFORMATION TAKEN FROM PARAGON SURVEYS TOPOGRAPHICAL SURVEY REF-PS-2158-15-00
- ROC CONSULTING ACCEPTS NOT RESPONSIBILITY FOR ANY DAMAGES OR LOSS ARISING AS A RESULT OF THE USE OF THIS DRAWING

02	07.08.2024	UPDATED WITH TANK 04	RM	MN
01	09.05.2024	FIRST ISSUE	RM	MN
REV	DATE	DETAILS	DRN	CHK

DRAWING STATUS

INFORMATION

RIBA STAGE



Commercial Wharf
6 Commercial Street
Manchester M15 4PZ
T 0161 214 5390
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DRAWN RM	DATE MAY 24	SCALES 1:200
CHECKED MN	DATE MAY 24	THE ABOVE SCALES APPLY WHEN PLOTTED AT A1 SIZE -DO NOT SCALE--
APPRVD. MN	DATE MAY 24	EMAIL FOR DRAWINGS info@roccoconsulting.com

CLIENT

FAR EAST CONSORTIUM INTERNATIONAL LTD

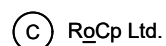
PROJECT TITLE

PLOTS NT02, NT03 & NT04 NORTHERN GATEWAY

DRAWING TITLE

UNDERGROUND TANK LOCATIONS

DRAWING No. 4328-ROC-ZZ-XX-DR-ES-ES215	REV. 02
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 RgCp Ltd.

**COMPLEX CHALLENGES...
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LFT01 Location



LFT01

**COMPLEX CHALLENGES...
MADE SIMPLE**



LFT01 Tank



LFT01 Tank

**COMPLEX CHALLENGES...
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LFT01 Tank



LFT01 Tank

**COMPLEX CHALLENGES...
MADE SIMPLE**



LFT01 Tank



LFT01 Tank

**COMPLEX CHALLENGES...
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LFT01 Tank



LFT01 Tank

**COMPLEX CHALLENGES...
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LFT01 Tank



LFT01 Tank

**COMPLEX CHALLENGES...
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LFT01 Tank



LFT01 Tank Storage bund for excavated material

**COMPLEX CHALLENGES...
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NT02 Tank



NT02 TANK

**COMPLEX CHALLENGES...
MADE SIMPLE**



NT02 Tank



NT02 Tank

**COMPLEX CHALLENGES...
MADE SIMPLE**



NT02 Tank



NT02 Tank

**COMPLEX CHALLENGES...
MADE SIMPLE**



NT02 Tank



NT02 Tank

**COMPLEX CHALLENGES...
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NT02 Tankering off of contents



Tank LFT02 Cover

**COMPLEX CHALLENGES...
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Tank LFT02



Tank LFT02

**COMPLEX CHALLENGES...
MADE SIMPLE**



Tank LFT02



Tank LFT02





COMPLEX CHALLENGES...
MADE SIMPLE



Tank LFT02



COMPLEX CHALLENGES...
MADE SIMPLE



CYT01



CYT01

**COMPLEX CHALLENGES...
MADE SIMPLE**



CYT01



CYT01

**COMPLEX CHALLENGES...
MADE SIMPLE**



CYT01



CYT01





**COMPLEX CHALLENGES ...
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APPENDIX B - CHEMICAL TESTING OF TANK CONTENTS



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Manchester
M26 2ZS

Normec DETS Limited
Unit 1
Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 850410

DETS Report No: 24-03082

Site Reference: Dantzic Street, NT04

Project / Job Ref: LKR241009

Order No: LKR241009/240322/DM

Sample Receipt Date: 25/03/2024

Sample Scheduled Date: 25/03/2024

Report Issue Number: 1

Reporting Date: 02/04/2024

Authorised by:

Steve Knight
Customer Support Manager

Dates of laboratory activities for each tested analyte are available upon request.

Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.



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4480

Soil Analysis Certificate						
DETS Report No: 24-03082	~Date Sampled	22/03/24	22/03/24	22/03/24	22/03/24	22/03/24
LK Consult Limited	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: Dantzic Street, NT04	~TP / BH No	WS01	TW01	TW02	TW03	TW04
~Project / Job Ref: LKR241009	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: LKR241009/240322/DM	~Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 02/04/2024	DETS Sample No	706041	706042	706043	706044	706045

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	ISO17025	8.4	7.4	7.9	7.6
Total Cyanide	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1
Free Cyanide	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	ISO17025	89	287	139	144
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	ISO17025	0.09	0.29	0.14	0.14
Organic Matter (SOM)	%	< 0.1	ISO17025	12.3	20.4	17.6	13
Arsenic (As)	mg/kg	< 2	ISO17025	9	17	13	11
W/S Boron	mg/kg	< 1	NONE	1.9	6	4.5	2.2
Cadmium (Cd)	mg/kg	< 0.2	ISO17025	0.7	1.1	0.9	0.7
Chromium (Cr)	mg/kg	< 2	ISO17025	29	39	35	33
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	ISO17025	122	179	137	101
Lead (Pb)	mg/kg	< 3	ISO17025	287	365	300	332
Mercury (Hg)	mg/kg	< 1	ISO17025	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	ISO17025	18	26	22	20
Selenium (Se)	mg/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Vanadium (V)	mg/kg	< 1	ISO17025	19	32	23	20
Zinc (Zn)	mg/kg	< 3	ISO17025	1800	993	894	1600
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion

Subcontracted analysis (S)

~ Sample details provided by the customer

(n) Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 24-03082	~Date Sampled	22/03/24	22/03/24	22/03/24	22/03/24	
LK Consult Limited	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
~Site Reference: Dantzie Street, NT04	~TP / BH No	TW01	TW02	TW03	TW04	
~Project / Job Ref: LKR241009	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	
~Order No: LKR241009/240322/DM	~Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	
Reporting Date: 02/04/2024	DETS Sample No	706042	706043	706044	706045	

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)
Naphthalene	mg/kg	< 0.1	ISO17025	0.19	1.88	0.60	< 0.1
Acenaphthylene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	ISO17025	< 0.1	0.62	0.92	< 0.1
Fluorene	mg/kg	< 0.1	ISO17025	< 0.1	0.81	2.01	0.37
Phenanthrene	mg/kg	< 0.1	ISO17025	1.06	2.82	4.79	1.13
Anthracene	mg/kg	< 0.1	ISO17025	< 0.1	0.31	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	ISO17025	1.12	2.71	2.42	0.88
Pyrene	mg/kg	< 0.1	ISO17025	1.59	2.38	2.73	0.88
Benzo(a)anthracene	mg/kg	< 0.1	ISO17025	0.40	1.01	0.89	0.31
Chrysene	mg/kg	< 0.1	ISO17025	0.46	1.10	1.16	0.43
Benzo(b)fluoranthene	mg/kg	< 0.1	ISO17025	0.53	1.14	1.06	0.39
Benzo(k)fluoranthene	mg/kg	< 0.1	ISO17025	0.19	0.46	0.29	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	ISO17025	0.44	1.22	1.02	0.33
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	ISO17025	< 0.1	0.46	0.36	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	ISO17025	< 0.1	0.41	0.41	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	ISO17025	6	17.3	18.7	4.7

~ Sample details provided by the customer

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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 24-03082	~Date Sampled	22/03/24	22/03/24	22/03/24	22/03/24	22/03/24
LK Consult Limited	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: Dantzic Street, NT04	~TP / BH No	WS01	TW01	TW02	TW03	TW04
~Project / Job Ref: LKR241009	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: LKR241009/240322/DM	~Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 02/04/2024	DETS Sample No	706041	706042	706043	706044	706045

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)
Aliphatic >C5 - C6 : HS_1D_MS_AL	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8 : HS_1D_MS_AL	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10 : EH_CU_1D_AL	mg/kg	< 2	ISO17025	< 2	26	4	< 2
Aliphatic >C10 - C12 : EH_CU_1D_AL	mg/kg	< 2	ISO17025	11	47	24	14
Aliphatic >C12 - C16 : EH_CU_1D_AL	mg/kg	< 3	ISO17025	441	277	413	162
Aliphatic >C16 - C21 : EH_CU_1D_AL	mg/kg	< 3	ISO17025	1908	760	953	282
Aliphatic >C21 - C34 : EH_CU_1D_AL	mg/kg	< 10	ISO17025	4356	3242	2004	588
Aliphatic >C34 - C44	mg/kg	< 10	NONE	726	275	187	60
Aliphatic (C5 - C44) : HS_1D_MS+EH_CU_1D_AL	mg/kg	< 21	NONE	7440	4627	3585	1106
Aromatic >C5 - C7 : HS_1D_MS_AR	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8 : HS_1D_MS_AR	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10 : EH_CU_1D_AR	mg/kg	< 2	ISO17025	24	76	38	2
Aromatic >C10 - C12 : EH_CU_1D_AR	mg/kg	< 2	ISO17025	23	53	40	< 2
Aromatic >C12 - C16 : EH_CU_1D_AR	mg/kg	< 2	ISO17025	172	94	293	23
Aromatic >C16 - C21 : EH_CU_1D_AR	mg/kg	< 3	ISO17025	718	222	552	59
Aromatic >C21 - C35 : EH_CU_1D_AR	mg/kg	< 10	ISO17025	1264	564	411	24
Aromatic >C35 - C44	mg/kg	< 10	NONE	160	< 10	< 10	< 10
Aromatic (C5 - C44) : HS_1D_MS+EH_CU_1D_AR	mg/kg	< 21	NONE	2361	1010	1334	109
Total >C5 - C44 : HS_1D_MS+EH_CU_1D_Tot al	mg/kg	< 42	NONE	9802	5636	4919	1215

~ Sample details provided by the customer

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Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410



Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 24-03082	~Date Sampled	22/03/24	22/03/24	22/03/24	22/03/24	
LK Consult Limited	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
~Site Reference: Dantzic Street, NT04	~TP / BH No	TW01	TW02	TW03	TW04	
~Project / Job Ref: LKR241009	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	
~Order No: LKR241009/240322/DM	~Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	
Reporting Date: 02/04/2024	DETS Sample No	706042	706043	706044	706045	

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)
Benzene : HS_1D_MS	ug/kg	< 2	ISO17025	< 2	< 2	< 2	< 2
Toluene : HS_1D_MS	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5
Ethylbenzene : HS_1D_MS	ug/kg	< 2	ISO17025	285	259	176	101
p & m-xylene : HS_1D_MS	ug/kg	< 2	ISO17025	594	311010	424	167
o-xylene : HS_1D_MS	ug/kg	< 2	ISO17025	306	< 2	193	86
MTBE : HS_1D_MS	ug/kg	< 5	ISO17025	< 5	< 5	< 5	< 5

~ Sample details provided by the customer

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Water Analysis Certificate						
DETS Report No: 24-03082	~Date Sampled	22/03/24	22/03/24	22/03/24	22/03/24	22/03/24
LK Consult Limited	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: Dantzic Street, NT04	~TP / BH No	WS01	TW01	TW02	TW03	TW04
~Project / Job Ref: LKR241009	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: LKR241009/240322/DM	~Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 02/04/2024	DETS Sample No	706041	706042	706043	706044	706045

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)
pH	pH Units	N/a	ISO17025	7.7			
Total Cyanide	ug/l	< 5	ISO17025	< 5			
Free Cyanide	ug/l	< 5	NONE	< 5			
Sulphate as SO ₄	mg/l	< 1	ISO17025	33			
Dissolved Organic Carbon (DOC)	mg/l	<1.0	ISO17025	18			
Hardness - Total	mgCaCO ₃ /l	< 0.25	NONE	113			
Arsenic (dissolved)	ug/l	< 0.2	ISO17025	0.6			
Boron (dissolved)	ug/l	< 1	ISO17025	52			
Cadmium (dissolved)	ug/l	< 0.2	ISO17025	< 0.2			
Chromium (dissolved)	ug/l	< 0.2	ISO17025	< 0.2			
Chromium (hexavalent)	ug/l	< 20	NONE	< 20			
Copper (dissolved)	ug/l	< 0.2	ISO17025	0.6			
Lead (dissolved)	ug/l	< 0.2	ISO17025	< 0.2			
Mercury (dissolved)	ug/l	< 0.04	ISO17025	< 0.04			
Nickel (dissolved)	ug/l	< 0.2	ISO17025	2.9			
Selenium (dissolved)	ug/l	< 0.2	ISO17025	< 0.2			
Vanadium (dissolved)	ug/l	< 0.2	ISO17025	0.2			
Zinc (dissolved)	ug/l	< 1	ISO17025	2			
Calcium (dissolved)	mg/l	< 0.1	ISO17025	42.7			
Total Phenols (monohydric)	ug/l	< 10	ISO17025	< 10			

Subcontracted analysis ^(S)

Insufficient sample ^{I/S}

Unsuitable Sample ^{U/S}

~ Sample details provided by the customer

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Water Analysis Certificate - Speciated PAH						
DETS Report No: 24-03082	~Date Sampled	22/03/24				
LK Consult Limited	~Time Sampled	None Supplied				
~Site Reference: Dantzic Street, NT04	~TP / BH No	WS01				
~Project / Job Ref: LKR241009	~Additional Refs	None Supplied				
~Order No: LKR241009/240322/DM	~Depth (m)	None Supplied				
Reporting Date: 02/04/2024	DETS Sample No	706041				

Determinand	Unit	RL	Accreditation				
Naphthalene	ug/l	< 0.01	NONE	0.14			
Acenaphthylene	ug/l	< 0.01	NONE	< 0.01			
Acenaphthene	ug/l	< 0.01	NONE	0.04			
Fluorene	ug/l	< 0.01	NONE	0.08			
Phenanthrene	ug/l	< 0.01	NONE	0.23			
Anthracene	ug/l	< 0.01	NONE	0.03			
Fluoranthene	ug/l	< 0.01	NONE	0.16			
Pyrene	ug/l	< 0.01	NONE	0.20			
Benzo(a)anthracene	ug/l	< 0.01	NONE	0.04			
Chrysene	ug/l	< 0.01	NONE	0.05			
Benzo(b)fluoranthene	ug/l	< 0.01	NONE	< 0.01			
Benzo(k)fluoranthene	ug/l	< 0.01	NONE	< 0.01			
Benzo(a)pyrene	ug/l	< 0.01	NONE	< 0.01			
Indeno(1,2,3-cd)pyrene	ug/l	< 0.01	NONE	< 0.01			
Dibenz(a,h)anthracene	ug/l	< 0.01	NONE	< 0.01			
Benzo(ghi)perylene	ug/l	0.008	NONE	< 0.008			
Total EPA-16 PAHs	ug/l	< 0.16	NONE	0.97			

~ Sample details provided by the customer



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Water Analysis Certificate - TPH CWG Banded

DETS Report No: 24-03082	~Date Sampled	22/03/24	22/03/24	22/03/24	22/03/24	22/03/24
LK Consult Limited	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: Dantzic Street, NT04	~TP / BH No	WS01	TW01	TW02	TW03	TW04
~Project / Job Ref: LKR241009	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: LKR241009/240322/DM	~Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 02/04/2024	DETS Sample No	706041	706042	706043	706044	706045

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)
Aliphatic >C5 - C6 : HS 1D MS AL	ug/l	< 10	NONE	< 10			
Aliphatic >C6 - C8 : HS 1D MS AL	ug/l	< 10	NONE	< 10			
Aliphatic >C8 - C10 : EH CU 1D AL	ug/l	< 10	NONE	< 10			
Aliphatic >C10 - C12 : EH CU 1D AL	ug/l	< 10	NONE	25			
Aliphatic >C12 - C16 : EH CU 1D AL	ug/l	< 10	NONE	579			
Aliphatic >C16 - C21 : EH CU 1D AL	ug/l	< 10	NONE	1595			
Aliphatic >C21 - C34 : EH CU 1D AL	ug/l	< 10	NONE	3302			
Aliphatic >C34 - C44	ug/l	< 10	NONE	373			
Aliphatic (C5 - C44) : HS_1D_MS+EH_CU_1D_AL	ug/l	< 70	NONE	5873			
Aromatic >C5 - C7 : HS 1D MS AR	ug/l	< 10	NONE	< 10			
Aromatic >C7 - C8 : HS 1D MS AR	ug/l	< 10	NONE	< 10			
Aromatic >C8 - C10 : EH CU 1D AR	ug/l	< 10	NONE	< 10			
Aromatic >C10 - C12 : EH CU 1D AR	ug/l	< 10	NONE	15			
Aromatic >C12 - C16 : EH CU 1D AR	ug/l	< 10	NONE	189			
Aromatic >C16 - C21 : EH CU 1D AR	ug/l	< 10	NONE	543			
Aromatic >C21 - C35 : EH CU 1D AR	ug/l	< 10	NONE	931			
Aromatic >C35 - C44	ug/l	< 10	NONE	72			
Aromatic (C5 - C44) : HS_1D_MS+EH_CU_1D_AR	ug/l	< 70	NONE	1749			
Total >C5 - C44 : HS_1D_MS+EH_CU_1D_Tot al	ug/l	< 140	NONE	7622			

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Water Analysis Certificate - BTEX / MTBE						
DETS Report No: 24-03082	~Date Sampled	22/03/24				
LK Consult Limited	~Time Sampled	None Supplied				
~Site Reference: Dantzic Street, NT04	~TP / BH No	WS01				
~Project / Job Ref: LKR241009	~Additional Refs	None Supplied				
~Order No: LKR241009/240322/DM	~Depth (m)	None Supplied				
Reporting Date: 02/04/2024	DETS Sample No	706041				

Determinand	Unit	RL	Accreditation				
Benzene : HS_1D_MS	ug/l	< 1	ISO17025	< 1			
Toluene : HS_1D_MS	ug/l	< 5	ISO17025	< 5			
Ethylbenzene : HS_1D_MS	ug/l	< 5	ISO17025	< 5			
p & m-xylene : HS_1D_MS	ug/l	< 10	ISO17025	< 10			
o-xylene : HS_1D_MS	ug/l	< 5	ISO17025	< 5			
MTBE : HS_1D_MS	ug/l	< 10	ISO17025	< 10			

~ Sample details provided by the customer



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4480

Soil Analysis Certificate - Sample Descriptions

DETS Report No: 24-03082

LK Consult Limited

~Site Reference: Dantzic Street, NT04

~Project / Job Ref: LKR241009

~Order No: LKR241009/240322/DM

Reporting Date: 02/04/2024

DETS Sample No	~TP / BH No	~Additional Refs	~Depth (m)	Moisture Content (%)	Sample Matrix Description
706042	TW01	None Supplied	None Supplied	30.1	Black sludge with stones and vegetation
706043	TW02	None Supplied	None Supplied	51.7	Black sludge
706044	TW03	None Supplied	None Supplied	58.6	Black sludge
706045	TW04	None Supplied	None Supplied	51.3	Black sludge with vegetation

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample ^{1/s}

Unsuitable Sample ^{u/s}

~ Sample details provided by the customer



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Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 24-03082

LK Consult Limited

~Site Reference: Dantzic Street, NT04

~Project / Job Ref: LKR241009

~Order No: LKR241009/240322/DM

Reporting Date: 02/04/2024

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received

~ Sample details provided by the customer



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Water Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 24-03082

LK Consult Limited

~Site Reference: Dantzic Street, NT04

~Project / Job Ref: LKR241009

~Order No: LKR241009/240322/DM

Reporting Date: 02/04/2024

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Water	UF	Alkalinity	Determination of alkalinity by titration against hydrochloric acid using bromocresol green as the end point	E103
Water	F	Ammoniacal Nitrogen	Determination of ammoniacal nitrogen by discrete analyser.	E126
Water	UF	BTEX	Determination of BTEX by headspace GC-MS	E101
Water	F	Cations	Determination of cations by filtration followed by ICP-MS	E102
Water	U	Chemical Oxygen Demand (COD)	Determination using a COD reactor followed by colorimetry	E112
Water	UF	Biological Oxygen Demand (COD)	Determination using BOD sensors measuring the change of pressure	E133
Water	F	Chloride	Determination of chloride by filtration & analysed by ion chromatography	E109
Water	F	Chromium - Hexavalent	Determination of hexavalent chromium by acidification, addition of 1,5 diphenylcarbazide followed by	E116
Water	UF	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E115
Water	UF	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through liquid:liquid extraction with cyclohexane	E111
Water	F	Diesel Range Organics (C10 - C24)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Dissolved Organic Content (DOC)	Determination of DOC by filtration followed by low heat with persulphate addition followed by IR detection	E110
Water	UF	Electrical Conductivity	Determination of electrical conductivity by electrometric measurement	E123
Water	F	EPH (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E104
Water	F	Fluoride	Determination of Fluoride by filtration & analysed by ion chromatography	E109
Water	F	Hardness	Determination of Ca and Mg by ICP-MS followed by calculation	E102
Leachate	F	Leachate Preparation - NRA	Based on National Rivers Authority leaching test 1994	E301
Leachate	F	Leachate Preparation - WAC	Based on BS EN 12457 Pt1, 2, 3	E302
Water	F	Metals	Determination of metals by filtration followed by ICP-MS	E102
Water	F	Mineral Oil (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GI-FID	E104
Water	F	Nitrate	Determination of nitrate by filtration & analysed by ion chromatography	E109
Water	UF	Monohydric Phenol	Determination of phenols by distillation followed by colorimetry	E121
Water	F	PAH - Speciated (EPA 16)	Determination of PAH compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E105
Water	F	PCB - 7 Congeners	Determination of PCB compounds by concentration through SPE cartridge, collection in dichloromethane	E108
Water	UF	Petroleum Ether Extract (PEE)	Gravimetrically determined through liquid:liquid extraction with petroleum ether	E111
Water	UF	pH	Determination of pH by electrometric measurement	E107
Water	F	Phosphate	Determination of phosphate by filtration & analysed by ion chromatography	E109
Water	UF	Redox Potential	Determination of redox potential by electrometric measurement	E113
Water	F	Sulphate (as SO4)	Determination of sulphate by filtration & analysed by ion chromatography	E109
Water	UF	Sulphide	Determination of sulphide by distillation followed by colorimetry	E118
Water	F	SVOC	Determination of semi-volatile organic compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E106
Water	UF	Toluene Extractable Matter (TEM)	Gravimetrically determined through liquid:liquid extraction with toluene	E111
Water	UF	Total Organic Carbon (TOC)	Low heat with persulphate addition followed by IR detection	E110
Water	F	TPH CWG (all: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C35. C5 to C8 by headspace GC-MS	E104
Water	F	TPH LQM (all: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C44. C5 to C8 by headspace GC-MS	E104
Water	UF	VOCs	Determination of volatile organic compounds by headspace GC-MS	E101
Water	UF	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E101

Key

F Filtered

UF Unfiltered

~ Sample details provided by the customer



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List of HWOL Acronyms and Operators

DETS Report No: 24-03082

LK Consult Limited

~Site Reference: Dantzic Street, NT04

~Project / Job Ref: LKR241009

~Order No: LKR241009/240322/DM

Reporting Date: 02/04/2024

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total
~	Sample details provided by the customer

Benzene - HS_1D_MS

Ethylbenzene - HS_1D_MS

MTBE - HS_1D_MS

TPH CWG - Aliphatic >C10 - C12 - EH_CU_1D_AL

TPH CWG - Aliphatic >C12 - C16 - EH_CU_1D_AL

TPH CWG - Aliphatic >C16 - C21 - EH_CU_1D_AL

TPH CWG - Aliphatic >C21 - C34 - EH_CU_1D_AL

TPH CWG - Aliphatic >C5 - C44 - HS_1D_MS+EH_CU_1D_AL

TPH CWG - Aliphatic >C5 - C6 - HS_1D_MS_AL

TPH CWG - Aliphatic >C6 - C8 - HS_1D_MS_AL

TPH CWG - Aliphatic >C8 - C10 - EH_CU_1D_AL

TPH CWG - Aromatic >C10 - C12 - EH_CU_1D_AR

TPH CWG - Aromatic >C12 - C16 - EH_CU_1D_AR

TPH CWG - Aromatic >C16 - C21 - EH_CU_1D_AR

TPH CWG - Aromatic >C21 - C35 - EH_CU_1D_AR

TPH CWG - Aromatic >C5 - C44 - HS_1D_MS+EH_CU_1D_AR

TPH CWG - Aromatic >C5 - C7 - HS_1D_MS_AR

TPH CWG - Aromatic >C7 - C8 - HS_1D_MS_AR

TPH CWG - Aromatic >C8 - C10 - EH_CU_1D_AR

TPH CWG - Total >C5 - C44 - HS_1D_MS+EH_CU_1D_Total

Toluene - HS_1D_MS

m & p-xylene - HS_1D_MS

o-Xylene - HS_1D_MS

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Analytical Report Number : 24-011519

Project / Site name: Victoria North

Samples received on: 28/03/2024

Your job number: 101215

**Samples instructed on/
Analysis started on:** 28/03/2024

Your order number: 10946

Analysis completed by: 09/04/2024

Report Issue Number: 1

Report issued on: 09/04/2024

Samples Analysed: 1 soil sample

Signed:



Joanna Wawrzeczko
Senior Reporting Specialist
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 24-011519

Project / Site name: Victoria North

Your Order No: 10946

Lab Sample Number	157809			
Sample Reference	LFT01 Contents			
Sample Number	None Supplied			
Depth (m)	None Supplied			
Date Sampled	26/03/2024			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	36
Total mass of sample received	kg	0.1	NONE	1.2

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	IZJ

General Inorganics

Loss on Ignition @ 450°C	%	0.2	MCERTS	8.9
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	13
Boron (water soluble)	mg/kg	0.2	MCERTS	5.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	2.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	49
Copper (aqua regia extractable)	mg/kg	1	MCERTS	130
Lead (aqua regia extractable)	mg/kg	1	MCERTS	680
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.7
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	28
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	900

Petroleum Hydrocarbons

TPHCWG - Aliphatic >C5 - C6 HS_1D_AL	mg/kg	0.02	NONE	< 0.020
TPHCWG - Aliphatic >C6 - C8 HS_1D_AL	mg/kg	0.02	NONE	< 0.020
TPHCWG - Aliphatic >C8 - C10 HS_1D_AL	mg/kg	0.05	NONE	0.26
TPHCWG - Aliphatic >C10 - C12 EH_CU_1D_AL	mg/kg	1	MCERTS	72
TPHCWG - Aliphatic >C12 - C16 EH_CU_1D_AL	mg/kg	2	MCERTS	3300 \$\$
TPHCWG - Aliphatic >C16 - C21 EH_CU_1D_AL	mg/kg	8	MCERTS	9300 \$\$
TPHCWG - Aliphatic >C21 - C35 EH_CU_1D_AL	mg/kg	8	MCERTS	44000 \$\$
TPHCWG - Aliphatic >C5 - C35 EH_CU+HS_1D_AL	mg/kg	10	NONE	57000 \$\$

TPHCWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.01	NONE	< 0.010
TPHCWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.01	NONE	< 0.010
TPHCWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.05	NONE	0.54
TPHCWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	76
TPHCWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	1900 \$\$
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	4400 \$\$
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	8100 \$\$
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR	mg/kg	10	NONE	14000 \$\$

VOCs

Chloromethane	µg/kg	5	ISO 17025	< 5.0
Chloroethane	µg/kg	5	NONE	< 5.0
Bromomethane	µg/kg	5	ISO 17025	< 5.0
Vinyl Chloride	µg/kg	5	NONE	< 5.0
Trichlorofluoromethane	µg/kg	5	NONE	< 5.0
1,1-Dichloroethene	µg/kg	5	NONE	< 5.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	< 5.0
Trans 1,2-dichloroethylene	µg/kg	5	NONE	< 5.0

Analytical Report Number: 24-011519

Project / Site name: Victoria North

Your Order No: 10946

Lab Sample Number				157809
Sample Reference				LFT01 Contents
Sample Number				None Supplied
Depth (m)				None Supplied
Date Sampled				26/03/2024
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0
1,1-Dichloroethane	µg/kg	5	ISO 17025	< 5.0
2,2-Dichloropropane	µg/kg	5	NONE	< 5.0
Chloroform	µg/kg	5	ISO 17025	< 5.0
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	< 5.0
1,2-Dichloroethane	µg/kg	5	ISO 17025	< 5.0
1,1-Dichloropropene	µg/kg	5	ISO 17025	< 5.0
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0
Carbontetrachloride	µg/kg	5	NONE	< 5.0
1,2-Dichloropropane	µg/kg	5	ISO 17025	< 5.0
Trichloroethene	µg/kg	5	NONE	< 5.0#
Dibromomethane	µg/kg	5	ISO 17025	< 5.0
Bromodichloromethane	µg/kg	5	ISO 17025	< 5.0
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0
Toluene	µg/kg	5	MCERTS	14
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	< 5.0
1,3-Dichloropropane	µg/kg	5	ISO 17025	< 5.0
Dibromochloromethane	µg/kg	5	ISO 17025	< 5.0
Tetrachloroethene	µg/kg	5	NONE	< 5.0
1,2-Dibromoethane	µg/kg	5	ISO 17025	< 5.0
Chlorobenzene	µg/kg	5	ISO 17025	< 5.0
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	64
p & m-Xylene	µg/kg	5	MCERTS	310
Styrene	µg/kg	5	ISO 17025	< 5.0
Bromoform	µg/kg	5	NONE	< 5.0
o-Xylene	µg/kg	5	MCERTS	110
Isopropylbenzene	µg/kg	5	ISO 17025	< 5.0
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	< 5.0
Bromobenzene	µg/kg	5	NONE	< 5.0
n-Propylbenzene	µg/kg	5	ISO 17025	28
2-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0
4-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	60
tert-Butylbenzene	µg/kg	5	ISO 17025	< 5.0
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	220
sec-Butylbenzene	µg/kg	5	ISO 17025	< 5.0
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0
p-Isopropyltoluene	µg/kg	5	ISO 17025	< 5.0
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0
Butylbenzene	µg/kg	5	NONE	< 5.0
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	< 5.0
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0
Hexachlorobutadiene	µg/kg	5	NONE	< 5.0
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 24-011519

Project / Site name: Victoria North

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
157809	LFT01 Contents	None Supplied	None Supplied	Brown loam with oil / petroleum

Analytical Report Number : 24-011519

Project / Site name: Victoria North

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Loss on ignition of soil @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	In-house method	L047	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS

Analytical Report Number : 24-011519

Project / Site name: Victoria North

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088	D/W	MCERTS

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
-	Operator - understore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

- Data reported unaccredited due to quality control parameter failure associated with this result; other checks applied prior to reporting the data have been accepted. The result should be considered as being deviating and may be compromised

\$\$ - Result was reported from high dilution. The result should be interpreted with caution



**COMPLEX CHALLENGES ...
MADE SIMPLE**

APPENDIX C - CHEMICAL VALIDATION TESTING OF SOILS POST TANK REMOVAL



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Analytical Report Number : 24-026674

Project / Site name:	Victoria North	Samples received on:	21/06/2024
Your job number:	101221	Samples instructed on/ Analysis started on:	21/06/2024
Your order number:	11181	Analysis completed by:	27/06/2024
Report Issue Number:	1	Report issued on:	28/06/2024
Samples Analysed:	5 soil samples		

Signed: 

Joanna Szwagrak
Reporting Specialist
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 24-026674

Project / Site name: Victoria North

Your Order No: 11181

Lab Sample Number				235805	235806	235807	235808	235809
Sample Reference				SC Tank B	SC Tank N	SC Tank E	SC Tank S	SC Tank W
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	15.4
Moisture Content	%	0.01	NONE	10	15	5.8	5.3	24
Total mass of sample received	kg	0.1	NONE	1.2	1	1.2	1	0.6

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.22	0.24	0.18	1.2	1.4
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	0.11	0.14	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.48	0.14	0.31	2.5	5.4
Fluorene	mg/kg	0.05	MCERTS	0.35	0.19	0.28	2.1	4.3
Phenanthrene	mg/kg	0.05	MCERTS	3	1.8	2.3	11	28
Anthracene	mg/kg	0.05	MCERTS	0.73	0.5	0.65	3.1	8
Fluoranthene	mg/kg	0.05	MCERTS	3.3	2.3	2.8	15	28
Pyrene	mg/kg	0.05	MCERTS	3.2	2.4	2.9	13	24
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.5	1.2	1.3	5.6	9.9
Chrysene	mg/kg	0.05	MCERTS	1.6	1.3	1.7	6	10
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	1.7	1.6	1.7	6.2	11
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.82	0.54	0.82	2.8	4.7
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.6	1.4	1.6	5.7	9.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.75	0.64	0.71	2.6	4.1
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.15	0.15	< 0.05	0.52	0.85
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.92	0.77	0.87	2.8	4.4

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	20.3	15.3	18.3	79.7	153
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Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aliphatic >EC10 - EC12 EH_CU_1D_AL	mg/kg	1	MCERTS	< 1.0	< 1.0	1.5	1.3	1.2
TPHCWG - Aliphatic >EC12 - EC16 EH_CU_1D_AL	mg/kg	2	MCERTS	19	< 2.0	23	19	44
TPHCWG - Aliphatic >EC16 - EC21 EH_CU_1D_AL	mg/kg	8	MCERTS	75	< 8.0	89	78	220
TPHCWG - Aliphatic >EC21 - EC35 EH_CU_1D_AL	mg/kg	8	MCERTS	210	38	210	360	1000
TPHCWG - Aliphatic >EC5 - EC35 EH_CU+HS_1D_AL	mg/kg	10	NONE	310	38	330	460	1300

TPHCWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	1.6	5.9
TPHCWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	13	< 2.0	8.4	22	90
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	71	< 10	40	110	380
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	140	35	64	300	630
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR	mg/kg	10	NONE	220	35	110	440	1100



4041



Environmental Science

Analytical Report Number: 24-026674

Project / Site name: Victoria North

Your Order No: 11181

Lab Sample Number				235805	235806	235807	235808	235809
Sample Reference				SC Tank B	SC Tank N	SC Tank E	SC Tank S	SC Tank W
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 24-026674

Project / Site name: Victoria North

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
235805	SC Tank B	None Supplied	None Supplied	Brown loam and clay with gravel and vegetation
235806	SC Tank N	None Supplied	None Supplied	Brown clay and loam with gravel and vegetation
235807	SC Tank E	None Supplied	None Supplied	Brown clay and loam with clinker and gravel
235808	SC Tank S	None Supplied	None Supplied	Brown sandy loam with gravel and vegetation
235809	SC Tank W	None Supplied	None Supplied	Brown loam and sand with tar and brick

Analytical Report Number : 24-026674

Project / Site name: Victoria North

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088	D/W	MCERTS

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Analytical Report Number : 24-026674

Project / Site name: Victoria North

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
SC Tank B	N/A	S	235805	a	BTEX and/or Volatile organic compounds in soil	L073B	a
SC Tank B	N/A	S	235805	a	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	a
SC Tank B	N/A	S	235805	a	Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	L076B/L088	a
SC Tank E	N/A	S	235807	a	BTEX and/or Volatile organic compounds in soil	L073B	a
SC Tank E	N/A	S	235807	a	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	a
SC Tank E	N/A	S	235807	a	Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	L076B/L088	a
SC Tank N	N/A	S	235806	a	BTEX and/or Volatile organic compounds in soil	L073B	a
SC Tank N	N/A	S	235806	a	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	a
SC Tank N	N/A	S	235806	a	Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	L076B/L088	a
SC Tank S	N/A	S	235808	a	BTEX and/or Volatile organic compounds in soil	L073B	a
SC Tank S	N/A	S	235808	a	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	a
SC Tank S	N/A	S	235808	a	Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	L076B/L088	a
SC Tank W	N/A	S	235809	a	BTEX and/or Volatile organic compounds in soil	L073B	a
SC Tank W	N/A	S	235809	a	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	a
SC Tank W	N/A	S	235809	a	Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	L076B/L088	a



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Analytical Report Number : 24-031413

Project / Site name:	Victoria North	Samples received on:	18/07/2024
Your job number:	101221	Samples instructed on/ Analysis started on:	18/07/2024
Your order number:	11181	Analysis completed by:	29/07/2024
Report Issue Number:	1	Report issued on:	30/07/2024
Samples Analysed:	9 soil samples		

Signed: _____

Anna Goc
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 24-031413
Project / Site name: Victoria North
Your Order No: 11181

Lab Sample Number				260789	260790	260791	260792	260793
Sample Reference				ash fill 1	ash fill 2	ash fill 3	ash fill 4	ash fill 5
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				16/07/2024	16/07/2024	16/07/2024	16/07/2024	16/07/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	24.5	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	11	13	14	14
Total mass of sample received	kg	0.1	NONE	0.8	0.8	0.7	0.8	0.8

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.88	0.83	0.78	0.44	0.68
Acenaphthylene	mg/kg	0.05	MCERTS	0.23	0.33	0.17	0.18	0.15
Acenaphthene	mg/kg	0.05	MCERTS	3.6	2.7	1.5	1.7	0.55
Fluorene	mg/kg	0.05	MCERTS	2.8	2.4	1.3	1.3	0.75
Phenanthrene	mg/kg	0.05	MCERTS	18	14	7.7	9.9	3.7
Anthracene	mg/kg	0.05	MCERTS	5.4	4.9	2.3	3.1	1.1
Fluoranthene	mg/kg	0.05	MCERTS	25	27	13	16	6.2
Pyrene	mg/kg	0.05	MCERTS	23	24	12	15	5.7
Benzo(a)anthracene	mg/kg	0.05	MCERTS	11	12	5.3	7.2	2.8
Chrysene	mg/kg	0.05	MCERTS	11	12	6.1	8	3
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	12	14	7.4	10	3.8
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	4.9	6.5	2.9	3.7	1.8
Benzo(a)pyrene	mg/kg	0.05	MCERTS	11	13	6.8	8.9	3.5
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	6.1	7.5	3.1	4.3	1.7
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	1.2	1.6	0.78	1.1	0.43
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	6.6	7.8	3.8	4.9	2.1

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	143	150	74	95.6	38
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	17	14	17	15	17
Boron (water soluble)	mg/kg	0.2	MCERTS	1.3	0.7	2	1.2	1.5
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	1.6	2.1	1.2	1.2	1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	36	32	32	31	37
Copper (aqua regia extractable)	mg/kg	1	MCERTS	150	130	130	110	100
Lead (aqua regia extractable)	mg/kg	1	MCERTS	400	420	430	260	420
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.7	0.9	0.7	0.6	0.8
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	26	28	25	21	25
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.2	1	1.3	< 1.0	1.1
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	740	700	520	440	770



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Environmental Science

Analytical Report Number: 24-031413

Project / Site name: Victoria North

Your Order No: 11181

Lab Sample Number				260789	260790	260791	260792	260793
Sample Reference				ash fill 1	ash fill 2	ash fill 3	ash fill 4	ash fill 5
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				16/07/2024	16/07/2024	16/07/2024	16/07/2024	16/07/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	2	1.2	< 1.0	1.1	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	17	27	18	8.9	14
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	79	100	65	45	53
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	510	650	430	370	330
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	610	780	510	430	390

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	6.2	2.8	3.3	3.8	6
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	28	27	15	17	9.7
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	130	200	78	86	50
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	420	790	300	340	260
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	590	1000	400	450	320

VOCs

Chloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromomethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl Chloride	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichlorofluoromethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trans 1,2-dichloroethylene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloropropane	µg/kg	5	ISO 17025	< 5.0 **	< 5.0 **	< 5.0 **	< 5.0 **	< 5.0 **
Trichloroethene	µg/kg	5	ISO 17025	8.6	< 5.0	37	11	< 5.0
Dibromomethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromoethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0



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Environmental Science

Analytical Report Number: 24-031413

Project / Site name: Victoria North

Your Order No: 11181

Lab Sample Number				260789	260790	260791	260792	260793
Sample Reference				ash fill 1	ash fill 2	ash fill 3	ash fill 4	ash fill 5
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				16/07/2024	16/07/2024	16/07/2024	16/07/2024	16/07/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Styrene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromoform	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromobenzene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Propylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
tert-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
sec-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p-Isopropyltoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Butylbenzene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Hexachlorobutadiene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 24-031413
Project / Site name: Victoria North
Your Order No: 11181

Lab Sample Number				260794	260795	260796	260797
Sample Reference				NT02 Tank N	NT02 Tank E	NT02 Tank S	NT02 Tank Base
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				16/07/2024	16/07/2024	16/07/2024	16/07/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	31.2
Moisture Content	%	0.01	NONE	12	11	10	12
Total mass of sample received	kg	0.1	NONE	0.8	0.9	0.9	0.8

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.07	0.62	0.11	0.96
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.12
Acenaphthene	mg/kg	0.05	MCERTS	0.08	1.7	1.4	3
Fluorene	mg/kg	0.05	MCERTS	0.05	1.5	1.4	2.9
Phenanthrene	mg/kg	0.05	MCERTS	0.25	9.9	12	17
Anthracene	mg/kg	0.05	MCERTS	0.06	3.1	3.7	5.6
Fluoranthene	mg/kg	0.05	MCERTS	0.34	14	17	19
Pyrene	mg/kg	0.05	MCERTS	0.35	13	14	17
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.17	6	6.4	8.2
Chrysene	mg/kg	0.05	MCERTS	0.17	7	6.1	9.4
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.2	7.6	7.3	8.8
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.08	2.4	3	4.5
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.21	6.6	6.3	8.4
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.09	3.8	2.9	4.2
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.93	0.64	0.87
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.14	4.3	3.2	4.4

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	2.25	82.9	84.9	115
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	4.2	14	4.3	12
Boron (water soluble)	mg/kg	0.2	MCERTS	< 0.2	0.4	< 0.2	0.6
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	0.9	0.2	0.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	8	24	8.4	31
Copper (aqua regia extractable)	mg/kg	1	MCERTS	13	65	13	75
Lead (aqua regia extractable)	mg/kg	1	MCERTS	16	210	18	220
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	0.4	< 0.3	0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	9	24	8.2	22
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	1.1
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	32	330	33	340



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Environmental Science

Analytical Report Number: 24-031413

Project / Site name: Victoria North

Your Order No: 11181

Lab Sample Number				260794	260795	260796	260797
Sample Reference				NT02 Tank N	NT02 Tank E	NT02 Tank S	NT02 Tank Base
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				16/07/2024	16/07/2024	16/07/2024	16/07/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Test Limit of detection	Test Accreditation Status	

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	15	2.7	17
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	58	< 8.0	55
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	420	9	380
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	490	12	460

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	3.5	5.6	1.6
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	< 2.0	16	20	13
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	100	85	85
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	540	130	370
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	650	240	470

VOCs

Chloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
Chloroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
Bromomethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl Chloride	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
Trichlorofluoromethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
Trans 1,2-dichloroethylene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloropropane	µg/kg	5	ISO 17025	< 5.0 **	< 5.0 **	< 5.0 **	< 5.0 **
Trichloroethene	µg/kg	5	ISO 17025	< 5.0	24	22	< 5.0
Dibromomethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
1,3-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromoethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0



4041



Environmental Science

Analytical Report Number: 24-031413

Project / Site name: Victoria North

Your Order No: 11181

Lab Sample Number				260794	260795	260796	260797
Sample Reference				NT02 Tank N	NT02 Tank E	NT02 Tank S	NT02 Tank Base
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				16/07/2024	16/07/2024	16/07/2024	16/07/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status				
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
Styrene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
Bromoform	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
Bromobenzene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
n-Propylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
2-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
4-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
tert-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
sec-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
p-Isopropyltoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
Butylbenzene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
Hexachlorobutadiene	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 24-031413

Project / Site name: Victoria North

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
260789	ash fill 1	None Supplied	None Supplied	Brown loam and sand with gravel and vegetation
260790	ash fill 2	None Supplied	None Supplied	Brown loam and clay with gravel
260791	ash fill 3	None Supplied	None Supplied	Brown loam and clay with gravel and stones
260792	ash fill 4	None Supplied	None Supplied	Brown loam and clay with gravel
260793	ash fill 5	None Supplied	None Supplied	Brown loam and clay with gravel
260794	NT02 Tank N	None Supplied	None Supplied	Brown sandy loam with gravel
260795	NT02 Tank E	None Supplied	None Supplied	Brown sand with gravel
260796	NT02 Tank S	None Supplied	None Supplied	Brown sand with gravel
260797	NT02 Tank Base	None Supplied	None Supplied	Brown clay and sand with gravel and stones

Analytical Report Number : 24-031413

Project / Site name: Victoria North

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS

Analytical Report Number : 24-031413

Project / Site name: Victoria North

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088	D/W	MCERTS

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

- Quality control parameter has a high recovery (outside of limit); however the associated result is below the reporting limit, other checks applied prior to reporting the data have been accepted. The result should be considered as being deviating and may be compromised.

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Analytical Report Number : 24-029493

Project / Site name:	Victoria North	Samples received on:	08.07.2024
Your job number:	101221	Samples instructed on/ Analysis started on:	08.07.2024
Your order number:	11181	Analysis completed by:	12.07.2024
Report Issue Number:	1	Report issued on:	12.07.2024
Samples Analysed:	7 soil samples		

Signed:



Rafał Szczepańczyk
Technical Reviewer
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 24-029493
Project / Site name: Victoria North
Your Order No: 11181

Lab Sample Number				250690	250691	250692	250693	250694
Sample Reference				NT02 TCE 1	NT02 TCE 2	small tank N	small tank E	small tank S
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				04/07/2024	04/07/2024	04/07/2024	04/07/2024	04/07/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

Stone Content	%	0.1	NONE	36.5	40.5	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	5.3	6	22	14	11
Total mass of sample received	kg	0.1	NONE	1.3	1.4	1.4	1.4	1.3

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.59	7.3	< 0.05	< 0.05	0.87
Acenaphthylene	mg/kg	0.05	MCERTS	0.23	2.7	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	1.5	7.9	< 0.05	< 0.05	0.59
Fluorene	mg/kg	0.05	MCERTS	1	7.4	< 0.05	< 0.05	0.57
Phenanthrene	mg/kg	0.05	MCERTS	12	54	0.16	< 0.05	2.7
Anthracene	mg/kg	0.05	MCERTS	3.5	12	< 0.05	< 0.05	0.77
Fluoranthene	mg/kg	0.05	MCERTS	23	48	0.2	< 0.05	2.5
Pyrene	mg/kg	0.05	MCERTS	20	45	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	14	19	< 0.05	< 0.05	1.6
Chrysene	mg/kg	0.05	MCERTS	13	20	0.12	< 0.05	1.6
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	17	18	< 0.05	< 0.05	1.7
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	8.5	6.8	< 0.05	< 0.05	0.5
Benzo(a)pyrene	mg/kg	0.05	MCERTS	17	17	< 0.05	< 0.05	1.4
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	9.2	7.3	0.09	< 0.05	0.72
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	2.6	2.2	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	10	9.1	< 0.05	< 0.05	0.81

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	153	284	< 0.80	< 0.80	16.3
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	12	13	-	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	1.8	0.9	-	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.8	1.3	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	35	17	-	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	68	65	-	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	250	1400	-	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	20	19	-	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	330	210	-	-	-

Analytical Report Number: 24-029493

Project / Site name: Victoria North

Your Order No: 11181

Lab Sample Number	250690	250691	250692	250693	250694
Sample Reference	NT02 TCE 1	NT02 TCE 2	small tank N	small tank E	small tank S
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	04/07/2024	04/07/2024	04/07/2024	04/07/2024	04/07/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	4.3
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	2.1	< 2.0	< 2.0	9.3
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	28	8.8	11	< 8.0	19
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	270	93	44	< 8.0	51
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	300	100	55	< 10	84

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	5.5	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	8.6	38	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	93	160	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	480	250	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	580	450	< 10	< 10	< 10

VOCs

Chloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Chloroethane	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
Bromomethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Vinyl Chloride	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
Trichlorofluoromethane	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
1,1-Dichloroethene	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
Trans 1,2-dichloroethylene	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
2,2-Dichloropropane	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
Chloroform	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,2-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,1-Dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
1,2-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Trichloroethene	µg/kg	5	ISO 17025	< 5.0	51	-	-	-
Dibromomethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Bromodichloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,3-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Dibromochloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Tetrachloroethene	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
1,2-Dibromoethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Chlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-

Analytical Report Number: 24-029493

Project / Site name: Victoria North

Your Order No: 11181

Lab Sample Number				250690	250691	250692	250693	250694
Sample Reference				NT02 TCE 1	NT02 TCE 2	small tank N	small tank E	small tank S
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				04/07/2024	04/07/2024	04/07/2024	04/07/2024	04/07/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Styrene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Bromoform	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
Bromobenzene	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
n-Propylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
2-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
4-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
tert-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
sec-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
p-Isopropyltoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Butylbenzene	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Hexachlorobutadiene	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 24-029493

Project / Site name: Victoria North

Your Order No: 11181

Lab Sample Number				250695	250696
Sample Reference				small tank W	small tank B
Sample Number				None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied
Date Sampled				04/07/2024	04/07/2024
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	17	19
Total mass of sample received	kg	0.1	NONE	1.4	1.4

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.07	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.48	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.51	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.38	< 0.05
Chrysene	mg/kg	0.05	MCERTS	0.39	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.45	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.52	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.32	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.07	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.3	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	3.5	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-

Analytical Report Number: 24-029493

Project / Site name: Victoria North

Your Order No: 11181

Lab Sample Number	250695	250696
Sample Reference	small tank W	small tank B
Sample Number	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied
Date Sampled	04/07/2024	04/07/2024
Time Taken	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection
		Accreditation Status

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.02	NONE	< 0.020	< 0.020
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.02	NONE	< 0.020	< 0.020
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.05	NONE	< 0.050	< 0.050
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	NONE	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	NONE	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.05	NONE	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	4.2	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	19	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	25	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	48	< 10

VOCs

Chloromethane	µg/kg	5	ISO 17025	-	-
Chloroethane	µg/kg	5	NONE	-	-
Bromomethane	µg/kg	5	ISO 17025	-	-
Vinyl Chloride	µg/kg	5	NONE	-	-
Trichlorofluoromethane	µg/kg	5	NONE	-	-
1,1-Dichloroethene	µg/kg	5	NONE	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	-	-
Trans 1,2-dichloroethylene	µg/kg	5	NONE	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	ISO 17025	-	-
2,2-Dichloropropane	µg/kg	5	NONE	-	-
Chloroform	µg/kg	5	ISO 17025	-	-
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	-	-
1,2-Dichloroethane	µg/kg	5	ISO 17025	-	-
1,1-Dichloropropene	µg/kg	5	ISO 17025	-	-
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	-	-
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	NONE	-	-
1,2-Dichloropropane	µg/kg	5	ISO 17025	-	-
Trichloroethene	µg/kg	5	ISO 17025	-	-
Dibromomethane	µg/kg	5	ISO 17025	-	-
Bromodichloromethane	µg/kg	5	ISO 17025	-	-
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	-	-
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	-	-
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	-	-
1,3-Dichloropropane	µg/kg	5	ISO 17025	-	-
Dibromochloromethane	µg/kg	5	ISO 17025	-	-
Tetrachloroethene	µg/kg	5	NONE	-	-
1,2-Dibromoethane	µg/kg	5	ISO 17025	-	-
Chlorobenzene	µg/kg	5	ISO 17025	-	-
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	-	-

Analytical Report Number: 24-029493

Project / Site name: Victoria North

Your Order No: 11181

Lab Sample Number				250695	250696
Sample Reference				small tank W	small tank B
Sample Number				None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied
Date Sampled				04/07/2024	04/07/2024
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0
Styrene	µg/kg	5	ISO 17025	-	-
Bromoform	µg/kg	5	NONE	-	-
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	ISO 17025	-	-
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	-	-
Bromobenzene	µg/kg	5	NONE	-	-
n-Propylbenzene	µg/kg	5	ISO 17025	-	-
2-Chlorotoluene	µg/kg	5	ISO 17025	-	-
4-Chlorotoluene	µg/kg	5	ISO 17025	-	-
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	-	-
tert-Butylbenzene	µg/kg	5	ISO 17025	-	-
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	-	-
sec-Butylbenzene	µg/kg	5	ISO 17025	-	-
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	-	-
p-Isopropyltoluene	µg/kg	5	ISO 17025	-	-
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	-	-
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	-	-
Butylbenzene	µg/kg	5	NONE	-	-
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	-	-
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	-	-
Hexachlorobutadiene	µg/kg	5	NONE	-	-
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 24-029493
Project / Site name: Victoria North

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
250690	NT02 TCE 1	None Supplied	None Supplied	Brown loam with gravel and stones
250691	NT02 TCE 2	None Supplied	None Supplied	Brown loam with gravel and stones
250692	small tank N	None Supplied	None Supplied	Brown clay and loam with gravel
250693	small tank E	None Supplied	None Supplied	Brown clay and loam with gravel
250694	small tank S	None Supplied	None Supplied	Brown clay and sand with gravel
250695	small tank W	None Supplied	None Supplied	Brown clay and sand with gravel
250696	small tank B	None Supplied	None Supplied	Brown clay and sand with gravel

Analytical Report Number : 24-029493

Project / Site name: Victoria North

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088	D/W	MCERTS

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution



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TCE PLUME DISCOVERY TECHNICAL REPORT

Plot NT02, Red Bank

for

Far East Consortium International
Ltd



17/03/2025



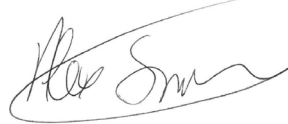
COMPLEX CHALLENGES ...
MADE SIMPLE

TCE PLUME DISCOVERY TECHNICAL REPORT

Plot NT02, Red Bank

for

Far East Consortium International
Ltd

TITLE	NAME	SIGNATURE	DATE
Report Author	MIKE NEWMAN		17/03/2025
Approved By	ALEX SMILES		17/03/2025
Issue No. 01	FINAL		
Report Reference	4328-ROC-ZZ-XX-RP-ES-ESTN02		
REVISION	DESCRIPTION	SIGNATURE	DATE
Issue No REV02.			



COMPLEX CHALLENGES ...
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1.0 TCE PLUME DISCOVERY

1.1 Background

Following various rounds of Phase 2 site investigation across the NT02-NT04 site an approved Remediation Strategy was formulated by RoC Consulting, in combination with RSK Geosciences, reference document, 11834 R02 (02). Groundwater remediation was identified and is to be completed on NT02, targeting Trichloroethene ground water contamination, along with daughter products including Carbon Tetrachloride (CTC), Cis and Trans Dichloroethen (CTDCE) and Vynal chloride (VC).

Following appointment of a specialist remediation contractor, Remedx, a Remediation Implementation Plan was developed for dealing with the ground water via in-situ Chemical Reduction (ISCR), reference 171086-R01 (00).

Subsequent to soil remediation to remove identified source soil contamination by Main Contractor BAM, a matrix of injection wells was installed to facilitate the ISCR.

The Remedx baseline data of ground water contamination collected at the commencement of injection (Appendix A) indicated a shift in the assumed centre of mass of the ground water TCE contamination, with the highest reading being to the northern extent of the injection well matrix (down dip). The high readings on the edge of the injection matrix highlights a potential data gap, raising the following concerns:

1. The peak concentration being down dip and at the extreme edge of the injection matrix poses the question of have we yet found the extreme edge of the ground water contamination plume.
2. The shift of TCE mass could be the result of 2 possibilities, which need to be considered/investigated:
 - a. An unidentified/untreated hot spot of soil contamination.
 - b. Movement of the TCE ground water plume as a result of the length of time soil has been left exposed and subject to ongoing filtration.
3. Does the current mass of TCE require a revisit of design assumptions.

1.2 Discussion

- Subsequent desk-based work by RoC highlighted that a significant portion of the TCE contaminated soils had been removed. Whilst some historic TCE samples exist beyond the excavated soils (below target values), SI data also showed points of 0 TCE contamination in soils, north of the soil remediation area and within the ISCR matrix, meaning further soil contamination is thought unlikely but not conclusive (Appendix B).
- BAM highlighted that the area forward/north of the soil remediation area was also heavily excavated, with the full footprint of the northern warehouse being excavated and removed from site, to allow for removal of historic foundations. This being the case, it was the consensus that sufficient evidence existed to exclude a further significant soil TCE source as the reasoning for the shift in the TCE groundwater plume.
- BAM are to provide site records of soil removal, to supplement RoC site visit records to evidence in the Validation report.
- Ongoing water monitoring prior to the baseline data saw fluctuations in the TCE ground water contamination, indicating likely movement of the plume, rather than additional contamination sources (Appendix C).
- The data gap raises the following questions which were discussed:
 - Is there a mass of TCE ground water contamination down dip of the injection matrix that is yet to be identified
 - Could the injection chemical at the edge of the matrix be overwhelmed by a higher, unforeseen, concentration of contamination

1.3 Progression of the Injection

- ISCR is progressing well, with more than 50% of injection chemical injected. Chemical concentrations had to be diluted to assist injection rate, some wells were proving difficult to inject, presumably due to lower rock fracturing.
- Interim monitoring of geochemistry indicates a good dispersal of chemicals and a positive drop in REDOX reaction.
- Post meeting note – update from Remedx attached.
- One possible route of action is to continue injection as planned and monitor response of groundwater to the planned injection work.



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- Concern was raised that if further works were later found required, this would extend beyond the remediation contract period (circa August for NT02).
- Concern was also raised over not closing the data gap, and a more proactive approach should be considered. There is no good justification that can be suggested to exclude the need for further monitoring wells to close the data gap between wells RXI003 and RBH503.
- The baseline data and movement of the plume is to be viewed as a 'discovery' and requires implementation of a 'discovery strategy' in line with the remediation strategy.

TCE PLUME DISCOVERY TECHNICAL REPORT

Plot NT02, Red Bank

for

Far East Consortium International
Ltd



17/03/2025



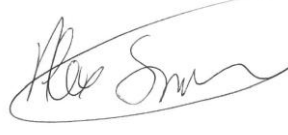
COMPLEX CHALLENGES ...
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TCE PLUME DISCOVERY TECHNICAL REPORT

Plot NT02, Red Bank

for

Far East Consortium International
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TITLE	NAME	SIGNATURE	DATE
Report Author	MIKE NEWMAN		17/03/2025
Approved By	ALEX SMILES		17/03/2025
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Report Reference	4328-ROC-ZZ-XX-RP-ES-ESTN02		
REVISION	DESCRIPTION	SIGNATURE	DATE
Issue No REV02.	UPDATE CAPTURING IMPLEMENTATION OF ADDITIONAL WELLS, FOLLOW ON TESTING AND CONCLUSION OF DESIGN		19/05/2025



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1.0 TCE PLUME DISCOVERY

1.1 Background

Following various rounds of Phase 2 site investigation across the NT02-NT04 site an approved Remediation Strategy was formulated by RoC Consulting, in combination with RSK Geosciences, reference document, 11834 R02 (02). Groundwater remediation was identified and is to be completed on NT02, targeting Trichloroethene ground water contamination, along with daughter products including Carbon Tetrachloride (CTC), Cis and Trans Dichloroethen (CTDCE) and Vynal chloride (VC).

Following appointment of a specialist remediation contractor, Remedx, a Remediation Implementation Plan was developed for dealing with the ground water via in-situ Chemical Reduction (ISCR), reference 171086-R01 (00).

Subsequent to soil remediation to remove identified source soil contamination by Main Contractor BAM, a matrix of injection wells was installed to facilitate the ISCR.

The Remedx baseline data of ground water contamination collected at the commencement of injection (Appendix A) indicated a shift in the assumed centre of mass of the ground water TCE contamination, with the highest reading being to the northern extent of the injection well matrix (down dip). The high readings on the edge of the injection matrix highlights a potential data gap, raising the following concerns:

1. The peak concentration being down dip and at the extreme edge of the injection matrix poses the question of have we yet found the extreme edge of the ground water contamination plume.
2. The shift of TCE mass could be the result of 2 possibilities, which need to be considered/investigated:
 - a. An unidentified/untreated hot spot of soil contamination.
 - b. Movement of the TCE ground water plume as a result of the length of time soil has been left exposed and subject to ongoing filtration.
3. Does the current mass of TCE require a revisit of design assumptions.

1.2 Discussion

- Subsequent desk-based work by RoC highlighted that a significant portion of the TCE contaminated soils had been removed. Whilst some historic TCE samples exist beyond the excavated soils (below target values), SI data also showed points of 0 TCE contamination in soils, north of the soil remediation area and within the ISCR matrix, meaning further soil contamination is thought unlikely but not conclusive (Appendix B).
- BAM highlighted that the area forward/north of the soil remediation area was also heavily excavated, with the full footprint of the northern warehouse being excavated and removed from site, to allow for removal of historic foundations. This being the case, it was the consensus that sufficient evidence existed to exclude a further significant soil TCE source as the reasoning for the shift in the TCE groundwater plume.
- BAM are to provide site records of soil removal, to supplement RoC site visit records to evidence in the Validation report.
- Ongoing water monitoring prior to the baseline data saw fluctuations in the TCE ground water contamination, indicating likely movement of the plume, rather than additional contamination sources (Appendix C).
- The data gap raises the following questions which were discussed:
 - Is there a mass of TCE ground water contamination down dip of the injection matrix that is yet to be identified
 - Could the injection chemical at the edge of the matrix be overwhelmed by a higher, unforeseen, concentration of contamination

1.3 Progression of the Injection

- ISCR is progressing well, with more than 50% of injection chemical injected. Chemical concentrations had to be diluted to assist injection rate, some wells were proving difficult to inject, presumably due to lower rock fracturing.
- Interim monitoring of geochemistry indicates a good dispersal of chemicals and a positive drop in REDOX reaction.
- Post meeting note – update from Remedx attached.
- One possible route of action is to continue injection as planned and monitor response of groundwater to the planned injection work.



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- Concern was raised that if further works were later found required, this would extend beyond the remediation contract period (circa August for NT02).
- Concern was also raised over not closing the data gap, and a more proactive approach should be considered. There is no good justification that can be suggested to exclude the need for further monitoring wells to close the data gap between wells RXI003 and RBH503.
- The baseline data and movement of the plume is to be viewed as a 'discovery' and requires implementation of a 'discovery strategy' in line with the remediation strategy.

2.0 STRATEGY

- The following strategy was discussed and agreed between BAM, Remedx (Remediation Contractor) and RoC (Remediation Strategy specifier):
- 3 additional monitoring wells should be introduced at the mid-point between RXI001, 002 & 003 and LKBH01 & RBH503 – Post meeting note, suggested locations attached, Appendix D.
- Instruction for new wells needs to include lab testing to confirm groundwater contamination concentrations.
- Further lab testing of wells within the ISCR zone will give erroneous readings due to ongoing injection works. Therefore, these new wells will be tested in isolation.
- Following lab results, the following actions will be considered pending discussion on the results:
 - at or above target levels of TCE's recorded – new wells will be injected along with the wider ISCR programme
 - below target levels of TCE's recorded – new wells will be considered for ongoing monitoring
- Remedx will consider current injection design and baseline data for opportunities to hold back some chemical for new wells.
- Remedx will explore procurement routes for further chemicals should this be required, with mind to the remediation programme.
- Further note - peak contamination concentration recorded in the baseline is greater than the original design, though not as great as the maximum recorded during monitoring. The higher concentration will take longer to break down to target values (likely greater than 120 days). That said, with the greater level of concentration, a positive reaction and breakdown of contaminants should be more significant thus more observable.

3.0 UPDATE FOLLOWING COMPLETION OF NEW WELLS

Background - A review of pre injection baseline data identified a potential data gap due to 2 wells on the downgradient perimeter of the injection grid recording high values of TCE contamination (circa 1000 µg/l). It was agreed to install 4 additional monitoring wells to fill the data gap and confirm the perimeter of the ground water contamination plume. Meeting was held to discuss the findings of sampling from these new wells plus two RoC monitoring well (LNKBH01 and BH503) and next steps.

- The new wells recorded significantly reduced concentrations of TCE contamination, indicating the delineation of TCE plume had been confirmed
- The wells did identify high concentrations of DCE contamination (a breakdown product of TCE), maximum value in the order of 600µg/l
- However DCE concentration reading in the extreme downgradient existing monitoring wells indicated a continued downward trend in DCE values (from a max of circa 600µg/l pre-baseline, reducing to 300µg/l) over the remediation period
- ORP readings within the injection matrix have seen a downward trend (more reductive) since injection that positively supports the remediation process. It has been noted that following pause of the injection, ORP values and dissolved oxygen to the periphery have increased, indicating that the natural groundwater flow will tend to reoxygenate the remediation area
- Two extra samples collected by RemedX from BH203 and RXI03, as their own exercise and in addition to the agreed monitoring, to provide interim data from within the injection area, indicates reduction on all target compounds which is positive .
- Although the data shows a partial picture and is mid process, it is seen as positive that evidence of TCE peak values are showing a downward trend. Further, there is evidence of breakdown product DCE reported downgradient and ORP values indicate conditions continue to support breakdown of the contaminants. It is however too early to attribute this all to the remediation injection alone, in particular for the new wells outside the injection area.
- Sampling plots are appended in Appendix E.

Next steps



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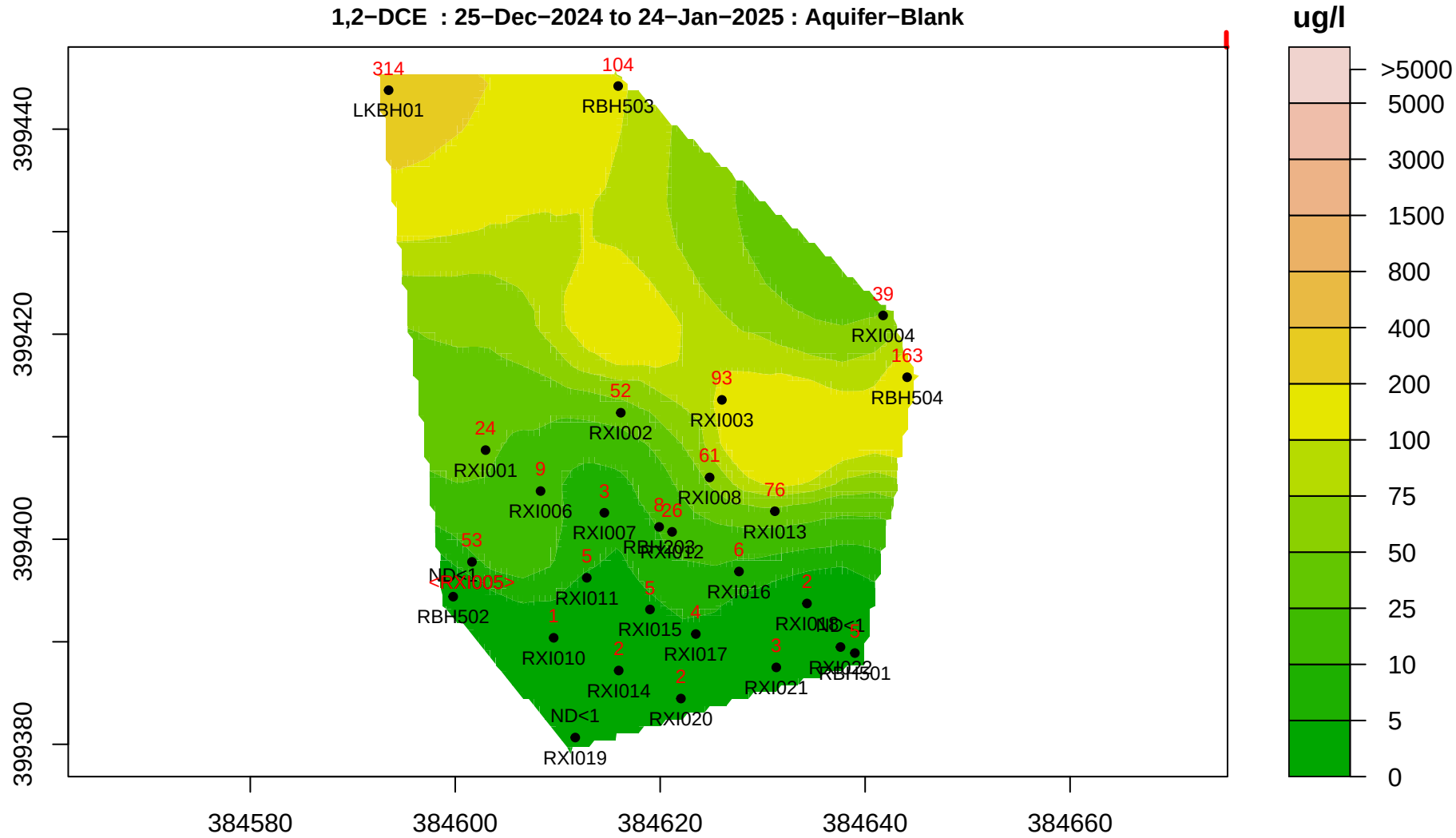
- Further injection is recommended in the new wells to target the high concentrations of DCE and support the wider remediation of the area.
- Residual injection product should be focused on wells where ORP and/or dissolved oxygen are indicating an upward trend thus maintaining the right conditions for remediation within the plume area, this should include those wells in the upgradient perimeter of the remediation area to slow the natural trend to oxygenate groundwater from the surrounding aquifer.
- Remedx to confirm if additional product is required to treat the new wells, or if the remaining residual product is sufficient. It is felt preferable that the current designed mass of product should still be targeted within the initial remediation area, but further geochemistry testing will confirm this. – *Follow up note, further to review of the geochemistry testing, it is confirmed that new chemical will be procured specifically to deal with the DCE identified in the new wells. This has been sourced from the same supplier for consistency.*
- RoC to consider, and discuss with FEC, benefits of initiating water monitoring now, ahead of completion of ISCR, to gain an interim position on the ground water remediation and early indication of positive implementation. – *Follow up note, water monitoring to recommence. 30 day testing proposed to follow completion of original ISCR target area.*



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APPENDIX A – BASELINE DATA

1,2-DCE : 25-Dec-2024 to 24-Jan-2025 : Aquifer-Blank



30.95m

32.62m

ROC RBH203
(100mm Dia)

ROC RBH502
(100mm Dia)

ROC RBH50
(100mm Dia)

Hatch denotes base slab extent of existing retaining wall

Thick purple line indicates approximate face and thickness of wall

3H504
Dia)

34.05
Measurement shown
atively from CL of gas
n. Exact easement to be
determined by Cadent Gas

Medium Pressure

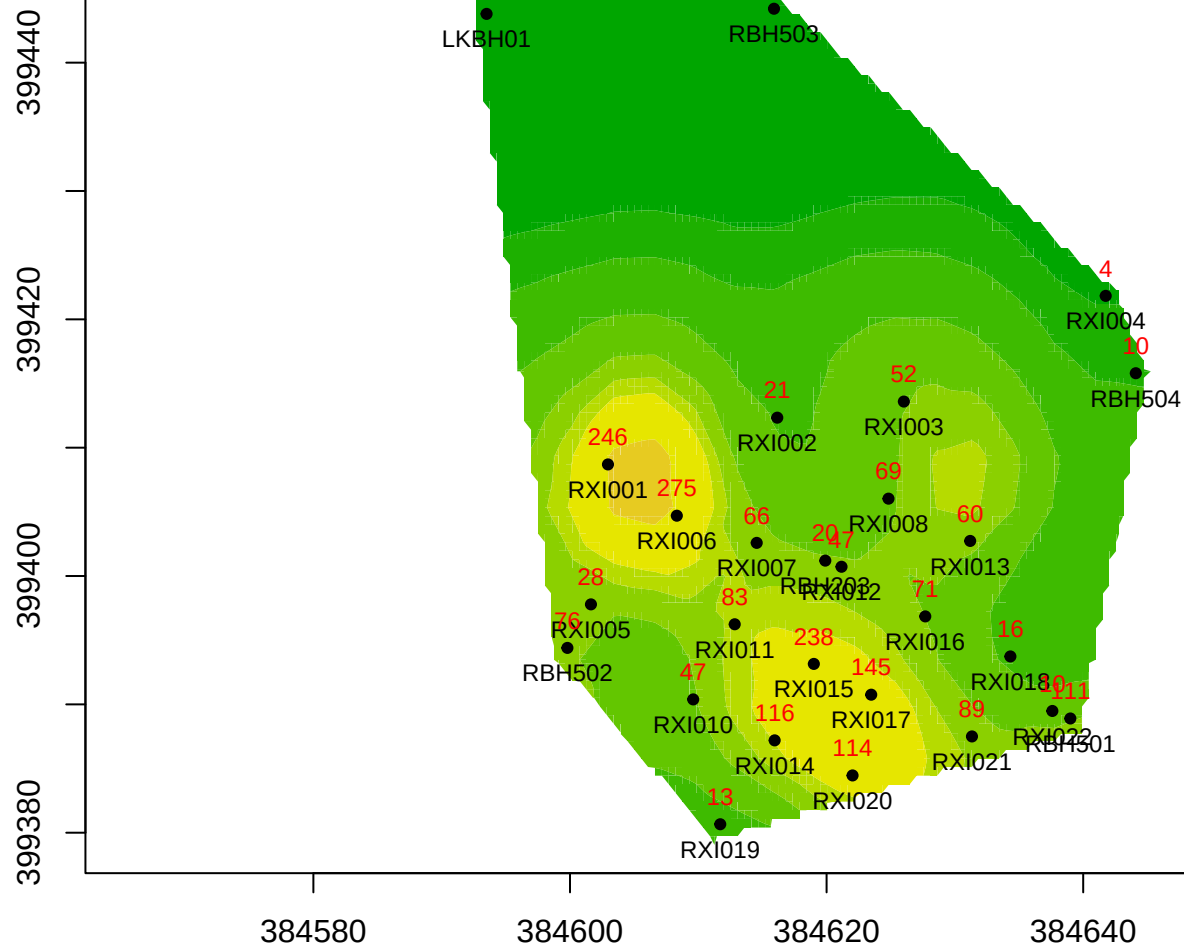
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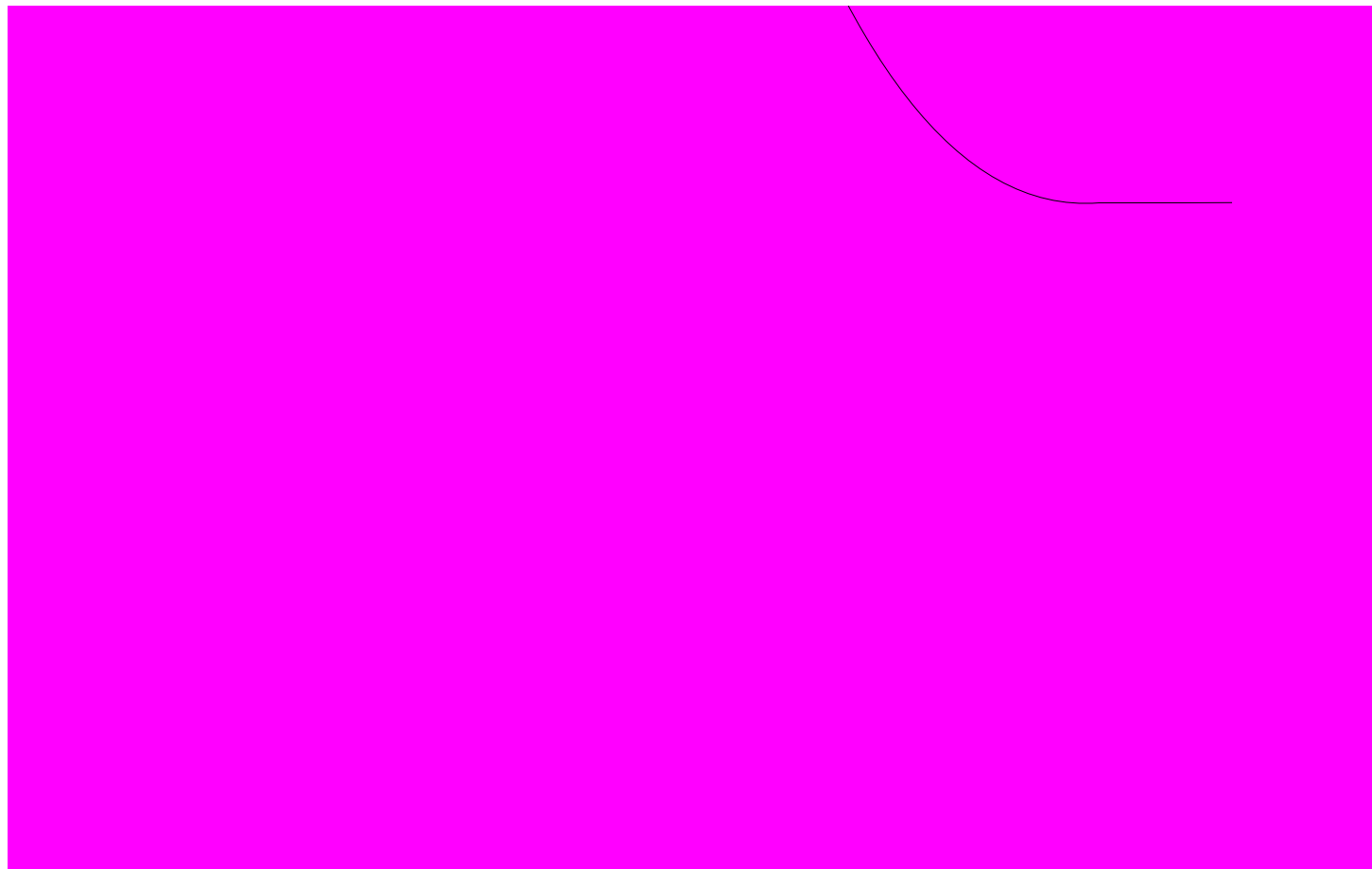
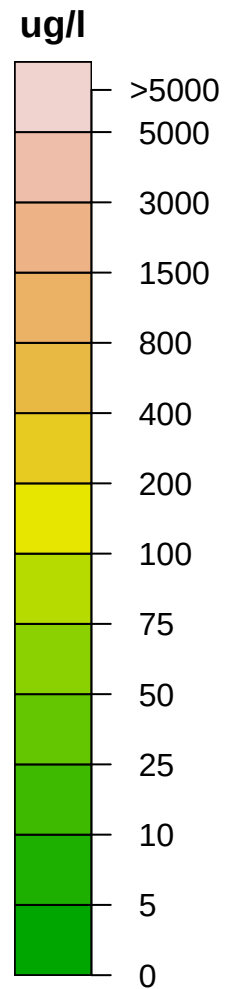
height
45.87

*Height
45 98

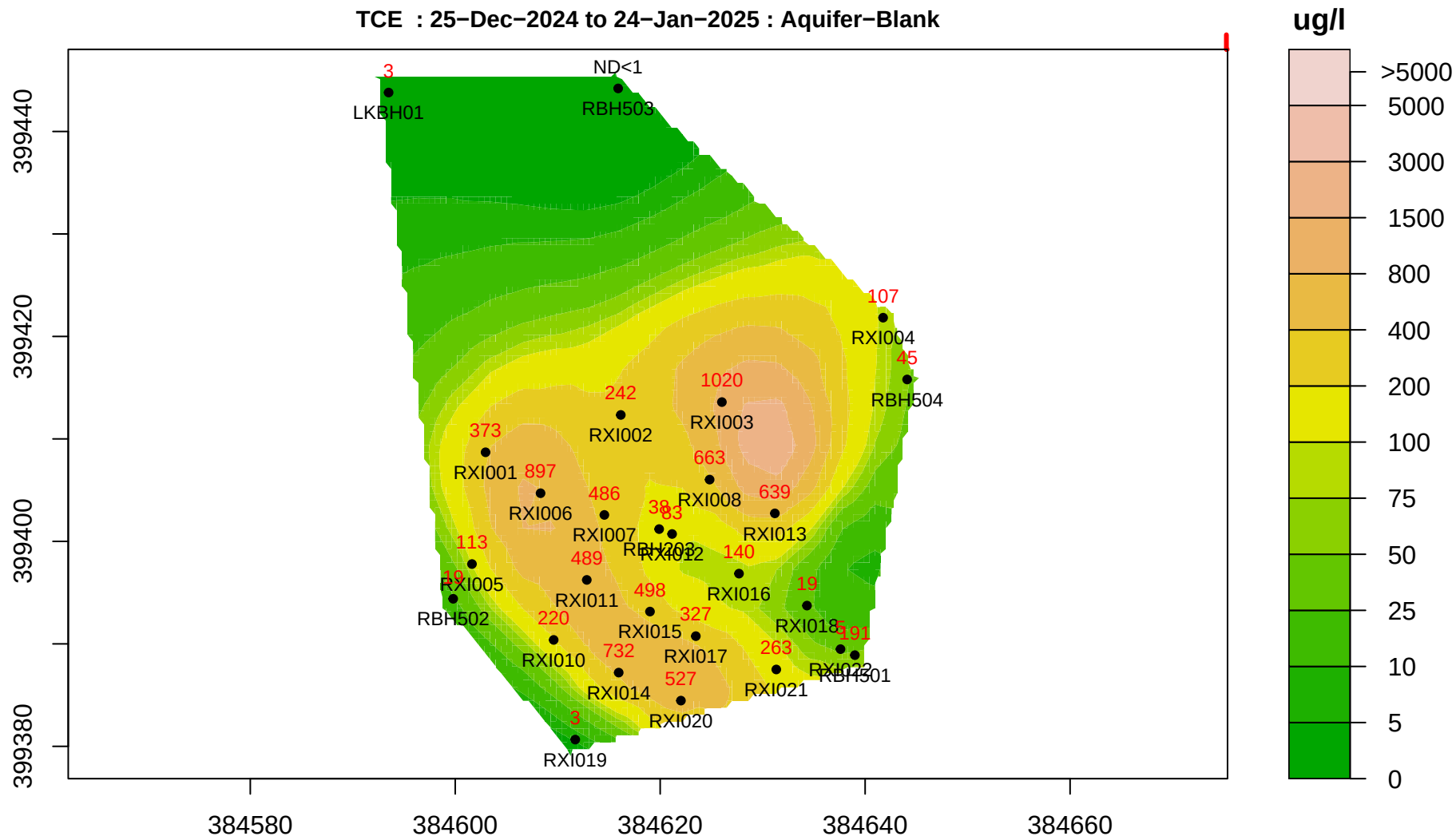
43.55

CHLOROFORM : 25-Dec-2024 to 24-Jan-2025 : Aquifer-Blank

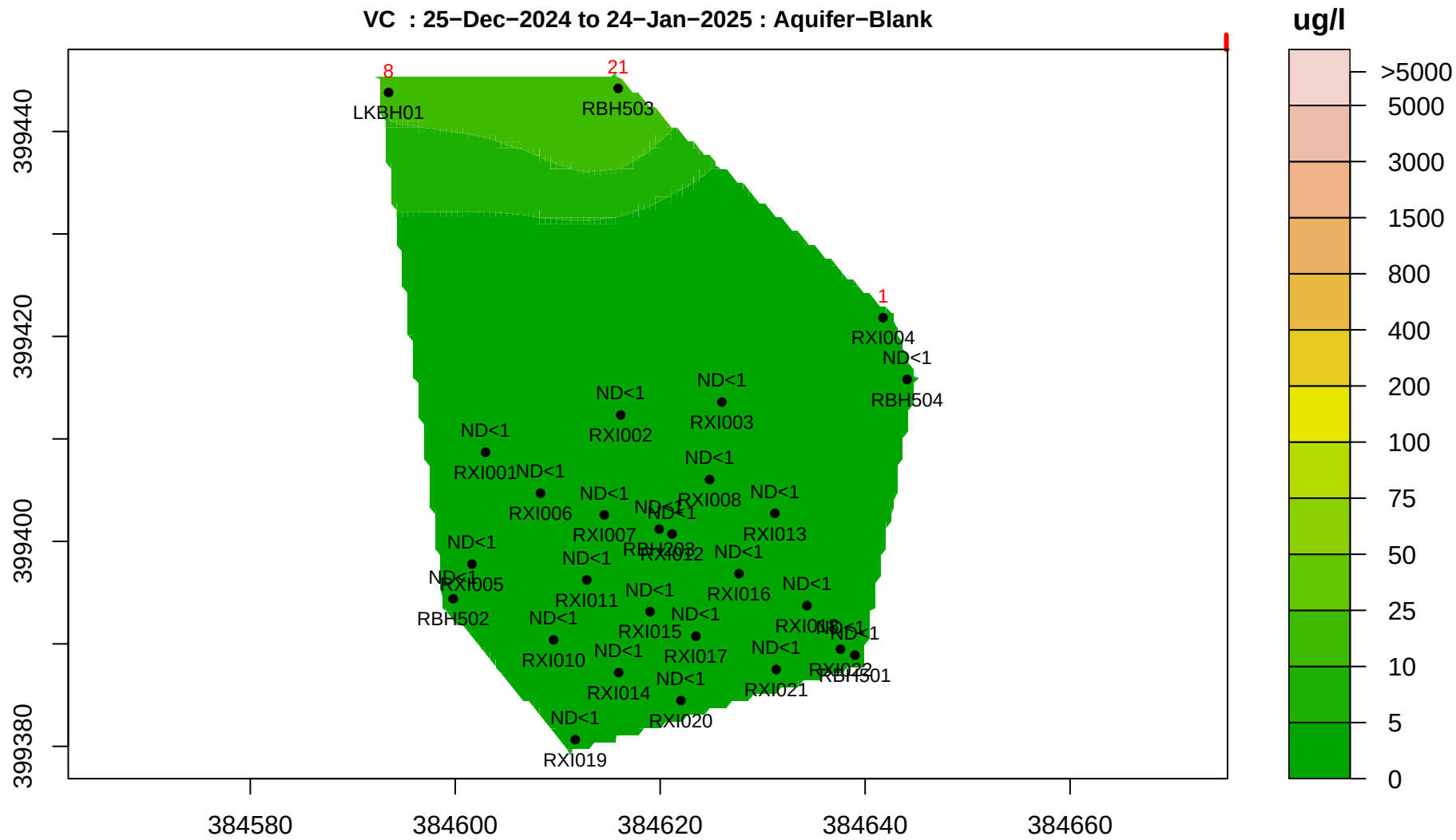




TCE : 25-Dec-2024 to 24-Jan-2025 : Aquifer-Blank



VC : 25-Dec-2024 to 24-Jan-2025 : Aquifer-Blank





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APPENDIX B - SOIL CONTAMINATION PLOT

	WS202
Date	21/7/22
Trichloroethene	<0.001
SUM - 1,2 Dichloroethene (cis and trans)	<0.001
Vinyl Chloride	<0.001
Carbon Tetrachloride	<0.001
Chloroform	<0.001

	RBH503
Date	31/10/23
Trichloroethene	<0.001
SUM - 1,2 Dichloroethene (cis and trans)	<0.001
Vinyl Chloride	<0.001
Carbon Tetrachloride	<0.001
Chloroform	<0.001

	TP203
Date	12/7/22
Trichloroethene	<0.001
SUM - 1,2 Dichloroethene (cis and trans)	<0.001
Vinyl Chloride	<0.001
Carbon Tetrachloride	<0.001
Chloroform	<0.001

	WS204
Date	13/7/22
Trichloroethene	<0.001
SUM - 1,2 Dichloroethene (cis and trans)	<0.001
Vinyl Chloride	<0.001
Carbon Tetrachloride	<0.001
Chloroform	<0.001

	RBH504
Date	02/11/23
Trichloroethene	0.049
SUM - 1,2 Dichloroethene (cis and trans)	0.009
Vinyl Chloride	<0.001
Carbon Tetrachloride	<0.001
Chloroform	<0.001

	RBH502
Date	03/11/23
Trichloroethene	0.018
SUM - 1,2 Dichloroethene (cis and trans)	<0.001
Vinyl Chloride	<0.001
Carbon Tetrachloride	0.002
Chloroform	<0.001

	RBH502
Date	07/11/23
Trichloroethene	0.011
SUM - 1,2 Dichloroethene (cis and trans)	<0.001
Vinyl Chloride	<0.001
Carbon Tetrachloride	0.028
Chloroform	0.005

	RBH505
Date	31/10/23
Trichloroethene	<0.001
SUM - 1,2 Dichloroethene (cis and trans)	<0.001
Vinyl Chloride	<0.001
Carbon Tetrachloride	<0.001
Chloroform	<0.001

	WS301
Date	04/04/23
Trichloroethene	0.067
SUM - 1,2 Dichloroethene (cis and trans)	<0.001
Vinyl Chloride	<0.001
Carbon Tetrachloride	0.005
Chloroform	0.002

	WS301
Date	04/04/23
Trichloroethene	0.043
SUM - 1,2 Dichloroethene (cis and trans)	<0.001
Vinyl Chloride	<0.001
Carbon Tetrachloride	0.003
Chloroform	0.002

	WS304
Date	04/04/23
Trichloroethene	0.074
SUM - 1,2 Dichloroethene (cis and trans)	<0.001
Vinyl Chloride	<0.001
Carbon Tetrachloride	0.004
Chloroform	<0.001

	WS203
Date	21/7/22
Trichloroethene	0.03
SUM - 1,2 Dichloroethene (cis and trans)	<0.001
Vinyl Chloride	<0.001
Carbon Tetrachloride	<0.001
Chloroform	<0.001

	WS307
Date	04/4/23
Trichloroethene	0.066
SUM - 1,2 Dichloroethene (cis and trans)	<0.001
Vinyl Chloride	<0.001
Carbon Tetrachloride	<0.001
Chloroform	0.001

	TP202
Date	13/07/22
Trichloroethene	0.012
SUM - 1,2 Dichloroethene (cis and trans)	<0.001
Vinyl Chloride	<0.001
Carbon Tetrachloride	<0.001
Chloroform	<0.001

	WS308
Date	03/4/23
Trichloroethene	1.13
SUM - 1,2 Dichloroethene (cis and trans)	<0.001
Vinyl Chloride	<0.001
Carbon Tetrachloride	0.038
Chloroform	0.013

	WS308
Date	03/04/23
Trichloroethene	0.039
SUM - 1,2 Dichloroethene (cis and trans)	<0.001
Vinyl Chloride	<0.001
Carbon Tetrachloride	<0.001
Chloroform	<0.001

	WS309
Date	03/04/23
Trichloroethene	0.003
SUM - 1,2 Dichloroethene (cis and trans)	<0.001
Vinyl Chloride	<0.001
Carbon Tetrachloride	<0.001
Chloroform	<0.001

	RBH501
Date	01/11/23
Trichloroethene	0.151
SUM - 1,2 Dichloroethene (cis and trans)	<0.001
Vinyl Chloride	<0.001
Carbon Tetrachloride	<0.001
Chloroform	<0.001

	WS305
Date	03/04/23
Trichloroethene	0.427
SUM - 1,2 Dichloroethene (cis and trans)	<0.001
Vinyl Chloride	<0.001
Carbon Tetrachloride	0.009
Chloroform	0.005

	WS305
Date	03/04/23
Trichloroethene	0.06
SUM - 1,2 Dichloroethene (cis and trans)	<0.001
Vinyl Chloride	<0.001
Carbon Tetrachloride	0.002
Chloroform	0.001

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NOTES

- TRICHLOROETHENE CONTAMINATION
- ROC RBH3XX ROC 2023 ROTARY BOREHOLE (ENVIRONMENTAL OR COMBINED)
 - ROC WS3XX ROC 2023 WINDOW SAMPLE BOREHOLE
 - ROC TP2XX ROC 2023 TRIAL PIT
 - ROC RBH2XX ROC 2022 ROTARY BOREHOLE
 - ROC RBH2XX ROC 2022 WINDOW SAMPLE BOREHOLE
 - MADE GROUND
 - DEVENSIAN TILL
 - CHESTER FORMATION
 - MANCHESTER MARL
 - CHLORINATED SOLVENT EXCEEDANCE OF GAC
 - CHLORINATED SOLVENT BELOW GAC
 - CHLORINATED SOLVENT NON-DETECT
 - REMEDIATION WELL LOCATION AND REFERENCE
 - EASEMENT OF RECENTLY INSTALLED GAS MAIN WINTER 2024
 - APPROX OUTLINE OF HISTORIC BOLTWORKS
 - APPROX OUTLINE OF REMEDIATION EXCAVATION WORKS

- DRAWING NOTES
- TO BE READ IN CONJUNCTION WITH ROC CONSULTING PHASE 1 DESKTOP STUDY REF: 4328-ROC-ZZ-XX-RP-ES-PH1DTS AND PHASE 2 SITE INVESTIGATION REPORT REF: 4328-ROC-ZZ-XX-RP-ES-P2-101.
 - EXPLORATORY HOLE LOCATIONS SHOWN AT APPROXIMATE EXTENTS.
 - EXISTING SITE LEVEL INFORMATION TAKEN FROM PARAGON SURVEYS TOPOGRAPHICAL SURVEY REF-PS-2158-TS-00.
 - ROC CONSULTING ACCEPTS NOT RESPONSIBILITY FOR ANY DAMAGES OR LOSS ARISING AS A RESULT OF THE USE OF THIS DRAWING

02	03.2025	excavation area added	SJB	MJN
01	03.2025	FIRST ISSUE	SJB	MJN
REV	DATE	DETAILS	DRN	CHK

DRAWING STATUS INFORMATION

RIBA STAGE

ROC CONSULTING	Commercial Wharf 6 Commercial Street Manchester M15 4PZ T 0161 214 5390 W roccoconsulting.com
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CLIENT

FAR EAST CONSORTIUM
INTERNATIONAL LTD

PROJECT TITLE
PLOTS NTO2, NTO3 &
NTO4 NORTHERN
GATEWAY

DRAWING TITLE
VOC CONTAMINATION
DISTRIBUTION
SOIL

DRAWING No. 4328-ROC-ZZ-XX-SK-ES-SK113	REV. 02
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APPENDIX C - WATER MONITORING JANUARY

Groundwater Monitoring Report

Plots NT02, NT03 and NT04, Northern
Gateway, Dantzig Street

for

Far East Consortium



27/03/2024



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Groundwater Monitoring Report

Plots NT02, NT03 and NT04, Northern
Gateway, Dantzic Street

for

Far East Consortium

TITLE	NAME	SIGNATURE	DATE
Report Author	REECE MCGUINNESS		27/03/2024
Approved By	MIKE NEWMAN		27/03/2024
Issue No. 01	FINAL		
Report Reference	4328-ROC-ZZ-XX-RP-ES-GWMR01		

REVISION	DESCRIPTION	SIGNATURE	DATE
Issue No. Rev 02	UPDATE FOLLOWING ONGOING WATER MONITORING		30/07/2024
Issue No. Rev 03	UPDATE FOLLOWING ONGOING WATER MONITORING		01/10/2024
Issue No. Rev 04	UPDATE FOLLOWING ONGOING WATER MONITORING		17/12/2024
Issue No. Rev 05	UPDATE FOLLOWING ONGOING WATER MONITORING		27/01/2025



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1.0 INTRODUCTION

This Groundwater Monitoring Report has been developed in response to the agreed Remediation Strategy (Ref: RSK 11834 R0X) and subsequent Water Monitoring Plan (Ref: 4328-ROC-XX-XX-RP-S-WMP1) for site Plot NT02, NT03 and NT04, Dantzic Street planning permission 136814/FO/2023.

This report records the results of the ongoing groundwater monitoring programme prior to site remediation, during site remediation and subsequent to remediation to ensure the continuity and consistency of groundwater sampling and such that changes to groundwater quality during site remediation can be readily identified, and contingency enacted should evidence of groundwater contamination be identified.

Trigger values have now been fixed based on monitoring results up to May 2024, at which point the hardstanding slabs of Area B (as identified in the Water Monitoring Plan, Ref: 4328-ROC-XX-XX-RP-S-WMP1) were removed. Increased frequency testing (from monthly to fortnightly) has been implemented and subsequent ground water samples monitored against these fixed trigger values.



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2.0 BACKGROUND

2.1 Ground Investigation

The site NT02, NT03 and NT04 has undergone a regime of ground investigation designed and implemented by RoC Consulting, which highlighted, among other typical brownfield contaminants, a hot spot of grossly contaminated soils and groundwater in the vicinity of Plot NT02 (Report ref: 4328-ROC-ZZ-XX-RP-ES-P2-101). Trigger levels of Trichloroethene (TCE) and associated volatile organic compound (VOC) contamination were detected and have been targeted for specific remedial treatment as outlined in the Remediation Strategy (Ref: RSK 11834 R03). A number of remedial work activities including treatment of the VOC contamination are to be enacted during an Enabling Works Phase at the site. Anticipated remedial activities for the VOC contamination include the removal of existing hardstanding to access contaminated soil followed by the excavation and removal from site of heavily contaminated soils and in-situ treatment of groundwater by in-situ chemical reduction.

During the course of the Enabling Work Phase there is perceived risk that activities could alter the groundwater flows and inadvertently mobilise groundwater contamination via increased infiltration of soil contamination to groundwaters or increased mobilisation of groundwater contamination due to increased or altered groundwater flows. This Monitoring Report has been developed in accordance with the Water Monitoring Plan for the site developed by RoC Consulting (Report ref: 4328-ROC-XX-XX-RP-S-WMP1) in response to this risk to identify any changes in groundwater condition such that contingency plans can be implemented.

2.2 Requirements of the Remediation Strategy

During the course of the ground investigation, a number of groundwater monitoring wells have been established on the site. The Remediation Strategy recommends the retention of a number of these for ongoing monitoring (See Table 2.1 for details of retained monitoring wells). The location of all monitoring wells is recorded on drawing 4328-ROC-ZZ-XX-DR-ES-ES214, available in Appendix A of this report for reference. The recommendations for well monitoring may be subject to adjustment pending the input from the specialist groundwater remediation contractor.

Table 2.1 Retained Groundwater Monitoring Wells

BH ID	Easting	Northing	Drilled Depth	Top of Response Zone (mbgl)	Bottom of Response Zone to (mbgl)
LK BH01	384584.123	399437.221	15.00	5.00	15.00
ROC RBH203	384618.2538	399396.805	19.50	10.00	15.00
ROC RBH305	384634.5046	399466.2697	20.00	5.00	9.00
ROC RBH501	384631.8435	399390.9021	16.00	4.50	15.00
ROC RBH502	384604.4923	399389.9043	20.30	5.50	18.30
ROC RBH503	384615.9953	399448.0776	12.50	5.00	10.00
ROC RBH504	384644.9936	399416.2777	14.50	4.50	11.95
ROC RBH505	384585.909	399449.7913	14.50	4.50	11.80

The remediation strategy sets out a minimum background requirement for ongoing monitoring of the boreholes to establish and maintain a baseline level of water data. With reference to section 7.10 of the remediation strategy a suggested background frequency of monthly groundwater gauging and quarterly quality sampling is to be maintained until commencement of the Enabling Works, to maintain a background understanding of the groundwater at the site prior to remediation.



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Remediation of the site will be completed under an Enabling Works Phase. An agreed Phasing Plan has been established in response to Condition 4 of the planning conditions, which sets out a number of defined phases to the site remediation. It is appropriate that the groundwater monitoring frequencies adapt to the various activity scopes within each of the identified remediation phases. This is discussed in detail in section 4, but in summary the following defined monitoring periods are identified:

1. Baseline Case
2. Enabling Works / Remediation Phase
 - a. Remediation of Area A – typical brownfield soils
 - b. Remediation of Area B – soils suspected of TCE contamination
 - c. Remediation of Groundwater
3. Validation Monitoring

2.3 Water Monitoring Plan

The water monitoring plan specifies the intervals at which water level and water quality monitoring are to be undertaken as noted below.

- Monthly water level monitoring visits
- Quarterly water quality monitoring visits (testing sample for Heavy Metals, Poly Aromatic Hydrocarbons, SVOCs & VOCs and hardness, dissolved oxygen and pH)

Water quality results are to be screened against relevant Drinking Water Standards (DWS) / Remedial Target Value (RTV) screening criteria in line with water quality testing conducted during previous investigation works conducted on the site. Should a significant deterioration in site water quality be identified, likely causes and linkage to remediation activity will be investigated. A contingency plan is in place to mitigate likely causes of the mobilisation of groundwater contaminants during the remediation works including, surface water management and temporarily covering exposed ground, in order to reduce infiltration.

The frequency of water quality sampling will increase to a fortnightly basis during the course of soil and groundwater remediation works.

3.0 GROUNDWATER MONITORING PROGRAMME

At the time of writing a total of 15 monitoring visits had been undertaken, these visits are summarised in table 3.1 below.

Table 3.1: Summary of Groundwater Monitoring Programme

Visit Number (Date)	Work Undertaken	Samples Scheduled	Work being undertaken on site
1 (19 th – 20 th Feb 2024)	Water levels dipped and samples taken at all wells barring RBH305 which could not be located on site.	7 samples obtained and scheduled for aforementioned testing.	Demolition of structures completed. Hardstanding still in place across the site.
2 (15 th March 2024)	Water levels dipped at all wells barring RBH305 which could not be located on site.	N/A just water levels recorded.	No work on Plot NT02/03 underway at the time of site visit.
3 (12 th April 2024)	Water levels dipped only. RBH505 and LKBH01 recorded as damage.	N/A just water levels recorded.	No work on Plot NT02/03 underway at the time of site visit.
4 (16 th May 2024)	Water levels dipped and samples taken at all wells.	8 samples obtained and scheduled for aforementioned testing.	Demolition of existing building complete, slabs remain in place. Earthwork soft strip and invasives removed from site.
5 (12 th June 2024)	Water levels dipped and samples taken at all wells barring RBH505 which could not be located on site due to site activities.	7 samples obtained and scheduled for aforementioned testing.	Slab and hard standing areas removed and earthworks ongoing.
6 (25 th June 2024)	Water levels dipped only and samples taking at all wells.	8 samples obtained and scheduled for aforementioned testing.	Slab and hard standing areas removed and earthworks ongoing.
7 (9 th -10 th July 2024)	Water levels dipped and samples taken at all wells.	8 samples obtained and scheduled for aforementioned testing	Bulk earthworks ongoing. Contaminated soils largely removed. Testing on surrounding soils taken to confirm removal of TCE source.

**COMPLEX CHALLENGES ...
MADE SIMPLE**

Visit Number (Date)	Work Undertaken	Samples Scheduled	Work being undertaken on site
8 (23rd July 2024)	Water levels dipped and samples taken at all wells.	8 samples obtained and scheduled for aforementioned testing	Bulk earthworks ongoing. Contaminated soils largely removed. Testing on surrounding soils taken to confirm removal of TCE source.
9 (6 th August 2024)	Water levels dipped and samples taken at all wells.	8 samples obtained and scheduled for aforementioned testing	Bulk earthworks ongoing.
10 (20 th August 2024)	Water levels dipped and samples taken at all wells.	7 samples obtained and scheduled for aforementioned testing	Bulk earthworks ongoing.
11 (17 th September 2024)	Water levels dipped and samples taken at all wells.	7 samples obtained and scheduled for aforementioned testing	Bulk earthworks largely complete piling platform formation atop Network Rail mound underway.
12 (30 th September 2024)	Water levels dipped and samples taken at all wells.	8 samples obtained and scheduled for aforementioned testing	Bulk earthworks largely complete piling platform formation atop Network Rail mound underway.
13 (14 th September 2024)	Water levels dipped and samples taken at all wells.	8 samples obtained and scheduled for aforementioned testing	Bulk earthworks largely complete.
14 (18 th November 2024)	Water levels dipped and samples taken at all wells.	8 samples obtained and scheduled for aforementioned testing	Bulk earthworks largely complete.
15 (11 th – 12 th December)	Water levels dipped and samples taken at all wells.	8 samples obtained and scheduled for aforementioned testing	Bulk earthworks largely complete. Trials of in-situ chemical reduction (ISCR) to remediate groundwater beginning on site but not underway at time of sampling

The results of groundwater monitoring and testing are summarised in section 4.0 of this report.

4.0 GROUNDWATER MONITORING RESULTS

4.1 Groundwater Levels

Groundwater level monitoring from visits in February and March 2024 for wells screened in the Chester Formation and the Chester Formation / Manchester Marl indicates a hydraulic head between 27.04mAOD (RBH505) and 27.34mAOD (RBH502) with groundwater flow generally to the north of the site.

There is an absence of data from RBH305 (the low spot during previous phases of monitoring works) which was buried by construction works at the time of both site visits, which may slightly alter the picture across the site. RBH305 was subsequently uncovered to enable water samples and water level data to be obtained in line with the remediation strategy.

No significant changes in groundwater flow path have been identified in all monitoring undertaken (with the most recent results being from December 2024) from the enabling works scenario with flow generally being to the north towards the River Irk. Some slight alterations in flow path in the southern portion of the site to a more westerly direction were noted from June to December but general flow from the site remains to the north. Groundwater contour plots for each period of monitoring have been generated from GWSDAT and are overlain on contaminant concentration plots contained within Appendix E.

Groundwater levels were noted to decrease from March with the average level across all boreholes being 27.09mAOD in April; 26.98mAOD in April; 26.94mAOD in May; 26.91mAOD in June; 26.90mAOD in July and 26.82mAOD in August. In September an increase in groundwater levels was observed with the average water level across all wells being 26.87mAOD, 26.94mAOD in October; 26.88Maod in November and 27.00mAOD in December.

A full table of groundwater monitoring results is available in Appendix C of this report.

4.2 Chemical Testing Results

Groundwater samples obtained from wells during each visit have been screened against DWS criteria and the RTV determined in the remediation strategy. RTV exceedances are summarised in Table 4.1 overleaf. Full copies of chemical testing results are presented in Appendix B of this report and Drinking Water Standards screening tables are presented in Appendix F with exceedances of screening criteria highlighted in red.

Table 4.1: Summary of RTV Exceedances

Visit	BHID	Determinand (Concentration µg/l)
Sample Visit 1: 19 th – 20 th Feb 2024	LKBH01	RTV Exceedance: Vinyl Chloride (24), Sum 1,2-Dichloroethene (564)
	RBH203	RTV Exceedance: Trichloroethene (126)
	RBH501	RTV Exceedance: Trichloroethene (317)
	RBH502	RTV Exceedance: No exceedances
	RBH503	RTV Exceedance: No exceedances
	RBH504	RTV Exceedance: Sum 1,2-Dichloroethene (139),
	RBH505	RTV Exceedance: No exceedances
Sample Visit 2: 15 th - 16 th May 2024	LKBH01	RTV Exceedance: Sum 1,2-Dichloroethene (357), Vinyl Chloride (14)
	RBH203	RTV Exceedance: Trichloroethene (74)
	RBH305	RTV Exceedance: No exceedances
	RBH501	RTV Exceedance: Trichloroethene (138)
	BHH502	RTV Exceedance: No exceedances
	RBH503	RTV Exceedance: Vinyl Chloride (35)
	RBH504	RTV Exceedance: No Exceedances
	RBH505	RTV Exceedance: No exceedances
Sample Visit 3: 12 th June 2024	LKBH01	RTV Exceedance: sum Cis and trans 1,2 Dichloroethene (346), Vinyl Chloride (6)
	RBH203	RTV Exceedance: Trichloroethene (44)
	RBH305	RTV Exceedance: No exceedances
	RBH501	RTV Exceedance: Trichloroethene (72)
	RBH502	RTV Exceedance: No exceedances
	RBH503	RTV Exceedance: Vinyl Chloride (19), sum Cis and trans 1,2 Dichloroethene (116)
	RBH504	RTV Exceedance: sum 1,2 Dichloroethene cis and trans (117)
	RBH505	RTV Exceedances: No exceedances
Sample Visit 4: 25 th – 26 th June 2024	LKBH01	RTV Exceedances: Vinyl Chloride (25), sum cis and trans dichloroethane (551)
	RBH203	RTV Exceedances: Trichloroethene (60)
	RBH305	RTV Exceedances: No exceedances
	RBH501	RTV Exceedances: Trichloroethene (76)
	RBH502	RTV Exceedances: Carbon Tetrachloride (131)
	RBH503	RTV Exceedances: Vinyl Chloride (56), Sum 1,2 Dichloroethene cis and trans (94)
	RBH504	RTV Exceedances: Sum 1,2 Dichloroethene cis and trans (151), Trichloroethene (28),
	RBH505	RTV Exceedances: None

**COMPLEX CHALLENGES ...
MADE SIMPLE**

Visit	BHID	Determinand (Concentration µg/l)
Sample Visit 5: 10 th – 11 th July	LKBH01.	RTV Exceedances: sum cis and trans 1,2 Dichloroethene (620), Vinyl Chloride (27)
	RBH203	RTV Exceedances: Trichloroethene (58)
	RBH305	RTV Exceedances: No Exceedances
	RBH501	RTV Exceedances: Trichloroethene (114)
	RBH502	RTV Exceedances: Carbon Tetrachloride (191)
	RBH503	RTV Exceedances: sum cis and trans 1,2 Dichloroethene (153), Vinyl Chloride (56)
	RBH504	RTV Exceedances: Trichloroethene (35), sum cis and trans 1,2 Dichloroethene (142)
	RBH505	RTV Exceedances: None Exceedances
Sample Visit 6: 23 rd July	LKBH01	RTV Exceedances: sum cis and trans 1,2 Dichloroethene (506), Vinyl Chloride (14)
	RBH203	RTV Exceedances: Trichloroethene (56)
	RBH305	RTV Exceedances: None Exceedances
	RBH501	RTV Exceedances: Trichloroethene (520), Carbon Tetrachloride (156)
	RBH502	RTV Exceedances: Carbon Tetrachloride (179)
	RBH503	RTV Exceedances: sum cis and trans 1,2 Dichloroethene (111), Vinyl Chloride (22)
	RBH504	RTV Exceedances: Trichloroethene (37), sum cis and trans 1,2 Dichloroethene (164)
	RBH505	RTV Exceedances: No Exceedances
Sample Visit 7: 6 th August 2024	LKBH01	RTV Exceedances: sum cis and trans 1,2 Dichloroethene (523), Vinyl Chloride (11)
	RBH203	RTV Exceedances: Trichloroethene (36)
	RBH305	RTV Exceedances: No Exceedances
	RBH501	RTV Exceedances: Trichloroethene (474), Carbon Tetrachloride (160)
	RBH502	RTV Exceedances: Carbon Tetrachloride (186)
	RBH503	RTV Exceedances: sum cis and trans 1,2 Dichloroethene (108), Vinyl Chloride (59)
	RBH504	RTV Exceedances: Trichloroethene (28), sum cis and trans 1,2 Dichloroethene (147)
	RBH505	RTV Exceedances: No Exceedances
Sample Visit 8: 20 th August 2024	LKBH01	RTV Exceedances: sum cis and trans 1,2 Dichloroethene (610), Vinyl Chloride (8)
	RBH203	RTV Exceedances: Trichloroethene (28)
	RBH305	RTV Exceedances: No Exceedances

**COMPLEX CHALLENGES ...
MADE SIMPLE**

Visit	BHID	Determinand (Concentration µg/l)
	RBH501	RTV Exceedances: Trichloroethene (347)
	RBH502	RTV Exceedances: No exceedances
	RBH503	RTV Exceedances: sum cis and trans 1,2 Dichloroethene (115), Vinyl Chloride (42)
	RBH504	Not Accessible
	RBH505	RTV Exceedances: No Exceedances
Sample Visit 9: 17 th September 2024	LKBH01	RTV Exceedances: sum cis and trans 1,2 Dichloroethene (360), Vinyl Chloride (17)
	RBH203	RTV Exceedances: Trichloroethene (33)
	RBH305	RTV Exceedances: No Exceedances
	RBH501	RTV Exceedances: Carbon Tetrachloride (214), Trichloroethene (639)
	RBH502	RTV Exceedances: Carbon Tetrachloride (202)
	RBH503	RTV Exceedances: Vinyl Chloride (67), sum cis and trans 1,2 Dichloroethene (152)
	RBH504	RTV Exceedances: Not Sampled
Sample Visit 10 30 th September 2024	RBH505	RTV Exceedances: No Exceedances
	LKBH01	RTV Exceedances: No Exceedances
	RBH203	RTV Exceedances: Trichloroethene (124)
	RBH305	RTV Exceedances: No Exceedances
	RBH501	RTV Exceedances: Carbon Tetrachloride (244), Trichloroethene (918)
	RBH502	RTV Exceedances: No Exceedances
	RBH503	RTV Exceedances: Vinyl Chloride (55) sum cis and trans 1,2 Dichloroethene (123)
Sample Visit 11 14 th October 2024	RBH504	RTV Exceedances: sum cis and trans 1,2 Dichloroethene (154), Trichloroethene (85)
	RBH505	RTV Exceedances: No Exceedances
	LKBH01	RTV Exceedances: Vinyl Chloride (49), sum cis and trans 1,2 Dichloroethene (545)
	RBH203	RTV Exceedances: Trichloroethene (73)
	RBH305	RTV Exceedances: No Exceedances
	RBH501	RTV Exceedances: Trichloroethene (1174), Carbon Tetrachloride (311)
	RBH502	RTV Exceedances: Carbon Tetrachloride (299)
	RBH503	RTV Exceedances: Vinyl Chloride (27), sum cis and trans 1,2 Dichloroethene (97)
	RBH504	RTV Exceedances: sum cis and trans 1,2 Dichloroethene (182), Trichloroethene (32)
	RBH505	RTV Exceedances: No Exceedances

**COMPLEX CHALLENGES ...
MADE SIMPLE**

Visit	BHID	Determinand (Concentration µg/l)
Sample Visit 12 18 th November 2024	LKBH01	RTV Exceedances: Vinyl Chloride (29), sum cis and trans 1,2 Dichloroethene (649)
	RBH203	RTV Exceedances: Trichloroethene (44)
	RBH305	RTV Exceedances: No Exceedances
	RBH501	RTV Exceedances: Carbon Tetrachloride (364), Trichloroethene (1962)
	RBH502	RTV Exceedances: Carbon Tetrachloride (392)
	RBH503	RTV Exceedances: Vinyl Chloride (49), sum cis and trans 1,2 Dichloroethene (128)
	RBH504	RTV Exceedances: sum cis and trans 1,2 Dichloroethene (160), Trichloroethene (55)
	RBH505	RTV Exceedances: No Exceedances
Sample Visit 13 12-13 th December 2024	LKBH01	RTV Exceedances: No exceedances
	RBH203	RTV Exceedances: Trichloroethene (59)
	RBH305	RTV Exceedances: No Exceedances
	RBH501	RTV Exceedances: Trichloroethene (252)
	RBH502	RTV Exceedances: Carbon Tetrachloride (215)
	RBH503	RTV Exceedances: sum cis and trans 1,2 Dichloroethene (97)
	RBH504	RTV Exceedances: Trichloroethene (40), sum cis and trans 1,2 Dichloroethene (172)
	RBH505	RTV Exceedances: No Exceedances

4.3 Contaminants of Concern Watch and Trigger Values

May 15th Sampling

Watch and trigger values have been produced for the contaminants of concern. These are contained in Appendix D and, also highlight any exceedances of watch and trigger values reported from subsequent monitoring visits.

A 'watch' value may be viewed as a natural increase in the background reading and is not seen as a concern in isolation, but if viewed in combination with a number of other 'watch' values is viewed as evidence that ground water contamination is being mobilised and consideration should be given to implementation of a contingency plan.

A watch value being 10% increase of the maximum recorded value, or a minimum of 1µg/l.

A 'trigger' value may be sufficient if viewed in isolation as evidence of mobilisation of groundwater contamination and consideration should be given to implementation of a contingency plan.

A trigger value being the maximum of:

- 10% increase from the maximum recorded value
- 10% increase from the maximum recorded value, plus 10% of the variation range
- Minimum of 10µg/l

Where a limited number of samples had previously been obtained from an individual well, results have been used to update the watch and trigger values presented in the WMP. The trigger values and watch values have been updated for the site using this data. The updated trigger values are presented overleaf.

Watch and trigger values have been determined in accordance with the Water Monitoring Plan and fixed from the May 2024 sampling. Chemical testing results generally in line with previous results in terms of contaminant concentrations, with some natural increases and decreases. Increases in concentrations of a larger magnitude from previous results were noted in some of the 50X series boreholes (RBH501, RBH502, RBH504). However limited data was previously available for these boreholes and concentrations of contaminants of concern are within the ranges seen in other boreholes in close proximity where more chemical testing data is available.

Utilising the data obtained from site to date number of spatiotemporal contaminants plots have been produced using GWSDAT for each contaminant. These are referenced in the below text and are contained within Appendix E to provide a visual reference of the trend for each contaminant. Contaminants have been abbreviated in the titles of these plots and Table 4.2 below provides the meaning of each abbreviation.

Table 4.2: Contaminant Abbreviations

Abbreviation	Contaminant
CF	Chloroform
TCE	Trichloroethene
DCE	Dichloroethene
VC	Vinyl Chloride
CTC	Carbon Tetrachloride

June 12th Sampling

Sampling from June 12th indicates that test results are still within the watch and trigger value limits, however the reported chloroform concentration at RBH502 has exceeded the trigger value (62.7 µg/l) with a reported concentration of 73µg/l.

These samples were taken during the week excavation works within the TCE impacted zone commenced. Given the marginal exceedance at RBH502 and the fact that this was still within the DWS screening values for Chloroform, it is expected that the reported exceedance is due to natural fluctuations within groundwater.

June 25th – 26th Sampling

Sampling undertaken from June 25th to June 26th indicated the vast majority of results to be below the watch and trigger values. However, a total of 1 watch value was exceeded and 3 trigger values exceeded. Exceedances are summarised in the table below.

BH ID	Contaminant	Watch Value (µg/l)	Trigger Value (µg/l)	Reported Value (µg/l)
RBH501	Sum 1,2-Dichloroethene	4.4	10	5
	Chloroform	85.8	89.6	95
RBH502	Chloroform	54	62.7	103
RBH503	Sum 1,2-Dichloroethene	110	119.8	153
	Vinyl Chloride	48.4	48.4	56

July 10th Sampling

Sampling undertaken on July 10th indicated an increase in the number trigger values exceeded with a total of 7 reported trigger values exceeded and 1 watch value exceeded. Exceedances are summarised in the table overleaf. It is deemed likely that the increase in contaminant concentrations reported in the samples obtained from site are due to an increase in infiltration rate of rainwater into the underlying soils following the removal of the slab and excavation works in the TCE source zone and subsequent increased leaching of the contaminants of concern.

However, removal of impacted soils is understood to have largely been completed at the time of sampling, and as a result it is expected that concentrations within the aquifer should begin to return to levels below those of the trigger values. However, given the number of trigger values exceeded it is recommended that the contamination contingency plan is implemented as a precautionary measure and all efforts made to reduce infiltration of rainwater within the TCE source zone.

BH ID	Contaminant	Watch Value (µg/l)	Trigger Value (µg/l)	Reported Value (µg/l)
RBH501	Sum 1,2-Dichloroethene	4.4	10	5
	Carbon Tetrachloride	91.3	97.9	128
	Chloroform	85.8	89.6	104
RBH502	Trichloroethene	6.6	10	7
	Carbon Tetrachloride	132	156	191
	Chloroform	54	62.7	98
RBH503	Sum 1,2-Dichloroethene	110	119.8	153
	Vinyl Chloride	48.4	49.3	56
RBH504	Carbon Tetrachloride	15.4	15.8	20

July 23rd – 24th Sampling

Sampling undertaken on the 23rd July revealed a similar scenario to the previous visit undertaken at the start of July with 7 exceedances of trigger values and 2 watch values exceeded. Exceedances are summarised in the table below. Increase in contaminant concentrations were noted in RBH501 and RBH502. However, it is noted that general decreases were noted in all other boreholes.

The TCE source zone excavations were completed and had been backfilled by this date therefore it is understood the impacts soils on site have been removed. It is expected that the increase in concentrations recorded from this sampling visit is associated with a delay in leachable contaminants from the overlying soils reaching the aquifer following increased infiltration rates during the removal of impacted soils.

BH ID	Contaminant	Watch Value (µg/l)	Trigger Value (µg/l)	Reported Value (µg/l)
RBH501	Trichloroethene	348.7	377.7	520
	Sum 1,2-Dichloroethene	4.4	10	14
	Carbon Tetrachloride	91.3	97.9	156
	Chloroform	85.8	89.6	244
RBH502	Trichloroethene	6.6	10	9
	Carbon tetrachloride	132	156	179
	Chloroform	54	62.7	104
RBH503	Sum 1,2-Dichloroethene	110	119.8	111
	Vinyl Chloride	48.4	49.3	22
RBH504	Carbon Tetrachloride	15.4	15.8	19

August 6th - 7th Sampling

Sampling of all wells was undertaken on the 6th and 7th August and recorded 6 exceeded trigger values and 2 watch values exceeded. However, it is observed that general contaminant concentrations were decreasing from the previous visit as shown in the table of exceedances below. It is expected that contaminant concentrations have now peaked in the aquifer following the removal of the soil source and that the increased levels of contaminants observed in previous visits should begin to return to contaminant levels that were observed pre soil source removal.

BH ID	Contaminant	Watch Value (µg/l)	Trigger Value (µg/l)	Reported Value (µg/l)
RBH501	Trichloroethene	348.7	377.7	474
	Sum 1,2-Dichloroethene	4.4	10	9
	Carbon Tetrachloride	91.3	97.9	160
	Chloroform	85.8	89.6	244
RBH502	Carbon tetrachloride	132	156	186
	Chloroform	54	62.7	93
RBH503	Vinyl Chloride	48.4	49.3	59
RBH504	Carbon Tetrachloride	15.4	15.8	16

August 20th - 21st Sampling

Sampling of 7 wells (RBH504 was inaccessible at the time of monitoring) was undertaken on the 20th to 21st August. The results from this monitoring visit again indicate a general decrease in contaminant concentrations as described in the below table. From the results of the two most recent sampling visits it is evident that a continued downward trend in contaminant concentrations is occurring within the aquifer. A total of 3 trigger values and 3 watch values were exceeded although it should be noted that no sample was obtained from RBH504 which had a marginal exceedance of the trigger value for Carbon Tetrachloride during the previous visit.

BH ID	Contaminant	Watch Value (µg/l)	Trigger Value (µg/l)	Reported Value (µg/l)
RBH501	Sum 1,2-Dichloroethene	4.4	10	8
	Carbon Tetrachloride	91.3	97.9	125
	Chloroform	85.8	89.6	147
RBH502	Carbon Tetrachloride	132	156	148
	Chloroform	54	62.7	76

**COMPLEX CHALLENGES ...
MADE SIMPLE**

BH ID	Contaminant	Watch Value (µg/l)	Trigger Value (µg/l)	Reported Value (µg/l)
RBH503	Sum 1,2-Dichloroethene	110	119.8	115

September 17th Sampling

Sampling of 7 wells (RBH504 was inaccessible at the time of monitoring) was undertaken on the 17th September. The results from this monitoring visit indicate a general increase in the contaminant concentrations present within the aquifer, a reversal from the previously observed downward trend in previous monitoring visits. It is noted that a total of 8 trigger values were exceeded and 1 watch value. The most significant increase in contaminant concentrations was observed at RBH501 in the southeastern portion of the site which appears to be the focal point of TCE contamination.

BH ID	Contaminant	Watch Value (µg/l)	Trigger Value (µg/l)	Reported Value (µg/l)
RBH501	Trichloroethene	348.7	377.7	639
	Sum 1,2-Dichloroethene	4.4	10	16
	Carbon Tetrachloride	91.3	97.9	214
	Chloroform	85.8	89.6	282
RBH502	Trichloroethene	6.6	10	8
	Carbon Tetrachloride	132	156	202
	Chloroform	54	62.7	103
RBH503	Sum 1,2-Dichloroethene	110	119.8	152
	Vinyl Chloride	48.4	49.3	67

September 30th Sampling

Sampling of 8 wells was undertaken on the 30th September. The results from this monitoring visit again indicate a continued upward trend in contaminant concentrations as observed in the previous visit and described in the below table. A total of 11 trigger values were exceeded.

BH ID	Contaminant	Watch Value (µg/l)	Trigger Value (µg/l)	Reported Value (µg/l)
RBH501	Trichloroethene	348.7	377.7	918
	Sum 1,2-Dichloroethene	4.4	10	14
	Carbon Tetrachloride	91.3	97.9	244
	Chloroform	85.8	89.6	304
RBH502	Trichloroethene	6.6	10	10
	Carbon Tetrachloride	132	156	235
	Chloroform	54	62.7	109
RBH503	Sum 1,2-Dichloroethene	110	119.8	123
	Vinyl Chloride	48.4	49.3	55
RBH504	Trichloroethene	49.5	52.3	85
	Carbon Tetrachloride	15.4	15.8	21

October 14th Sampling

Sampling of 8 wells was undertaken on the 14th October. The results from this monitoring visit again indicate a general continued upward trend in contaminant concentrations as described in the below table, although some decreases in contaminant concentrations were observed at RBH503 with cis and trans 1,2 Dichloroethene and Vinyl Chloride concentrations falling below the watch values and Trichloroethene concentrations falling below watch values at RBH504. A total of 9 trigger values were exceeded.

BH ID	Contaminant	Watch Value (µg/l)	Trigger Value (µg/l)	Reported Value (µg/l)
LKBH01	Vinyl Chloride	26.4	27.7	49
RBH501	Trichloroethene	348.7	377.7	1174
	Sum 1,2-Dichloroethene	4.4	10	19
	Carbon Tetrachloride	91.3	97.9	311
	Chloroform	85.8	89.6	421
RBH502	Trichloroethene	6.6	10	14
	Carbon Tetrachloride	132	156	299
	Chloroform	54	62.7	124
RBH504	Sum 1,2-Dichloroethene	166.1	172.3	182

November 11th Sampling

Sampling of 8 wells was undertaken on the 11th November. The results from this monitoring visit indicate a continuation of the observed upward trend in contaminant concentrations as described in the below table. A total of 11 trigger values were exceeded and 1 watch value. Particularly significant increases were observed in TCE concentrations at RBH501 and Carbon Tetrachloride concentrations at RBH502. However, some decreases in contaminant concentrations were also observed particularly at RBH503 and RBH504 with a decrease in Vinyl Chloride concentration to below the trigger value and a decrease in cis and trans 1,2 Dichloroethene concentrations to below the watch value.

BH ID	Contaminant	Watch Value (µg/l)	Trigger Value (µg/l)	Reported Value (µg/l)
LKBH01	Vinyl Chloride	26.4	27.7	29
RBH501	Trichloroethene	348.7	377.7	1962
	Sum 1,2-Dichloroethene	4.4	10	15
	Carbon Tetrachloride	91.3	97.9	364

**COMPLEX CHALLENGES ...
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BH ID	Contaminant	Watch Value (µg/l)	Trigger Value (µg/l)	Reported Value (µg/l)
	Chloroform	85.8	89.6	425
RBH502	Trichloroethene	6.6	10	11
	Carbon Tetrachloride	132	156	392
	Chloroform	54	62.7	118
RBH503	Sum 1,2-Dichloroethene	110	119.8	128
	Vinyl Chloride	48.4	49.3	49
	Trichloroethene	49.5	52.3	55
RBH504	Carbon Tetrachloride	15.4	15.8	21

December 12th - 13th Sampling

Sampling of 8 wells was undertaken on the 12th – 13th December. The results from this monitoring visit indicate that contaminants concentrations have decreased over the majority of the boreholes sampled. A total of 3 trigger values were exceeded and 1 watch value across boreholes RBH502 and RBH504. There were no exceedances in trigger value or watch value in any of the other 6 boreholes. Increases were observed in trichloroethene at RBH502 and sum cis and trans 1,2 Dichloroethene at RBH504. There were decreases in Vinyl chloride at LKBH01; Trichloroethene, sum 1,2 dichloroethene and carbon tetrachloride at RBH501 and sum cis and trans 1,2 dichloroethene and vinyl chloride at RBH503 which are now all below trigger value. There were also decreases in trichloroethene at RBH502 and sum 1,2 dichloroethene although concentrations were not below the trigger value.

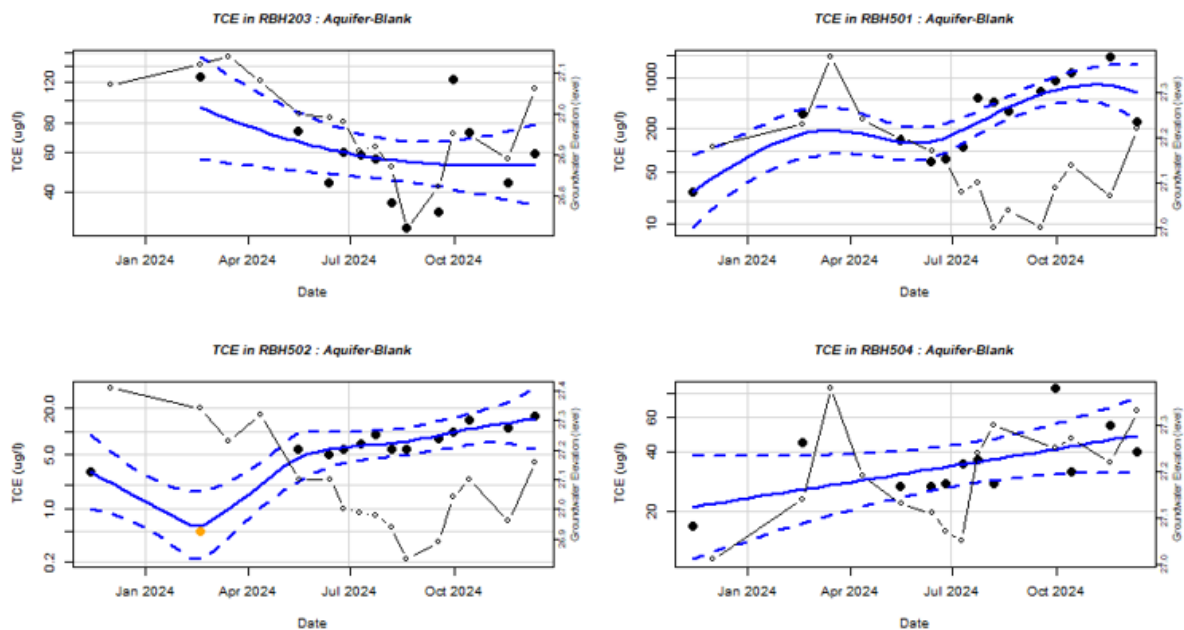
BH ID	Contaminant	Watch Value (µg/l)	Trigger Value (µg/l)	Reported Value (µg/l)
LKBH01	Carbon Tetrachloride	3.3	3.3	5
	Chloroform	2.2	2.2	3
RBH502	Trichloroethene	6.6	10	16
	Carbon Tetrachloride	132	156	215
	Chloroform	54	62.7	70
RBH503	Trichloroethene	1	10	8
	Carbon Tetrachloride	1.1	10	2
RBH504	Sum 1,2, Dichloroethene	166.1	172.3	172
	Carbon Tetrachloride	15.4	15.8	19

Discussion on Contaminant Concentrations over Time

Trichloroethene

TCE concentrations have been concentrated in the southern portion of the site throughout the monitoring period (October 2023 – December 2024). Concentration of TCE within RBH203 have been generally decreasing over time. At RBH504 a steady increase in contaminant concentrations have been observed. At RBH501 and RBH502 along the sites southern boundary. TCE concentrations were relatively steady until June – July when the hardstanding was removed from this area of the site. Following removal of hard standing the concentrations of TCE in the aquifer began to increase before appearing to peak at the end of July (RBH501 from 76 to 520ug/l, RBH502 from 6 to 9ug/l).

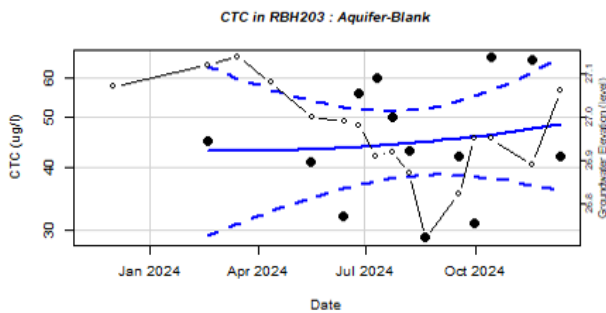
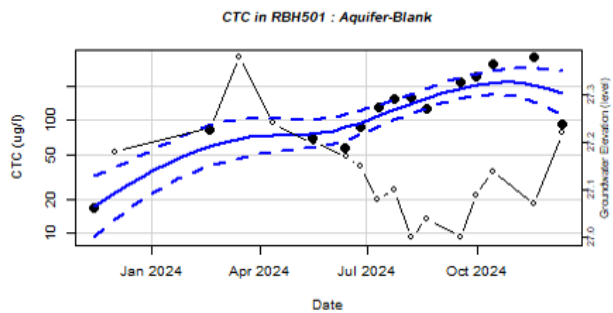
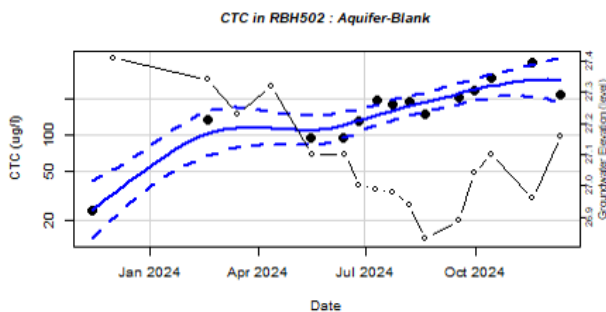
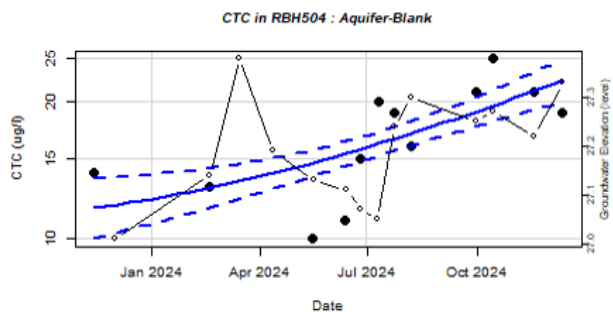
Chemical testing results obtained from visits undertaken in August appeared to indicate that concentrations were then beginning to decrease. However, subsequent visits indicated that concentrations were increasing, especially in RBH501 where concentrations have increased from 347ug/l to 1962ug/l in November 2024. The most recent monitoring visit completed in December 2024 has recorded a significant decrease in concentrations at RBH501 from 1962ug/l to 252ug/l. This was accompanied by a slight increase in TCE concentrations at RBH203 and RBH502 and a decrease at RBH504.



COMPLEX CHALLENGES ... MADE SIMPLE

Sum cis and trans 1,2 Dichloroethene

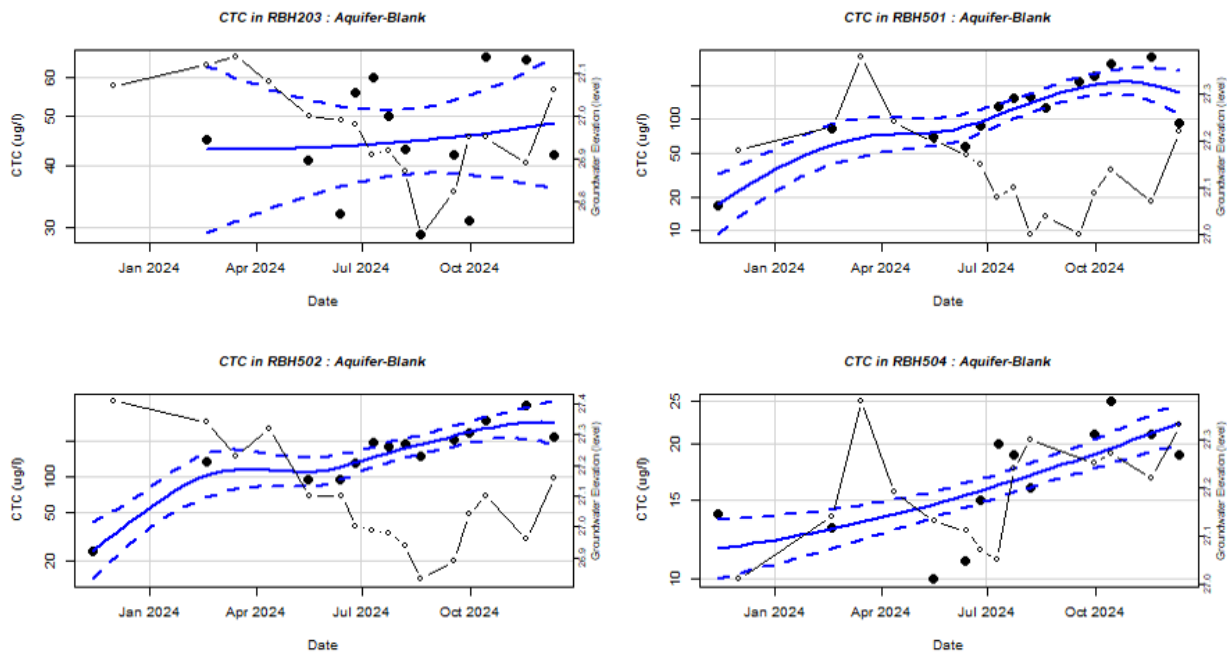
Cis and trans 1,2 Dichloroethene concentrations have been relatively stable in LKBH01, RBH503 and RBH203 throughout the monitoring period. Concentrations in RBH501 have steadily been increasing throughout the monitoring period in RBH501. The greatest concentrations have been reported in LKBH01 and RBH503 indicating that these contaminants are most greatly concentrated in the northern portion of the site and would suggest that the TCE plume is migrating to the north and decaying into DCE as it travels further away from the TCE hotspot in the southern portion of the site. The concentrations of DCE decreased across all boreholes in the most recent monitoring completed in December 2024.



**COMPLEX CHALLENGES ...
MADE SIMPLE**

Carbon Tetrachloride

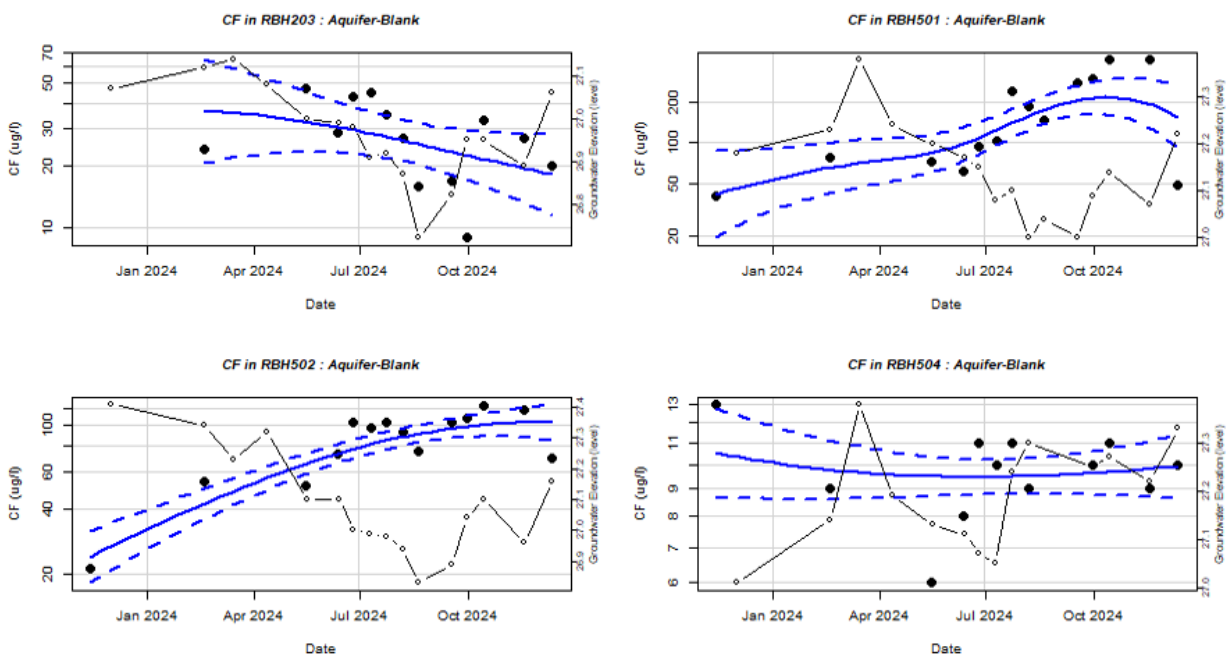
Carbon Tetrachloride concentrations have fluctuated in RBH203 but overall the trend has been relatively stable at this location. However at RBH501, RBH502, and RBH504 concentrations have been steadily on the increase. The greatest concentrations have been in RBH501 and RBH502 where concentrations have steadily increased throughout the monitoring period. A steady increase has also been observed in RBH504 although concentrations are much lower here. There was a slight decrease in concentrations recorded at all boreholes in the most recent round of sampling completed in December 2024.



**COMPLEX CHALLENGES ...
MADE SIMPLE**

Chloroform

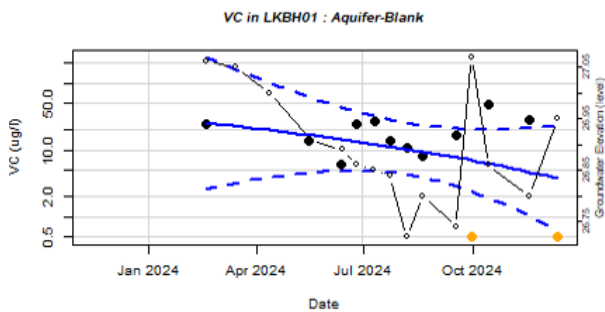
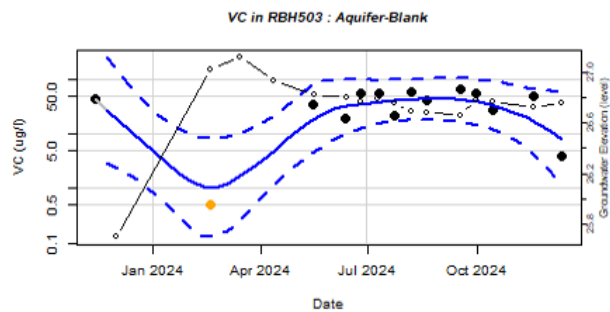
Chloroform concentrations have consistently been concentrated in the southern portion of the site throughout the monitoring period, primarily around RBH501, RBH203 and RBH502. The greatest concentrations have been observed at RBH501. Review of the below time series analysis indicates that concentrations have been increasing over time in RBH501 and RBH502, experience a small decrease in RBH203 and maintained relatively steady in RBH504. The most recent sampling visit (completed in December 2024) observed that concentrations dropped in RBH501 and RBH502, and concentrations continued to decrease in RBH203. Concentrations remain stable at RBH504.



COMPLEX CHALLENGES ... MADE SIMPLE

Vinyl Chloride

Vinyl Chloride has been noted as being present largely in the northern portion of the site. Concentrations have been relatively stable over time in both LKBH01 and RBH503 a dip in concentrations was reported in RBH503 in February until concentrations returned to levels recorded in November 2023 where they have remained until present. The most recent sampling visit (completed in December 2024) observed concentration decreasing across both aforementioned boreholes.





**COMPLEX CHALLENGES ...
MADE SIMPLE**

APPENDIX A - DRAWINGS

GROUNDWATER MONITORING WELLS

BH I.D.	Easting	Northing	Response zone from (mOD)	Response zone to (mOD)	Lithology at response zone
RBH505 P1	384588.94	399458.10	26.91	19.61	CF
RBH505 P2	384588.94	399458.10	18.41	16.91	MM
RBH504	384644.07	399415.75	29.54	22.09	CF
RBH503	384612.61	399439.30	26.65	21.65	CF
RBH502 P1	384599.85	399394.37	28.09	15.29	CF
RBH502 P2	384599.85	399394.37	14.29	13.29	MM
RBH501	384638.99	399388.87	29.09	18.59	CF
RBH403	384717.73	399423.13	31.98	26.53	RD
RBH401	384697.40	399411.32	32.02	26.57	RD
RBH301	384576.68	399444.27	27.41	21.41	CF
RBH302	384608.42	399383.57	28.59	21.59	CF
RBH303	384640.07	399422.36	28.01	23.01	CF
RBH304	384680.66	399402.07	29.66	25.66	Terrace Deposits
RBH305	384636.01	399469.21	27.15	23.15	CF
RBH306	384692.00	399446.81	24.73	22.73	MM
RBH307	384749.15	399493.27	30.84	19.84	MM
RBH201	384597.08	399455.18	10.40	6.40	MM
RBH202	384638.05	399446.26	11.76	7.76	MM
RBH203	384619.36	399403.83	23.59	18.59	CF
RBH205	384721.68	399517.64	11.38	6.38	MM
RBH206	384701.70	399491.17	11.00	7.00	MM
RBH207	384797.90	399510.73	16.17	11.17	MM
RBH208	384757.48	399461.38	23.00	18.00	MM
RBH209	384796.49	399492.29	28.46	23.46	MM
RBH210	384845.14	399489.02	21.38	16.38	MM
LKBH01	384593.48	399443.85	26.41	16.41	CF & MM
LKBH03	384634.56	399391.59	30.59	13.59	CF & MM

ALL GROUNDWATER MONITORING WELLS ARE TO BE RETAINED UNTIL THE GROUNDWATER REMEDIATION DESIGN IS FINALISED BY THE REMEDIATION CONTRACTOR

RETAINED MONITORING WELLS ARE TO HAVE RAISED COVERS FITTED TO PROVIDE ADDITIONAL PROTECTION DURING DEMOLITION WORKS.

DECOMMISSIONING OF WELLS IS TO BE UNDERTAKEN IN ACCORDANCE WITH ENVIRONMENT AGENCY SC020093 "GUIDANCE ON THE DESIGN AND INSTALLATION OF GROUNDWATER QUALITY MONITORING POINTS".

 ROC RBH3XX GROUNDWATER MONITORING WELL TO BE DECOMMISSIONED

 ROC RBH3XX GROUNDWATER MONITORING WELL TO BE RETAINED

 APPROX PLOT NT02 BOUNDARY

 APPROX PLOT NT03 BOUNDARY

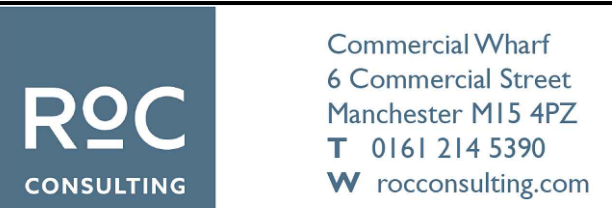
 APPROX PLOT NT04 BOUNDARY

 EXTENT OF SOIL TURNOVER

1. TO BE READ IN CONJUNCTION WITH ROC CONSULTING PHASE 1 DESKTOP STUDY REF: 4328-ROC-ZZ-XX-RP-ES-PH1DTS AND PHASE 2 SITE INVESTIGATION REPORT REF: 4328-ROC-ZZ-XX-RP-ES-P2-101.
2. EXPLORATORY HOLE LOCATIONS SHOWN AT APPROXIMATE EXTENTS.
3. EXISTING SITE LEVEL INFORMATION TAKEN FROM PARAGON SURVEYS TOPOGRAPHICAL SURVEY REF: PS-2158-TS--00
4. ROC CONSULTING ACCEPTS NO RESPONSIBILITY FOR ANY DAMAGES OR LOSS ARISING AS A RESULT OF THE USE OF THIS DRAWING

02	JAN 24	LKBH01 ADDED TO LIST OF WELLS TO BE RETAINED	RM	AS
01	JAN 24	FIRST ISSUE	RM	AS
REV.	DATE	DETAILS	DRN.	CH

RIBA STAGE



DRAWN RM	DATE JAN 24	SCALES 1:500
CHECKED AS	DATE JAN 24	THE ABOVE SCALES APPLY WHEN PLOTTED AT A1 SIZE --DO NOT SCALE--
APPRVD. AS	DATE JUN 24	EMAIL FOR DRAWINGS info@roccoconsulting.com

FAR EAST CONSORTIUM
INTERNATIONAL LTD

PROJECT TITLE
PLOTS NTO2, NTO3 &
NT04 NORTHERN
GATEWAY

DRAWING TITLE

GROUNDWATER
MONITORING WELL
DECOMMISSIONING PLAN

DRAWING No.	REV.
4328-ROC-ZZ-XX-DR-ES-ES214	02



COMPLEX CHALLENGES ...
MADE SIMPLE

APPENDIX B – CHEMICAL TESTING RESULTS

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 24/05884
Issue Number: 1
Date: 26 June, 2024

Client: ROCP LIMITED
Commercial Wharf 6 Commercial Street
Castlefield
Manchester
M15 4PZ

Project Manager: Reece McGuinness
Project Name: Dantzie Street
Project Ref: 4328
Order No: PBJ20256
Date Samples Received: 12/06/24
Date Instructions Received: 13/06/24
Date Analysis Completed: 26/06/24

Approved by:



Gemma Berrisford
Deputy Client Services Supervisor

Envirolab Job Number: 24/05884

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/05884/1	24/05884/2	24/05884/3	24/05884/4	24/05884/5	24/05884/6	24/05884/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH203	RBH305	RBH501	RBH502	RBH503	RBH504			
Depth to Top	13.20	14.90	7.00	13.70	15.80	8.80	10.70			
Depth To Bottom										
Date Sampled	12-Jun-24	12-Jun-24	12-Jun-24	12-Jun-24	12-Jun-24	12-Jun-24	12-Jun-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
pH (w) _A [#]	7.27	7.02	6.97	7.23	7.21	6.91	6.81	pH	0.01	A-T-031w
Hardness Total _A [#]	450	359	290	455	446	580	678	mg/l Ca CO ₃	4	A-T-049w
Sulphate (w) _A [#]	158	81	116	98	197	274	236	mg/l	1	A-T-026w
Cyanide (total) (w) _A [#]	0.088	<0.005	<0.005	<0.005	0.010	0.047	<0.005	mg/l	0.005	A-T-042wTCN
Phenols - Total by HPLC (w) _A	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/l	0.01	A-T-050w
DOC - Dissolved Organic Carbon (w) _A [#]	7.4	4.2	8.3	4.8	4.4	7.0	11.1	mg/l	2	A-T-032w
Antimony (dissolved) _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-025w
Arsenic (dissolved) _A [#]	17	<1	<1	<1	<1	5	<1	µg/l	1	A-T-025w
Boron (dissolved) _A [#]	183	230	396	255	202	263	280	µg/l	10	A-T-025w
Barium (dissolved) _A [#]	44	61	72	104	94	148	72	µg/l	1	A-T-025w
Beryllium (dissolved) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-025w
Cadmium (dissolved) _A [#]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	µg/l	0.2	A-T-025w
Copper (dissolved) _A [#]	<4	<4	<4	<4	<4	<4	10	µg/l	4	A-T-025w
Chromium (dissolved) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-025w
Chromium (hexavalent) (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/l	0.01	A-T-040w
Chromium (trivalent) (w)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/l	0.01	Calc
Lead (dissolved) _A [#]	<1	<1	<1	<1	<1	<1	10	µg/l	1	A-T-025w
Mercury (dissolved) _A [#]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	µg/l	0.1	A-T-025w
Molybdenum (dissolved) _A [#]	1.3	<0.5	2.8	<0.5	<0.5	0.7	<0.5	µg/l	0.5	A-T-025w
Nickel (dissolved) _A [#]	<2	5	2	7	11	5	10	µg/l	2	A-T-025w
Selenium (dissolved) _A [#]	<1	3	2	3	3	<1	2	µg/l	1	A-T-025w
Vanadium (dissolved) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-025w
Zinc (dissolved) _A [#]	6	6	9	7	9	15	48	µg/l	2	A-T-025w

Envirolab Job Number: 24/05884

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/05884/1	24/05884/2	24/05884/3	24/05884/4	24/05884/5	24/05884/6	24/05884/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH203	RBH305	RBH501	RBH502	RBH503	RBH504			
Depth to Top	13.20	14.90	7.00	13.70	15.80	8.80	10.70			
Depth To Bottom										
Date Sampled	12-Jun-24	12-Jun-24	12-Jun-24	12-Jun-24	12-Jun-24	12-Jun-24	12-Jun-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
PAH 16MS (w)										
Acenaphthene (w) _A [#]	0.57	<0.01	<0.01	<0.01	<0.01	0.13	0.02	µg/l	0.01	A-T-019w
Acenaphthylene (w) _A [#]	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Anthracene (w) _A [#]	0.04	<0.01	<0.01	<0.01	<0.01	0.04	0.04	µg/l	0.01	A-T-019w
Benzo(a)anthracene (w) _A [#]	0.02	<0.01	<0.01	<0.01	<0.01	0.13	<0.01	µg/l	0.01	A-T-019w
Benzo(a)pyrene (w) _A [#]	0.02	<0.01	<0.01	<0.01	<0.01	0.17	<0.01	µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w) _A [#]	0.02	<0.01	<0.01	<0.01	<0.01	0.21	<0.01	µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	0.10	<0.01	µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	0.07	<0.01	µg/l	0.01	A-T-019w
Chrysene (w) _A [#]	0.02	<0.01	<0.01	<0.01	<0.01	0.15	<0.01	µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	µg/l	0.01	A-T-019w
Fluoranthene (w) _A [#]	0.03	0.02	0.01	<0.01	<0.01	0.28	0.02	µg/l	0.01	A-T-019w
Fluorene (w) _A [#]	0.02	<0.01	<0.01	<0.01	<0.01	0.03	0.01	µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	0.09	<0.01	µg/l	0.01	A-T-019w
Naphthalene (w) _A [#]	0.18	0.04	<0.01	<0.01	<0.01	0.05	0.01	µg/l	0.01	A-T-019w
Phenanthrene (w) _A [#]	0.02	<0.01	<0.01	<0.01	<0.01	0.13	0.01	µg/l	0.01	A-T-019w
Pyrene (w) _A [#]	0.03	0.08	<0.01	<0.01	<0.01	0.26	0.03	µg/l	0.01	A-T-019w
Total PAH 16MS (w) _A [#]	0.99	0.14	0.01	<0.01	<0.01	1.86	0.14	µg/l	0.01	A-T-019w

Envirolab Job Number: 24/05884

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/05884/1	24/05884/2	24/05884/3	24/05884/4	24/05884/5	24/05884/6	24/05884/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH203	RBH305	RBH501	RBH502	RBH503	RBH504			
Depth to Top	13.20	14.90	7.00	13.70	15.80	8.80	10.70			
Depth To Bottom										
Date Sampled	12-Jun-24	12-Jun-24	12-Jun-24	12-Jun-24	12-Jun-24	12-Jun-24	12-Jun-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
SVOC (excluding PAH-16) (w)										
1,2,4-Trichlorobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
1,2-Dichlorobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
1,3-Dichlorobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
1,4-Dichlorobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4,5-Trichlorophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4,6-Trichlorophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4-Dichlorophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4-Dimethylphenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4-Dinitrotoluene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,6-Dinitrotoluene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Chloronaphthalene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Chlorophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Methylnaphthalene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Methylphenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Nitrophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
4-Bromophenyl phenyl ether _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
4-Chloro-3-methylphenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Bis(2-chloroisopropyl)ether _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
3+4-Methylphenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
4-Nitrophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Bis(2-chloroethyl)ether _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Bis(2-chloroethoxy)methane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Bis(2-ethylhexyl)phthalate _A	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-052w
Butylbenzyl phthalate _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Carbazole _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Dibenzofuran _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
n-Dibutylphthalate _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
n-Diethylphthalate _A	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-052w
n-Nitroso-n-dipropylamine _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Diethyl phthalate _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Dimethyl phthalate _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Hexachlorobutadiene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w

Envirolab Job Number: 24/05884

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/05884/1	24/05884/2	24/05884/3	24/05884/4	24/05884/5	24/05884/6	24/05884/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH203	RBH305	RBH501	RBH502	RBH503	RBH504			
Depth to Top	13.20	14.90	7.00	13.70	15.80	8.80	10.70			
Depth To Bottom										
Date Sampled	12-Jun-24	12-Jun-24	12-Jun-24	12-Jun-24	12-Jun-24	12-Jun-24	12-Jun-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Hexachlorobenzene SVOC _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Pentachlorophenol SVOC _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Phenol _A	<1	<1	<1	<1	<1	1	<1	µg/l	1	A-T-052w
Hexachloroethane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Nitrobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Isophorone _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Perylene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w

Envirolab Job Number: 24/05884

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/05884/1	24/05884/2	24/05884/3	24/05884/4	24/05884/5	24/05884/6	24/05884/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH203	RBH305	RBH501	RBH502	RBH503	RBH504			
Depth to Top	13.20	14.90	7.00	13.70	15.80	8.80	10.70			
Depth To Bottom										
Date Sampled	12-Jun-24	12-Jun-24	12-Jun-24	12-Jun-24	12-Jun-24	12-Jun-24	12-Jun-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
VOC (w)										
Dichlorodifluoromethane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Chloromethane _A	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-006w
Vinyl Chloride _A [#]	6	<1	<1	<1	<1	19	<1	µg/l	1	A-T-006w
Bromomethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Chloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	85	<1	<1	<1	<1	34	2	µg/l	1	A-T-006w
Dichloromethane _A	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	261	1	<1	4	1	82	105	µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-006w
Chloroform _A [#]	<1	29	<1	61	73	<1	8	µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Benzene _A [#]	20	<1	<1	<1	<1	14	<1	µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	<1	32	<1	57	95	<1	11	µg/l	1	A-T-006w
Dibromomethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-006w
Trichloroethene _A [#]	<1	44	<1	72	5	<1	27	µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	<1	<1	<1	<1	<1	<1	1	µg/l	1	A-T-006w
Toluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Tetrachloroethene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w

Envirolab Job Number: 24/05884

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/05884/1	24/05884/2	24/05884/3	24/05884/4	24/05884/5	24/05884/6	24/05884/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH203	RBH305	RBH501	RBH502	RBH503	RBH504			
Depth to Top	13.20	14.90	7.00	13.70	15.80	8.80	10.70			
Depth To Bottom										
Date Sampled	12-Jun-24	12-Jun-24	12-Jun-24	12-Jun-24	12-Jun-24	12-Jun-24	12-Jun-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
1,1,1,2-Tetrachloroethane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Ethylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
m & p Xylene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromoform _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
Styrene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1,2,2-Tetrachloroethane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
o-Xylene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w

Envirolab Job Number: 24/05884

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/05884/1	24/05884/2	24/05884/3	24/05884/4	24/05884/5	24/05884/6	24/05884/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH203	RBH305	RBH501	RBH502	RBH503	RBH504			
Depth to Top	13.20	14.90	7.00	13.70	15.80	8.80	10.70			
Depth To Bottom										
Date Sampled	12-Jun-24	12-Jun-24	12-Jun-24	12-Jun-24	12-Jun-24	12-Jun-24	12-Jun-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
TPH UKCWG (w) with Clean Up										
Ali >C5-C6 (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Ali >C6-C8 (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Ali >C8-C10 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C10-C12 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C12-C16 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C16-C21 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C21-C35 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C35-C44 (w) _A	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Total Aliphatics (w) _A	<5	<5	<5	<5	<5	<5	<5	µg/l	5	Calc-As Recd
Aro >C5-C7 (w) _A [#]	34	<1	<1	<1	<1	22	<1	µg/l	1	A-T-022w
Aro >C7-C8 (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Aro >C8-C10 (w) _A	<10	<10	<10	<10	<10	<10	<10	µg/l	5	A-T-055w
Aro >C10-C12 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Aro >C12-C16 (w) _A [#]	8	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Aro >C16-C21 (w) _A [#]	9	<5	<5	5	6	5	11	µg/l	5	A-T-055w
Aro >C21-C35 (w) _A [#]	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-055w
Aro >C35-C44 (w) _A	<5	<5	5	<5	<5	<5	<5	µg/l	5	A-T-055w
Total Aromatics (w) _A	51	<10	<10	<10	<10	27	11	µg/l	10	Calc-As Recd
TPH (Ali & Aro >C5-C44) (w) _A	51	<10	<10	<10	<10	27	11	µg/l	10	Calc-As Recd
BTEX - Benzene (w) _A [#]	34	<1	<1	<1	<1	22	<1	µg/l	1	A-T-022w
BTEX - Toluene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - m & p Xylene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - o Xylene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
MTBE (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w

Envirolab Job Number: 24/05884

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/05884/8							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH505									
Depth to Top	11.20									
Depth To Bottom										
Date Sampled	12-Jun-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
pH (w) [#]	6.90							pH	0.01	A-T-031w
Hardness Total [#]	653							mg/l Ca CO3	4	A-T-049w
Sulphate (w) [#]	221							mg/l	1	A-T-026w
Cyanide (total) (w) [#]	0.278							mg/l	0.005	A-T-042wTCN
Phenols - Total by HPLC (w) _A	<0.01							mg/l	0.01	A-T-050w
DOC - Dissolved Organic Carbon (w) _A [#]	6.5							mg/l	2	A-T-032w
Antimony (dissolved) _A	<1							µg/l	1	A-T-025w
Arsenic (dissolved) _A [#]	6							µg/l	1	A-T-025w
Boron (dissolved) _A [#]	196							µg/l	10	A-T-025w
Barium (dissolved) _A [#]	67							µg/l	1	A-T-025w
Beryllium (dissolved) _A [#]	<1							µg/l	1	A-T-025w
Cadmium (dissolved) _A [#]	<0.2							µg/l	0.2	A-T-025w
Copper (dissolved) _A [#]	<4							µg/l	4	A-T-025w
Chromium (dissolved) _A [#]	<1							µg/l	1	A-T-025w
Chromium (hexavalent) (w) _A [#]	<0.01							mg/l	0.01	A-T-040w
Chromium (trivalent) (w)	<0.01							mg/l	0.01	Calc
Lead (dissolved) _A [#]	<1							µg/l	1	A-T-025w
Mercury (dissolved) _A [#]	<0.1							µg/l	0.1	A-T-025w
Molybdenum (dissolved) _A [#]	<0.5							µg/l	0.5	A-T-025w
Nickel (dissolved) _A [#]	4							µg/l	2	A-T-025w
Selenium (dissolved) _A [#]	<1							µg/l	1	A-T-025w
Vanadium (dissolved) _A [#]	<1							µg/l	1	A-T-025w
Zinc (dissolved) _A [#]	8							µg/l	2	A-T-025w

Envirolab Job Number: 24/05884

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/05884/8							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH505									
Depth to Top	11.20									
Depth To Bottom										
Date Sampled	12-Jun-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
PAH 16MS (w)										
Acenaphthene (w) _A [#]	0.18							µg/l	0.01	A-T-019w
Acenaphthylene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Anthracene (w) _A [#]	0.04							µg/l	0.01	A-T-019w
Benzo(a)anthracene (w) _A [#]	0.01							µg/l	0.01	A-T-019w
Benzo(a)pyrene (w) _A [#]	0.01							µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Chrysene (w) _A [#]	0.02							µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Fluoranthene (w) _A [#]	0.03							µg/l	0.01	A-T-019w
Fluorene (w) _A [#]	0.01							µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Naphthalene (w) _A [#]	0.01							µg/l	0.01	A-T-019w
Phenanthrene (w) _A [#]	0.03							µg/l	0.01	A-T-019w
Pyrene (w) _A [#]	0.05							µg/l	0.01	A-T-019w
Total PAH 16MS (w) _A [#]	0.39							µg/l	0.01	A-T-019w

Envirolab Job Number: 24/05884

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/05884/8									
Client Sample No										
Client Sample ID	RBH505									
Depth to Top	11.20									
Depth To Bottom										
Date Sampled	12-Jun-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
SVOC (excluding PAH-16) (w)										
1,2,4-Trichlorobenzene _A	<1							µg/l	1	A-T-052w
1,2-Dichlorobenzene _A	<1							µg/l	1	A-T-052w
1,3-Dichlorobenzene _A	<1							µg/l	1	A-T-052w
1,4-Dichlorobenzene _A	<1							µg/l	1	A-T-052w
2,4,5-Trichlorophenol _A	<1							µg/l	1	A-T-052w
2,4,6-Trichlorophenol _A	<1							µg/l	1	A-T-052w
2,4-Dichlorophenol _A	<1							µg/l	1	A-T-052w
2,4-Dimethylphenol _A	<1							µg/l	1	A-T-052w
2,4-Dinitrotoluene _A	<1							µg/l	1	A-T-052w
2,6-Dinitrotoluene _A	<1							µg/l	1	A-T-052w
2-Chloronaphthalene _A	<1							µg/l	1	A-T-052w
2-Chlorophenol _A	<1							µg/l	1	A-T-052w
2-Methylnaphthalene _A	<1							µg/l	1	A-T-052w
2-Methylphenol _A	<1							µg/l	1	A-T-052w
2-Nitrophenol _A	<1							µg/l	1	A-T-052w
4-Bromophenyl phenyl ether _A	<1							µg/l	1	A-T-052w
4-Chloro-3-methylphenol _A	<1							µg/l	1	A-T-052w
Bis(2-chloroisopropyl)ether _A	<1							µg/l	1	A-T-052w
3+4-Methylphenol _A	<1							µg/l	1	A-T-052w
4-Nitrophenol _A	<1							µg/l	1	A-T-052w
Bis(2-chloroethyl)ether _A	<1							µg/l	1	A-T-052w
Bis(2-chloroethoxy)methane _A	<1							µg/l	1	A-T-052w
Bis(2-ethylhexyl)phthalate _A	<10							µg/l	10	A-T-052w
Butylbenzyl phthalate _A	<1							µg/l	1	A-T-052w
Carbazole _A	<1							µg/l	1	A-T-052w
Dibenzofuran _A	<1							µg/l	1	A-T-052w
n-Dibutylphthalate _A	<1							µg/l	1	A-T-052w
n-Dioctylphthalate _A	<10							µg/l	10	A-T-052w
n-Nitroso-n-dipropylamine _A	<1							µg/l	1	A-T-052w
Diethyl phthalate _A	<1							µg/l	1	A-T-052w
Dimethyl phthalate _A	<1							µg/l	1	A-T-052w
Hexachlorobutadiene _A	<1							µg/l	1	A-T-052w

Envirolab Job Number: 24/05884/8

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/05884/8							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH505									
Depth to Top	11.20									
Depth To Bottom										
Date Sampled	12-Jun-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
Hexachlorobenzene SVOC _A	<1							µg/l	1	A-T-052w
Pentachlorophenol SVOC _A	<1							µg/l	1	A-T-052w
Phenol _A	<1							µg/l	1	A-T-052w
Hexachloroethane _A	<1							µg/l	1	A-T-052w
Nitrobenzene _A	<1							µg/l	1	A-T-052w
Isophorone _A	<1							µg/l	1	A-T-052w
Perylene _A	<1							µg/l	1	A-T-052w

Envirolab Job Number: 24/05884

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/05884/8									
Client Sample No										
Client Sample ID	RBH505									
Depth to Top	11.20									
Depth To Bottom										
Date Sampled	12-Jun-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
VOC (w)										
Dichlorodifluoromethane _A	<1							µg/l	1	A-T-006w
Chloromethane _A	<10							µg/l	10	A-T-006w
Vinyl Chloride _A [#]	<1							µg/l	1	A-T-006w
Bromomethane _A [#]	<1							µg/l	1	A-T-006w
Chloroethane _A [#]	<1							µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1							µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	<1							µg/l	1	A-T-006w
Dichloromethane _A	<5							µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<1							µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	<1							µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	<1							µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	2							µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5							µg/l	5	A-T-006w
Chloroform _A [#]	<1							µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1							µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2							µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1							µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1							µg/l	1	A-T-006w
Benzene _A [#]	<1							µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	<1							µg/l	1	A-T-006w
Dibromomethane _A [#]	<1							µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1							µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10							µg/l	10	A-T-006w
Trichloroethene _A [#]	<1							µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1							µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1							µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	<1							µg/l	1	A-T-006w
Toluene _A [#]	<1							µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1							µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3							µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1							µg/l	1	A-T-006w
Tetrachloroethene _A	<1							µg/l	1	A-T-006w

Envirolab Job Number: 24/05884

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/05884/8							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH505									
Depth to Top	11.20									
Depth To Bottom										
Date Sampled	12-Jun-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
1,1,1,2-Tetrachloroethane _A	<1							µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1							µg/l	1	A-T-006w
Ethylbenzene _A [#]	<1							µg/l	1	A-T-006w
m & p Xylene _A [#]	<1							µg/l	1	A-T-006w
Bromoform _A [#]	<3							µg/l	3	A-T-006w
Styrene _A [#]	<1							µg/l	1	A-T-006w
1,1,1,2,2-Tetrachloroethane _A	<1							µg/l	1	A-T-006w
o-Xylene _A [#]	<1							µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1							µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1							µg/l	1	A-T-006w
Bromobenzene _A [#]	<1							µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1							µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1							µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1							µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1							µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1							µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1							µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1							µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1							µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1							µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2							µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1							µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1							µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2							µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3							µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3							µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1							µg/l	1	A-T-006w

Envirolab Job Number: 24/05884

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/05884/8									
Client Sample No										
Client Sample ID	RBH505									
Depth to Top	11.20									
Depth To Bottom										
Date Sampled	12-Jun-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
TPH UKCWG (w) with Clean Up										
Ali >C5-C6 (w) _A [#]	<1							µg/l	1	A-T-022w
Ali >C6-C8 (w) _A [#]	<1							µg/l	1	A-T-022w
Ali >C8-C10 (w) _A [#]	<5							µg/l	5	A-T-055w
Ali >C10-C12 (w) _A [#]	<5							µg/l	5	A-T-055w
Ali >C12-C16 (w) _A [#]	<5							µg/l	5	A-T-055w
Ali >C16-C21 (w) _A [#]	<5							µg/l	5	A-T-055w
Ali >C21-C35 (w) _A [#]	<5							µg/l	5	A-T-055w
Ali >C35-C44 (w) _A	<5							µg/l	5	A-T-055w
Total Aliphatics (w) _A	<5							µg/l	5	Calc-As Recd
Aro >C5-C7 (w) _A [#]	1							µg/l	1	A-T-022w
Aro >C7-C8 (w) _A [#]	<1							µg/l	1	A-T-022w
Aro >C8-C10 (w) _A	<10							µg/l	5	A-T-055w
Aro >C10-C12 (w) _A [#]	<5							µg/l	5	A-T-055w
Aro >C12-C16 (w) _A [#]	5							µg/l	5	A-T-055w
Aro >C16-C21 (w) _A [#]	6							µg/l	5	A-T-055w
Aro >C21-C35 (w) _A [#]	<10							µg/l	10	A-T-055w
Aro >C35-C44 (w) _A	<5							µg/l	5	A-T-055w
Total Aromatics (w) _A	12							µg/l	10	Calc-As Recd
TPH (Ali & Aro >C5-C44) (w) _A	12							µg/l	10	Calc-As Recd
BTEX - Benzene (w) _A [#]	1							µg/l	1	A-T-022w
BTEX - Toluene (w) _A [#]	<1							µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w) _A [#]	<1							µg/l	1	A-T-022w
BTEX - m & p Xylene (w) _A [#]	<1							µg/l	1	A-T-022w
BTEX - o Xylene (w) _A [#]	<1							µg/l	1	A-T-022w
MTBE (w) _A [#]	<1							µg/l	1	A-T-022w

Report Notes

General

- This report shall not be reproduced, except in full, without written approval from Envirolab.
- The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
- The results reported herein relate only to the material supplied to the laboratory.
- The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
- Analytical results reflect the quality of the sample at the time of analysis only.
- Opinions and Interpretations expressed are outside our scope of accreditation.
- A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
- If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
- Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript “#”	Accredited to ISO 17025
Superscript “M”	Accredited to MCertS
Superscript “U”	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript “A”	Analysis performed on as-received Sample
Subscript “D”	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript “D” on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript “A”	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
N/A	Not applicable

Asbestos

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
 Stones etc. are not removed from the sample prior to analysis
 Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing, and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs

Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.

Soil Chemical Analysis:

All results are reported as dry weight (<40°C).
 For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
 For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts
 All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any “D” subscripts.

TPH by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.
 Results “with Clean up” indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.
 Where these humic substances have been identified in any IDs from “TPH CWG with clean up” please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: ROCP LIMITED, Commercial Wharf 6 Commercial Street, Castlefield,
Manchester, M15 4PZ

Project: Dantzic Street

Clients Project No: 4328

Project No: 24/05884

Date Received: 13/06/2024 (am)

Cool Box Temperatures (°C): 13.0 - 14.2

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	24/05884/1	24/05884/2	24/05884/3	24/05884/4	24/05884/5	24/05884/6	24/05884/7	24/05884/8
Client Sample No								
Client Sample ID/Depth	LKBH01 13.20m	RBH203 14.90m	RBH305 7.00m	RBH501 13.70m	RBH502 15.80m	RBH503 8.80m	RBH504 10.70m	RBH505 11.20m
Date Sampled	12/06/24	12/06/24	12/06/24	12/06/24	12/06/24	12/06/24	12/06/24	12/06/24
A-T-006w	20/06/2024	20/06/2024	20/06/2024	20/06/2024	20/06/2024	20/06/2024	20/06/2024	20/06/2024
A-T-019w	21/06/2024	21/06/2024	21/06/2024	21/06/2024	21/06/2024	21/06/2024	21/06/2024	21/06/2024
A-T-022w	20/06/2024	20/06/2024	20/06/2024	20/06/2024	20/06/2024	20/06/2024	20/06/2024	20/06/2024
A-T-025w	25/06/2024	25/06/2024	25/06/2024	25/06/2024	25/06/2024	25/06/2024	25/06/2024	25/06/2024
A-T-026w	21/06/2024	21/06/2024	21/06/2024	21/06/2024	21/06/2024	21/06/2024	21/06/2024	21/06/2024
A-T-031w	24/06/2024	24/06/2024	24/06/2024	24/06/2024	24/06/2024	24/06/2024	24/06/2024	24/06/2024
A-T-032w	26/06/2024	26/06/2024	26/06/2024	26/06/2024	26/06/2024	26/06/2024	26/06/2024	26/06/2024
A-T-040w	21/06/2024	21/06/2024	21/06/2024	21/06/2024	21/06/2024	21/06/2024	21/06/2024	21/06/2024
A-T-042wTCN	24/06/2024	24/06/2024	24/06/2024	24/06/2024	25/06/2024	25/06/2024	25/06/2024	25/06/2024
A-T-049w	24/06/2024	24/06/2024	24/06/2024	24/06/2024	24/06/2024	24/06/2024	24/06/2024	24/06/2024
A-T-050w	24/06/2024	24/06/2024	24/06/2024	24/06/2024	24/06/2024	24/06/2024	24/06/2024	24/06/2024
A-T-052w	25/06/2024	25/06/2024	25/06/2024	25/06/2024	25/06/2024	25/06/2024	25/06/2024	25/06/2024
A-T-055w	26/06/2024	26/06/2024	26/06/2024	26/06/2024	26/06/2024	26/06/2024	26/06/2024	26/06/2024
Calc	25/06/2024	25/06/2024	25/06/2024	25/06/2024	25/06/2024	25/06/2024	25/06/2024	25/06/2024
Calc-As Recd	26/06/2024	26/06/2024	26/06/2024	26/06/2024	26/06/2024	26/06/2024	26/06/2024	26/06/2024

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 24/06349
Issue Number: 1
Date: 09 July, 2024

Client: ROCP LIMITED
Commercial Wharf 6 Commercial Street
Castlefield
Manchester
M15 4PZ

Project Manager: Reece McGuinness
Project Name: Dantzie Street
Project Ref: 4328
Order No: PBJ20290
Date Samples Received: 26/06/24
Date Instructions Received: 27/06/24
Date Analysis Completed: 09/07/24

Approved by:



Gemma Berrisford
Deputy Client Services Supervisor

Envirolab Job Number: 24/06349

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/06349/1	24/06349/2	24/06349/3	24/06349/4	24/06349/5	24/06349/6	24/06349/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH503	DEEP RBH505	RBH305	RBH504	RBH501	RBH502 Shallow			
Depth to Top	13.00	8.00	10.50	7.00	10.50	12.50	16.00			
Depth To Bottom										
Date Sampled	25-Jun-24	25-Jun-24	25-Jun-24	25-Jun-24	25-Jun-24	26-Jun-24	26-Jun-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
pH (w) _A [#]	7.11	6.83	6.76	6.78	6.70	7.05	7.08	pH	0.01	A-T-031w
Hardness Total _A [#]	573	600	682	644	720	446	425	mg/l Ca CO ₃	4	A-T-049w
Sulphate (w) _A [#]	207	278	224	287	283	105	190	mg/l	1	A-T-026w
Cyanide (total) (w) _A [#]	0.046	0.042	0.281	<0.005	<0.005	<0.005	0.013	mg/l	0.005	A-T-042wTCN
Phenols - Total by HPLC (w) _A	0.08	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/l	0.01	A-T-050w
DOC - Dissolved Organic Carbon (w) _A [#]	7.7	7.6	6.9	10.1	11.4	4.8	4.7	mg/l	2	A-T-032w
Antimony (dissolved) _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-025w
Arsenic (dissolved) _A [#]	19	6	6	<1	<1	<1	<1	µg/l	1	A-T-025w
Boron (dissolved) _A [#]	146	264	207	404	310	282	209	µg/l	10	A-T-025w
Barium (dissolved) _A [#]	45	129	63	133	69	102	91	µg/l	1	A-T-025w
Beryllium (dissolved) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-025w
Cadmium (dissolved) _A [#]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	µg/l	0.2	A-T-025w
Copper (dissolved) _A [#]	<4	<4	<4	<4	<4	<4	<4	µg/l	4	A-T-025w
Chromium (dissolved) _A [#]	2	1	<1	14	17	11	15	µg/l	1	A-T-025w
Chromium (hexavalent) (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/l	0.01	A-T-040w
Chromium (trivalent) (w)	<0.01	<0.01	<0.01	0.01	0.02	0.01	0.02	mg/l	0.01	Calc
Lead (dissolved) _A [#]	<1	<1	<1	<1	9	<1	<1	µg/l	1	A-T-025w
Mercury (dissolved) _A [#]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	µg/l	0.1	A-T-025w
Molybdenum (dissolved) _A [#]	0.5	0.5	<0.5	2.1	<0.5	<0.5	<0.5	µg/l	0.5	A-T-025w
Nickel (dissolved) _A [#]	<2	5	<2	9	3	<2	<2	µg/l	2	A-T-025w
Selenium (dissolved) _A [#]	<1	<1	<1	3	2	3	3	µg/l	1	A-T-025w
Vanadium (dissolved) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-025w
Zinc (dissolved) _A [#]	14	8	9	29	13	5	5	µg/l	2	A-T-025w

Envirolab Job Number: 24/06349

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/06349/1	24/06349/2	24/06349/3	24/06349/4	24/06349/5	24/06349/6	24/06349/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH503	DEEP RBH505	RBH305	RBH504	RBH501	RBH502 Shallow			
Depth to Top	13.00	8.00	10.50	7.00	10.50	12.50	16.00			
Depth To Bottom										
Date Sampled	25-Jun-24	25-Jun-24	25-Jun-24	25-Jun-24	25-Jun-24	26-Jun-24	26-Jun-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
PAH 16MS (w)										
Acenaphthene (w) _A [#]	0.29	0.11	0.15	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Acenaphthylene (w) _A [#]	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Anthracene (w) _A [#]	0.07	0.05	0.03	<0.01	0.03	<0.01	<0.01	µg/l	0.01	A-T-019w
Benzo(a)anthracene (w) _A [#]	<0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Benzo(a)pyrene (w) _A [#]	<0.01	0.06	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w) _A [#]	<0.01	0.06	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w) _A [#]	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w) _A [#]	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Chrysene (w) _A [#]	<0.01	0.06	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Fluoranthene (w) _A [#]	0.01	0.13	0.01	<0.01	0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Fluorene (w) _A [#]	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w) _A [#]	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Naphthalene (w) _A [#]	0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Phenanthrene (w) _A [#]	<0.01	0.06	0.02	<0.01	0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Pyrene (w) _A [#]	0.02	0.11	0.03	<0.01	0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Total PAH 16MS (w) _A [#]	0.42	0.86	0.24	<0.01	0.06	<0.01	<0.01	µg/l	0.01	A-T-019w

Envirolab Job Number: 24/06349

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/06349/1	24/06349/2	24/06349/3	24/06349/4	24/06349/5	24/06349/6	24/06349/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH503	DEEP RBH505	RBH305	RBH504	RBH501	RBH502 Shallow			
Depth to Top	13.00	8.00	10.50	7.00	10.50	12.50	16.00			
Depth To Bottom										
Date Sampled	25-Jun-24	25-Jun-24	25-Jun-24	25-Jun-24	25-Jun-24	26-Jun-24	26-Jun-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
SVOC (excluding PAH-16) (w)										
1,2,4-Trichlorobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
1,2-Dichlorobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
1,3-Dichlorobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
1,4-Dichlorobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4,5-Trichlorophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4,6-Trichlorophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4-Dichlorophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4-Dimethylphenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4-Dinitrotoluene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,6-Dinitrotoluene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Chloronaphthalene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Chlorophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Methylnaphthalene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Methylphenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Nitrophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
4-Bromophenyl phenyl ether _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
4-Chloro-3-methylphenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Bis(2-chloroisopropyl)ether _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
3+4-Methylphenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
4-Nitrophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Bis(2-chloroethyl)ether _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Bis(2-chloroethoxy)methane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Bis(2-ethylhexyl)phthalate _A	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-052w
Butylbenzyl phthalate _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Carbazole _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Dibenzofuran _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
n-Dibutylphthalate _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
n-Dioctylphthalate _A	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-052w
n-Nitroso-n-dipropylamine _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Diethyl phthalate _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Dimethyl phthalate _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Hexachlorobutadiene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w

Envirolab Job Number: 24/06349

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/06349/1	24/06349/2	24/06349/3	24/06349/4	24/06349/5	24/06349/6	24/06349/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH503	DEEP RBH505	RBH305	RBH504	RBH501	RBH502 Shallow			
Depth to Top	13.00	8.00	10.50	7.00	10.50	12.50	16.00			
Depth To Bottom										
Date Sampled	25-Jun-24	25-Jun-24	25-Jun-24	25-Jun-24	25-Jun-24	26-Jun-24	26-Jun-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Hexachlorobenzene SVOC _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Pentachlorophenol SVOC _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Phenol _A	8	4	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Hexachloroethane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Nitrobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Isophorone _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Perylene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w

Envirolab Job Number: 24/06349

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/06349/1	24/06349/2	24/06349/3	24/06349/4	24/06349/5	24/06349/6	24/06349/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH503	DEEP RBH505	RBH305	RBH504	RBH501	RBH502 Shallow			
Depth to Top	13.00	8.00	10.50	7.00	10.50	12.50	16.00			
Depth To Bottom										
Date Sampled	25-Jun-24	25-Jun-24	25-Jun-24	25-Jun-24	25-Jun-24	26-Jun-24	26-Jun-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
VOC (w)										
Dichlorodifluoromethane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Chloromethane _A	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-006w
Vinyl Chloride _A [#]	25	56	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromomethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Chloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	242	22	<1	<1	2	<1	<1	µg/l	1	A-T-006w
Dichloromethane _A	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	309	72	<1	<1	149	5	<1	µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-006w
Chloroform _A [#]	<1	<1	<1	<1	11	95	103	µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Benzene _A [#]	163	24	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	<1	<1	<1	<1	15	87	131	µg/l	1	A-T-006w
Dibromomethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-006w
Trichloroethene _A [#]	<1	<1	<1	<1	28	76	6	µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	<1	<1	<1	<1	1	<1	<1	µg/l	1	A-T-006w
Toluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Tetrachloroethene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w

Envirolab Job Number: 24/06349

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/06349/1	24/06349/2	24/06349/3	24/06349/4	24/06349/5	24/06349/6	24/06349/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH503	DEEP RBH505	RBH305	RBH504	RBH501	RBH502 Shallow			
Depth to Top	13.00	8.00	10.50	7.00	10.50	12.50	16.00			
Depth To Bottom										
Date Sampled	25-Jun-24	25-Jun-24	25-Jun-24	25-Jun-24	25-Jun-24	26-Jun-24	26-Jun-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
1,1,1,2-Tetrachloroethane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Ethylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
m & p Xylene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromoform _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
Styrene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1,1,2-Tetrachloroethane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
o-Xylene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w

Envirolab Job Number: 24/06349

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/06349/1	24/06349/2	24/06349/3	24/06349/4	24/06349/5	24/06349/6	24/06349/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH503	DEEP RBH505	RBH305	RBH504	RBH501	RBH502 Shallow			
Depth to Top	13.00	8.00	10.50	7.00	10.50	12.50	16.00			
Depth To Bottom										
Date Sampled	25-Jun-24	25-Jun-24	25-Jun-24	25-Jun-24	25-Jun-24	26-Jun-24	26-Jun-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
TPH UKCWG (w) with Clean Up										
Ali >C5-C6 (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Ali >C6-C8 (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Ali >C8-C10 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C10-C12 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C12-C16 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C16-C21 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C21-C35 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C35-C44 (w) _A	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Total Aliphatics (w) _A	<5	<5	<5	<5	<5	<5	<5	µg/l	5	Calc-As Recd
Aro >C5-C7 (w) _A [#]	89	21	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Aro >C7-C8 (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Aro >C8-C10 (w) _A	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Aro >C10-C12 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Aro >C12-C16 (w) _A [#]	6	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Aro >C16-C21 (w) _A [#]	7	<5	<5	<5	7	<5	<5	µg/l	5	A-T-055w
Aro >C21-C35 (w) _A [#]	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-055w
Aro >C35-C44 (w) _A	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Total Aromatics (w) _A	102	21	<10	<10	<10	<10	<10	µg/l	10	Calc-As Recd
TPH (Ali & Aro >C5-C44) (w) _A	102	21	<10	<10	<10	<10	<10	µg/l	10	Calc-As Recd
BTEX - Benzene (w) _A [#]	89	21	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - Toluene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - m & p Xylene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - o Xylene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
MTBE (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w

Envirolab Job Number: 24/06349

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/06349/8							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH203									
Depth to Top	14.50									
Depth To Bottom										
Date Sampled	26-Jun-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
pH (w) [#]	6.91							pH	0.01	A-T-031w
Hardness Total [#]	361							mg/l Ca CO3	4	A-T-049w
Sulphate (w) [#]	82							mg/l	1	A-T-026w
Cyanide (total) (w) [#]	<0.005							mg/l	0.005	A-T-042wTCN
Phenols - Total by HPLC (w) _A	<0.01							mg/l	0.01	A-T-050w
DOC - Dissolved Organic Carbon (w) _A [#]	3.7							mg/l	2	A-T-032w
Antimony (dissolved) _A	<1							µg/l	1	A-T-025w
Arsenic (dissolved) _A [#]	<1							µg/l	1	A-T-025w
Boron (dissolved) _A [#]	239							µg/l	10	A-T-025w
Barium (dissolved) _A [#]	61							µg/l	1	A-T-025w
Beryllium (dissolved) _A [#]	<1							µg/l	1	A-T-025w
Cadmium (dissolved) _A [#]	<0.2							µg/l	0.2	A-T-025w
Copper (dissolved) _A [#]	<4							µg/l	4	A-T-025w
Chromium (dissolved) _A [#]	2							µg/l	1	A-T-025w
Chromium (hexavalent) (w) _A [#]	<0.01							mg/l	0.01	A-T-040w
Chromium (trivalent) (w)	<0.01							mg/l	0.01	Calc
Lead (dissolved) _A [#]	<1							µg/l	1	A-T-025w
Mercury (dissolved) _A [#]	<0.1							µg/l	0.1	A-T-025w
Molybdenum (dissolved) _A [#]	<0.5							µg/l	0.5	A-T-025w
Nickel (dissolved) _A [#]	<2							µg/l	2	A-T-025w
Selenium (dissolved) _A [#]	3							µg/l	1	A-T-025w
Vanadium (dissolved) _A [#]	<1							µg/l	1	A-T-025w
Zinc (dissolved) _A [#]	2							µg/l	2	A-T-025w

Envirolab Job Number: 24/06349/8

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/06349/8									
Client Sample No										
Client Sample ID	RBH203									
Depth to Top	14.50									
Depth To Bottom										
Date Sampled	26-Jun-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
PAH 16MS (w)										
Acenaphthene (w) _A [#]	0.01							µg/l	0.01	A-T-019w
Acenaphthylene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Anthracene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Benzo(a)anthracene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Benzo(a)pyrene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Chrysene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Fluoranthene (w) _A [#]	0.04							µg/l	0.01	A-T-019w
Fluorene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Naphthalene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Phenanthrene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Pyrene (w) _A [#]	0.09							µg/l	0.01	A-T-019w
Total PAH 16MS (w) _A [#]	0.14							µg/l	0.01	A-T-019w

Envirolab Job Number: 24/06349

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/06349/8									
Client Sample No										
Client Sample ID	RBH203									
Depth to Top	14.50									
Depth To Bottom										
Date Sampled	26-Jun-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
SVOC (excluding PAH-16) (w)										
1,2,4-Trichlorobenzene _A	<1							µg/l	1	A-T-052w
1,2-Dichlorobenzene _A	<1							µg/l	1	A-T-052w
1,3-Dichlorobenzene _A	<1							µg/l	1	A-T-052w
1,4-Dichlorobenzene _A	<1							µg/l	1	A-T-052w
2,4,5-Trichlorophenol _A	<1							µg/l	1	A-T-052w
2,4,6-Trichlorophenol _A	<1							µg/l	1	A-T-052w
2,4-Dichlorophenol _A	<1							µg/l	1	A-T-052w
2,4-Dimethylphenol _A	<1							µg/l	1	A-T-052w
2,4-Dinitrotoluene _A	<1							µg/l	1	A-T-052w
2,6-Dinitrotoluene _A	<1							µg/l	1	A-T-052w
2-Chloronaphthalene _A	<1							µg/l	1	A-T-052w
2-Chlorophenol _A	<1							µg/l	1	A-T-052w
2-Methylnaphthalene _A	<1							µg/l	1	A-T-052w
2-Methylphenol _A	<1							µg/l	1	A-T-052w
2-Nitrophenol _A	<1							µg/l	1	A-T-052w
4-Bromophenyl phenyl ether _A	<1							µg/l	1	A-T-052w
4-Chloro-3-methylphenol _A	<1							µg/l	1	A-T-052w
Bis(2-chloroisopropyl)ether _A	<1							µg/l	1	A-T-052w
3+4-Methylphenol _A	<1							µg/l	1	A-T-052w
4-Nitrophenol _A	<1							µg/l	1	A-T-052w
Bis(2-chloroethyl)ether _A	<1							µg/l	1	A-T-052w
Bis(2-chloroethoxy)methane _A	<1							µg/l	1	A-T-052w
Bis(2-ethylhexyl)phthalate _A	<10							µg/l	10	A-T-052w
Butylbenzyl phthalate _A	<1							µg/l	1	A-T-052w
Carbazole _A	<1							µg/l	1	A-T-052w
Dibenzofuran _A	<1							µg/l	1	A-T-052w
n-Dibutylphthalate _A	<1							µg/l	1	A-T-052w
n-Dioctylphthalate _A	<10							µg/l	10	A-T-052w
n-Nitroso-n-dipropylamine _A	<1							µg/l	1	A-T-052w
Diethyl phthalate _A	<1							µg/l	1	A-T-052w
Dimethyl phthalate _A	<1							µg/l	1	A-T-052w
Hexachlorobutadiene _A	<1							µg/l	1	A-T-052w

Envirolab Job Number: 24/06349/8

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/06349/8							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH203									
Depth to Top	14.50									
Depth To Bottom										
Date Sampled	26-Jun-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
Hexachlorobenzene SVOC _A	<1							µg/l	1	A-T-052w
Pentachlorophenol SVOC _A	<1							µg/l	1	A-T-052w
Phenol _A	<1							µg/l	1	A-T-052w
Hexachloroethane _A	<1							µg/l	1	A-T-052w
Nitrobenzene _A	<1							µg/l	1	A-T-052w
Isophorone _A	<1							µg/l	1	A-T-052w
Perylene _A	<1							µg/l	1	A-T-052w

Envirolab Job Number: 24/06349

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/06349/8									
Client Sample No										
Client Sample ID	RBH203									
Depth to Top	14.50									
Depth To Bottom										
Date Sampled	26-Jun-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
VOC (w)										
Dichlorodifluoromethane _A	<1							µg/l	1	A-T-006w
Chloromethane _A	<10							µg/l	10	A-T-006w
Vinyl Chloride _A [#]	<1							µg/l	1	A-T-006w
Bromomethane _A [#]	<1							µg/l	1	A-T-006w
Chloroethane _A [#]	<1							µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1							µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	<1							µg/l	1	A-T-006w
Dichloromethane _A	<5							µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<1							µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	<1							µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	<1							µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	1							µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5							µg/l	5	A-T-006w
Chloroform _A [#]	43							µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1							µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2							µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1							µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1							µg/l	1	A-T-006w
Benzene _A [#]	<1							µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	56							µg/l	1	A-T-006w
Dibromomethane _A [#]	<1							µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1							µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10							µg/l	10	A-T-006w
Trichloroethene _A [#]	60							µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1							µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1							µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	<1							µg/l	1	A-T-006w
Toluene _A [#]	<1							µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1							µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3							µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1							µg/l	1	A-T-006w
Tetrachloroethene _A	<1							µg/l	1	A-T-006w

Envirolab Job Number: 24/06349/8

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/06349/8									
Client Sample No										
Client Sample ID	RBH203									
Depth to Top	14.50									
Depth To Bottom										
Date Sampled	26-Jun-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
								Units	Limit of Detection	Method ref
1,1,1,2-Tetrachloroethane _A	<1							µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1							µg/l	1	A-T-006w
Ethylbenzene _A [#]	<1							µg/l	1	A-T-006w
m & p Xylene _A [#]	<1							µg/l	1	A-T-006w
Bromoform _A [#]	<3							µg/l	3	A-T-006w
Styrene _A [#]	<1							µg/l	1	A-T-006w
1,1,1,2,2-Tetrachloroethane _A	<1							µg/l	1	A-T-006w
o-Xylene _A [#]	<1							µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1							µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1							µg/l	1	A-T-006w
Bromobenzene _A [#]	<1							µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1							µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1							µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1							µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1							µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1							µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1							µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1							µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1							µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1							µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2							µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1							µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1							µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2							µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3							µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3							µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1							µg/l	1	A-T-006w

Envirolab Job Number: 24/06349

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/06349/8									
Client Sample No										
Client Sample ID	RBH203									
Depth to Top	14.50									
Depth To Bottom										
Date Sampled	26-Jun-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
TPH UKCWG (w) with Clean Up										
Ali >C5-C6 (w) _A [#]	<1							µg/l	1	A-T-022w
Ali >C6-C8 (w) _A [#]	<1							µg/l	1	A-T-022w
Ali >C8-C10 (w) _A [#]	<5							µg/l	5	A-T-055w
Ali >C10-C12 (w) _A [#]	<5							µg/l	5	A-T-055w
Ali >C12-C16 (w) _A [#]	<5							µg/l	5	A-T-055w
Ali >C16-C21 (w) _A [#]	<5							µg/l	5	A-T-055w
Ali >C21-C35 (w) _A [#]	<5							µg/l	5	A-T-055w
Ali >C35-C44 (w) _A	<5							µg/l	5	A-T-055w
Total Aliphatics (w) _A	<5							µg/l	5	Calc-As Recd
Aro >C5-C7 (w) _A [#]	<1							µg/l	1	A-T-022w
Aro >C7-C8 (w) _A [#]	<1							µg/l	1	A-T-022w
Aro >C8-C10 (w) _A	<5							µg/l	5	A-T-055w
Aro >C10-C12 (w) _A [#]	<5							µg/l	5	A-T-055w
Aro >C12-C16 (w) _A [#]	<5							µg/l	5	A-T-055w
Aro >C16-C21 (w) _A [#]	<5							µg/l	5	A-T-055w
Aro >C21-C35 (w) _A [#]	<10							µg/l	10	A-T-055w
Aro >C35-C44 (w) _A	<5							µg/l	5	A-T-055w
Total Aromatics (w) _A	<10							µg/l	10	Calc-As Recd
TPH (Ali & Aro >C5-C44) (w) _A	<10							µg/l	10	Calc-As Recd
BTEX - Benzene (w) _A [#]	<1							µg/l	1	A-T-022w
BTEX - Toluene (w) _A [#]	<1							µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w) _A [#]	<1							µg/l	1	A-T-022w
BTEX - m & p Xylene (w) _A [#]	<1							µg/l	1	A-T-022w
BTEX - o Xylene (w) _A [#]	<1							µg/l	1	A-T-022w
MTBE (w) _A [#]	<1							µg/l	1	A-T-022w

Report Notes

General

- This report shall not be reproduced, except in full, without written approval from Envirolab.
- The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
- The results reported herein relate only to the material supplied to the laboratory.
- The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
- Analytical results reflect the quality of the sample at the time of analysis only.
- Opinions and Interpretations expressed are outside our scope of accreditation.
- A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
- If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
- Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript “#”	Accredited to ISO 17025
Superscript “M”	Accredited to MCertS
Superscript “U”	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript “A”	Analysis performed on as-received Sample
Subscript “D”	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript “D” on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript “A”	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis

“Trace Asbestos Identified” will be reported if there is not enough present to verify the type.

Quantification: Generally a 2 stage process including visual identification, hand picking and weighing, and fibre counting. Where ACMs are found a percentage asbestos is assigned to each with reference to ‘HSG264, Asbestos: The survey guide’ and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres). “TRACE” will be reported as a quantification result.

PLEASE INFORM THE LABORATORY IF YOU WOULD LIKE THE STAGE 3 SEDIMENTATION PROCESS CARRIED OUT. Note this will be subcontracted.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs

Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.

Soil Chemical Analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as ‘% stones >10mm’.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any “D” subscripts.

TPH by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only. Results “with Clean up” indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.

Where these humic substances have been identified in any IDs from “TPH CWG with clean up” please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: ROCP LIMITED, Commercial Wharf 6 Commercial Street, Castlefield,
Manchester, M15 4PZ

Project: Dantzic Street

Clients Project No: 4328

Project No: 24/06349

Date Received: 27/06/2024 (am)

Cool Box Temperatures (°C): 19.5, 18.3, 19.0

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	24/06349/1	24/06349/2	24/06349/3	24/06349/4	24/06349/5	24/06349/6	24/06349/7	24/06349/8
Client Sample No								
Client Sample ID/Depth	LKBH01 13.00m	RBH503 8.00m	DEEP RBH505 10.50m	RBH305 7.00m	RBH504 10.50m	RBH501 12.50m	RBH502 Shallow 16.00m	RBH203 14.50m
Date Sampled	25/06/24	25/06/24	25/06/24	25/06/24	25/06/24	26/06/24	26/06/24	26/06/24
A-T-006w	03/07/2024	03/07/2024	03/07/2024	03/07/2024	03/07/2024	03/07/2024	03/07/2024	03/07/2024
A-T-019w	02/07/2024	02/07/2024	02/07/2024	02/07/2024	02/07/2024	02/07/2024	02/07/2024	02/07/2024
A-T-022w	02/07/2024	02/07/2024	02/07/2024	02/07/2024	02/07/2024	02/07/2024	02/07/2024	02/07/2024
A-T-025w	04/07/2024	04/07/2024	04/07/2024	04/07/2024	04/07/2024	04/07/2024	04/07/2024	04/07/2024
A-T-026w	05/07/2024	05/07/2024	05/07/2024	05/07/2024	05/07/2024	05/07/2024	05/07/2024	05/07/2024
A-T-031w	03/07/2024	03/07/2024	03/07/2024	03/07/2024	03/07/2024	03/07/2024	03/07/2024	03/07/2024
A-T-032w	08/07/2024	08/07/2024	08/07/2024	08/07/2024	08/07/2024	08/07/2024	08/07/2024	08/07/2024
A-T-040w	05/07/2024	05/07/2024	05/07/2024	05/07/2024	05/07/2024	05/07/2024	05/07/2024	05/07/2024
A-T-042wTCN	03/07/2024	03/07/2024	03/07/2024	03/07/2024	03/07/2024	03/07/2024	03/07/2024	03/07/2024
A-T-049w	09/07/2024	09/07/2024	09/07/2024	09/07/2024	09/07/2024	09/07/2024	09/07/2024	09/07/2024
A-T-050w	08/07/2024	08/07/2024	08/07/2024	08/07/2024	08/07/2024	08/07/2024	08/07/2024	08/07/2024
A-T-052w	02/07/2024	02/07/2024	02/07/2024	02/07/2024	02/07/2024	02/07/2024	02/07/2024	02/07/2024
A-T-055w	04/07/2024	04/07/2024	04/07/2024	04/07/2024	04/07/2024	04/07/2024	04/07/2024	04/07/2024
Calc	05/07/2024	05/07/2024	05/07/2024	05/07/2024	05/07/2024	05/07/2024	05/07/2024	05/07/2024
Calc-As Recd	04/07/2024	04/07/2024	04/07/2024	04/07/2024	04/07/2024	04/07/2024	04/07/2024	04/07/2024

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 24/06729
Issue Number: 1
Date: 25 July, 2024

Client: ROCP LIMITED
Commercial Wharf 6 Commercial Street
Castlefield
Manchester
M15 4PZ

Project Manager: Jon Smith/Mike Newman/Reece McGuinness
Project Name: Dantzic Street
Project Ref: 4328
Order No: PBJ20281
Date Samples Received: 09/07/24
Date Instructions Received: 10/07/24
Date Analysis Completed: 25/07/24

Approved by:



Gemma Berrisford
Deputy Client Services Supervisor

Envirolab Job Number: 24/06729

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/06729/1	24/06729/2	24/06729/3	24/06729/4	24/06729/5			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH505(S)	RBH502(S)	RBH305	RBH503					
Depth to Top	13.20	11.20	15.80	7.00	9.00					
Depth To Bottom										
Date Sampled	09-Jul-24	09-Jul-24	09-Jul-24	09-Jul-24	09-Jul-24					
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW					
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A					
pH (w) _A [#]	7.27	6.81	7.01	6.78	6.77			pH	0.01	A-T-031w
Hardness Total _A [#]	620	661	413	307	586			mg/l Ca CO ₃	4	A-T-049w
Sulphate (w) _A [#]	200	207	219	163	295			mg/l	1	A-T-026w
Cyanide (total) (w) _A [#]	0.052	0.285	0.012	<0.005	0.056			mg/l	0.005	A-T-042wTCN
Phenols - Total by HPLC (w) _A	0.02	<0.02	<0.01	<0.01	0.01			mg/l	0.01	A-T-050w
DOC - Dissolved Organic Carbon (w) _A [#]	8.2	6.9	4.3	9.3	7.9			mg/l	2	A-T-032w
Antimony (dissolved) _A	<1	<1	<1	<1	<1			µg/l	1	A-T-025w
Arsenic (dissolved) _A [#]	19	6	<1	<1	6			µg/l	1	A-T-025w
Boron (dissolved) _A [#]	107	177	188	430	233			µg/l	10	A-T-025w
Barium (dissolved) _A [#]	47	68	104	85	123			µg/l	1	A-T-025w
Beryllium (dissolved) _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-025w
Cadmium (dissolved) _A [#]	<0.2	<0.2	<0.2	<0.2	<0.2			µg/l	0.2	A-T-025w
Copper (dissolved) _A [#]	<4	<4	<4	4	<4			µg/l	4	A-T-025w
Chromium (dissolved) _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-025w
Chromium (hexavalent) (w) _A [#]	<0.02	<0.01	<0.01	<0.01	<0.01			mg/l	0.01	A-T-040w
Chromium (trivalent) (w)	<0.02	<0.01	<0.01	<0.01	<0.01			mg/l	0.01	Calc
Lead (dissolved) _A [#]	<1	<1	2	1	<1			µg/l	1	A-T-025w
Mercury (dissolved) _A [#]	<0.1	<0.1	<0.1	<0.1	<0.1			µg/l	0.1	A-T-025w
Molybdenum (dissolved) _A [#]	<0.5	<0.5	<0.5	1.6	<0.5			µg/l	0.5	A-T-025w
Nickel (dissolved) _A [#]	3	2	<2	3	9			µg/l	2	A-T-025w
Selenium (dissolved) _A [#]	<1	<1	3	3	<1			µg/l	1	A-T-025w
Vanadium (dissolved) _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-025w
Zinc (dissolved) _A [#]	33	14	13	18	9			µg/l	2	A-T-025w

Envirolab Job Number: 24/06729

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/06729/1	24/06729/2	24/06729/3	24/06729/4	24/06729/5			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH505(S)	RBH502(S)	RBH305	RBH503					
Depth to Top	13.20	11.20	15.80	7.00	9.00					
Depth To Bottom										
Date Sampled	09-Jul-24	09-Jul-24	09-Jul-24	09-Jul-24	09-Jul-24					
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW					
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A					
PAH 16MS (w)										
Acenaphthene (w) _A [#]	0.31	0.21	<0.01	<0.01	0.24			µg/l	0.01	A-T-019w
Acenaphthylene (w) _A [#]	0.02 ^U	<0.01 ^U	<0.01 ^U	<0.01 ^U	0.01 ^U			µg/l	0.01	A-T-019w
Anthracene (w) _A [#]	0.09	0.05	<0.01	<0.01	0.08			µg/l	0.01	A-T-019w
Benzo(a)anthracene (w) _A [#]	0.01	0.01	<0.01	<0.01	0.14			µg/l	0.01	A-T-019w
Benzo(a)pyrene (w) _A [#]	0.01	0.02	<0.01	<0.01	0.16			µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w) _A [#]	0.01	0.02	<0.01	<0.01	0.21			µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w) _A [#]	0.01	0.01	<0.01	<0.01	0.14			µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	0.08			µg/l	0.01	A-T-019w
Chrysene (w) _A [#]	0.01	0.01	<0.01	<0.01	0.18			µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	0.02			µg/l	0.01	A-T-019w
Fluoranthene (w) _A [#]	0.03	0.03	<0.01	0.01	0.40			µg/l	0.01	A-T-019w
Fluorene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	0.04			µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	0.13			µg/l	0.01	A-T-019w
Naphthalene (w) _A [#]	0.02	0.02	<0.01	<0.01	0.06			µg/l	0.01	A-T-019w
Phenanthrene (w) _A [#]	0.02	0.03	<0.01	<0.01	0.17			µg/l	0.01	A-T-019w
Pyrene (w) _A [#]	0.04	0.06	<0.01	0.01	0.36			µg/l	0.01	A-T-019w
Total PAH 16MS (w) _A [#]	0.58	0.47	<0.01	0.02	2.42			µg/l	0.01	A-T-019w

Envirolab Job Number: 24/06729

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/06729/1	24/06729/2	24/06729/3	24/06729/4	24/06729/5			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH505(S)	RBH502(S)	RBH305	RBH503					
Depth to Top	13.20	11.20	15.80	7.00	9.00					
Depth To Bottom										
Date Sampled	09-Jul-24	09-Jul-24	09-Jul-24	09-Jul-24	09-Jul-24					
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW					
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A					
SVOC (excluding PAH-16) (w)										
1,2,4-Trichlorobenzene _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
1,2-Dichlorobenzene _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
1,3-Dichlorobenzene _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
1,4-Dichlorobenzene _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
2,4,5-Trichlorophenol _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
2,4,6-Trichlorophenol _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
2,4-Dichlorophenol _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
2,4-Dimethylphenol _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
2,4-Dinitrotoluene _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
2,6-Dinitrotoluene _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
2-Chloronaphthalene _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
2-Chlorophenol _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
2-Methylnaphthalene _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
2-Methylphenol _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
2-Nitrophenol _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
4-Bromophenyl phenyl ether _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
4-Chloro-3-methylphenol _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
Bis(2-chloroisopropyl)ether _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
3+4-Methylphenol _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
4-Nitrophenol _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
Bis(2-chloroethyl)ether _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
Bis(2-chloroethoxy)methane _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
Bis(2-ethylhexyl)phthalate _A	<10	<10	<10	<10	<10			µg/l	10	A-T-052w
Butylbenzyl phthalate _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
Carbazole _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
Dibenzofuran _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
n-Dibutylphthalate _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
n-Dioctylphthalate _A	<10	<10	<10	<10	<10			µg/l	10	A-T-052w
n-Nitroso-n-dipropylamine _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
Diethyl phthalate _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
Dimethyl phthalate _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
Hexachlorobutadiene _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w

Envirolab Job Number: 24/06729

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/06729/1	24/06729/2	24/06729/3	24/06729/4	24/06729/5			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH505(S)	RBH502(S)	RBH305	RBH503					
Depth to Top	13.20	11.20	15.80	7.00	9.00					
Depth To Bottom										
Date Sampled	09-Jul-24	09-Jul-24	09-Jul-24	09-Jul-24	09-Jul-24					
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW					
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A					
Hexachlorobenzene SVOC _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
Pentachlorophenol SVOC _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
Phenol _A	17	<1	<1	<1	2			µg/l	1	A-T-052w
Hexachloroethane _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
Nitrobenzene _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
Isophorone _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w
Perylene _A	<1	<1	<1	<1	<1			µg/l	1	A-T-052w

Envirolab Job Number: 24/06729

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/06729/1	24/06729/2	24/06729/3	24/06729/4	24/06729/5			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH505(S)	RBH502(S)	RBH305	RBH503					
Depth to Top	13.20	11.20	15.80	7.00	9.00					
Depth To Bottom										
Date Sampled	09-Jul-24	09-Jul-24	09-Jul-24	09-Jul-24	09-Jul-24					
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW					
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A					
VOC (w)										
Dichlorodifluoromethane _A	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Chloromethane _A	<10	<10	<10	<10	<10			µg/l	10	A-T-006w
Vinyl Chloride _A [#]	27	<1	<1	<1	56			µg/l	1	A-T-006w
Bromomethane _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Chloroethane _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	284	1	<1	<1	54			µg/l	1	A-T-006w
Dichloromethane _A	<5	<5	<5	<5	<5			µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	336	<1	1	<1	99			µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5	<5	<5	<5	<5			µg/l	5	A-T-006w
Chloroform _A [#]	<1	<1	98	<1	<1			µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2	<2	<2	<2	<2			µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Benzene _A [#]	287	2	<1	<1	24			µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	<1	<1	191	<1	<1			µg/l	1	A-T-006w
Dibromomethane _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10	<10	<10	<10	<10			µg/l	10	A-T-006w
Trichloroethene _A [#]	<1	<1	7	<1	<1			µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Toluene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3	<3	<3	<3	<3			µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Tetrachloroethene _A	<1	<1	<1	<1	<1			µg/l	1	A-T-006w

Envirolab Job Number: 24/06729

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/06729/1	24/06729/2	24/06729/3	24/06729/4	24/06729/5			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH505(S)	RBH502(S)	RBH305	RBH503					
Depth to Top	13.20	11.20	15.80	7.00	9.00					
Depth To Bottom										
Date Sampled	09-Jul-24	09-Jul-24	09-Jul-24	09-Jul-24	09-Jul-24					
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW					
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A					
1,1,1,2-Tetrachloroethane _A	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Ethylbenzene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
m & p Xylene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Bromoform _A [#]	<3	<3	<3	<3	<3			µg/l	3	A-T-006w
Styrene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,1,2,2-Tetrachloroethane _A	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
o-Xylene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
Bromobenzene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2	<2	<2	<2	<2			µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2	<2	<2	<2	<2			µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3	<3	<3	<3	<3			µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3	<3	<3	<3	<3			µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-006w

Envirolab Job Number: 24/06729

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/06729/1	24/06729/2	24/06729/3	24/06729/4	24/06729/5			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH505(S)	RBH502(S)	RBH305	RBH503					
Depth to Top	13.20	11.20	15.80	7.00	9.00					
Depth To Bottom										
Date Sampled	09-Jul-24	09-Jul-24	09-Jul-24	09-Jul-24	09-Jul-24					
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW					
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A					
TPH UKCWG (w) with Clean Up										
Ali >C5-C6 (w) _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-022w
Ali >C6-C8 (w) _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-022w
Ali >C8-C10 (w) _A [#]	<5	<5	<5	<5	<5			µg/l	5	A-T-055w
Ali >C10-C12 (w) _A [#]	<5	<5	<5	<5	<5			µg/l	5	A-T-055w
Ali >C12-C16 (w) _A [#]	<5	<5	<5	<5	<5			µg/l	5	A-T-055w
Ali >C16-C21 (w) _A [#]	<5	<5	<5	<5	<5			µg/l	5	A-T-055w
Ali >C21-C35 (w) _A [#]	17	<5	<5	<5	<5			µg/l	5	A-T-055w
Ali >C35-C44 (w) _A	<5	<5	<5	<5	<5			µg/l	5	A-T-055w
Total Aliphatics (w) _A	17	<5	<5	<5	<5			µg/l	5	Calc-As Recd
Aro >C5-C7 (w) _A [#]	257	2	<1	<1	22			µg/l	1	A-T-022w
Aro >C7-C8 (w) _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-022w
Aro >C8-C10 (w) _A	<5	<5	<5	<5	<5			µg/l	5	A-T-055w
Aro >C10-C12 (w) _A [#]	<5	<5	<5	<5	<5			µg/l	5	A-T-055w
Aro >C12-C16 (w) _A [#]	8	<5	<5	<5	<5			µg/l	5	A-T-055w
Aro >C16-C21 (w) _A [#]	10	<6	<5	<5	<7			µg/l	5	A-T-055w
Aro >C21-C35 (w) _A [#]	<10	<10	<10	<10	<10			µg/l	10	A-T-055w
Aro >C35-C44 (w) _A	<5	<5	<5	<5	<5			µg/l	5	A-T-055w
Total Aromatics (w) _A	275	<10	<10	<10	22			µg/l	10	Calc-As Recd
TPH (Ali & Aro >C5-C44) (w) _A	292	<10	<10	<10	22			µg/l	10	Calc-As Recd
BTEX - Benzene (w) _A [#]	257	2	<1	<1	22			µg/l	1	A-T-022w
BTEX - Toluene (w) _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w) _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-022w
BTEX - m & p Xylene (w) _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-022w
BTEX - o Xylene (w) _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-022w
MTBE (w) _A [#]	<1	<1	<1	<1	<1			µg/l	1	A-T-022w

Report Notes

General

- This report shall not be reproduced, except in full, without written approval from Envirolab.
- The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
- The results reported herein relate only to the material supplied to the laboratory.
- The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
- Analytical results reflect the quality of the sample at the time of analysis only.
- Opinions and Interpretations expressed are outside our scope of accreditation.
- A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
- If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
- Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript “#”	Accredited to ISO 17025
Superscript “M”	Accredited to MCertS
Superscript “U”	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript “A”	Analysis performed on as-received Sample
Subscript “D”	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript “D” on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript “A”	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis

“Trace Asbestos Identified” will be reported if there is not enough present to verify the type.

Quantification: Generally a 2 stage process including visual identification, hand picking and weighing, and fibre counting. Where ACMs are found a percentage asbestos is assigned to each with reference to ‘HSG264, Asbestos: The survey guide’ and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres). “TRACE” will be reported as a quantification result.

PLEASE INFORM THE LABORATORY IF YOU WOULD LIKE THE STAGE 3 SEDIMENTATION PROCESS CARRIED OUT. Note this will be subcontracted.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs

Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.

Soil Chemical Analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as ‘% stones >10mm’.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any “D” subscripts.

TPH by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only. Results “with Clean up” indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.

Where these humic substances have been identified in any IDs from “TPH CWG with clean up” please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: ROCP LIMITED, Commercial Wharf 6 Commercial Street, Castlefield,
Manchester, M15 4PZ

Project: Dantzic Street

Clients Project No: 4328

Project No: 24/06729

Date Received: 10/07/2024 (am)

Cool Box Temperatures (°C): 15.3 & 15.5

Lab Sample ID	24/06729/1	24/06729/2	24/06729/3	24/06729/4	24/06729/5
Client Sample No					
Client Sample ID/Depth	LKBH01 13.20m	RBH505(S) 11.20m	RBH502(S) 15.80m	RBH305 7.00m	RBH503 9.00m
Date Sampled	09/07/24	09/07/24	09/07/24	09/07/24	09/07/24
Deviation Code					
A8 (no NaOH)	✓	✓	✓	✓	✓
A9 (no H2SO4)	✓	✓	✓	✓	✓

Key

A8 (no NaOH) No NaOH preserved bottle provided (cyanides, sulphide will be deviating)

A9 (no H2SO4) No H2SO4 preserved bottle provided (phenols, ammonia, DOC, COD will be deviating)

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	24/06729/1	24/06729/2	24/06729/3	24/06729/4	24/06729/5
Client Sample No					
Client Sample ID/Depth	LKBH01 13.20m	RBH505(S) 11.20m	RBH502(S) 15.80m	RBH305 7.00m	RBH503 9.00m
Date Sampled	09/07/24	09/07/24	09/07/24	09/07/24	09/07/24
A-T-006w	15/07/2024	15/07/2024	15/07/2024	15/07/2024	15/07/2024
A-T-019w	15/07/2024	15/07/2024	15/07/2024	15/07/2024	15/07/2024
A-T-022w	15/07/2024	17/07/2024	15/07/2024	15/07/2024	15/07/2024
A-T-025w	16/07/2024	16/07/2024	16/07/2024	16/07/2024	16/07/2024
A-T-026w	12/07/2024	12/07/2024	12/07/2024	12/07/2024	12/07/2024
A-T-031w	11/07/2024	11/07/2024	11/07/2024	11/07/2024	11/07/2024
A-T-032w	16/07/2024	16/07/2024	16/07/2024	16/07/2024	16/07/2024
A-T-040w	12/07/2024	12/07/2024	12/07/2024	12/07/2024	12/07/2024
A-T-042wTCN	12/07/2024	12/07/2024	12/07/2024	12/07/2024	12/07/2024
A-T-049w	25/07/2024	25/07/2024	25/07/2024	25/07/2024	25/07/2024
A-T-050w	15/07/2024	15/07/2024	12/07/2024	12/07/2024	15/07/2024
A-T-052w	15/07/2024	15/07/2024	15/07/2024	15/07/2024	15/07/2024
A-T-055w	25/07/2024	22/07/2024	15/07/2024	15/07/2024	22/07/2024
Calc	15/07/2024	15/07/2024	15/07/2024	15/07/2024	15/07/2024
Calc-As Recd	25/07/2024	22/07/2024	15/07/2024	15/07/2024	22/07/2024

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 24/06760
Issue Number: 1
Date: 25 July, 2024

Client: ROCP LIMITED
Commercial Wharf 6 Commercial Street
Castlefield
Manchester
M15 4PZ

Project Manager: Mike Newman/Reece McGuinness
Project Name: Dantzic Street
Project Ref: 4328
Order No: PBJ20281
Date Samples Received: 10/07/24
Date Instructions Received: 10/07/24
Date Analysis Completed: 25/07/24

Approved by:



Gemma Berrisford
Deputy Client Services Supervisor

Envirolab Job Number: 24/06760

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/06760/1	24/06760/2	24/06760/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH203	RBH501	RBH504							
Depth to Top	15.00	13.75	11.00							
Depth To Bottom										
Date Sampled	10-Jul-24	10-Jul-24	10-Jul-24							
Sample Type	WATER - EW	WATER - EW	WATER - EW							
Sample Matrix Code	N/A	N/A	N/A							
pH (w) _A [#]	6.84	6.87	6.61					pH	0.01	A-T-031w
Hardness Total _A [#]	359	463	695					mg/l Ca CO ₃	4	A-T-049w
Sulphate (w) _A [#]	136	187	317					mg/l	1	A-T-026w
Cyanide (total) (w) _A [#]	<0.005	<0.005	<0.005					mg/l	0.005	A-T-042wTCN
Phenols - Total by HPLC (w) _A	<0.01	<0.01	<0.01					mg/l	0.01	A-T-050w
DOC - Dissolved Organic Carbon (w) _A [#]	3.4	3.4	11.3					mg/l	2	A-T-032w
Antimony (dissolved) _A	<2	<2	<1					µg/l	1	A-T-025w
Arsenic (dissolved) _A [#]	<2	<2	<1					µg/l	1	A-T-025w
Boron (dissolved) _A [#]	236	301	267					µg/l	10	A-T-025w
Barium (dissolved) _A [#]	64	103	65					µg/l	1	A-T-025w
Beryllium (dissolved) _A [#]	<2	<2	<1					µg/l	1	A-T-025w
Cadmium (dissolved) _A [#]	<0.4	<0.4	<0.2					µg/l	0.2	A-T-025w
Copper (dissolved) _A [#]	<8	<8	<4					µg/l	4	A-T-025w
Chromium (dissolved) _A [#]	<2	<2	<1					µg/l	1	A-T-025w
Chromium (hexavalent) (w) _A [#]	<0.02	<0.01	<0.01					mg/l	0.01	A-T-040w
Chromium (trivalent) (w)	<0.02	<0.01	<0.01					mg/l	0.01	Calc
Lead (dissolved) _A [#]	3	<2	6					µg/l	1	A-T-025w
Mercury (dissolved) _A [#]	<0.2	<0.2	<0.1					µg/l	0.1	A-T-025w
Molybdenum (dissolved) _A [#]	<1.0	<1.0	<0.5					µg/l	0.5	A-T-025w
Nickel (dissolved) _A [#]	<4	<4	10					µg/l	2	A-T-025w
Selenium (dissolved) _A [#]	3	3	2					µg/l	1	A-T-025w
Vanadium (dissolved) _A [#]	<2	<2	<1					µg/l	1	A-T-025w
Zinc (dissolved) _A [#]	41	14	10					µg/l	2	A-T-025w

Envirolab Job Number: 24/06760

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/06760/1	24/06760/2	24/06760/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH203	RBH501	RBH504							
Depth to Top	15.00	13.75	11.00							
Depth To Bottom										
Date Sampled	10-Jul-24	10-Jul-24	10-Jul-24							
Sample Type	WATER - EW	WATER - EW	WATER - EW							
Sample Matrix Code	N/A	N/A	N/A							
PAH 16MS (w)										
Acenaphthene (w) _A [#]	0.12	<0.01	<0.01					µg/l	0.01	A-T-019w
Acenaphthylene (w) _A [#]	<0.01	<0.01	<0.01					µg/l	0.01	A-T-019w
Anthracene (w) _A [#]	0.12	<0.01	0.04					µg/l	0.01	A-T-019w
Benzo(a)anthracene (w) _A [#]	<0.01	<0.01	<0.01					µg/l	0.01	A-T-019w
Benzo(a)pyrene (w) _A [#]	<0.01	<0.01	<0.01					µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w) _A [#]	<0.01	<0.01	<0.01					µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w) _A [#]	<0.01	<0.01	<0.01					µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w) _A [#]	<0.01	<0.01	<0.01					µg/l	0.01	A-T-019w
Chrysene (w) _A [#]	<0.01	<0.01	<0.01					µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w) _A [#]	<0.01	<0.01	<0.01					µg/l	0.01	A-T-019w
Fluoranthene (w) _A [#]	0.23	<0.01	0.01					µg/l	0.01	A-T-019w
Fluorene (w) _A [#]	0.13	<0.01	<0.01					µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w) _A [#]	<0.01	<0.01	<0.01					µg/l	0.01	A-T-019w
Naphthalene (w) _A [#]	<0.01	<0.01	<0.01					µg/l	0.01	A-T-019w
Phenanthrene (w) _A [#]	0.98	<0.01	0.01					µg/l	0.01	A-T-019w
Pyrene (w) _A [#]	0.17	<0.01	0.01					µg/l	0.01	A-T-019w
Total PAH 16MS (w) _A [#]	1.75	<0.01	0.07					µg/l	0.01	A-T-019w

Envirolab Job Number: 24/06760

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/06760/1	24/06760/2	24/06760/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH203	RBH501	RBH504							
Depth to Top	15.00	13.75	11.00							
Depth To Bottom										
Date Sampled	10-Jul-24	10-Jul-24	10-Jul-24							
Sample Type	WATER - EW	WATER - EW	WATER - EW							
Sample Matrix Code	N/A	N/A	N/A							
SVOC (excluding PAH-16) (w)										
1,2,4-Trichlorobenzene _A	<1	<1	<1					µg/l	1	A-T-052w
1,2-Dichlorobenzene _A	<1	<1	<1					µg/l	1	A-T-052w
1,3-Dichlorobenzene _A	<1	<1	<1					µg/l	1	A-T-052w
1,4-Dichlorobenzene _A	<1	<1	<1					µg/l	1	A-T-052w
2,4,5-Trichlorophenol _A	<1	<1	<1					µg/l	1	A-T-052w
2,4,6-Trichlorophenol _A	<1	<1	<1					µg/l	1	A-T-052w
2,4-Dichlorophenol _A	<1	<1	<1					µg/l	1	A-T-052w
2,4-Dimethylphenol _A	<1	<1	<1					µg/l	1	A-T-052w
2,4-Dinitrotoluene _A	<1	<1	<1					µg/l	1	A-T-052w
2,6-Dinitrotoluene _A	<1	<1	<1					µg/l	1	A-T-052w
2-Chloronaphthalene _A	<1	<1	<1					µg/l	1	A-T-052w
2-Chlorophenol _A	<1	<1	<1					µg/l	1	A-T-052w
2-Methylnaphthalene _A	<1	<1	<1					µg/l	1	A-T-052w
2-Methylphenol _A	<1	<1	<1					µg/l	1	A-T-052w
2-Nitrophenol _A	<1	<1	<1					µg/l	1	A-T-052w
4-Bromophenyl phenyl ether _A	<1	<1	<1					µg/l	1	A-T-052w
4-Chloro-3-methylphenol _A	<1	<1	<1					µg/l	1	A-T-052w
Bis(2-chloroisopropyl)ether _A	<1	<1	<1					µg/l	1	A-T-052w
3+4-Methylphenol _A	<1	<1	<1					µg/l	1	A-T-052w
4-Nitrophenol _A	<1	<1	<1					µg/l	1	A-T-052w
Bis(2-chloroethyl)ether _A	<1	<1	<1					µg/l	1	A-T-052w
Bis(2-chloroethoxy)methane _A	<1	<1	<1					µg/l	1	A-T-052w
Bis(2-ethylhexyl)phthalate _A	<10	<10	<10					µg/l	10	A-T-052w
Butylbenzyl phthalate _A	<1	<1	<1					µg/l	1	A-T-052w
Carbazole _A	<1	<1	<1					µg/l	1	A-T-052w
Dibenzofuran _A	<1	<1	<1					µg/l	1	A-T-052w
n-Dibutylphthalate _A	<1	<1	<1					µg/l	1	A-T-052w
n-Dioctylphthalate _A	<10	<10	<10					µg/l	10	A-T-052w
n-Nitroso-n-dipropylamine _A	<1	<1	<1					µg/l	1	A-T-052w
Diethyl phthalate _A	<1	<1	<1					µg/l	1	A-T-052w
Dimethyl phthalate _A	<1	<1	<1					µg/l	1	A-T-052w
Hexachlorobutadiene _A	<1	<1	<1					µg/l	1	A-T-052w

Envirolab Job Number: 24/06760

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/06760/1	24/06760/2	24/06760/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH203	RBH501	RBH504							
Depth to Top	15.00	13.75	11.00							
Depth To Bottom										
Date Sampled	10-Jul-24	10-Jul-24	10-Jul-24							
Sample Type	WATER - EW	WATER - EW	WATER - EW							
Sample Matrix Code	N/A	N/A	N/A							
Hexachlorobenzene SVOC _A	<1	<1	<1					µg/l	1	A-T-052w
Pentachlorophenol SVOC _A	<1	<1	<1					µg/l	1	A-T-052w
Phenol _A	<1	<1	<1					µg/l	1	A-T-052w
Hexachloroethane _A	<1	<1	<1					µg/l	1	A-T-052w
Nitrobenzene _A	<1	<1	<1					µg/l	1	A-T-052w
Isophorone _A	<1	<1	<1					µg/l	1	A-T-052w
Perylene _A	<1	<1	<1					µg/l	1	A-T-052w

Envirolab Job Number: 24/06760

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/06760/1	24/06760/2	24/06760/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH203	RBH501	RBH504							
Depth to Top	15.00	13.75	11.00							
Depth To Bottom										
Date Sampled	10-Jul-24	10-Jul-24	10-Jul-24							
Sample Type	WATER - EW	WATER - EW	WATER - EW							
Sample Matrix Code	N/A	N/A	N/A							
VOC										
Dichlorodifluoromethane _A	<1	<1	<1					µg/l	1	A-T-006w
Chloromethane _A	<10	<10	<10					µg/l	10	A-T-006w
Vinyl Chloride _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Bromomethane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Chloroethane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	<1	<1	2					µg/l	1	A-T-006w
Dichloromethane _A	<5	<5	<5					µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	1	5	140					µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5	<5	<5					µg/l	5	A-T-006w
Chloroform _A [#]	45	104	10					µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2	<2	<2					µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	60	128	20					µg/l	1	A-T-006w
Dibromomethane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10	<10	<10					µg/l	10	A-T-006w
Trichloroethene _A [#]	58	114	35					µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	<1	1	1					µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3	<3	<3					µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Tetrachloroethene _A	<1	<1	<1					µg/l	1	A-T-006w
1,1,1,2-Tetrachloroethane _A	<1	<1	<1					µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w

Envirolab Job Number: 24/06760

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/06760/1	24/06760/2	24/06760/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH203	RBH501	RBH504							
Depth to Top	15.00	13.75	11.00							
Depth To Bottom										
Date Sampled	10-Jul-24	10-Jul-24	10-Jul-24							
Sample Type	WATER - EW	WATER - EW	WATER - EW							
Sample Matrix Code	N/A	N/A	N/A							
Bromoform _A [#]	<3	<3	<3					µg/l	3	A-T-006w
Styrene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,1,2,2-Tetrachloroethane _A	<1	<1	<1					µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Bromobenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2	<2	<2					µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2	<2	<2					µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3	<3	<3					µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3	<3	<3					µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1	<1	<1					µg/l	1	A-T-006w

Envirolab Job Number: 24/06760

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/06760/1	24/06760/2	24/06760/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH203	RBH501	RBH504							
Depth to Top	15.00	13.75	11.00							
Depth To Bottom										
Date Sampled	10-Jul-24	10-Jul-24	10-Jul-24							
Sample Type	WATER - EW	WATER - EW	WATER - EW							
Sample Matrix Code	N/A	N/A	N/A							
TPH UKCWG (w) with Clean Up										
Ali >C5-C6 (w) _A [#]	<1	<1	<1					µg/l	1	A-T-022w
Ali >C6-C8 (w) _A [#]	<1	<1	<1					µg/l	1	A-T-022w
Ali >C8-C10 (w) _A [#]	<5	<5	<5					µg/l	5	A-T-055w
Ali >C10-C12 (w) _A [#]	<5	<5	<5					µg/l	5	A-T-055w
Ali >C12-C16 (w) _A [#]	<5	<5	<5					µg/l	5	A-T-055w
Ali >C16-C21 (w) _A [#]	<5	<5	<5					µg/l	5	A-T-055w
Ali >C21-C35 (w) _A [#]	<5	<5	<5					µg/l	5	A-T-055w
Ali >C35-C44 (w) _A	<5	<5	<5					µg/l	5	A-T-055w
Total Aliphatics (w) _A	<5	<5	<5					µg/l	5	Calc-As Recd
Aro >C5-C7 (w) _A [#]	<1	<1	<1					µg/l	1	A-T-022w
Aro >C7-C8 (w) _A [#]	<1	<1	<1					µg/l	1	A-T-022w
Aro >C8-C10 (w) _A	<5	<5	14					µg/l	5	A-T-055w
Aro >C10-C12 (w) _A [#]	<5	<5	5					µg/l	5	A-T-055w
Aro >C12-C16 (w) _A [#]	<5	<5	<5					µg/l	5	A-T-055w
Aro >C16-C21 (w) _A [#]	<5	<5	<5					µg/l	5	A-T-055w
Aro >C21-C35 (w) _A [#]	<10	<10	<10					µg/l	10	A-T-055w
Aro >C35-C44 (w) _A	<5	<5	<5					µg/l	5	A-T-055w
Total Aromatics (w) _A	<10	<10	19					µg/l	10	Calc-As Recd
TPH (Ali & Aro >C5-C44) (w) _A	<10	<10	19					µg/l	10	Calc-As Recd
BTEX - Benzene (w) _A [#]	<1	<1	<1					µg/l	1	A-T-022w
BTEX - Toluene (w) _A [#]	<1	<1	<1					µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w) _A [#]	<1	<1	<1					µg/l	1	A-T-022w
BTEX - m & p Xylene (w) _A [#]	<1	<1	<1					µg/l	1	A-T-022w
BTEX - o Xylene (w) _A [#]	<1	<1	<1					µg/l	1	A-T-022w
MTBE (w) _A [#]	<1	<1	<1					µg/l	1	A-T-022w

Report Notes

General

- This report shall not be reproduced, except in full, without written approval from Envirolab.
- The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
- The results reported herein relate only to the material supplied to the laboratory.
- The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
- Analytical results reflect the quality of the sample at the time of analysis only.
- Opinions and Interpretations expressed are outside our scope of accreditation.
- A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
- If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
- Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript “#”	Accredited to ISO 17025
Superscript “M”	Accredited to MCertS
Superscript “U”	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript “A”	Analysis performed on as-received Sample
Subscript “D”	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript “D” on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript “A”	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis

“Trace Asbestos Identified” will be reported if there is not enough present to verify the type.

Quantification: Generally a 2 stage process including visual identification, hand picking and weighing, and fibre counting. Where ACMs are found a percentage asbestos is assigned to each with reference to ‘HSG264, Asbestos: The survey guide’ and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres). “TRACE” will be reported as a quantification result.

PLEASE INFORM THE LABORATORY IF YOU WOULD LIKE THE STAGE 3 SEDIMENTATION PROCESS CARRIED OUT. Note this will be subcontracted.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs

Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.

Soil Chemical Analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as ‘% stones >10mm’.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any “D” subscripts.

TPH by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only. Results “with Clean up” indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.

Where these humic substances have been identified in any IDs from “TPH CWG with clean up” please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: ROCP LIMITED, Commercial Wharf 6 Commercial Street, Castlefield,
Manchester, M15 4PZ

Project: Dantzic Street

Clients Project No: 4328

Project No: 24/06760

Date Received: 10/07/2024 (pm)

Cool Box Temperatures (°C): 17.0

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	24/06760/1	24/06760/2	24/06760/3
Client Sample No			
Client Sample ID/Depth	RBH203 15.00m	RBH501 13.75m	RBH504 11.00m
Date Sampled	10/07/24	10/07/24	10/07/24
A-T-006w	12/07/2024	12/07/2024	12/07/2024
A-T-019w	15/07/2024	15/07/2024	15/07/2024
A-T-022w	15/07/2024	15/07/2024	15/07/2024
A-T-025w	16/07/2024	16/07/2024	16/07/2024
A-T-026w	12/07/2024	12/07/2024	12/07/2024
A-T-031w	11/07/2024	11/07/2024	11/07/2024
A-T-032w	24/07/2024	24/07/2024	24/07/2024
A-T-040w	12/07/2024	12/07/2024	12/07/2024
A-T-042wTCN	11/07/2024	11/07/2024	11/07/2024
A-T-049w	25/07/2024	25/07/2024	25/07/2024
A-T-050w	15/07/2024	15/07/2024	17/07/2024
A-T-052w	12/07/2024	12/07/2024	12/07/2024
A-T-055w	15/07/2024	15/07/2024	17/07/2024
Calc	16/07/2024	16/07/2024	16/07/2024
Calc-As Recd	15/07/2024	15/07/2024	17/07/2024

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 24/07224
Issue Number: 1
Date: 01 August, 2024

Client: ROCP LIMITED
Commercial Wharf 6 Commercial Street
Castlefield
Manchester
M15 4PZ

Project Manager: Reece McGuinness
Project Name: Dantzig Street
Project Ref: 4328
Order No: PBJ20302
Date Samples Received: 24/07/24
Date Instructions Received: 24/07/24
Date Analysis Completed: 01/08/24

Approved by:



Richard Wong
Client Manager

Envirolab Job Number: 24/07224

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/07224/1							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH 305									
Depth to Top	7.00									
Depth To Bottom										
Date Sampled	24-Jul-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
pH (w) _A [#]	6.90							pH	0.01	A-T-031w
Hardness Total _A [#]	555							mg/l Ca CO ₃	4	A-T-049w
Sulphate (w) _A [#]	471							mg/l	1	A-T-026w
Cyanide (total) (w) _A [#]	<0.005							mg/l	0.005	A-T-042wTCN
Phenols - Total by HPLC (w) _A	<0.01							mg/l	0.01	A-T-050w
DOC - Dissolved Organic Carbon (w) _A [#]	11.7							mg/l	2	A-T-032w
Antimony (dissolved) _A	3							µg/l	1	A-T-025w
Arsenic (dissolved) _A [#]	1							µg/l	1	A-T-025w
Boron (dissolved) _A [#]	432							µg/l	10	A-T-025w
Barium (dissolved) _A [#]	112							µg/l	1	A-T-025w
Beryllium (dissolved) _A [#]	<1							µg/l	1	A-T-025w
Cadmium (dissolved) _A [#]	<0.2							µg/l	0.2	A-T-025w
Copper (dissolved) _A [#]	6							µg/l	4	A-T-025w
Chromium (dissolved) _A [#]	10							µg/l	1	A-T-025w
Chromium (hexavalent) (w) _A [#]	<0.01							mg/l	0.01	A-T-040w
Chromium (trivalent) (w)	0.01							mg/l	0.01	Calc
Lead (dissolved) _A [#]	<1							µg/l	1	A-T-025w
Mercury (dissolved) _A [#]	<0.1							µg/l	0.1	A-T-025w
Molybdenum (dissolved) _A [#]	11.7							µg/l	0.5	A-T-025w
Nickel (dissolved) _A [#]	5							µg/l	2	A-T-025w
Selenium (dissolved) _A [#]	3							µg/l	1	A-T-025w
Vanadium (dissolved) _A [#]	<1							µg/l	1	A-T-025w
Zinc (dissolved) _A [#]	14							µg/l	2	A-T-025w

Envirolab Job Number: 24/07224

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/07224/1									
Client Sample No										
Client Sample ID	RBH 305									
Depth to Top	7.00									
Depth To Bottom										
Date Sampled	24-Jul-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
PAH 16MS (w)										
Acenaphthene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Acenaphthylene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Anthracene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Benzo(a)anthracene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Benzo(a)pyrene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w) _A [#]	0.01							µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Chrysene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Fluoranthene (w) _A [#]	0.02							µg/l	0.01	A-T-019w
Fluorene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Naphthalene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Phenanthrene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Pyrene (w) _A [#]	0.02							µg/l	0.01	A-T-019w
Total PAH 16MS (w) _A [#]	0.05							µg/l	0.01	A-T-019w

Envirolab Job Number: 24/07224

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/07224/1									
Client Sample No										
Client Sample ID	RBH 305									
Depth to Top	7.00									
Depth To Bottom										
Date Sampled	24-Jul-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
SVOC (excluding PAH-16) (w)										
1,2,4-Trichlorobenzene _A	<10							µg/l	1	A-T-052w
1,2-Dichlorobenzene _A	<10							µg/l	1	A-T-052w
1,3-Dichlorobenzene _A	<10							µg/l	1	A-T-052w
1,4-Dichlorobenzene _A	<10							µg/l	1	A-T-052w
2,4,5-Trichlorophenol _A	<10							µg/l	1	A-T-052w
2,4,6-Trichlorophenol _A	<10							µg/l	1	A-T-052w
2,4-Dichlorophenol _A	<10							µg/l	1	A-T-052w
2,4-Dimethylphenol _A	<10							µg/l	1	A-T-052w
2,4-Dinitrotoluene _A	<10							µg/l	1	A-T-052w
2,6-Dinitrotoluene _A	<10							µg/l	1	A-T-052w
2-Chloronaphthalene _A	<10							µg/l	1	A-T-052w
2-Chlorophenol _A	<10							µg/l	1	A-T-052w
2-Methylnaphthalene _A	<10							µg/l	1	A-T-052w
2-Methylphenol _A	<10							µg/l	1	A-T-052w
2-Nitrophenol _A	<10							µg/l	1	A-T-052w
4-Bromophenyl phenyl ether _A	<10							µg/l	1	A-T-052w
4-Chloro-3-methylphenol _A	<10							µg/l	1	A-T-052w
Bis(2-chloroisopropyl)ether _A	<10							µg/l	1	A-T-052w
3+4-Methylphenol _A	<10							µg/l	1	A-T-052w
4-Nitrophenol _A	<10							µg/l	1	A-T-052w
Bis(2-chloroethyl)ether _A	<10							µg/l	1	A-T-052w
Bis(2-chloroethoxy)methane _A	<10							µg/l	1	A-T-052w
Bis(2-ethylhexyl)phthalate _A	<100							µg/l	10	A-T-052w
Butylbenzyl phthalate _A	<10							µg/l	1	A-T-052w
Carbazole _A	<10							µg/l	1	A-T-052w
Dibenzofuran _A	<10							µg/l	1	A-T-052w
n-Dibutylphthalate _A	<10							µg/l	1	A-T-052w
n-Dioctylphthalate _A	<100							µg/l	10	A-T-052w
n-Nitroso-n-dipropylamine _A	<10							µg/l	1	A-T-052w
Diethyl phthalate _A	<10							µg/l	1	A-T-052w
Dimethyl phthalate _A	<10							µg/l	1	A-T-052w
Hexachlorobutadiene _A	<10							µg/l	1	A-T-052w

Envirolab Job Number: 24/07224

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/07224/1							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH 305									
Depth to Top	7.00									
Depth To Bottom										
Date Sampled	24-Jul-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
Hexachlorobenzene SVOC _A	<10							µg/l	1	A-T-052w
Pentachlorophenol SVOC _A	<10							µg/l	1	A-T-052w
Phenol _A	<10							µg/l	1	A-T-052w
Hexachloroethane _A	<10							µg/l	1	A-T-052w
Nitrobenzene _A	<10							µg/l	1	A-T-052w
Isophorone _A	<10							µg/l	1	A-T-052w
Perylene _A	<10							µg/l	1	A-T-052w

Envirolab Job Number: 24/07224

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/07224/1									
Client Sample No										
Client Sample ID	RBH 305									
Depth to Top	7.00									
Depth To Bottom										
Date Sampled	24-Jul-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
VOC (w)										
Dichlorodifluoromethane _A	<1							µg/l	1	A-T-006w
Chloromethane _A	<10							µg/l	10	A-T-006w
Vinyl Chloride _A [#]	<1							µg/l	1	A-T-006w
Bromomethane _A [#]	<1							µg/l	1	A-T-006w
Chloroethane _A [#]	<1							µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1							µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	<1							µg/l	1	A-T-006w
Dichloromethane _A	<5							µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<1							µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	<1							µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	<1							µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	<1							µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5							µg/l	5	A-T-006w
Chloroform _A [#]	<1							µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1							µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2							µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1							µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1							µg/l	1	A-T-006w
Benzene _A [#]	<1							µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	<1							µg/l	1	A-T-006w
Dibromomethane _A [#]	<1							µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1							µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10							µg/l	10	A-T-006w
Trichloroethene _A [#]	<1							µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1							µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1							µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	<1							µg/l	1	A-T-006w
Toluene _A [#]	<1							µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1							µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3							µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1							µg/l	1	A-T-006w
Tetrachloroethene _A	<1							µg/l	1	A-T-006w

Envirolab Job Number: 24/07224

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/07224/1							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH 305									
Depth to Top	7.00									
Depth To Bottom										
Date Sampled	24-Jul-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
1,1,1,2-Tetrachloroethane _A	<1							µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1							µg/l	1	A-T-006w
Ethylbenzene _A [#]	<1							µg/l	1	A-T-006w
m & p Xylene _A [#]	<1							µg/l	1	A-T-006w
Bromoform _A [#]	<3							µg/l	3	A-T-006w
Styrene _A [#]	<1							µg/l	1	A-T-006w
1,1,1,2,2-Tetrachloroethane _A	<1							µg/l	1	A-T-006w
o-Xylene _A [#]	<1							µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1							µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1							µg/l	1	A-T-006w
Bromobenzene _A [#]	<1							µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1							µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1							µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1							µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1							µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1							µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1							µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1							µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1							µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1							µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2							µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1							µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1							µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2							µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3							µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3							µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1							µg/l	1	A-T-006w

Envirolab Job Number: 24/07224

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/07224/1									
Client Sample No										
Client Sample ID	RBH 305									
Depth to Top	7.00									
Depth To Bottom										
Date Sampled	24-Jul-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
TPH UKCWG (w) with Clean Up										
Ali >C5-C6 (w) _A [#]	<1							µg/l	1	A-T-022w
Ali >C6-C8 (w) _A [#]	<1							µg/l	1	A-T-022w
Ali >C8-C10 (w) _A [#]	10							µg/l	5	A-T-055w
Ali >C10-C12 (w) _A [#]	60							µg/l	5	A-T-055w
Ali >C12-C16 (w) _A [#]	233							µg/l	5	A-T-055w
Ali >C16-C21 (w) _A [#]	49							µg/l	5	A-T-055w
Ali >C21-C35 (w) _A [#]	46							µg/l	5	A-T-055w
Ali >C35-C44 (w) _A	19							µg/l	5	A-T-055w
Total Aliphatics (w) _A	417							µg/l	5	Calc-As Recd
Aro >C5-C7 (w) _A [#]	<1							µg/l	1	A-T-022w
Aro >C7-C8 (w) _A [#]	<1							µg/l	1	A-T-022w
Aro >C8-C10 (w) _A	<5							µg/l	5	A-T-055w
Aro >C10-C12 (w) _A [#]	10							µg/l	5	A-T-055w
Aro >C12-C16 (w) _A [#]	25							µg/l	5	A-T-055w
Aro >C16-C21 (w) _A [#]	16							µg/l	5	A-T-055w
Aro >C21-C35 (w) _A [#]	<10							µg/l	10	A-T-055w
Aro >C35-C44 (w) _A	5							µg/l	5	A-T-055w
Total Aromatics (w) _A	56							µg/l	10	Calc-As Recd
TPH (Ali & Aro >C5-C44) (w) _A	473							µg/l	10	Calc-As Recd
BTEX - Benzene (w) _A [#]	<1							µg/l	1	A-T-022w
BTEX - Toluene (w) _A [#]	<1							µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w) _A [#]	<1							µg/l	1	A-T-022w
BTEX - m & p Xylene (w) _A [#]	<1							µg/l	1	A-T-022w
BTEX - o Xylene (w) _A [#]	<1							µg/l	1	A-T-022w
MTBE (w) _A [#]	<1							µg/l	1	A-T-022w

Report Notes

General

- This report shall not be reproduced, except in full, without written approval from Envirolab.
- The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
- The results reported herein relate only to the material supplied to the laboratory.
- The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
- Analytical results reflect the quality of the sample at the time of analysis only.
- Opinions and Interpretations expressed are outside our scope of accreditation.
- A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
- If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
- Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript “#”	Accredited to ISO 17025
Superscript “M”	Accredited to MCertS
Superscript “U”	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript “A”	Analysis performed on as-received Sample
Subscript “D”	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript “D” on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript “A”	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis

“Trace Asbestos Identified” will be reported if there is not enough present to verify the type.

Quantification: Generally a 2 stage process including visual identification, hand picking and weighing, and fibre counting. Where ACMs are found a percentage asbestos is assigned to each with reference to ‘HSG264, Asbestos: The survey guide’ and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres). “TRACE” will be reported as a quantification result.

PLEASE INFORM THE LABORATORY IF YOU WOULD LIKE THE STAGE 3 SEDIMENTATION PROCESS CARRIED OUT. Note this will be subcontracted.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs

Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.

Soil Chemical Analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as ‘% stones >10mm’.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any “D” subscripts.

TPH by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only. Results “with Clean up” indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.

Where these humic substances have been identified in any IDs from “TPH CWG with clean up” please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: ROCP LIMITED, Commercial Wharf 6 Commercial Street, Castlefield,
Manchester, M15 4PZ

Project: Dantzic Street
Clients Project No: 4328

Project No: 24/07224
Date Received: 24/07/2024 (am)
Cool Box Temperatures (°C): 17.1

Lab Sample ID	24/07224/1
Client Sample No	
Client Sample ID/Depth	RBH 305 7.00m
Date Sampled	24/07/24
Deviation Code	
A8 (no NaOH)	✓
A9 (no H2SO4)	✓

Key

A8 (no NaOH) No NaOH preserved bottle provided (cyanides, sulphide will be deviating)
A9 (no H2SO4) No H2SO4 preserved bottle provided (phenols, ammonia, DOC, COD will be deviating)

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	24/07224/1
Client Sample No	
Client Sample ID/Depth	RBH 305 7.00m
Date Sampled	24/07/24
A-T-006w	25/07/2024
A-T-019w	26/07/2024
A-T-022w	26/07/2024
A-T-025w	25/07/2024
A-T-026w	25/07/2024
A-T-031w	25/07/2024
A-T-032w	31/07/2024
A-T-040w	26/07/2024
A-T-042wTCN	26/07/2024
A-T-049w	31/07/2024
A-T-050w	25/07/2024
A-T-052w	01/08/2024
A-T-055w	29/07/2024
Calc	26/07/2024
Calc-As Recd	29/07/2024

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 24/07236
Issue Number: 1
Date: 01 August, 2024

Client: ROCP LIMITED
Commercial Wharf 6 Commercial Street
Castlefield
Manchester
M15 4PZ

Project Manager: Reece McGuinness
Project Name: Dantzic Street
Project Ref: 4328
Order No: PBJ20302
Date Samples Received: 24/07/24
Date Instructions Received: 25/07/24
Date Analysis Completed: 01/08/24

Approved by:



Gemma Berrisford
Deputy Client Services Supervisor

Envirolab Job Number: 24/07236

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/07236/1	24/07236/2	24/07236/3	24/07236/4	24/07236/5	24/07236/6	24/07236/7	Units	Limit of Detection	Method ref
Client Sample No			Shallow							
Client Sample ID	RBH203	RBH501	RBH502	RBH504	RBH503	RBH505	LKBH01			
Depth to Top	14.50	12.50	16.00	10.50	8.00	10.50	13.50			
Depth To Bottom										
Date Sampled	23-Jul-24	23-Jul-24	23-Jul-24	23-Jul-24	23-Jul-24	23-Jul-24	23-Jul-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
pH (w) _A [#]	6.65	6.75	6.88	6.54	6.63	6.63	7.03	pH	0.01	A-T-031w
Hardness Total _A [#]	354	516	460	727	584	687	492	mg/l Ca CO ₃	4	A-T-049w
Sulphate (w) _A [#]	76	183	185	262	271	239	180	mg/l	1	A-T-026w
Cyanide (total) (w) _A [#]	<0.005	<0.005	0.014	<0.005	0.052	0.265	0.070	mg/l	0.005	A-T-042wTCN
Phenols - Total by HPLC (w) _A	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/l	0.01	A-T-050w
DOC - Dissolved Organic Carbon (w) _A [#]	3.8	4.6	6.0	10.9	6.7	4.9	5.6	mg/l	2	A-T-032w
Antimony (dissolved) _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-025w
Arsenic (dissolved) _A [#]	<1	<1	<1	<1	6	6	20	µg/l	1	A-T-025w
Boron (dissolved) _A [#]	222	331	223	286	241	179	161	µg/l	10	A-T-025w
Barium (dissolved) _A [#]	61	95	105	62	122	60	45	µg/l	1	A-T-025w
Beryllium (dissolved) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-025w
Cadmium (dissolved) _A [#]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	µg/l	0.2	A-T-025w
Copper (dissolved) _A [#]	<4	<4	<4	<4	<4	<4	<4	µg/l	4	A-T-025w
Chromium (dissolved) _A [#]	17	19	17	10	<1	<1	1	µg/l	1	A-T-025w
Chromium (hexavalent) (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/l	0.01	A-T-040w
Chromium (trivalent) (w)	0.02	0.02	0.02	0.01	<0.01	<0.01	<0.01	mg/l	0.01	Calc
Lead (dissolved) _A [#]	<1	<1	<1	5	<1	<1	<1	µg/l	1	A-T-025w
Mercury (dissolved) _A [#]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	µg/l	0.1	A-T-025w
Molybdenum (dissolved) _A [#]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	µg/l	0.5	A-T-025w
Nickel (dissolved) _A [#]	<2	<2	<2	3	4	<2	<2	µg/l	2	A-T-025w
Selenium (dissolved) _A [#]	2	2	2	2	<1	<1	<1	µg/l	1	A-T-025w
Vanadium (dissolved) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-025w
Zinc (dissolved) _A [#]	3	7	5	4	4	2	2	µg/l	2	A-T-025w

Envirolab Job Number: 24/07236

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/07236/1	24/07236/2	24/07236/3	24/07236/4	24/07236/5	24/07236/6	24/07236/7	Units	Limit of Detection	Method ref
Client Sample No			Shallow							
Client Sample ID	RBH203	RBH501	RBH502	RBH504	RBH503	RBH505	LKBH01			
Depth to Top	14.50	12.50	16.00	10.50	8.00	10.50	13.50			
Depth To Bottom										
Date Sampled	23-Jul-24	23-Jul-24	23-Jul-24	23-Jul-24	23-Jul-24	23-Jul-24	23-Jul-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
PAH 16MS (w)										
Acenaphthene (w) _A [#]	0.02	<0.01	<0.01	<0.01	0.12	0.13	0.33	µg/l	0.01	A-T-019w
Acenaphthylene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	µg/l	0.01	A-T-019w
Anthracene (w) _A [#]	<0.01	<0.01	<0.01	0.03	0.03	0.03	0.04	µg/l	0.01	A-T-019w
Benzo(a)anthracene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Benzo(a)pyrene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Chrysene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Fluoranthene (w) _A [#]	0.08	<0.01	0.01	<0.01	0.04	<0.01	<0.01	µg/l	0.01	A-T-019w
Fluorene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Naphthalene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	µg/l	0.01	A-T-019w
Phenanthrene (w) _A [#]	0.03	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	µg/l	0.01	A-T-019w
Pyrene (w) _A [#]	0.11	<0.01	0.01	<0.01	0.03	0.02	<0.01	µg/l	0.01	A-T-019w
Total PAH 16MS (w) _A [#]	0.24	<0.01	0.02	0.03	0.33	0.18	0.38	µg/l	0.01	A-T-019w

Envirolab Job Number: 24/07236

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/07236/1	24/07236/2	24/07236/3	24/07236/4	24/07236/5	24/07236/6	24/07236/7	Units	Limit of Detection	Method ref
Client Sample No			Shallow							
Client Sample ID	RBH203	RBH501	RBH502	RBH504	RBH503	RBH505	LKBH01			
Depth to Top	14.50	12.50	16.00	10.50	8.00	10.50	13.50			
Depth To Bottom										
Date Sampled	23-Jul-24	23-Jul-24	23-Jul-24	23-Jul-24	23-Jul-24	23-Jul-24	23-Jul-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
SVOC (excluding PAH-16) (w)										
1,2,4-Trichlorobenzene _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w
1,2-Dichlorobenzene _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w
1,3-Dichlorobenzene _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w
1,4-Dichlorobenzene _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w
2,4,5-Trichlorophenol _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w
2,4,6-Trichlorophenol _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w
2,4-Dichlorophenol _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w
2,4-Dimethylphenol _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w
2,4-Dinitrotoluene _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w
2,6-Dinitrotoluene _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w
2-Chloronaphthalene _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w
2-Chlorophenol _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w
2-Methylnaphthalene _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w
2-Methylphenol _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w
2-Nitrophenol _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w
4-Bromophenyl phenyl ether _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w
4-Chloro-3-methylphenol _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w
Bis(2-chloroisopropyl)ether _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w
3+4-Methylphenol _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w
4-Nitrophenol _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w
Bis(2-chloroethyl)ether _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w
Bis(2-chloroethoxy)methane _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w
Bis(2-ethylhexyl)phthalate _A	<10	<10	<10	<10	<10	<10	<100	µg/l	10	A-T-052w
Butylbenzyl phthalate _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w
Carbazole _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w
Dibenzofuran _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w
n-Dibutylphthalate _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w
n-Dioctylphthalate _A	<10	<10	<10	<10	<10	<10	<100	µg/l	10	A-T-052w
n-Nitroso-n-dipropylamine _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w
Diethyl phthalate _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w
Dimethyl phthalate _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w
Hexachlorobutadiene _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w

Envirolab Job Number: 24/07236

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/07236/1	24/07236/2	24/07236/3	24/07236/4	24/07236/5	24/07236/6	24/07236/7	Units	Limit of Detection	Method ref
Client Sample No			Shallow							
Client Sample ID	RBH203	RBH501	RBH502	RBH504	RBH503	RBH505	LKBH01			
Depth to Top	14.50	12.50	16.00	10.50	8.00	10.50	13.50			
Depth To Bottom										
Date Sampled	23-Jul-24	23-Jul-24	23-Jul-24	23-Jul-24	23-Jul-24	23-Jul-24	23-Jul-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Hexachlorobenzene SVOC _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w
Pentachlorophenol SVOC _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w
Phenol _A	<1	<1	<1	<1	1	<1	<10	µg/l	1	A-T-052w
Hexachloroethane _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w
Nitrobenzene _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w
Isophorone _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w
Perylene _A	<1	<1	<1	<1	<1	<1	<10	µg/l	1	A-T-052w

Envirolab Job Number: 24/07236

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/07236/1	24/07236/2	24/07236/3	24/07236/4	24/07236/5	24/07236/6	24/07236/7	Units	Limit of Detection	Method ref
Client Sample No			Shallow							
Client Sample ID	RBH203	RBH501	RBH502	RBH504	RBH503	RBH505	LKBH01			
Depth to Top	14.50	12.50	16.00	10.50	8.00	10.50	13.50			
Depth To Bottom										
Date Sampled	23-Jul-24	23-Jul-24	23-Jul-24	23-Jul-24	23-Jul-24	23-Jul-24	23-Jul-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
VOC (w)										
Dichlorodifluoromethane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Chloromethane _A	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-006w
Vinyl Chloride _A [#]	<1	<1	<1	<1	22	<1	14	µg/l	1	A-T-006w
Bromomethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Chloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	<1	<1	<1	2	28	<1	172	µg/l	1	A-T-006w
Dichloromethane _A	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	<1	<1	<1	<1	<1	<1	1	µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	1	14	<1	162	83	<1	334	µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-006w
Chloroform _A [#]	35	244	104	11	<1	<1	<1	µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Benzene _A [#]	<1	<1	<1	<1	13	<1	63	µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	50	156	179	19	<1	<1	<1	µg/l	1	A-T-006w
Dibromomethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-006w
Trichloroethene _A [#]	56	520	9	37	<1	<1	<1	µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	<1	4	<1	1	<1	<1	<1	µg/l	1	A-T-006w
Toluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Tetrachloroethene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w

Envirolab Job Number: 24/07236

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/07236/1	24/07236/2	24/07236/3	24/07236/4	24/07236/5	24/07236/6	24/07236/7	Units	Limit of Detection	Method ref
Client Sample No			Shallow							
Client Sample ID	RBH203	RBH501	RBH502	RBH504	RBH503	RBH505	LKBH01			
Depth to Top	14.50	12.50	16.00	10.50	8.00	10.50	13.50			
Depth To Bottom										
Date Sampled	23-Jul-24	23-Jul-24	23-Jul-24	23-Jul-24	23-Jul-24	23-Jul-24	23-Jul-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
1,1,1,2-Tetrachloroethane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Ethylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
m & p Xylene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromoform _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
Styrene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1,2,2-Tetrachloroethane _A	<1	2	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
o-Xylene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w

Envirolab Job Number: 24/07236

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/07236/1	24/07236/2	24/07236/3	24/07236/4	24/07236/5	24/07236/6	24/07236/7	Units	Limit of Detection	Method ref
Client Sample No			Shallow							
Client Sample ID	RBH203	RBH501	RBH502	RBH504	RBH503	RBH505	LKBH01			
Depth to Top	14.50	12.50	16.00	10.50	8.00	10.50	13.50			
Depth To Bottom										
Date Sampled	23-Jul-24	23-Jul-24	23-Jul-24	23-Jul-24	23-Jul-24	23-Jul-24	23-Jul-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
TPH UKCWG (w) with Clean Up										
Ali >C5-C6 (w) _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Ali >C6-C8 (w) _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Ali >C8-C10 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C10-C12 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C12-C16 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C16-C21 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C21-C35 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C35-C44 (w) _A	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Total Aliphatics (w) _A	<5	<5	<5	<5	<5	<5	<5	µg/l	5	Calc-As Recd
Aro >C5-C7 (w) _A [#]	<5	<1	<1	<1	15	<1	73	µg/l	1	A-T-022w
Aro >C7-C8 (w) _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Aro >C8-C10 (w) _A	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Aro >C10-C12 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Aro >C12-C16 (w) _A [#]	<5	7	<5	<5	<5	<5	7	µg/l	5	A-T-055w
Aro >C16-C21 (w) _A [#]	<5	23	6	7	<5	<5	9	µg/l	5	A-T-055w
Aro >C21-C35 (w) _A [#]	<10	15	<10	<10	<10	<10	<10	µg/l	10	A-T-055w
Aro >C35-C44 (w) _A	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Total Aromatics (w) _A	<10	45	<10	<10	15	<10	89	µg/l	10	Calc-As Recd
TPH (Ali & Aro >C5-C44) (w) _A	<10	45	<10	<10	15	<10	89	µg/l	10	Calc-As Recd
BTEX - Benzene (w) _A [#]	<5	<1	<1	<1	15	<1	73	µg/l	1	A-T-022w
BTEX - Toluene (w) _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w) _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - m & p Xylene (w) _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - o Xylene (w) _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
MTBE (w) _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w

Report Notes

General

- This report shall not be reproduced, except in full, without written approval from Envirolab.
- The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
- The results reported herein relate only to the material supplied to the laboratory.
- The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
- Analytical results reflect the quality of the sample at the time of analysis only.
- Opinions and Interpretations expressed are outside our scope of accreditation.
- A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
- If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
- Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript “#”	Accredited to ISO 17025
Superscript “M”	Accredited to MCertS
Superscript “U”	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript “A”	Analysis performed on as-received Sample
Subscript “D”	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript “D” on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript “A”	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis

“Trace Asbestos Identified” will be reported if there is not enough present to verify the type.

Quantification: Generally a 2 stage process including visual identification, hand picking and weighing, and fibre counting. Where ACMs are found a percentage asbestos is assigned to each with reference to ‘HSG264, Asbestos: The survey guide’ and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres). “TRACE” will be reported as a quantification result.

PLEASE INFORM THE LABORATORY IF YOU WOULD LIKE THE STAGE 3 SEDIMENTATION PROCESS CARRIED OUT. Note this will be subcontracted.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs

Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.

Soil Chemical Analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as ‘% stones >10mm’.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any “D” subscripts.

TPH by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only. Results “with Clean up” indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.

Where these humic substances have been identified in any IDs from “TPH CWG with clean up” please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: ROCP LIMITED, Commercial Wharf 6 Commercial Street, Castlefield,
Manchester, M15 4PZ

Project: Dantzic Street

Clients Project No: 4328

Project No: 24/07236

Date Received: 25/07/2024 (am)

Cool Box Temperatures (°C): 18.9 - 19.2

Lab Sample ID	24/07236/1	24/07236/2	24/07236/3	24/07236/4	24/07236/5	24/07236/6	24/07236/7
Client Sample No			Shallow				
Client Sample ID/Depth	RBH203 14.50m	RBH501 12.50m	RBH502 16.00m	RBH504 10.50m	RBH503 8.00m	RBH505 10.50m	LKBH01 13.50m
Date Sampled	23/07/24	23/07/24	23/07/24	23/07/24	23/07/24	23/07/24	23/07/24
Deviation Code							
A8 (no NaOH)	✓	✓	✓	✓	✓	✓	✓
A9 (no H2SO4)	✓	✓	✓	✓	✓	✓	✓

Key

A8 (no NaOH) No NaOH preserved bottle provided (cyanides, sulphide will be deviating)

A9 (no H2SO4) No H2SO4 preserved bottle provided (phenols, ammonia, DOC, COD will be deviating)

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	24/07236/1	24/07236/2	24/07236/3	24/07236/4	24/07236/5	24/07236/6	24/07236/7
Client Sample No			Shallow				
Client Sample ID/Depth	RBH203 14.50m	RBH501 12.50m	RBH502 16.00m	RBH504 10.50m	RBH503 8.00m	RBH505 10.50m	LKBH01 13.50m
Date Sampled	23/07/24	23/07/24	23/07/24	23/07/24	23/07/24	23/07/24	23/07/24
A-T-006w	31/07/2024	31/07/2024	31/07/2024	31/07/2024	31/07/2024	31/07/2024	31/07/2024
A-T-019w	29/07/2024	29/07/2024	29/07/2024	29/07/2024	29/07/2024	29/07/2024	29/07/2024
A-T-022w	30/07/2024	29/07/2024	29/07/2024	29/07/2024	30/07/2024	30/07/2024	30/07/2024
A-T-025w	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024
A-T-026w	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024
A-T-031w	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024
A-T-032w	01/08/2024	01/08/2024	01/08/2024	01/08/2024	01/08/2024	01/08/2024	01/08/2024
A-T-040w	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024
A-T-042wTCN	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024
A-T-049w	31/07/2024	31/07/2024	31/07/2024	31/07/2024	31/07/2024	31/07/2024	31/07/2024
A-T-050w	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024
A-T-052w	31/07/2024	31/07/2024	31/07/2024	31/07/2024	31/07/2024	31/07/2024	01/08/2024
A-T-055w	29/07/2024	29/07/2024	29/07/2024	29/07/2024	29/07/2024	29/07/2024	29/07/2024
Calc	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024
Calc-As Recd	30/07/2024	29/07/2024	29/07/2024	29/07/2024	29/07/2024	29/07/2024	29/07/2024

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 24/07735
Issue Number: 1
Date: 14 August, 2024

Client: ROCP LIMITED
Commercial Wharf 6 Commercial Street
Castlefield
Manchester
M15 4PZ

Project Manager: Reece McGuinness
Project Name: Dantzic Street
Project Ref: 4328
Order No: PBJ20313
Date Samples Received: 07/08/24
Date Instructions Received: 08/08/24
Date Analysis Completed: 14/08/24

Approved by:



Richard Wong
Client Manager

Envirolab Job Number: 24/07735

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/07735/1	24/07735/2	24/07735/3	24/07735/4				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH504	RBH501	RBH203	RBH502 Shallow						
Depth to Top	10.50	12.50	14.50	16.00						
Depth To Bottom										
Date Sampled	07-Aug-24	07-Aug-24	07-Aug-24	07-Aug-24						
Sample Type	WATER - EW	WATER - EW	WATER - EW	WATER - EW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
pH (w) _A [#]	6.48	6.73	6.68	6.86				pH	0.01	A-T-031w
Hardness Total _A [#]	756	515	354	441				mg/l Ca CO ₃	4	A-T-049w
Sulphate (w) _A [#]	252	158	70	176				mg/l	1	A-T-026w
Cyanide (total) (w) _A [#]	<0.005	<0.005	<0.005	0.013				mg/l	0.005	A-T-042wTCN
Phenols - Total by HPLC (w) _A	<0.01	<0.01	<0.01	<0.01				mg/l	0.01	A-T-050w
DOC - Dissolved Organic Carbon (w) _A [#]	13.8	5.9	4.3	5.5				mg/l	2	A-T-032w
Antimony (dissolved) _A	<1	<1	<1	<1				µg/l	1	A-T-025w
Arsenic (dissolved) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-025w
Boron (dissolved) _A [#]	265	294	210	212				µg/l	10	A-T-025w
Barium (dissolved) _A [#]	57	83	59	86				µg/l	1	A-T-025w
Beryllium (dissolved) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-025w
Cadmium (dissolved) _A [#]	<0.2	<0.2	<0.2	<0.2				µg/l	0.2	A-T-025w
Copper (dissolved) _A [#]	<4	<4	<4	<4				µg/l	4	A-T-025w
Chromium (dissolved) _A [#]	<1	2	9	1				µg/l	1	A-T-025w
Chromium (hexavalent) (w) _A [#]	<0.01	<0.02	<0.01	<0.01				mg/l	0.01	A-T-040w
Chromium (trivalent) (w)	<0.01	<0.02	<0.01	<0.01				mg/l	0.01	Calc
Lead (dissolved) _A [#]	6	<1	<1	1				µg/l	1	A-T-025w
Mercury (dissolved) _A [#]	<0.1	<0.1	<0.1	<0.1				µg/l	0.1	A-T-025w
Molybdenum (dissolved) _A [#]	<0.5	<0.5	<0.5	<0.5				µg/l	0.5	A-T-025w
Nickel (dissolved) _A [#]	2	<2	<2	<2				µg/l	2	A-T-025w
Selenium (dissolved) _A [#]	2	2	3	3				µg/l	1	A-T-025w
Vanadium (dissolved) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-025w
Zinc (dissolved) _A [#]	5	5	<2	8				µg/l	2	A-T-025w

Envirolab Job Number: 24/07735

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/07735/1	24/07735/2	24/07735/3	24/07735/4				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH504	RBH501	RBH203	RBH502 Shallow						
Depth to Top	10.50	12.50	14.50	16.00						
Depth To Bottom										
Date Sampled	07-Aug-24	07-Aug-24	07-Aug-24	07-Aug-24						
Sample Type	WATER - EW	WATER - EW	WATER - EW	WATER - EW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
PAH 16MS (w)										
Acenaphthene (w) _A [#]	<0.01	<0.01	0.06	<0.01				µg/l	0.01	A-T-019w
Acenaphthylene (w) _A [#]	<0.01	<0.01	<0.01	<0.01				µg/l	0.01	A-T-019w
Anthracene (w) _A [#]	0.06	<0.01	0.07	<0.01				µg/l	0.01	A-T-019w
Benzo(a)anthracene (w) _A [#]	<0.01	<0.01	<0.01	<0.01				µg/l	0.01	A-T-019w
Benzo(a)pyrene (w) _A [#]	<0.01	<0.01	<0.01	<0.01				µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w) _A [#]	<0.01	<0.01	<0.01	<0.01				µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w) _A [#]	<0.01	<0.01	<0.01	<0.01				µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w) _A [#]	<0.01	<0.01	<0.01	<0.01				µg/l	0.01	A-T-019w
Chrysene (w) _A [#]	<0.01	<0.01 ^U	<0.01	<0.01 ^U				µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w) _A [#]	<0.01	<0.01	<0.01	<0.01				µg/l	0.01	A-T-019w
Fluoranthene (w) _A [#]	0.01	<0.01	0.19	<0.01				µg/l	0.01	A-T-019w
Fluorene (w) _A [#]	<0.01	<0.01	0.09	<0.01				µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w) _A [#]	<0.01	<0.01	<0.01	<0.01				µg/l	0.01	A-T-019w
Naphthalene (w) _A [#]	0.02	0.02	0.05	<0.01				µg/l	0.01	A-T-019w
Phenanthrene (w) _A [#]	<0.01	<0.01	0.72	<0.01				µg/l	0.01	A-T-019w
Pyrene (w) _A [#]	0.02	<0.01	0.14	<0.01				µg/l	0.01	A-T-019w
Total PAH 16MS (w)_A[#]	0.11	0.02	1.32	<0.01				µg/l	0.01	A-T-019w

Envirolab Job Number: 24/07735

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/07735/1	24/07735/2	24/07735/3	24/07735/4				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH504	RBH501	RBH203	RBH502 Shallow						
Depth to Top	10.50	12.50	14.50	16.00						
Depth To Bottom										
Date Sampled	07-Aug-24	07-Aug-24	07-Aug-24	07-Aug-24						
Sample Type	WATER - EW	WATER - EW	WATER - EW	WATER - EW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
SVOC (excluding PAH-16) (w)										
1,2,4-Trichlorobenzene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
1,2-Dichlorobenzene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
1,3-Dichlorobenzene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
1,4-Dichlorobenzene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2,4,5-Trichlorophenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2,4,6-Trichlorophenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2,4-Dichlorophenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2,4-Dimethylphenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2,4-Dinitrotoluene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2,6-Dinitrotoluene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2-Chloronaphthalene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2-Chlorophenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2-Methylnaphthalene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2-Methylphenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2-Nitrophenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
4-Bromophenyl phenyl ether _A	<1	<1	<1	<1				µg/l	1	A-T-052w
4-Chloro-3-methylphenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Bis(2-chloroisopropyl)ether _A	<1	<1	<1	<1				µg/l	1	A-T-052w
3+4-Methylphenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
4-Nitrophenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Bis(2-chloroethyl)ether _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Bis(2-chloroethoxy)methane _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Bis(2-ethylhexyl)phthalate _A	<10	<10	<10	<10				µg/l	10	A-T-052w
Butylbenzyl phthalate _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Carbazole _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Dibenzofuran _A	<1	<1	<1	<1				µg/l	1	A-T-052w
n-Dibutylphthalate _A	<1	<1	<1	<1				µg/l	1	A-T-052w
n-Dioctylphthalate _A	<10	<10	<10	<10				µg/l	10	A-T-052w
n-Nitroso-n-dipropylamine _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Diethyl phthalate _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Dimethyl phthalate _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Hexachlorobutadiene _A	<1	<1	<1	<1				µg/l	1	A-T-052w

Envirolab Job Number: 24/07735

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/07735/1	24/07735/2	24/07735/3	24/07735/4				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH504	RBH501	RBH203	RBH502 Shallow						
Depth to Top	10.50	12.50	14.50	16.00						
Depth To Bottom										
Date Sampled	07-Aug-24	07-Aug-24	07-Aug-24	07-Aug-24						
Sample Type	WATER - EW	WATER - EW	WATER - EW	WATER - EW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
Hexachlorobenzene SVOC _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Pentachlorophenol SVOC _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Phenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Hexachloroethane _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Nitrobenzene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Isophorone _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Perylene _A	<1	<1	<1	<1				µg/l	1	A-T-052w

Envirolab Job Number: 24/07735

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/07735/1	24/07735/2	24/07735/3	24/07735/4				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH504	RBH501	RBH203	RBH502 Shallow						
Depth to Top	10.50	12.50	14.50	16.00						
Depth To Bottom										
Date Sampled	07-Aug-24	07-Aug-24	07-Aug-24	07-Aug-24						
Sample Type	WATER - EW	WATER - EW	WATER - EW	WATER - EW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
VOC (w)										
Dichlorodifluoromethane _A	<1	<1	<1	<1				µg/l	1	A-T-006w
Chloromethane _A	<10	<10	<10	<10				µg/l	10	A-T-006w
Vinyl Chloride _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Bromomethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Chloroethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	2	<1	<1	<1				µg/l	1	A-T-006w
Dichloromethane _A	<5	<5	<5	<5				µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	145	9	<1	<1				µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5	<5	<5	<5				µg/l	5	A-T-006w
Chloroform _A [#]	9	186	27	93				µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2	<2	<2	<2				µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Benzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	16	160	43	186				µg/l	1	A-T-006w
Dibromomethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10	<10	<10	<10				µg/l	10	A-T-006w
Trichloroethene _A [#]	28	474	36	6				µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	1	2	<1	1				µg/l	1	A-T-006w
Toluene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3	<3	<3	<3				µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Tetrachloroethene _A	<1	<1	<1	<1				µg/l	1	A-T-006w

Envirolab Job Number: 24/07735

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/07735/1	24/07735/2	24/07735/3	24/07735/4				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH504	RBH501	RBH203	RBH502 Shallow						
Depth to Top	10.50	12.50	14.50	16.00						
Depth To Bottom										
Date Sampled	07-Aug-24	07-Aug-24	07-Aug-24	07-Aug-24						
Sample Type	WATER - EW	WATER - EW	WATER - EW	WATER - EW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
1,1,1,2-Tetrachloroethane _A	<1	<1	<1	<1				µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Ethylbenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
m & p Xylene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Bromoform _A [#]	<3	<3	<3	<3				µg/l	3	A-T-006w
Styrene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,1,2,2-Tetrachloroethane _A	<1	2	<1	<1				µg/l	1	A-T-006w
o-Xylene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Bromobenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2	<2	<2	<2				µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2	<2	<2	<2				µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3	<3	<3	<3				µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3	<3	<3	<3				µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w

Envirolab Job Number: 24/07735

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/07735/1	24/07735/2	24/07735/3	24/07735/4				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH504	RBH501	RBH203	RBH502 Shallow						
Depth to Top	10.50	12.50	14.50	16.00						
Depth To Bottom										
Date Sampled	07-Aug-24	07-Aug-24	07-Aug-24	07-Aug-24						
Sample Type	WATER - EW	WATER - EW	WATER - EW	WATER - EW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
TPH UKCWG (w) with Clean Up										
Ali >C5-C6 (w) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-022w
Ali >C6-C8 (w) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-022w
Ali >C8-C10 (w) _A [#]	<5	<5	<5	<5				µg/l	5	A-T-055w
Ali >C10-C12 (w) _A [#]	<5	<5	<5	<5				µg/l	5	A-T-055w
Ali >C12-C16 (w) _A [#]	<5	<5	<5	<5				µg/l	5	A-T-055w
Ali >C16-C21 (w) _A [#]	<5	<5	<5	<5				µg/l	5	A-T-055w
Ali >C21-C35 (w) _A [#]	<5	<5	<5	<5				µg/l	5	A-T-055w
Ali >C35-C44 (w) _A	<5	<5	<5	<5				µg/l	5	A-T-055w
Total Aliphatics (w) _A	<5	<5	<5	<5				µg/l	5	Calc-As Recd
Aro >C5-C7 (w) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-022w
Aro >C7-C8 (w) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-022w
Aro >C8-C10 (w) _A	<5	<5	<5	<5				µg/l	5	A-T-055w
Aro >C10-C12 (w) _A [#]	<5	<5	<5	<5				µg/l	5	A-T-055w
Aro >C12-C16 (w) _A [#]	<5	7	<5	<5				µg/l	5	A-T-055w
Aro >C16-C21 (w) _A [#]	8	19	<5	<5				µg/l	5	A-T-055w
Aro >C21-C35 (w) _A [#]	<10	15	<10	<10				µg/l	10	A-T-055w
Aro >C35-C44 (w) _A	<5	<5	<5	<5				µg/l	5	A-T-055w
Total Aromatics (w) _A	<10	41	<10	<10				µg/l	10	Calc-As Recd
TPH (Ali & Aro >C5-C44) (w) _A	<10	41	<10	<10				µg/l	10	Calc-As Recd
BTEX - Benzene (w) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-022w
BTEX - Toluene (w) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-022w
BTEX - m & p Xylene (w) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-022w
BTEX - o Xylene (w) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-022w
MTBE (w) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-022w

Report Notes

General

- This report shall not be reproduced, except in full, without written approval from Envirolab.
- The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
- The results reported herein relate only to the material supplied to the laboratory.
- The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
- Analytical results reflect the quality of the sample at the time of analysis only.
- Opinions and Interpretations expressed are outside our scope of accreditation.
- A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
- If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
- Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript “#”	Accredited to ISO 17025
Superscript “M”	Accredited to MCertS
Superscript “U”	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript “A”	Analysis performed on as-received Sample
Subscript “D”	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript “D” on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript “A”	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis

“Trace Asbestos Identified” will be reported if there is not enough present to verify the type.

Quantification: Generally a 2 stage process including visual identification, hand picking and weighing, and fibre counting. Where ACMs are found a percentage asbestos is assigned to each with reference to ‘HSG264, Asbestos: The survey guide’ and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres). “TRACE” will be reported as a quantification result.

PLEASE INFORM THE LABORATORY IF YOU WOULD LIKE THE STAGE 3 SEDIMENTATION PROCESS CARRIED OUT. Note this will be subcontracted.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs

Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.

Soil Chemical Analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as ‘% stones >10mm’.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any “D” subscripts.

TPH by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only. Results “with Clean up” indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.

Where these humic substances have been identified in any IDs from “TPH CWG with clean up” please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: ROCP LIMITED, Commercial Wharf 6 Commercial Street, Castlefield,
Manchester, M15 4PZ

Project: Dantzic Street
Clients Project No: 4328

Project No: 24/07735

Date Received: 08/08/2024 (am)

Cool Box Temperatures (°C): 15.2, 15.1, 14.9, 15.4

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	24/07735/1	24/07735/2	24/07735/3	24/07735/4
Client Sample No				
Client Sample ID/Depth	RBH504 10.50m	RBH501 12.50m	RBH203 14.50m	RBH502 Shallow 16.00m
Date Sampled	07/08/24	07/08/24	07/08/24	07/08/24
A-T-006w	12/08/2024	12/08/2024	12/08/2024	12/08/2024
A-T-019w	13/08/2024	14/08/2024	13/08/2024	14/08/2024
A-T-022w	13/08/2024	13/08/2024	13/08/2024	13/08/2024
A-T-025w	09/08/2024	09/08/2024	09/08/2024	09/08/2024
A-T-026w	12/08/2024	12/08/2024	12/08/2024	12/08/2024
A-T-031w	09/08/2024	09/08/2024	09/08/2024	09/08/2024
A-T-032w	12/08/2024	12/08/2024	12/08/2024	12/08/2024
A-T-040w	12/08/2024	12/08/2024	12/08/2024	12/08/2024
A-T-042wTCN	09/08/2024	09/08/2024	09/08/2024	09/08/2024
A-T-049w	12/08/2024	12/08/2024	12/08/2024	12/08/2024
A-T-050w	12/08/2024	12/08/2024	12/08/2024	12/08/2024
A-T-052w	14/08/2024	14/08/2024	14/08/2024	14/08/2024
A-T-055w	12/08/2024	12/08/2024	12/08/2024	12/08/2024
Calc	12/08/2024	12/08/2024	12/08/2024	12/08/2024
Calc-As Recd	13/08/2024	13/08/2024	13/08/2024	13/08/2024

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

FINAL ANALYTICAL TEST REPORT SUPPLEMENT TO TEST REPORT 24/07737/1

Amendments: Request for project/sample information change

Envirolab Job Number: 24/07737
Issue Number: 2

Date: 19 September, 2024

Client: ROCP LIMITED
Commercial Wharf 6 Commercial Street
Castlefield
Manchester
M15 4PZ

Project Manager: Reece McGuinness
Project Name: Dantzic Street
Project Ref: 4328
Order No: PBJ20313
Date Samples Received: 07/08/24
Date Instructions Received: 08/08/24
Date Analysis Completed: 14/08/24

Approved by:

A handwritten signature in black ink, appearing to read "Gemma Berrisford".

Gemma Berrisford
Deputy Client Services Supervisor

Envirolab Job Number: 24/07737

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/07737/1	24/07737/2	24/07737/3	24/07737/4				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH505	LKBH01	RBH305	RBH503						
Depth to Top	10.50	13.00	7.00	8.00						
Depth To Bottom										
Date Sampled	06-Aug-24	06-Aug-24	06-Aug-24	06-Aug-24						
Sample Type	WATER - EW	WATER - EW	WATER - EW	WATER - EW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
pH (w) _A [#]	6.64	7.01	6.77	6.67				pH	0.01	A-T-031w
Hardness Total _A [#]	667	576	511	573				mg/l Ca CO ₃	4	A-T-049w
Sulphate (w) _A [#]	218	199	317	273				mg/l	1	A-T-026w
Cyanide (total) (w) _A [#]	0.265	0.047	<0.005	0.054				mg/l	0.005	A-T-042wTCN
Phenols - Total by HPLC (w) _A	<0.01	0.01	<0.01	<0.01				mg/l	0.01	A-T-050w
DOC - Dissolved Organic Carbon (w) _A [#]	6.3	7.1	7.7	5.9				mg/l	2	A-T-032w
Antimony (dissolved) _A	<1	<1	2	<1				µg/l	1	A-T-025w
Arsenic (dissolved) _A [#]	2	19	<1	6				µg/l	1	A-T-025w
Boron (dissolved) _A [#]	192	130	395	248				µg/l	10	A-T-025w
Barium (dissolved) _A [#]	57	43	100	101				µg/l	1	A-T-025w
Beryllium (dissolved) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-025w
Cadmium (dissolved) _A [#]	<0.2	<0.2	<0.2	<0.2				µg/l	0.2	A-T-025w
Copper (dissolved) _A [#]	<4	<4	<4	<4				µg/l	4	A-T-025w
Chromium (dissolved) _A [#]	<1	<1	2	<1				µg/l	1	A-T-025w
Chromium (hexavalent) (w) _A [#]	<0.02	<0.01	<0.01	<0.01				mg/l	0.01	A-T-040w
Chromium (trivalent) (w)	<0.02	<0.01	<0.01	<0.01				mg/l	0.01	Calc
Lead (dissolved) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-025w
Mercury (dissolved) _A [#]	<0.1	<0.1	<0.1	<0.1				µg/l	0.1	A-T-025w
Molybdenum (dissolved) _A [#]	<0.5	0.5	5.9	<0.5				µg/l	0.5	A-T-025w
Nickel (dissolved) _A [#]	<2	<2	5	3				µg/l	2	A-T-025w
Selenium (dissolved) _A [#]	<1	<1	3	<1				µg/l	1	A-T-025w
Vanadium (dissolved) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-025w
Zinc (dissolved) _A [#]	3	3	13	4				µg/l	2	A-T-025w

Envirolab Job Number: 24/07737

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/07737/1	24/07737/2	24/07737/3	24/07737/4				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH505	LKBH01	RBH305	RBH503						
Depth to Top	10.50	13.00	7.00	8.00						
Depth To Bottom										
Date Sampled	06-Aug-24	06-Aug-24	06-Aug-24	06-Aug-24						
Sample Type	WATER - EW	WATER - EW	WATER - EW	WATER - EW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
PAH 16MS (w)										
Acenaphthene (w) _A [#]	0.15	0.21	<0.01	0.17				µg/l	0.01	A-T-019w
Acenaphthylene (w) _A [#]	<0.01	0.01	<0.01	<0.01				µg/l	0.01	A-T-019w
Anthracene (w) _A [#]	0.04	0.05	<0.01	0.06				µg/l	0.01	A-T-019w
Benzo(a)anthracene (w) _A [#]	<0.01	<0.01	<0.01	0.05				µg/l	0.01	A-T-019w
Benzo(a)pyrene (w) _A [#]	<0.01	<0.01	<0.01	0.05				µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w) _A [#]	<0.01	<0.01	<0.01	0.07				µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w) _A [#]	<0.01	<0.01	<0.01	0.04				µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w) _A [#]	<0.01	<0.01	<0.01	0.03				µg/l	0.01	A-T-019w
Chrysene (w) _A [#]	<0.01	<0.01	<0.01	0.05				µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w) _A [#]	<0.01	<0.01	<0.01	<0.01				µg/l	0.01	A-T-019w
Fluoranthene (w) _A [#]	0.01	<0.01	<0.01	0.15				µg/l	0.01	A-T-019w
Fluorene (w) _A [#]	<0.01	<0.01	<0.01	0.03				µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w) _A [#]	<0.01	<0.01	<0.01	0.04				µg/l	0.01	A-T-019w
Naphthalene (w) _A [#]	0.04	0.06	0.02	0.07				µg/l	0.01	A-T-019w
Phenanthrene (w) _A [#]	0.01	<0.01	<0.01	0.07				µg/l	0.01	A-T-019w
Pyrene (w) _A [#]	0.04	<0.01	<0.01	0.14				µg/l	0.01	A-T-019w
Total PAH 16MS (w) _A [#]	0.29	0.33	0.02	1.02				µg/l	0.01	A-T-019w

Envirolab Job Number: 24/07737

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/07737/1	24/07737/2	24/07737/3	24/07737/4				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH505	LKBH01	RBH305	RBH503						
Depth to Top	10.50	13.00	7.00	8.00						
Depth To Bottom										
Date Sampled	06-Aug-24	06-Aug-24	06-Aug-24	06-Aug-24						
Sample Type	WATER - EW	WATER - EW	WATER - EW	WATER - EW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
SVOC (excluding PAH-16) (w)										
1,2,4-Trichlorobenzene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
1,2-Dichlorobenzene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
1,3-Dichlorobenzene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
1,4-Dichlorobenzene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2,4,5-Trichlorophenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2,4,6-Trichlorophenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2,4-Dichlorophenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2,4-Dimethylphenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2,4-Dinitrotoluene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2,6-Dinitrotoluene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2-Chloronaphthalene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2-Chlorophenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2-Methylnaphthalene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2-Methylphenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2-Nitrophenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
4-Bromophenyl phenyl ether _A	<1	<1	<1	<1				µg/l	1	A-T-052w
4-Chloro-3-methylphenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Bis(2-chloroisopropyl)ether _A	<1	<1	<1	<1				µg/l	1	A-T-052w
3+4-Methylphenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
4-Nitrophenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Bis(2-chloroethyl)ether _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Bis(2-chloroethoxy)methane _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Bis(2-ethylhexyl)phthalate _A	<10	<10	<10	<10				µg/l	10	A-T-052w
Butylbenzyl phthalate _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Carbazole _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Dibenzofuran _A	<1	<1	<1	<1				µg/l	1	A-T-052w
n-Dibutylphthalate _A	<1	<1	<1	<1				µg/l	1	A-T-052w
n-Diethylphthalate _A	<10	<10	<10	<10				µg/l	10	A-T-052w
n-Nitroso-n-dipropylamine _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Diethyl phthalate _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Dimethyl phthalate _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Hexachlorobutadiene _A	<1	<1	<1	<1				µg/l	1	A-T-052w

Envirolab Job Number: 24/07737

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/07737/1	24/07737/2	24/07737/3	24/07737/4				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH505	LKBH01	RBH305	RBH503						
Depth to Top	10.50	13.00	7.00	8.00						
Depth To Bottom										
Date Sampled	06-Aug-24	06-Aug-24	06-Aug-24	06-Aug-24						
Sample Type	WATER - EW	WATER - EW	WATER - EW	WATER - EW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
Hexachlorobenzene SVOC _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Pentachlorophenol SVOC _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Phenol _A	<1	7	<1	1				µg/l	1	A-T-052w
Hexachloroethane _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Nitrobenzene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Isophorone _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Perylene _A	<1	<1	<1	<1				µg/l	1	A-T-052w

Envirolab Job Number: 24/07737

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/07737/1	24/07737/2	24/07737/3	24/07737/4				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH505	LKBH01	RBH305	RBH503						
Depth to Top	10.50	13.00	7.00	8.00						
Depth To Bottom										
Date Sampled	06-Aug-24	06-Aug-24	06-Aug-24	06-Aug-24						
Sample Type	WATER - EW	WATER - EW	WATER - EW	WATER - EW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
VOC (w)										
Dichlorodifluoromethane _A	<1	<1	<1	<1				µg/l	1	A-T-006w
Chloromethane _A	<10	<10	<10	<10				µg/l	10	A-T-006w
Vinyl Chloride _A [#]	<1	11	<1	59				µg/l	1	A-T-006w
Bromomethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Chloroethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	<1	214	<1	34				µg/l	1	A-T-006w
Dichloromethane _A	<5	<5	<5	<5				µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	<1	307	<1	74				µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5	<5	<5	<5				µg/l	5	A-T-006w
Chloroform _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2	<2	<2	<2				µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Benzene _A [#]	<1	109	<1	17				µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Dibromomethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10	<10	<10	<10				µg/l	10	A-T-006w
Trichloroethene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Toluene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3	<3	<3	<3				µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Tetrachloroethene _A	<1	<1	<1	<1				µg/l	1	A-T-006w

Envirolab Job Number: 24/07737

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/07737/1	24/07737/2	24/07737/3	24/07737/4				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH505	LKBH01	RBH305	RBH503						
Depth to Top	10.50	13.00	7.00	8.00						
Depth To Bottom										
Date Sampled	06-Aug-24	06-Aug-24	06-Aug-24	06-Aug-24						
Sample Type	WATER - EW	WATER - EW	WATER - EW	WATER - EW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
1,1,1,2-Tetrachloroethane _A	<1	<1	<1	<1				µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Ethylbenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
m & p Xylene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Bromoform _A [#]	<3	<3	<3	<3				µg/l	3	A-T-006w
Styrene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,1,2,2-Tetrachloroethane _A	<1	<1	<1	<1				µg/l	1	A-T-006w
o-Xylene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Bromobenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2	<2	<2	<2				µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2	<2	<2	<2				µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3	<3	<3	<3				µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3	<3	<3	<3				µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w

Envirolab Job Number: 24/07737

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/07737/1	24/07737/2	24/07737/3	24/07737/4				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH505	LKBH01	RBH305	RBH503						
Depth to Top	10.50	13.00	7.00	8.00						
Depth To Bottom										
Date Sampled	06-Aug-24	06-Aug-24	06-Aug-24	06-Aug-24						
Sample Type	WATER - EW	WATER - EW	WATER - EW	WATER - EW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
TPH UKCWG (w) with Clean Up										
Ali >C5-C6 (w) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-022w
Ali >C6-C8 (w) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-022w
Ali >C8-C10 (w) _A [#]	<5	<5	<5	<5				µg/l	5	A-T-055w
Ali >C10-C12 (w) _A [#]	<5	<5	<5	<5				µg/l	5	A-T-055w
Ali >C12-C16 (w) _A [#]	<5	<5	<5	<5				µg/l	5	A-T-055w
Ali >C16-C21 (w) _A [#]	<5	<5	<5	<5				µg/l	5	A-T-055w
Ali >C21-C35 (w) _A [#]	<5	<5	<5	<5				µg/l	5	A-T-055w
Ali >C35-C44 (w) _A	<5	<5	<5	<5				µg/l	5	A-T-055w
Total Aliphatics (w) _A	<5	<5	<5	<5				µg/l	5	Calc-As Recd
Aro >C5-C7 (w) _A [#]	<1	109	<1	17				µg/l	1	A-T-022w
Aro >C7-C8 (w) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-022w
Aro >C8-C10 (w) _A	<5	<5	<5	<5				µg/l	5	A-T-055w
Aro >C10-C12 (w) _A [#]	<5	<5	<5	<5				µg/l	5	A-T-055w
Aro >C12-C16 (w) _A [#]	<5	8	<5	<5				µg/l	5	A-T-055w
Aro >C16-C21 (w) _A [#]	<5	10	<5	<5				µg/l	5	A-T-055w
Aro >C21-C35 (w) _A [#]	<10	<10	<10	<10				µg/l	10	A-T-055w
Aro >C35-C44 (w) _A	<5	<5	<5	<5				µg/l	5	A-T-055w
Total Aromatics (w) _A	<10	127	<10	17				µg/l	10	Calc-As Recd
TPH (Ali & Aro >C5-C44) (w) _A	<10	127	<10	17				µg/l	10	Calc-As Recd
BTEX - Benzene (w) _A [#]	<1	109	<1	17				µg/l	1	A-T-022w
BTEX - Toluene (w) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-022w
BTEX - m & p Xylene (w) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-022w
BTEX - o Xylene (w) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-022w
MTBE (w) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-022w

Report Notes

General

- This report shall not be reproduced, except in full, without written approval from Envirolab.
- The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
- The results reported herein relate only to the material supplied to the laboratory.
- The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
- Analytical results reflect the quality of the sample at the time of analysis only.
- Opinions and Interpretations expressed are outside our scope of accreditation.
- A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
- If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
- Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript “#”	Accredited to ISO 17025
Superscript “M”	Accredited to MCertS
Superscript “U”	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript “A”	Analysis performed on as-received Sample
Subscript “D”	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript “D” on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript “A”	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis

“Trace Asbestos Identified” will be reported if there is not enough present to verify the type.

Quantification: Generally a 2 stage process including visual identification, hand picking and weighing, and fibre counting. Where ACMs are found a percentage asbestos is assigned to each with reference to ‘HSG264, Asbestos: The survey guide’ and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres). “TRACE” will be reported as a quantification result.

PLEASE INFORM THE LABORATORY IF YOU WOULD LIKE THE STAGE 3 SEDIMENTATION PROCESS CARRIED OUT. Note this will be subcontracted.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs
Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.					

Soil Chemical Analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as ‘% stones >10mm’.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any “D” subscripts.

TPH by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only. Results “with Clean up” indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.

Where these humic substances have been identified in any IDs from “TPH CWG with clean up” please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: ROCP LIMITED, Commercial Wharf 6 Commercial Street, Castlefield,
Manchester, M15 4PZ

Project: Dantzic Street

Clients Project No: 4328

Project No: 24/07737

Date Received: 08/08/2024 (am)

Cool Box Temperatures (°C): 15.2, 15.1, 14.9, 15.4

NO DEVIATIONS IDENTIFIED with respect to sampling dates or containers received.

Note: If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3 (for water samples $5 \pm 3^{\circ}\text{C}$), ISO 18400-105:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	24/07737/1	24/07737/2	24/07737/3	24/07737/4
Client Sample No				
Client Sample ID/Depth	RBH505 10.50m	LKBH01 13.00m	RBH305 7.00m	RBH503 8.00m
Date Sampled	06/08/24	06/08/24	06/08/24	06/08/24
A-T-006w	12/08/2024	12/08/2024	12/08/2024	12/08/2024
A-T-019w	13/08/2024	13/08/2024	13/08/2024	13/08/2024
A-T-022w	13/08/2024	13/08/2024	13/08/2024	13/08/2024
A-T-025w	09/08/2024	09/08/2024	09/08/2024	09/08/2024
A-T-026w	12/08/2024	12/08/2024	12/08/2024	12/08/2024
A-T-031w	09/08/2024	09/08/2024	09/08/2024	09/08/2024
A-T-032w	13/08/2024	13/08/2024	13/08/2024	13/08/2024
A-T-040w	12/08/2024	12/08/2024	12/08/2024	12/08/2024
A-T-042wTCN	09/08/2024	09/08/2024	09/08/2024	14/08/2024
A-T-049w	12/08/2024	12/08/2024	12/08/2024	12/08/2024
A-T-050w	12/08/2024	12/08/2024	12/08/2024	12/08/2024
A-T-052w	14/08/2024	14/08/2024	14/08/2024	14/08/2024
A-T-055w	12/08/2024	12/08/2024	12/08/2024	12/08/2024
Calc	12/08/2024	12/08/2024	12/08/2024	12/08/2024
Calc-As Recd	13/08/2024	13/08/2024	13/08/2024	13/08/2024

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 24/08164
Issue Number: 1

Date: 09 September, 2024

Client: ROCP LIMITED
Commercial Wharf 6 Commercial Street
Castlefield
Manchester
M15 4PZ

Project Manager: Reece McGuinness
Project Name: Dantzic Street
Project Ref: 4328
Order No: PBJ20317
Date Samples Received: 21/08/24
Date Instructions Received: 22/08/24
Date Analysis Completed: 07/09/24

Approved by:



Gemma Berrisford
Deputy Client Services Supervisor

Envirolab Job Number: 24/08164

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/08164/1	24/08164/2	24/08164/3	24/08164/4				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH305	RBH503	LKBH01	RBH505 Shallow						
Depth to Top	7.00	8.00	13.00	10.50						
Depth To Bottom										
Date Sampled	20-Aug-24	20-Aug-24	20-Aug-24	20-Aug-24						
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
pH (w) [#]	6.69	6.68	7.04	6.64				pH	0.01	A-T-031w
Hardness Total [#]	417	551	516	628				mg/l Ca CO3	4	A-T-049w
Sulphate (w) [#]	186	245	170	181				mg/l	1	A-T-026w
Cyanide (total) (w) [#]	<0.005	0.043	0.049	0.265				mg/l	0.005	A-T-042wTCN
Phenols - Total by HPLC (w) _A	<0.01	<0.10	<0.10	<0.10				mg/l	0.01	A-T-050w
DOC - Dissolved Organic Carbon (w) [#]	4.2	3.1	2.6	2.2				mg/l	2	A-T-032w
Antimony (dissolved) _A	1	<1	<1	<1				µg/l	1	A-T-025w
Arsenic (dissolved) _A [#]	<1	6	21	6				µg/l	1	A-T-025w
Boron (dissolved) _A [#]	421	233	130	175				µg/l	10	A-T-025w
Barium (dissolved) _A [#]	93	101	48	58				µg/l	1	A-T-025w
Beryllium (dissolved) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-025w
Cadmium (dissolved) _A [#]	<0.2	<0.2	<0.2	<0.2				µg/l	0.2	A-T-025w
Copper (dissolved) _A [#]	<4	<4	10	<4				µg/l	4	A-T-025w
Chromium (dissolved) _A [#]	10	<1	2	<1				µg/l	1	A-T-025w
Chromium (hexavalent) (w) _A [#]	<0.01	<0.01	<0.01	<0.01				mg/l	0.01	A-T-040w
Chromium (trivalent) (w)	0.01	<0.01	<0.01	<0.01				mg/l	0.01	Calc
Lead (dissolved) _A [#]	1	2	28	3				µg/l	1	A-T-025w
Mercury (dissolved) _A [#]	<0.1	<0.1	<0.1	<0.1				µg/l	0.1	A-T-025w
Molybdenum (dissolved) _A [#]	3.0	<0.5	<0.5	<0.5				µg/l	0.5	A-T-025w
Nickel (dissolved) _A [#]	4	3	<2	<2				µg/l	2	A-T-025w
Selenium (dissolved) _A [#]	3	<1	<1	<1				µg/l	1	A-T-025w
Vanadium (dissolved) _A [#]	<1	<1	3	<1				µg/l	1	A-T-025w
Zinc (dissolved) _A [#]	12	4	29	6				µg/l	2	A-T-025w

Envirolab Job Number: 24/08164

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/08164/1	24/08164/2	24/08164/3	24/08164/4				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH305	RBH503	LKBH01	RBH505 Shallow						
Depth to Top	7.00	8.00	13.00	10.50						
Depth To Bottom										
Date Sampled	20-Aug-24	20-Aug-24	20-Aug-24	20-Aug-24						
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
PAH 16MS (w)										
Acenaphthene (w) _A [#]	<0.01	0.09	0.20	0.09				µg/l	0.01	A-T-019w
Acenaphthylene (w) _A [#]	<0.01	<0.01	0.02	<0.01				µg/l	0.01	A-T-019w
Anthracene (w) _A [#]	<0.01	0.05	0.05	0.03				µg/l	0.01	A-T-019w
Benzo(a)anthracene (w) _A [#]	<0.01	0.05	<0.01	<0.01				µg/l	0.01	A-T-019w
Benzo(a)pyrene (w) _A [#]	<0.01	0.06	<0.01	<0.01				µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w) _A [#]	<0.01	0.06	<0.01	<0.01				µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w) _A [#]	<0.01	0.04	<0.01	<0.01				µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w) _A [#]	<0.01	0.03	<0.01	<0.01				µg/l	0.01	A-T-019w
Chrysene (w) _A [#]	<0.01	0.06	<0.01	<0.01				µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w) _A [#]	<0.01	<0.01	<0.01	<0.01				µg/l	0.01	A-T-019w
Fluoranthene (w) _A [#]	<0.01	0.15	<0.01	<0.01				µg/l	0.01	A-T-019w
Fluorene (w) _A [#]	<0.01	0.02	<0.01	<0.01				µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w) _A [#]	<0.01	0.04	<0.01	<0.01				µg/l	0.01	A-T-019w
Naphthalene (w) _A [#]	<0.01	0.04	0.04	0.03				µg/l	0.01	A-T-019w
Phenanthrene (w) _A [#]	<0.01	0.06	<0.01	<0.01				µg/l	0.01	A-T-019w
Pyrene (w) _A [#]	<0.01	0.13	0.01	0.03				µg/l	0.01	A-T-019w
Total PAH 16MS (w) _A [#]	<0.01	0.88	0.32	0.18				µg/l	0.01	A-T-019w

Envirolab Job Number: 24/08164

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/08164/1	24/08164/2	24/08164/3	24/08164/4				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH305	RBH503	LKBH01	RBH505 Shallow						
Depth to Top	7.00	8.00	13.00	10.50						
Depth To Bottom										
Date Sampled	20-Aug-24	20-Aug-24	20-Aug-24	20-Aug-24						
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
SVOC (excluding PAH-16) (w)										
1,2,4-Trichlorobenzene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
1,2-Dichlorobenzene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
1,3-Dichlorobenzene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
1,4-Dichlorobenzene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2,4,5-Trichlorophenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2,4,6-Trichlorophenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2,4-Dichlorophenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2,4-Dimethylphenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2,4-Dinitrotoluene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2,6-Dinitrotoluene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2-Chloronaphthalene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2-Chlorophenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2-Methylnaphthalene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2-Methylphenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
2-Nitrophenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
4-Bromophenyl phenyl ether _A	<1	<1	<1	<1				µg/l	1	A-T-052w
4-Chloro-3-methylphenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Bis(2-chloroisopropyl)ether _A	<1	<1	<1	<1				µg/l	1	A-T-052w
3+4-Methylphenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
4-Nitrophenol _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Bis(2-chloroethyl)ether _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Bis(2-chloroethoxy)methane _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Bis(2-ethylhexyl)phthalate _A	<10	<10	<10	<10				µg/l	10	A-T-052w
Butylbenzyl phthalate _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Carbazole _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Dibenzofuran _A	<1	<1	<1	<1				µg/l	1	A-T-052w
n-Dibutylphthalate _A	<1	<1	<1	<1				µg/l	1	A-T-052w
n-Dioctylphthalate _A	<10	<10	<10	<10				µg/l	10	A-T-052w
n-Nitroso-n-dipropylamine _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Diethyl phthalate _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Dimethyl phthalate _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Hexachlorobutadiene _A	<1	<1	<1	<1				µg/l	1	A-T-052w

Envirolab Job Number: 24/08164

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/08164/1	24/08164/2	24/08164/3	24/08164/4				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH305	RBH503	LKBH01	RBH505 Shallow						
Depth to Top	7.00	8.00	13.00	10.50						
Depth To Bottom										
Date Sampled	20-Aug-24	20-Aug-24	20-Aug-24	20-Aug-24						
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
Hexachlorobenzene SVOC _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Pentachlorophenol SVOC _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Phenol _A	<1	2	9	<1				µg/l	1	A-T-052w
Hexachloroethane _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Nitrobenzene _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Isophorone _A	<1	<1	<1	<1				µg/l	1	A-T-052w
Perylene _A	<1	<1	<1	<1				µg/l	1	A-T-052w

Envirolab Job Number: 24/08164

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/08164/1	24/08164/2	24/08164/3	24/08164/4				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH305	RBH503	LKBH01	RBH505 Shallow						
Depth to Top	7.00	8.00	13.00	10.50						
Depth To Bottom										
Date Sampled	20-Aug-24	20-Aug-24	20-Aug-24	20-Aug-24						
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
VOC (w)										
Dichlorodifluoromethane _A	<1	<1	<1	<1				µg/l	1	A-T-006w
Chloromethane _A	<10	<10	<10	<10				µg/l	10	A-T-006w
Vinyl Chloride _A [#]	<1	42	8	<1				µg/l	1	A-T-006w
Bromomethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Chloroethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	<1	27	250	<1				µg/l	1	A-T-006w
Dichloromethane _A	<5	<5	<5	<5				µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	<1	88	360	<1				µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5	<5	<5	<5				µg/l	5	A-T-006w
Chloroform _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2	<2	<2	<2				µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Benzene _A [#]	<1	24	143	<1				µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Dibromomethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10	<10	<10	<10				µg/l	10	A-T-006w
Trichloroethene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Toluene _A [#]	<1 ^U	<1 ^U	<1 ^U	<1 ^U				µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3	<3	<3	<3				µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Tetrachloroethene _A	<1	<1	<1	<1				µg/l	1	A-T-006w

Envirolab Job Number: 24/08164

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/08164/1	24/08164/2	24/08164/3	24/08164/4				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH305	RBH503	LKBH01	RBH505 Shallow						
Depth to Top	7.00	8.00	13.00	10.50						
Depth To Bottom										
Date Sampled	20-Aug-24	20-Aug-24	20-Aug-24	20-Aug-24						
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
1,1,1,2-Tetrachloroethane _A	<1	<1	<1	<1				µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Ethylbenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
m & p Xylene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Bromoform _A [#]	<3	<3	<3	<3				µg/l	3	A-T-006w
Styrene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,1,2,2-Tetrachloroethane _A	<1	<1	<1	<1				µg/l	1	A-T-006w
o-Xylene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1 ^U	<1 ^U	<1 ^U	<1 ^U				µg/l	1	A-T-006w
Bromobenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2	<2	<2	<2				µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2	<2	<2	<2				µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3	<3	<3	<3				µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3	<3	<3	<3				µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1	<1	<1	<1				µg/l	1	A-T-006w

Envirolab Job Number: 24/08164

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/08164/1	24/08164/2	24/08164/3	24/08164/4				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH305	RBH503	LKBH01	RBH505 Shallow						
Depth to Top	7.00	8.00	13.00	10.50						
Depth To Bottom										
Date Sampled	20-Aug-24	20-Aug-24	20-Aug-24	20-Aug-24						
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW						
Sample Matrix Code	N/A	N/A	N/A	N/A						
TPH UKCWG (w) with Clean Up										
Ali >C5-C6 (w) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-022w
Ali >C6-C8 (w) _A [#]	<1	<1	1	2				µg/l	1	A-T-022w
Ali >C8-C10 (w) _A [#]	<5	<5	<5	<5				µg/l	5	A-T-055w
Ali >C10-C12 (w) _A [#]	<5	<5	<5	<5				µg/l	5	A-T-055w
Ali >C12-C16 (w) _A [#]	<5	<5	<5	<5				µg/l	5	A-T-055w
Ali >C16-C21 (w) _A [#]	<5	<5	<5	<5				µg/l	5	A-T-055w
Ali >C21-C35 (w) _A [#]	<5	<5	<5	<5				µg/l	5	A-T-055w
Ali >C35-C44 (w) _A	<5	<5	<5	<5				µg/l	5	A-T-055w
Total Aliphatics (w) _A	<5	<5	<5	<5				µg/l	5	Calc-As Recd
Aro >C5-C7 (w) _A [#]	<1	26	129	<1				µg/l	1	A-T-022w
Aro >C7-C8 (w) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-022w
Aro >C8-C10 (w) _A	<5	6	9	<5				µg/l	5	A-T-055w
Aro >C10-C12 (w) _A [#]	<5	<5	<5	<5				µg/l	5	A-T-055w
Aro >C12-C16 (w) _A [#]	<5	7	9	<5				µg/l	5	A-T-055w
Aro >C16-C21 (w) _A [#]	<5	8	10	<5				µg/l	5	A-T-055w
Aro >C21-C35 (w) _A [#]	<10	<10	<10	<10				µg/l	10	A-T-055w
Aro >C35-C44 (w) _A	<5	<5	<5	<5				µg/l	5	A-T-055w
Total Aromatics (w) _A	<10	47	157	<10				µg/l	10	Calc-As Recd
TPH (Ali & Aro >C5-C44) (w) _A	<10	47	158	<10				µg/l	10	Calc-As Recd
BTEX - Benzene (w) _A [#]	<1	26	129	<1				µg/l	1	A-T-022w
BTEX - Toluene (w) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-022w
BTEX - m & p Xylene (w) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-022w
BTEX - o Xylene (w) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-022w
MTBE (w) _A [#]	<1	<1	<1	<1				µg/l	1	A-T-022w

Report Notes

General

- This report shall not be reproduced, except in full, without written approval from Envirolab.
- The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
- The results reported herein relate only to the material supplied to the laboratory.
- The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
- Analytical results reflect the quality of the sample at the time of analysis only.
- Opinions and Interpretations expressed are outside our scope of accreditation.
- A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
- If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
- Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript “#”	Accredited to ISO 17025
Superscript “M”	Accredited to MCertS
Superscript “U”	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript “A”	Analysis performed on as-received Sample
Subscript “D”	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript “D” on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript “A”	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis

“Trace Asbestos Identified” will be reported if there is not enough present to verify the type.

Quantification: Generally a 2 stage process including visual identification, hand picking and weighing, and fibre counting. Where ACMs are found a percentage asbestos is assigned to each with reference to ‘HSG264, Asbestos: The survey guide’ and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres). “TRACE” will be reported as a quantification result.

PLEASE INFORM THE LABORATORY IF YOU WOULD LIKE THE STAGE 3 SEDIMENTATION PROCESS CARRIED OUT. Note this will be subcontracted.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs

Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.

Soil Chemical Analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as ‘% stones >10mm’.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any “D” subscripts.

TPH by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only. Results “with Clean up” indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.

Where these humic substances have been identified in any IDs from “TPH CWG with clean up” please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
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Client: ROCP LIMITED, Commercial Wharf 6 Commercial Street, Castlefield,
Manchester, M15 4PZ

Project: Dantzic Street

Clients Project No: 4328

Project No: 24/08164

Date Received: 22/08/2024 (am)

Cool Box Temperatures (°C): 16.3 & 16.5

Lab Sample ID	24/08164/1	24/08164/2	24/08164/3	24/08164/4
Client Sample No				
Client Sample ID/Depth	RBH305 7.00m	RBH503 8.00m	LKBH01 13.00m	RBH505 Shallow 10.50m
Date Sampled	20/08/24	20/08/24	20/08/24	20/08/24
Deviation Code				
A8 (no NaOH)	✓	✓	✓	✓

Key
A8 (no NaOH) No NaOH preserved bottle provided (cyanides, sulphide will be deviating)

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	24/08164/1	24/08164/2	24/08164/3	24/08164/4
Client Sample No				
Client Sample ID/Depth	RBH305 7.00m	RBH503 8.00m	LKBH01 13.00m	RBH505 Shallow 10.50m
Date Sampled	20/08/24	20/08/24	20/08/24	20/08/24
A-T-006w	28/08/2024	28/08/2024	28/08/2024	28/08/2024
A-T-019w	28/08/2024	28/08/2024	28/08/2024	28/08/2024
A-T-022w	28/08/2024	28/08/2024	28/08/2024	28/08/2024
A-T-025w	27/08/2024	29/08/2024	27/08/2024	29/08/2024
A-T-026w	23/08/2024	23/08/2024	23/08/2024	23/08/2024
A-T-031w	23/08/2024	23/08/2024	23/08/2024	23/08/2024
A-T-032w	07/09/2024	07/09/2024	07/09/2024	07/09/2024
A-T-040w	23/08/2024	23/08/2024	23/08/2024	23/08/2024
A-T-042wTCN	23/08/2024	23/08/2024	23/08/2024	23/08/2024
A-T-049w	30/08/2024	30/08/2024	30/08/2024	30/08/2024
A-T-050w	23/08/2024	27/08/2024	27/08/2024	27/08/2024
A-T-052w	29/08/2024	29/08/2024	29/08/2024	29/08/2024
A-T-055w	27/08/2024	27/08/2024	27/08/2024	27/08/2024
Calc	27/08/2024	27/08/2024	27/08/2024	27/08/2024
Calc-As Recd	28/08/2024	28/08/2024	28/08/2024	28/08/2024

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 24/08195
Issue Number: 1

Date: 09 September, 2024

Client: ROCP LIMITED
Commercial Wharf 6 Commercial Street
Castlefield
Manchester
M15 4PZ

Project Manager: Reece McGuinness
Project Name: Dantzie Street
Project Ref: 4328
Order No: PBJ20317
Date Samples Received: 22/08/24
Date Instructions Received: 23/08/24
Date Analysis Completed: 07/09/24

Approved by:



Richard Wong
Client Manager

Envirolab Job Number: 24/08195

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/08195/1	24/08195/2	24/08195/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH501	RBH203	RBH502							
Depth to Top	12.50	14.50	16.00							
Depth To Bottom										
Date Sampled	21-Aug-24	21-Aug-24	21-Aug-24							
Sample Type	WATER - GW	WATER - GW	WATER - GW							
Sample Matrix Code	N/A	N/A	N/A							
pH (w) [#]	6.92	6.85	6.93					pH	0.01	A-T-031w
Sulphate (w) _A [#]	124	71	195					mg/l	1	A-T-026w
Cyanide (total) (w) _A [#]	<0.005	<0.005	0.014					mg/l	0.005	A-T-042wTCN
Phenols - Total by HPLC (w) _A	<0.01	<0.01	<0.01					mg/l	0.01	A-T-050w
DOC - Dissolved Organic Carbon (w) _A [#]	2.0	<2.0	2.4					mg/l	2	A-T-032w
Antimony (dissolved) _A	<1	<1	<1					µg/l	1	A-T-025w
Arsenic (dissolved) _A [#]	<1	<1	<1					µg/l	1	A-T-025w
Boron (dissolved) _A [#]	302	217	236					µg/l	10	A-T-025w
Barium (dissolved) _A [#]	84	61	89					µg/l	1	A-T-025w
Beryllium (dissolved) _A [#]	<1	<1	<1					µg/l	1	A-T-025w
Cadmium (dissolved) _A [#]	<0.2	<0.2	<0.2					µg/l	0.2	A-T-025w
Copper (dissolved) _A [#]	<4	<4	<4					µg/l	4	A-T-025w
Chromium (dissolved) _A [#]	11	13	6					µg/l	1	A-T-025w
Chromium (hexavalent) (w) _A [#]	<0.01	<0.01	<0.01					mg/l	0.01	A-T-040w
Chromium (trivalent) (w)	0.01	0.01	<0.01					mg/l	0.01	Calc
Lead (dissolved) _A [#]	<1	<1	<1					µg/l	1	A-T-025w
Mercury (dissolved) _A [#]	<0.1	<0.1	<0.1					µg/l	0.1	A-T-025w
Molybdenum (dissolved) _A [#]	<0.5	<0.5	<0.5					µg/l	0.5	A-T-025w
Nickel (dissolved) _A [#]	<2	<2	<2					µg/l	2	A-T-025w
Selenium (dissolved) _A [#]	2	2	2					µg/l	1	A-T-025w
Vanadium (dissolved) _A [#]	<1	<1	<1					µg/l	1	A-T-025w
Zinc (dissolved) _A [#]	3	2	5					µg/l	2	A-T-025w

Envirolab Job Number: 24/08195

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/08195/1	24/08195/2	24/08195/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH501	RBH203	RBH502							
Depth to Top	12.50	14.50	16.00							
Depth To Bottom										
Date Sampled	21-Aug-24	21-Aug-24	21-Aug-24							
Sample Type	WATER - GW	WATER - GW	WATER - GW							
Sample Matrix Code	N/A	N/A	N/A							
PAH 16MS (w)										
Acenaphthene (w) _A [#]	<0.01	<0.01	<0.01					µg/l	0.01	A-T-019w
Acenaphthylene (w) _A [#]	<0.01	<0.01	<0.01					µg/l	0.01	A-T-019w
Anthracene (w) _A [#]	<0.01	<0.01	<0.01					µg/l	0.01	A-T-019w
Benzo(a)anthracene (w) _A [#]	<0.01	<0.01	<0.01					µg/l	0.01	A-T-019w
Benzo(a)pyrene (w) _A [#]	<0.01	<0.01	<0.01					µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w) _A [#]	<0.01	<0.01	<0.01					µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w) _A [#]	<0.01	<0.01	<0.01					µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w) _A [#]	<0.01	<0.01	<0.01					µg/l	0.01	A-T-019w
Chrysene (w) _A [#]	<0.01	<0.01	<0.01					µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w) _A [#]	<0.01	<0.01	<0.01					µg/l	0.01	A-T-019w
Fluoranthene (w) _A [#]	<0.01	0.08	<0.01					µg/l	0.01	A-T-019w
Fluorene (w) _A [#]	<0.01	<0.01	<0.01					µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w) _A [#]	<0.01	<0.01	<0.01					µg/l	0.01	A-T-019w
Naphthalene (w) _A [#]	0.02	<0.01	<0.01					µg/l	0.01	A-T-019w
Phenanthrene (w) _A [#]	<0.01	<0.01	<0.01					µg/l	0.01	A-T-019w
Pyrene (w) _A [#]	<0.01	0.06	<0.01					µg/l	0.01	A-T-019w
Total PAH 16MS (w) _A [#]	0.02	0.14	<0.01					µg/l	0.01	A-T-019w

Envirolab Job Number: 24/08195

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/08195/1	24/08195/2	24/08195/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH501	RBH203	RBH502							
Depth to Top	12.50	14.50	16.00							
Depth To Bottom										
Date Sampled	21-Aug-24	21-Aug-24	21-Aug-24							
Sample Type	WATER - GW	WATER - GW	WATER - GW							
Sample Matrix Code	N/A	N/A	N/A							
SVOC (excluding PAH-16) (w)										
1,2,4-Trichlorobenzene _A	<1	<1	<1					µg/l	1	A-T-052w
1,2-Dichlorobenzene _A	<1	<1	<1					µg/l	1	A-T-052w
1,3-Dichlorobenzene _A	<1	<1	<1					µg/l	1	A-T-052w
1,4-Dichlorobenzene _A	<1	<1	<1					µg/l	1	A-T-052w
2,4,5-Trichlorophenol _A	<1	<1	<1					µg/l	1	A-T-052w
2,4,6-Trichlorophenol _A	<1	<1	<1					µg/l	1	A-T-052w
2,4-Dichlorophenol _A	<1	<1	<1					µg/l	1	A-T-052w
2,4-Dimethylphenol _A	<1	<1	<1					µg/l	1	A-T-052w
2,4-Dinitrotoluene _A	<1	<1	<1					µg/l	1	A-T-052w
2,6-Dinitrotoluene _A	<1	<1	<1					µg/l	1	A-T-052w
2-Chloronaphthalene _A	<1	<1	<1					µg/l	1	A-T-052w
2-Chlorophenol _A	<1	<1	<1					µg/l	1	A-T-052w
2-Methylnaphthalene _A	<1	<1	<1					µg/l	1	A-T-052w
2-Methylphenol _A	<1	<1	<1					µg/l	1	A-T-052w
2-Nitrophenol _A	<1	<1	<1					µg/l	1	A-T-052w
4-Bromophenyl phenyl ether _A	<1	<1	<1					µg/l	1	A-T-052w
4-Chloro-3-methylphenol _A	<1	<1	<1					µg/l	1	A-T-052w
Bis(2-chloroisopropyl)ether _A	<1	<1	<1					µg/l	1	A-T-052w
3+4-Methylphenol _A	<1	<1	<1					µg/l	1	A-T-052w
4-Nitrophenol _A	<1	<1	<1					µg/l	1	A-T-052w
Bis(2-chloroethyl)ether _A	<1	<1	<1					µg/l	1	A-T-052w
Bis(2-chloroethoxy)methane _A	<1	<1	<1					µg/l	1	A-T-052w
Bis(2-ethylhexyl)phthalate _A	<10	<10	<10					µg/l	10	A-T-052w
Butylbenzyl phthalate _A	<1	<1	<1					µg/l	1	A-T-052w
Carbazole _A	<1	<1	<1					µg/l	1	A-T-052w
Dibenzofuran _A	<1	<1	<1					µg/l	1	A-T-052w
n-Dibutylphthalate _A	<1	<1	<1					µg/l	1	A-T-052w
n-Dioctylphthalate _A	<10	<10	<10					µg/l	10	A-T-052w
n-Nitroso-n-dipropylamine _A	<1	<1	<1					µg/l	1	A-T-052w
Diethyl phthalate _A	<1	<1	<1					µg/l	1	A-T-052w
Dimethyl phthalate _A	<1	<1	<1					µg/l	1	A-T-052w
Hexachlorobutadiene _A	<1	<1	<1					µg/l	1	A-T-052w

Envirolab Job Number: 24/08195

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/08195/1	24/08195/2	24/08195/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH501	RBH203	RBH502							
Depth to Top	12.50	14.50	16.00							
Depth To Bottom										
Date Sampled	21-Aug-24	21-Aug-24	21-Aug-24							
Sample Type	WATER - GW	WATER - GW	WATER - GW							
Sample Matrix Code	N/A	N/A	N/A							
Hexachlorobenzene SVOC _A	<1	<1	<1					µg/l	1	A-T-052w
Pentachlorophenol SVOC _A	<1	<1	<1					µg/l	1	A-T-052w
Phenol _A	<1	<1	<1					µg/l	1	A-T-052w
Hexachloroethane _A	<1	<1	<1					µg/l	1	A-T-052w
Nitrobenzene _A	<1	<1	<1					µg/l	1	A-T-052w
Isophorone _A	<1	<1	<1					µg/l	1	A-T-052w
Perylene _A	<1	<1	<1					µg/l	1	A-T-052w

Envirolab Job Number: 24/08195

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/08195/1	24/08195/2	24/08195/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH501	RBH203	RBH502							
Depth to Top	12.50	14.50	16.00							
Depth To Bottom										
Date Sampled	21-Aug-24	21-Aug-24	21-Aug-24							
Sample Type	WATER - GW	WATER - GW	WATER - GW							
Sample Matrix Code	N/A	N/A	N/A							
VOC										
Dichlorodifluoromethane _A	<1	<1	<1					µg/l	1	A-T-006w
Chloromethane _A	<10	<10	<10					µg/l	10	A-T-006w
Vinyl Chloride _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Bromomethane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Chloroethane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Dichloromethane _A	<5	<5	<5					µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	8	<1	<1					µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5	<5	<5					µg/l	5	A-T-006w
Chloroform _A [#]	147	16	76					µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2	<2	<2					µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	125	29	148					µg/l	1	A-T-006w
Dibromomethane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10	<10	<10					µg/l	10	A-T-006w
Trichloroethene _A [#]	347	28	6					µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	2	<1	1					µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3	<3	<3					µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Tetrachloroethene _A	<1	<1	<1					µg/l	1	A-T-006w
1,1,1,2-Tetrachloroethane _A	<1	<1	<1					µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w

Envirolab Job Number: 24/08195

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/08195/1	24/08195/2	24/08195/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH501	RBH203	RBH502							
Depth to Top	12.50	14.50	16.00							
Depth To Bottom										
Date Sampled	21-Aug-24	21-Aug-24	21-Aug-24							
Sample Type	WATER - GW	WATER - GW	WATER - GW							
Sample Matrix Code	N/A	N/A	N/A							
Bromoform _A [#]	<3	<3	<3					µg/l	3	A-T-006w
Styrene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,1,2,2-Tetrachloroethane _A	<1	<1	<1					µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1	<1	<1					µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1 ^U	<1 ^U	<1 ^U					µg/l	1	A-T-006w
Bromobenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2	<2	<2					µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1	<1	<1					µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2	<2	<2					µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3	<3	<3					µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3	<3	<3					µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1	<1	<1					µg/l	1	A-T-006w

Envirolab Job Number: 24/08195

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/08195/1	24/08195/2	24/08195/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH501	RBH203	RBH502							
Depth to Top	12.50	14.50	16.00							
Depth To Bottom										
Date Sampled	21-Aug-24	21-Aug-24	21-Aug-24							
Sample Type	WATER - GW	WATER - GW	WATER - GW							
Sample Matrix Code	N/A	N/A	N/A							
TPH UKCWG (w) with Clean Up										
Ali >C5-C6 (w) _A [#]	<1	<1	<1					µg/l	1	A-T-022w
Ali >C6-C8 (w) _A [#]	<1	<1	<1					µg/l	1	A-T-022w
Ali >C8-C10 (w) _A [#]	<5	<5	<5					µg/l	5	A-T-055w
Ali >C10-C12 (w) _A [#]	<5	<5	<5					µg/l	5	A-T-055w
Ali >C12-C16 (w) _A [#]	<5	<5	<5					µg/l	5	A-T-055w
Ali >C16-C21 (w) _A [#]	<5	<5	<5					µg/l	5	A-T-055w
Ali >C21-C35 (w) _A [#]	<5	<5	<5					µg/l	5	A-T-055w
Ali >C35-C44 (w) _A	<5	<5	<5					µg/l	5	A-T-055w
Total Aliphatics (w) _A	<5	<5	<5					µg/l	5	Calc-As Recd
Aro >C5-C7 (w) _A [#]	<1	<1	<1					µg/l	1	A-T-022w
Aro >C7-C8 (w) _A [#]	<1	<1	<1					µg/l	1	A-T-022w
Aro >C8-C10 (w) _A	<5	<5	<5					µg/l	5	A-T-055w
Aro >C10-C12 (w) _A [#]	<5	<5	<5					µg/l	5	A-T-055w
Aro >C12-C16 (w) _A [#]	<5	<5	<5					µg/l	5	A-T-055w
Aro >C16-C21 (w) _A [#]	7	<5	<5					µg/l	5	A-T-055w
Aro >C21-C35 (w) _A [#]	<10	<10	<10					µg/l	10	A-T-055w
Aro >C35-C44 (w) _A	<5	<5	<5					µg/l	5	A-T-055w
Total Aromatics (w) _A	<10	<10	<10					µg/l	10	Calc-As Recd
TPH (Ali & Aro >C5-C44) (w) _A	<10	<10	<10					µg/l	10	Calc-As Recd
BTEX - Benzene (w) _A [#]	<1	<1	<1					µg/l	1	A-T-022w
BTEX - Toluene (w) _A [#]	<1	<1	<1					µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w) _A [#]	<1	<1	<1					µg/l	1	A-T-022w
BTEX - m & p Xylene (w) _A [#]	<1	<1	<1					µg/l	1	A-T-022w
BTEX - o Xylene (w) _A [#]	<1	<1	<1					µg/l	1	A-T-022w
MTBE (w) _A [#]	<1	<1	<1					µg/l	1	A-T-022w

Report Notes

General

- This report shall not be reproduced, except in full, without written approval from Envirolab.
- The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
- The results reported herein relate only to the material supplied to the laboratory.
- The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
- Analytical results reflect the quality of the sample at the time of analysis only.
- Opinions and Interpretations expressed are outside our scope of accreditation.
- A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
- If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
- Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript “#”	Accredited to ISO 17025
Superscript “M”	Accredited to MCertS
Superscript “U”	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript “A”	Analysis performed on as-received Sample
Subscript “D”	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript “D” on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript “A”	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis

“Trace Asbestos Identified” will be reported if there is not enough present to verify the type.

Quantification: Generally a 2 stage process including visual identification, hand picking and weighing, and fibre counting. Where ACMs are found a percentage asbestos is assigned to each with reference to ‘HSG264, Asbestos: The survey guide’ and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres). “TRACE” will be reported as a quantification result.

PLEASE INFORM THE LABORATORY IF YOU WOULD LIKE THE STAGE 3 SEDIMENTATION PROCESS CARRIED OUT. Note this will be subcontracted.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs

Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.

Soil Chemical Analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as ‘% stones >10mm’.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any “D” subscripts.

TPH by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.

Results “with Clean up” indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.

Where these humic substances have been identified in any IDs from “TPH CWG with clean up” please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: ROCP LIMITED, Commercial Wharf 6 Commercial Street, Castlefield,
Manchester, M15 4PZ

Project: Dantzic Street

Clients Project No: 4328

Project No: 24/08195

Date Received: 23/08/2024 (am)

Cool Box Temperatures (°C): 17.0

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	24/08195/1	24/08195/2	24/08195/3
Client Sample No			
Client Sample ID/Depth	RBH501 12.50m	RBH203 14.50m	RBH502 16.00m
Date Sampled	21/08/24	21/08/24	21/08/24
A-T-006w	28/08/2024	28/08/2024	28/08/2024
A-T-019w	28/08/2024	28/08/2024	28/08/2024
A-T-022w	28/08/2024	28/08/2024	28/08/2024
A-T-025w	30/08/2024	30/08/2024	30/08/2024
A-T-026w	27/08/2024	27/08/2024	27/08/2024
A-T-031w	27/08/2024	27/08/2024	27/08/2024
A-T-032w	07/09/2024	07/09/2024	07/09/2024
A-T-040w	27/08/2024	27/08/2024	27/08/2024
A-T-042wTCN	27/08/2024	27/08/2024	27/08/2024
A-T-050w	27/08/2024	27/08/2024	27/08/2024
A-T-052w	29/08/2024	29/08/2024	29/08/2024
A-T-055w	28/08/2024	28/08/2024	28/08/2024
Calc	30/08/2024	30/08/2024	30/08/2024
Calc-As Recd	28/08/2024	28/08/2024	28/08/2024

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 24/08993
Issue Number: 1

Date: 30 September, 2024

Client: ROCP LIMITED
Commercial Wharf 6 Commercial Street
Castlefield
Manchester
M15 4PZ

Project Manager: Reece McGuinness/Talaat Mousa
Project Name: Dantzic Street
Project Ref: 4328
Order No: PBJ20341
Date Samples Received: 16/09/24
Date Instructions Received: 17/09/24
Date Analysis Completed: 30/09/24

Approved by:



Richard Wong
Client Manager

Envirolab Job Number: 24/08993

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/08993/1	24/08993/2	24/08993/3	24/08993/4	24/08993/5	24/08993/6	24/08993/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH203	RBH305	RBH501	RBH502 (S)	RBH503	RBH505 (S)			
Depth to Top	13.20	14.80	7.20	13.00	16.30	8.20	10.90			
Depth To Bottom										
Date Sampled	17-Sep-24	17-Sep-24	17-Sep-24	17-Sep-24	17-Sep-24	17-Sep-24	17-Sep-24			
Sample Type	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
pH (w) _A [#]	6.78	6.51	6.72	6.55	6.72	6.51	6.45	pH	0.01	A-T-031w
Hardness Total _A [#]	664	377	717	621	546	642	714	mg/l Ca CO ₃	4	A-T-049w
Sulphate (w) _A [#]	202	70	604	194	183	248	216	mg/l	1	A-T-026w
Cyanide (total) (w) _A [#]	0.041	<0.005	<0.005	<0.005	0.014	0.052	0.265	mg/l	0.005	A-T-042wTCN
Phenols - Total by HPLC (w) _A	0.02	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	mg/l	0.01	A-T-050w
DOC - Dissolved Organic Carbon (w) _A [#]	2.6	<2.0	7.8	3.1	2.6	3.2	<2.0	mg/l	2	A-T-032w
Antimony (dissolved) _A	<1	<1	3	<1	<1	<1	<1	µg/l	1	A-T-025w
Arsenic (dissolved) _A [#]	18	<1	1	<1	<1	7	7	µg/l	1	A-T-025w
Boron (dissolved) _A [#]	110	203	406	331	247	240	187	µg/l	10	A-T-025w
Barium (dissolved) _A [#]	41	59	136	76	87	90	57	µg/l	1	A-T-025w
Beryllium (dissolved) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-025w
Cadmium (dissolved) _A [#]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	µg/l	0.2	A-T-025w
Copper (dissolved) _A [#]	<4	10	7	10	20	<4	<4	µg/l	4	A-T-025w
Chromium (dissolved) _A [#]	<1	<1	1	<1	<1	<1	<1	µg/l	1	A-T-025w
Chromium (hexavalent) (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/l	0.01	A-T-040w
Chromium (trivalent) (w)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/l	0.01	Calc
Lead (dissolved) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-025w
Mercury (dissolved) _A [#]	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	µg/l	0.1	A-T-025w
Molybdenum (dissolved) _A [#]	<0.5	<0.5	10.5	<0.5	<0.5	<0.5	<0.5	µg/l	0.5	A-T-025w
Nickel (dissolved) _A [#]	2	4	7	4	5	4	3	µg/l	2	A-T-025w
Selenium (dissolved) _A [#]	<1	3	2	2	2	<1	<1	µg/l	1	A-T-025w
Vanadium (dissolved) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-025w
Zinc (dissolved) _A [#]	27	38	29	32	51	13	30	µg/l	2	A-T-025w

Envirolab Job Number: 24/08993

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/08993/1	24/08993/2	24/08993/3	24/08993/4	24/08993/5	24/08993/6	24/08993/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH203	RBH305	RBH501	RBH502 (S)	RBH503	RBH505 (S)			
Depth to Top	13.20	14.80	7.20	13.00	16.30	8.20	10.90			
Depth To Bottom										
Date Sampled	17-Sep-24	17-Sep-24	17-Sep-24	17-Sep-24	17-Sep-24	17-Sep-24	17-Sep-24			
Sample Type	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
PAH 16MS (w)										
Acenaphthene (w) _A [#]	0.24	<0.01	<0.01	<0.01	<0.01	0.25	0.13	µg/l	0.01	A-T-019w
Acenaphthylene (w) _A [#]	<0.10	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	µg/l	0.01	A-T-019w
Anthracene (w) _A [#]	<0.10	0.02	<0.01	<0.01	<0.01	0.14	0.04	µg/l	0.01	A-T-019w
Benzo(a)anthracene (w) _A [#]	<0.10	0.01	<0.01	<0.01	<0.01	0.35	0.01	µg/l	0.01	A-T-019w
Benzo(a)pyrene (w) _A [#]	<0.10	0.02	<0.01	<0.01	<0.01	0.45	0.01	µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w) _A [#]	<0.10	0.02	<0.01	<0.01	<0.01	0.63	0.02	µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w) _A [#]	<0.10	<0.01	<0.01	<0.01	<0.01	0.38	<0.01	µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w) _A [#]	<0.10	<0.01	<0.01	<0.01	<0.01	0.22	<0.01	µg/l	0.01	A-T-019w
Chrysene (w) _A [#]	<0.10	0.02	<0.01	<0.01	<0.01	0.42	0.02	µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w) _A [#]	<0.10	<0.01	<0.01	<0.01	<0.01	0.06	<0.01	µg/l	0.01	A-T-019w
Fluoranthene (w) _A [#]	<0.10	0.10	0.01	<0.01	<0.01	0.91	0.03	µg/l	0.01	A-T-019w
Fluorene (w) _A [#]	<0.10	<0.01	<0.01	<0.01	<0.01	0.06	<0.01	µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w) _A [#]	<0.10	<0.01	<0.01	<0.01	<0.01	0.38	<0.01	µg/l	0.01	A-T-019w
Naphthalene (w) _A [#]	<0.10	<0.01	0.02	0.03	0.04	0.10	0.04	µg/l	0.01	A-T-019w
Phenanthrene (w) _A [#]	<0.10	0.01	<0.01	<0.01	<0.01	0.36	0.02	µg/l	0.01	A-T-019w
Pyrene (w) _A [#]	<0.10	0.14	0.01	<0.01	<0.01	0.86	0.06	µg/l	0.01	A-T-019w
Total PAH 16MS (w) _A [#]	0.24	0.34	0.04	0.03	0.04	5.59	0.38	µg/l	0.01	A-T-019w

Envirolab Job Number: 24/08993

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/08993/1	24/08993/2	24/08993/3	24/08993/4	24/08993/5	24/08993/6	24/08993/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH203	RBH305	RBH501	RBH502 (S)	RBH503	RBH505 (S)			
Depth to Top	13.20	14.80	7.20	13.00	16.30	8.20	10.90			
Depth To Bottom										
Date Sampled	17-Sep-24	17-Sep-24	17-Sep-24	17-Sep-24	17-Sep-24	17-Sep-24	17-Sep-24			
Sample Type	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
SVOC (excluding PAH-16) (w)										
1,2,4-Trichlorobenzene _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
1,2-Dichlorobenzene _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
1,3-Dichlorobenzene _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
1,4-Dichlorobenzene _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4,5-Trichlorophenol _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4,6-Trichlorophenol _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4-Dichlorophenol _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4-Dimethylphenol _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4-Dinitrotoluene _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,6-Dinitrotoluene _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Chloronaphthalene _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Chlorophenol _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Methylnaphthalene _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Methylphenol _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Nitrophenol _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
4-Bromophenyl phenyl ether _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
4-Chloro-3-methylphenol _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Bis(2-chloroisopropyl)ether _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
3+4-Methylphenol _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
4-Nitrophenol _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Bis(2-chloroethyl)ether _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Bis(2-chloroethoxy)methane _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Bis(2-ethylhexyl)phthalate _A	<100	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-052w
Butylbenzyl phthalate _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Carbazole _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Dibenzofuran _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
n-Dibutylphthalate _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
n-Dioctylphthalate _A	<100	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-052w
n-Nitroso-n-dipropylamine _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Diethyl phthalate _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Dimethyl phthalate _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Hexachlorobutadiene _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w

Envirolab Job Number: 24/08993

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/08993/1	24/08993/2	24/08993/3	24/08993/4	24/08993/5	24/08993/6	24/08993/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH203	RBH305	RBH501	RBH502 (S)	RBH503	RBH505 (S)			
Depth to Top	13.20	14.80	7.20	13.00	16.30	8.20	10.90			
Depth To Bottom										
Date Sampled	17-Sep-24	17-Sep-24	17-Sep-24	17-Sep-24	17-Sep-24	17-Sep-24	17-Sep-24			
Sample Type	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Hexachlorobenzene SVOC _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Pentachlorophenol SVOC _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Phenol _A	<10	<1	<1	<1	<1	2	<1	µg/l	1	A-T-052w
Hexachloroethane _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Nitrobenzene _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Isophorone _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Perylene _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w

Envirolab Job Number: 24/08993

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/08993/1	24/08993/2	24/08993/3	24/08993/4	24/08993/5	24/08993/6	24/08993/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH203	RBH305	RBH501	RBH502 (S)	RBH503	RBH505 (S)			
Depth to Top	13.20	14.80	7.20	13.00	16.30	8.20	10.90			
Depth To Bottom										
Date Sampled	17-Sep-24	17-Sep-24	17-Sep-24	17-Sep-24	17-Sep-24	17-Sep-24	17-Sep-24			
Sample Type	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
VOC (w)										
Dichlorodifluoromethane _A	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Chloromethane _A	<50	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-006w
Vinyl Chloride _A [#]	17	<1	<1	<1	<1	67	<1	µg/l	1	A-T-006w
Bromomethane _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Chloroethane _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	168	<1	<1	<1	<1	49	1	µg/l	1	A-T-006w
Dichloromethane _A	<25	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	192	<1	<1	16	<1	103	1	µg/l	1	A-T-006w
Bromochloromethane _A [#]	<25	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-006w
Chloroform _A [#]	<5	17	<1	282	103	<1	<1	µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<10	<2	<2	<2	<2	<2	<2	µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Benzene _A [#]	155	<1	<1	<1	<1	28	3	µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	<5	42	<1	214	202	<1	<1	µg/l	1	A-T-006w
Dibromomethane _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<50	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-006w
Trichloroethene _A [#]	<5	33	1	639	8	<1	2	µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	<5	<1	<1	5	2	<1	<1	µg/l	1	A-T-006w
Toluene _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<15	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Tetrachloroethene _A	<5	<1	<1	1	<1	<1	<1	µg/l	1	A-T-006w

Envirolab Job Number: 24/08993

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/08993/1	24/08993/2	24/08993/3	24/08993/4	24/08993/5	24/08993/6	24/08993/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH203	RBH305	RBH501	RBH502 (S)	RBH503	RBH505 (S)			
Depth to Top	13.20	14.80	7.20	13.00	16.30	8.20	10.90			
Depth To Bottom										
Date Sampled	17-Sep-24	17-Sep-24	17-Sep-24	17-Sep-24	17-Sep-24	17-Sep-24	17-Sep-24			
Sample Type	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
1,1,1,2-Tetrachloroethane _A	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Chlorobenzene _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Ethylbenzene _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
m & p Xylene _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromoform _A [#]	<15	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
Styrene _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1,1,2,2-Tetrachloroethane _A	<5	<1	<1	3	<1	<1	<1	µg/l	1	A-T-006w
o-Xylene _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromobenzene _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
n-propylbenzene _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<10	<2	<2	<2	<2	<2	<2	µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
n-butylbenzene _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<10	<2	<2	<2	<2	<2	<2	µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<15	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<15	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w

Envirolab Job Number: 24/08993

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/08993/1	24/08993/2	24/08993/3	24/08993/4	24/08993/5	24/08993/6	24/08993/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH203	RBH305	RBH501	RBH502 (S)	RBH503	RBH505 (S)			
Depth to Top	13.20	14.80	7.20	13.00	16.30	8.20	10.90			
Depth To Bottom										
Date Sampled	17-Sep-24	17-Sep-24	17-Sep-24	17-Sep-24	17-Sep-24	17-Sep-24	17-Sep-24			
Sample Type	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
TPH UKCWG (w) with Clean Up										
Ali >C5-C6 (w) _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Ali >C6-C8 (w) _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Ali >C8-C10 (w) _A [#]	<50	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C10-C12 (w) _A [#]	<50	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C12-C16 (w) _A [#]	<50	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C16-C21 (w) _A [#]	<50	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C21-C35 (w) _A [#]	<50	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C35-C44 (w) _A	<50	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Total Aliphatics (w) _A	<50	<5	<5	<5	<5	<5	<5	µg/l	5	Calc-As Recd
Aro >C5-C7 (w) _A [#]	46	<1	<1	<1	<1	27	3	µg/l	1	A-T-022w
Aro >C7-C8 (w) _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Aro >C8-C10 (w) _A	<50	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Aro >C10-C12 (w) _A [#]	<50	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Aro >C12-C16 (w) _A [#]	<50	<5	<5	12	<5	<5	<5	µg/l	5	A-T-055w
Aro >C16-C21 (w) _A [#]	56	<5	<5	36	<5	7	5	µg/l	5	A-T-055w
Aro >C21-C35 (w) _A [#]	<100	<10	<10	17	<10	<10	<10	µg/l	10	A-T-055w
Aro >C35-C44 (w) _A	<50	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Total Aromatics (w) _A	102	<10	<10	65	<10	34	<10	µg/l	10	Calc-As Recd
TPH (Ali & Aro >C5-C44) (w) _A	102	<10	<10	65	<10	34	<10	µg/l	10	Calc-As Recd
BTEX - Benzene (w) _A [#]	46	<1	<1	<1	<1	27	3	µg/l	1	A-T-022w
BTEX - Toluene (w) _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w) _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - m & p Xylene (w) _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - o Xylene (w) _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
MTBE (w) _A [#]	<5	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w

Report Notes

General

- This report shall not be reproduced, except in full, without written approval from Envirolab.
- The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
- The results reported herein relate only to the material supplied to the laboratory.
- The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
- Analytical results reflect the quality of the sample at the time of analysis only.
- Opinions and Interpretations expressed are outside our scope of accreditation.
- A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
- If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
- Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript “#”	Accredited to ISO 17025
Superscript “M”	Accredited to MCertS
Superscript “U”	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript “A”	Analysis performed on as-received Sample
Subscript “D”	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript “D” on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript “A”	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis

“Trace Asbestos Identified” will be reported if there is not enough present to verify the type.

Quantification: Generally a 2 stage process including visual identification, hand picking and weighing, and fibre counting. Where ACMs are found a percentage asbestos is assigned to each with reference to ‘HSG264, Asbestos: The survey guide’ and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres). “TRACE” will be reported as a quantification result.

PLEASE INFORM THE LABORATORY IF YOU WOULD LIKE THE STAGE 3 SEDIMENTATION PROCESS CARRIED OUT. Note this will be subcontracted.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs

Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.

Soil Chemical Analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as ‘% stones >10mm’.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any “D” subscripts.

TPH by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only. Results “with Clean up” indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.

Where these humic substances have been identified in any IDs from “TPH CWG with clean up” please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: ROCP LIMITED, Commercial Wharf 6 Commercial Street, Castlefield,
Manchester, M15 4PZ

Project: Dantzic Street

Clients Project No: 4328

Project No: 24/08993

Date Received: 17/09/2024 (pm)

Cool Box Temperatures (°C): 18.7, 19.0

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	24/08993/1	24/08993/2	24/08993/3	24/08993/4	24/08993/5	24/08993/6	24/08993/7
Client Sample No							
Client Sample ID/Depth	LKBH01 13.20m	RBH203 14.80m	RBH305 7.20m	RBH501 13.00m	RBH502 (S) 16.30m	RBH503 8.20m	RBH505 (S) 10.90m
Date Sampled	17/09/24	17/09/24	17/09/24	17/09/24	17/09/24	17/09/24	17/09/24
A-T-006w	19/09/2024	19/09/2024	19/09/2024	19/09/2024	19/09/2024	19/09/2024	19/09/2024
A-T-019w	23/09/2024	23/09/2024	23/09/2024	23/09/2024	23/09/2024	23/09/2024	23/09/2024
A-T-022w	19/09/2024	19/09/2024	19/09/2024	19/09/2024	19/09/2024	19/09/2024	19/09/2024
A-T-025w	20/09/2024	20/09/2024	20/09/2024	20/09/2024	20/09/2024	20/09/2024	20/09/2024
A-T-026w	19/09/2024	19/09/2024	19/09/2024	19/09/2024	19/09/2024	19/09/2024	19/09/2024
A-T-031w	19/09/2024	19/09/2024	19/09/2024	19/09/2024	19/09/2024	19/09/2024	19/09/2024
A-T-032w	30/09/2024	30/09/2024	30/09/2024	30/09/2024	30/09/2024	30/09/2024	30/09/2024
A-T-040w	19/09/2024	19/09/2024	19/09/2024	19/09/2024	19/09/2024	19/09/2024	19/09/2024
A-T-042wTCN	23/09/2024	23/09/2024	23/09/2024	23/09/2024	23/09/2024	23/09/2024	23/09/2024
A-T-049w	26/09/2024	26/09/2024	26/09/2024	26/09/2024	26/09/2024	26/09/2024	26/09/2024
A-T-050w	23/09/2024	23/09/2024	23/09/2024	23/09/2024	23/09/2024	23/09/2024	23/09/2024
A-T-052w	24/09/2024	24/09/2024	24/09/2024	24/09/2024	24/09/2024	24/09/2024	24/09/2024
A-T-055w	20/09/2024	20/09/2024	20/09/2024	20/09/2024	20/09/2024	20/09/2024	20/09/2024
Calc	20/09/2024	20/09/2024	20/09/2024	20/09/2024	20/09/2024	20/09/2024	20/09/2024
Calc-As Recd	20/09/2024	20/09/2024	20/09/2024	20/09/2024	20/09/2024	20/09/2024	20/09/2024

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 24/09465
Issue Number: 1

Date: 10 October, 2024

Client: ROCP LIMITED
Commercial Wharf 6 Commercial Street
Castlefield
Manchester
M15 4PZ

Project Manager: Reece McGuinness
Project Name: Dantzic Street
Project Ref: 4328
Order No: PBJ20355
Date Samples Received: 01/10/24
Date Instructions Received: 01/10/24
Date Analysis Completed: 10/10/24

Approved by:



Richard Wong
Client Manager

Envirolab Job Number: 24/09465

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/09465/1	24/09465/2	24/09465/3	24/09465/4	24/09465/5	24/09465/6	24/09465/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH502	RBH203	RBH501	RBH503	RBH305	RBH504	RBH505			
Depth to Top	13.00	13.00	10.00	7.00	7.00	8.50	10.00			
Depth To Bottom										
Date Sampled	30-Sep-24	30-Sep-24	30-Sep-24	30-Sep-24	30-Sep-24	30-Sep-24	30-Sep-24			
Sample Type	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
pH (w) _A [#]	6.71	6.83	6.67	6.60	6.91	6.46	7.28	pH	0.01	A-T-031w
Sulphate (w) _A [#]	192	138	193	251	538	249	205	mg/l	1	A-T-026w
Cyanide (total) (w) _A [#]	0.014	<0.005	<0.005	0.050	<0.005	<0.005	0.019	mg/l	0.005	A-T-042wTCN
Phenols - Total by HPLC (w) _A	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/l	0.01	A-T-050w
DOC - Dissolved Organic Carbon (w) _A [#]	3.4	4.0	3.8	3.2	6.8	7.9	5.4	mg/l	2	A-T-032w
Antimony (dissolved) _A	<1	3	<1	<1	3	<1	10	µg/l	1	A-T-025w
Arsenic (dissolved) _A [#]	<1	<1	<1	7	1	<1	2	µg/l	1	A-T-025w
Boron (dissolved) _A [#]	259	314	328	243	368	271	121	µg/l	10	A-T-025w
Barium (dissolved) _A [#]	86	29	75	93	90	74	70	µg/l	1	A-T-025w
Beryllium (dissolved) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-025w
Cadmium (dissolved) _A [#]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	µg/l	0.2	A-T-025w
Copper (dissolved) _A [#]	<4	5	10	<4	9	<4	<4	µg/l	4	A-T-025w
Chromium (dissolved) _A [#]	<1	8	<1	<1	2	<1	2	µg/l	1	A-T-025w
Chromium (hexavalent) (w) _A [#]	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.01	mg/l	0.01	A-T-040w
Chromium (trivalent) (w)	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.01	mg/l	0.01	Calc
Lead (dissolved) _A [#]	<1	<1	<1	<1	<1	11	2	µg/l	1	A-T-025w
Mercury (dissolved) _A [#]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	µg/l	0.1	A-T-025w
Molybdenum (dissolved) _A [#]	<0.5	8.0	<0.5	<0.5	10.0	<0.5	14.0	µg/l	0.5	A-T-025w
Nickel (dissolved) _A [#]	2	2	2	2	7	2	3	µg/l	2	A-T-025w
Selenium (dissolved) _A [#]	2	1	2	<1	2	2	2	µg/l	1	A-T-025w
Vanadium (dissolved) _A [#]	<1	2	<1	<1	<1	<1	1	µg/l	1	A-T-025w
Zinc (dissolved) _A [#]	28	10	67	3	39	8	9	µg/l	2	A-T-025w

Envirolab Job Number: 24/09465

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/09465/1	24/09465/2	24/09465/3	24/09465/4	24/09465/5	24/09465/6	24/09465/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH502	RBH203	RBH501	RBH503	RBH305	RBH504	RBH505			
Depth to Top	13.00	13.00	10.00	7.00	7.00	8.50	10.00			
Depth To Bottom										
Date Sampled	30-Sep-24	30-Sep-24	30-Sep-24	30-Sep-24	30-Sep-24	30-Sep-24	30-Sep-24			
Sample Type	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
PAH 16MS (w)										
Acenaphthene (w) _A [#]	<0.01	<0.01	<0.01	0.14	<0.01	0.24	0.04	µg/l	0.01	A-T-019w
Acenaphthylene (w) _A [#]	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Anthracene (w) _A [#]	<0.01	<0.01	<0.01	0.05	<0.01	0.06	<0.01	µg/l	0.01	A-T-019w
Benzo(a)anthracene (w) _A [#]	<0.01	<0.01	<0.01	0.06	<0.01	<0.01	0.01	µg/l	0.01	A-T-019w
Benzo(a)pyrene (w) _A [#]	<0.01	<0.01	<0.01	0.07	<0.01	<0.01	0.01	µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w) _A [#]	<0.01	<0.01	<0.01	0.08	<0.01	<0.01	0.02	µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w) _A [#]	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w) _A [#]	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Chrysene (w) _A [#]	<0.01	<0.01	<0.01	0.07	<0.01	<0.01	0.01	µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w) _A [#]	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Fluoranthene (w) _A [#]	<0.01	0.01	<0.01	0.15	0.01	0.05	0.02	µg/l	0.01	A-T-019w
Fluorene (w) _A [#]	<0.01	<0.01	0.01	0.03	<0.01	0.11	<0.01	µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w) _A [#]	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Naphthalene (w) _A [#]	0.01	<0.01	<0.01	0.04	<0.01	0.29	<0.01	µg/l	0.01	A-T-019w
Phenanthrene (w) _A [#]	<0.01	<0.01	<0.01	0.07	<0.01	0.07	<0.01	µg/l	0.01	A-T-019w
Pyrene (w) _A [#]	<0.01	0.05	<0.01	0.13	0.01	0.05	0.02	µg/l	0.01	A-T-019w
Total PAH 16MS (w) _A [#]	0.01	0.06	0.01	1.04	0.02	0.87	0.13	µg/l	0.01	A-T-019w

Envirolab Job Number: 24/09465

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/09465/1	24/09465/2	24/09465/3	24/09465/4	24/09465/5	24/09465/6	24/09465/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH502	RBH203	RBH501	RBH503	RBH305	RBH504	RBH505			
Depth to Top	13.00	13.00	10.00	7.00	7.00	8.50	10.00			
Depth To Bottom										
Date Sampled	30-Sep-24	30-Sep-24	30-Sep-24	30-Sep-24	30-Sep-24	30-Sep-24	30-Sep-24			
Sample Type	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
SVOC (excluding PAH-16) (w)										
1,2,4-Trichlorobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
1,2-Dichlorobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
1,3-Dichlorobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
1,4-Dichlorobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4,5-Trichlorophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4,6-Trichlorophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4-Dichlorophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4-Dimethylphenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4-Dinitrotoluene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,6-Dinitrotoluene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Chloronaphthalene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Chlorophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Methylnaphthalene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Methylphenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Nitrophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
4-Bromophenyl phenyl ether _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
4-Chloro-3-methylphenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Bis(2-chloroisopropyl)ether _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
3+4-Methylphenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
4-Nitrophenol _A	<1	5	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Bis(2-chloroethyl)ether _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Bis(2-chloroethoxy)methane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Bis(2-ethylhexyl)phthalate _A	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-052w
Butylbenzyl phthalate _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Carbazole _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Dibenzofuran _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
n-Dibutylphthalate _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
n-Dioctylphthalate _A	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-052w
n-Nitroso-n-dipropylamine _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Diethyl phthalate _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Dimethyl phthalate _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Hexachlorobutadiene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w

Envirolab Job Number: 24/09465

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/09465/1	24/09465/2	24/09465/3	24/09465/4	24/09465/5	24/09465/6	24/09465/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH502	RBH203	RBH501	RBH503	RBH305	RBH504	RBH505			
Depth to Top	13.00	13.00	10.00	7.00	7.00	8.50	10.00			
Depth To Bottom										
Date Sampled	30-Sep-24	30-Sep-24	30-Sep-24	30-Sep-24	30-Sep-24	30-Sep-24	30-Sep-24			
Sample Type	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Hexachlorobenzene SVOC _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Pentachlorophenol SVOC _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Phenol _A	<1	<1	<1	2	<1	<1	<1	µg/l	1	A-T-052w
Hexachloroethane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Nitrobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Isophorone _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Perylene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w

Envirolab Job Number: 24/09465

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/09465/1	24/09465/2	24/09465/3	24/09465/4	24/09465/5	24/09465/6	24/09465/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH502	RBH203	RBH501	RBH503	RBH305	RBH504	RBH505			
Depth to Top	13.00	13.00	10.00	7.00	7.00	8.50	10.00			
Depth To Bottom										
Date Sampled	30-Sep-24	30-Sep-24	30-Sep-24	30-Sep-24	30-Sep-24	30-Sep-24	30-Sep-24			
Sample Type	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
VOC (w)										
Dichlorodifluoromethane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Chloromethane _A	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-006w
Vinyl Chloride _A [#]	<1	<1	<1	55	<1	<1	<1	µg/l	1	A-T-006w
Bromomethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Chloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	<1	<1	<1	32	<1	2	<1	µg/l	1	A-T-006w
Dichloromethane _A	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	1	<1	14	91	<1	152	<1	µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-006w
Chloroform _A [#]	109	9	304	<1	<1	10	<1	µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Benzene _A [#]	<1	<1	<1	21	<1	<1	<1	µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	235	31	244	<1	<1	21	<1	µg/l	1	A-T-006w
Dibromomethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-006w
Trichloroethene _A [#]	10	124	918	<1	<1	85	<1	µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	1	<1	4	<1	<1	1	<1	µg/l	1	A-T-006w
Toluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Tetrachloroethene _A	<1	<1	1	<1	<1	<1	<1	µg/l	1	A-T-006w

Envirolab Job Number: 24/09465

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/09465/1	24/09465/2	24/09465/3	24/09465/4	24/09465/5	24/09465/6	24/09465/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH502	RBH203	RBH501	RBH503	RBH305	RBH504	RBH505			
Depth to Top	13.00	13.00	10.00	7.00	7.00	8.50	10.00			
Depth To Bottom										
Date Sampled	30-Sep-24	30-Sep-24	30-Sep-24	30-Sep-24	30-Sep-24	30-Sep-24	30-Sep-24			
Sample Type	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
1,1,1,2-Tetrachloroethane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Ethylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
m & p Xylene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromoform _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
Styrene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1,1,2,2-Tetrachloroethane _A	<1	<1	3	<1	<1	<1	<1	µg/l	1	A-T-006w
o-Xylene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w

Envirolab Job Number: 24/09465

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/09465/1	24/09465/2	24/09465/3	24/09465/4	24/09465/5	24/09465/6	24/09465/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH502	RBH203	RBH501	RBH503	RBH305	RBH504	RBH505			
Depth to Top	13.00	13.00	10.00	7.00	7.00	8.50	10.00			
Depth To Bottom										
Date Sampled	30-Sep-24	30-Sep-24	30-Sep-24	30-Sep-24	30-Sep-24	30-Sep-24	30-Sep-24			
Sample Type	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW	WATER - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
TPH UKCWG (w) with Clean Up										
Ali >C5-C6 (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Ali >C6-C8 (w) _A [#]	<1	<1	1	<1	<1	<1	<1	µg/l	1	A-T-022w
Ali >C8-C10 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C10-C12 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C12-C16 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C16-C21 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C21-C35 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C35-C44 (w) _A	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Total Aliphatics (w) _A	<5	<5	<5	<5	<5	<5	<5	µg/l	5	Calc-As Recd
Aro >C5-C7 (w) _A [#]	<1	<1	<1	22	<1	<1	<1	µg/l	1	A-T-022w
Aro >C7-C8 (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Aro >C8-C10 (w) _A	<5	<5	6	<5	<5	<5	<5	µg/l	5	A-T-055w
Aro >C10-C12 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Aro >C12-C16 (w) _A [#]	<5	<5	20	<5	<5	7	<5	µg/l	5	A-T-055w
Aro >C16-C21 (w) _A [#]	<5	9	60	<5	<5	13	<5	µg/l	5	A-T-055w
Aro >C21-C35 (w) _A [#]	<10	<10	27	<10	<10	<10	<10	µg/l	10	A-T-055w
Aro >C35-C44 (w) _A	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Total Aromatics (w) _A	<10	<10	113	22	<10	20	<10	µg/l	10	Calc-As Recd
TPH (Ali & Aro >C5-C44) (w) _A	<10	<10	114	22	<10	20	<10	µg/l	10	Calc-As Recd
BTEX - Benzene (w) _A [#]	<1	<1	<1	22	<1	<1	<1	µg/l	1	A-T-022w
BTEX - Toluene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - m & p Xylene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - o Xylene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
MTBE (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w

Envirolab Job Number: 24/09465

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/09465/8							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LILBH01									
Depth to Top	13.00									
Depth To Bottom										
Date Sampled	30-Sep-24									
Sample Type	WATER - EW									
Sample Matrix Code	N/A									
pH (w) [#]	6.88							pH	0.01	A-T-031w
Sulphate (w) _A [#]	203							mg/l	1	A-T-026w
Cyanide (total) (w) _A [#]	<0.005							mg/l	0.005	A-T-042wTCN
Phenols - Total by HPLC (w) _A	<0.01							mg/l	0.01	A-T-050w
DOC - Dissolved Organic Carbon (w) _A [#]	2.8							mg/l	2	A-T-032w
Antimony (dissolved) _A	5							µg/l	1	A-T-025w
Arsenic (dissolved) _A [#]	1							µg/l	1	A-T-025w
Boron (dissolved) _A [#]	187							µg/l	10	A-T-025w
Barium (dissolved) _A [#]	47							µg/l	1	A-T-025w
Beryllium (dissolved) _A [#]	<1							µg/l	1	A-T-025w
Cadmium (dissolved) _A [#]	<0.2							µg/l	0.2	A-T-025w
Copper (dissolved) _A [#]	5							µg/l	4	A-T-025w
Chromium (dissolved) _A [#]	3							µg/l	1	A-T-025w
Chromium (hexavalent) (w) _A [#]	<0.01							mg/l	0.01	A-T-040w
Chromium (trivalent) (w)	<0.01							mg/l	0.01	Calc
Lead (dissolved) _A [#]	5							µg/l	1	A-T-025w
Mercury (dissolved) _A [#]	<0.1							µg/l	0.1	A-T-025w
Molybdenum (dissolved) _A [#]	7.3							µg/l	0.5	A-T-025w
Nickel (dissolved) _A [#]	2							µg/l	2	A-T-025w
Selenium (dissolved) _A [#]	<1							µg/l	1	A-T-025w
Vanadium (dissolved) _A [#]	<1							µg/l	1	A-T-025w
Zinc (dissolved) _A [#]	47							µg/l	2	A-T-025w

Envirolab Job Number: 24/09465

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/09465/8							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LILBH01									
Depth to Top	13.00									
Depth To Bottom										
Date Sampled	30-Sep-24									
Sample Type	WATER - EW									
Sample Matrix Code	N/A									
PAH 16MS (w)										
Acenaphthene (w) _A [#]	0.01							µg/l	0.01	A-T-019w
Acenaphthylene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Anthracene (w) _A [#]	0.01							µg/l	0.01	A-T-019w
Benzo(a)anthracene (w) _A [#]	0.07							µg/l	0.01	A-T-019w
Benzo(a)pyrene (w) _A [#]	0.08							µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w) _A [#]	0.10							µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w) _A [#]	0.07							µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w) _A [#]	0.04							µg/l	0.01	A-T-019w
Chrysene (w) _A [#]	0.08							µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w) _A [#]	0.01							µg/l	0.01	A-T-019w
Fluoranthene (w) _A [#]	0.12							µg/l	0.01	A-T-019w
Fluorene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w) _A [#]	0.07							µg/l	0.01	A-T-019w
Naphthalene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Phenanthrene (w) _A [#]	0.04							µg/l	0.01	A-T-019w
Pyrene (w) _A [#]	0.13							µg/l	0.01	A-T-019w
Total PAH 16MS (w) _A [#]	0.83							µg/l	0.01	A-T-019w

Envirolab Job Number: 24/09465

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/09465/8									
Client Sample No										
Client Sample ID	LILBH01									
Depth to Top	13.00									
Depth To Bottom										
Date Sampled	30-Sep-24									
Sample Type	WATER - EW									
Sample Matrix Code	N/A									
SVOC (excluding PAH-16) (w)										
1,2,4-Trichlorobenzene _A	<1							µg/l	1	A-T-052w
1,2-Dichlorobenzene _A	<1							µg/l	1	A-T-052w
1,3-Dichlorobenzene _A	<1							µg/l	1	A-T-052w
1,4-Dichlorobenzene _A	<1							µg/l	1	A-T-052w
2,4,5-Trichlorophenol _A	<1							µg/l	1	A-T-052w
2,4,6-Trichlorophenol _A	<1							µg/l	1	A-T-052w
2,4-Dichlorophenol _A	<1							µg/l	1	A-T-052w
2,4-Dimethylphenol _A	<1							µg/l	1	A-T-052w
2,4-Dinitrotoluene _A	<1							µg/l	1	A-T-052w
2,6-Dinitrotoluene _A	<1							µg/l	1	A-T-052w
2-Chloronaphthalene _A	<1							µg/l	1	A-T-052w
2-Chlorophenol _A	<1							µg/l	1	A-T-052w
2-Methylnaphthalene _A	<1							µg/l	1	A-T-052w
2-Methylphenol _A	<1							µg/l	1	A-T-052w
2-Nitrophenol _A	<1							µg/l	1	A-T-052w
4-Bromophenyl phenyl ether _A	<1							µg/l	1	A-T-052w
4-Chloro-3-methylphenol _A	<1							µg/l	1	A-T-052w
Bis(2-chloroisopropyl)ether _A	<1							µg/l	1	A-T-052w
3+4-Methylphenol _A	<1							µg/l	1	A-T-052w
4-Nitrophenol _A	<1							µg/l	1	A-T-052w
Bis(2-chloroethyl)ether _A	<1							µg/l	1	A-T-052w
Bis(2-chloroethoxy)methane _A	<1							µg/l	1	A-T-052w
Bis(2-ethylhexyl)phthalate _A	<10							µg/l	10	A-T-052w
Butylbenzyl phthalate _A	<1							µg/l	1	A-T-052w
Carbazole _A	<1							µg/l	1	A-T-052w
Dibenzofuran _A	<1							µg/l	1	A-T-052w
n-Dibutylphthalate _A	<1							µg/l	1	A-T-052w
n-Dioctylphthalate _A	<10							µg/l	10	A-T-052w
n-Nitroso-n-dipropylamine _A	<1							µg/l	1	A-T-052w
Diethyl phthalate _A	<1							µg/l	1	A-T-052w
Dimethyl phthalate _A	<1							µg/l	1	A-T-052w
Hexachlorobutadiene _A	<1							µg/l	1	A-T-052w

Envirolab Job Number: 24/09465

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/09465/8							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LILBH01									
Depth to Top	13.00									
Depth To Bottom										
Date Sampled	30-Sep-24									
Sample Type	WATER - EW									
Sample Matrix Code	N/A									
Hexachlorobenzene SVOC _A	<1							µg/l	1	A-T-052w
Pentachlorophenol SVOC _A	<1							µg/l	1	A-T-052w
Phenol _A	<1							µg/l	1	A-T-052w
Hexachloroethane _A	<1							µg/l	1	A-T-052w
Nitrobenzene _A	<1							µg/l	1	A-T-052w
Isophorone _A	<1							µg/l	1	A-T-052w
Perylene _A	<1							µg/l	1	A-T-052w

Envirolab Job Number: 24/09465

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/09465/8									
Client Sample No										
Client Sample ID	LILBH01									
Depth to Top	13.00									
Depth To Bottom										
Date Sampled	30-Sep-24									
Sample Type	WATER - EW									
Sample Matrix Code	N/A									
VOC (w)										
Dichlorodifluoromethane _A	<1							µg/l	1	A-T-006w
Chloromethane _A	<10							µg/l	10	A-T-006w
Vinyl Chloride _A [#]	<1							µg/l	1	A-T-006w
Bromomethane _A [#]	<1							µg/l	1	A-T-006w
Chloroethane _A [#]	<1							µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1							µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	2							µg/l	1	A-T-006w
Dichloromethane _A	<5							µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<1							µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	<1							µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	<1							µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	2							µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5							µg/l	5	A-T-006w
Chloroform _A [#]	2							µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1							µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2							µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1							µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1							µg/l	1	A-T-006w
Benzene _A [#]	1							µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	3							µg/l	1	A-T-006w
Dibromomethane _A [#]	<1							µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1							µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10							µg/l	10	A-T-006w
Trichloroethene _A [#]	<1							µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1							µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1							µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	<1							µg/l	1	A-T-006w
Toluene _A [#]	<1							µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1							µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3							µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1							µg/l	1	A-T-006w
Tetrachloroethene _A	<1							µg/l	1	A-T-006w

Envirolab Job Number: 24/09465

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/09465/8							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LILBH01									
Depth to Top	13.00									
Depth To Bottom										
Date Sampled	30-Sep-24									
Sample Type	WATER - EW									
Sample Matrix Code	N/A									
1,1,1,2-Tetrachloroethane _A	<1							µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1							µg/l	1	A-T-006w
Ethylbenzene _A [#]	<1							µg/l	1	A-T-006w
m & p Xylene _A [#]	<1							µg/l	1	A-T-006w
Bromoform _A [#]	<3							µg/l	3	A-T-006w
Styrene _A [#]	<1							µg/l	1	A-T-006w
1,1,1,2,2-Tetrachloroethane _A	<1							µg/l	1	A-T-006w
o-Xylene _A [#]	<1							µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1							µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1							µg/l	1	A-T-006w
Bromobenzene _A [#]	<1							µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1							µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1							µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1							µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1							µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1							µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1							µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1							µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1							µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1							µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2							µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1							µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1							µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2							µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3							µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3							µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1							µg/l	1	A-T-006w

Envirolab Job Number: 24/09465

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/09465/8									
Client Sample No										
Client Sample ID	LILBH01									
Depth to Top	13.00									
Depth To Bottom										
Date Sampled	30-Sep-24									
Sample Type	WATER - EW									
Sample Matrix Code	N/A									
TPH UKCWG (w) with Clean Up										
Ali >C5-C6 (w) _A [#]	<1							µg/l	1	A-T-022w
Ali >C6-C8 (w) _A [#]	<1							µg/l	1	A-T-022w
Ali >C8-C10 (w) _A [#]	<5							µg/l	5	A-T-055w
Ali >C10-C12 (w) _A [#]	<5							µg/l	5	A-T-055w
Ali >C12-C16 (w) _A [#]	<5							µg/l	5	A-T-055w
Ali >C16-C21 (w) _A [#]	<5							µg/l	5	A-T-055w
Ali >C21-C35 (w) _A [#]	30							µg/l	5	A-T-055w
Ali >C35-C44 (w) _A	<5							µg/l	5	A-T-055w
Total Aliphatics (w) _A	30							µg/l	5	Calc-As Recd
Aro >C5-C7 (w) _A [#]	1							µg/l	1	A-T-022w
Aro >C7-C8 (w) _A [#]	<1							µg/l	1	A-T-022w
Aro >C8-C10 (w) _A	<5							µg/l	5	A-T-055w
Aro >C10-C12 (w) _A [#]	<5							µg/l	5	A-T-055w
Aro >C12-C16 (w) _A [#]	5							µg/l	5	A-T-055w
Aro >C16-C21 (w) _A [#]	10							µg/l	5	A-T-055w
Aro >C21-C35 (w) _A [#]	<10							µg/l	10	A-T-055w
Aro >C35-C44 (w) _A	<5							µg/l	5	A-T-055w
Total Aromatics (w) _A	16							µg/l	10	Calc-As Recd
TPH (Ali & Aro >C5-C44) (w) _A	46							µg/l	10	Calc-As Recd
BTEX - Benzene (w) _A [#]	1							µg/l	1	A-T-022w
BTEX - Toluene (w) _A [#]	<1							µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w) _A [#]	<1							µg/l	1	A-T-022w
BTEX - m & p Xylene (w) _A [#]	<1							µg/l	1	A-T-022w
BTEX - o Xylene (w) _A [#]	<1							µg/l	1	A-T-022w
MTBE (w) _A [#]	<1							µg/l	1	A-T-022w

Report Notes

General

- This report shall not be reproduced, except in full, without written approval from Envirolab.
- The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
- The results reported herein relate only to the material supplied to the laboratory.
- The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
- Analytical results reflect the quality of the sample at the time of analysis only.
- Opinions and Interpretations expressed are outside our scope of accreditation.
- A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
- If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
- Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript “#”	Accredited to ISO 17025
Superscript “M”	Accredited to MCertS
Superscript “U”	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript “A”	Analysis performed on as-received Sample
Subscript “D”	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript “D” on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript “A”	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis

“Trace Asbestos Identified” will be reported if there is not enough present to verify the type.

Quantification: Generally a 2 stage process including visual identification, hand picking and weighing, and fibre counting. Where ACMs are found a percentage asbestos is assigned to each with reference to ‘HSG264, Asbestos: The survey guide’ and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres). “TRACE” will be reported as a quantification result.

PLEASE INFORM THE LABORATORY IF YOU WOULD LIKE THE STAGE 3 SEDIMENTATION PROCESS CARRIED OUT. Note this will be subcontracted.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs

Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.

Soil Chemical Analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as ‘% stones >10mm’.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any “D” subscripts.

TPH by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only. Results “with Clean up” indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.

Where these humic substances have been identified in any IDs from “TPH CWG with clean up” please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: ROCP LIMITED, Commercial Wharf 6 Commercial Street, Castlefield,
Manchester, M15 4PZ

Project: Dantzic Street

Clients Project No: 4328

Project No: 24/09465

Date Received: 01/10/2024 (pm)

Cool Box Temperatures (°C): 16.1, 15.9, 16.4, 16.3

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	24/09465/1	24/09465/2	24/09465/3	24/09465/4	24/09465/5	24/09465/6	24/09465/7	24/09465/8
Client Sample No								
Client Sample ID/Depth	RBH502 13.00m	RBH203 13.00m	RBH501 10.00m	RBH503 7.00m	RBH305 7.00m	RBH504 8.50m	RBH505 10.00m	LILBH01 13.00m
Date Sampled	30/09/24	30/09/24	30/09/24	30/09/24	30/09/24	30/09/24	30/09/24	30/09/24
A-T-006w	03/10/2024	03/10/2024	03/10/2024	03/10/2024	03/10/2024	03/10/2024	03/10/2024	03/10/2024
A-T-019w	04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024
A-T-022w	03/10/2024	03/10/2024	03/10/2024	03/10/2024	03/10/2024	03/10/2024	03/10/2024	03/10/2024
A-T-025w	10/10/2024	10/10/2024	10/10/2024	10/10/2024	10/10/2024	10/10/2024	10/10/2024	10/10/2024
A-T-026w	03/10/2024	03/10/2024	03/10/2024	03/10/2024	03/10/2024	03/10/2024	03/10/2024	03/10/2024
A-T-031w	03/10/2024	03/10/2024	03/10/2024	03/10/2024	03/10/2024	03/10/2024	03/10/2024	03/10/2024
A-T-032w	03/10/2024	03/10/2024	03/10/2024	03/10/2024	03/10/2024	03/10/2024	03/10/2024	03/10/2024
A-T-040w	03/10/2024	03/10/2024	03/10/2024	03/10/2024	03/10/2024	03/10/2024	03/10/2024	03/10/2024
A-T-042wTCN	03/10/2024	03/10/2024	03/10/2024	03/10/2024	03/10/2024	03/10/2024	03/10/2024	03/10/2024
A-T-050w	07/10/2024	07/10/2024	07/10/2024	07/10/2024	07/10/2024	07/10/2024	07/10/2024	07/10/2024
A-T-052w	07/10/2024	07/10/2024	07/10/2024	07/10/2024	07/10/2024	07/10/2024	07/10/2024	07/10/2024
A-T-055w	04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024
Calc	09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024
Calc-As Recd	04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024	04/10/2024

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 24/09921
Issue Number: 1

Date: 23 October, 2024

Client: ROCP LIMITED
Commercial Wharf 6 Commercial Street
Castlefield
Manchester
M15 4PZ

Project Manager: Reece McGuinness/Talaat Mousa
Project Name: Dantzie Street
Project Ref: 4328
Order No: PBJ20369
Date Samples Received: 14/10/24
Date Instructions Received: 14/10/24
Date Analysis Completed: 23/10/24

Approved by:



Richard Wong
Client Manager

Envirolab Job Number: 24/09921

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/09921/1	24/09921/2	24/09921/3	24/09921/4	24/09921/5	24/09921/6	24/09921/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH203	RBH305	RBH501	RBH502	RBH503	RBH504			
Depth to Top	13.20	14.80	7.20	13.00	16.30	8.20	8.70			
Depth To Bottom										
Date Sampled	14-Oct-24	14-Oct-24	14-Oct-24	14-Oct-24	14-Oct-24	14-Oct-24	14-Oct-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
pH (w) [#]	7.04	6.75	7.12	6.90	6.95	6.80	6.58	pH	0.01	A-T-031w
Sulphate (w) _A [#]	206	75	669	184	211	269	247	mg/l	1	A-T-026w
Cyanide (total) (w) _A [#]	0.036	<0.005	<0.005	<0.005	0.016	0.034	<0.005	mg/l	0.005	A-T-042wTCN
Phenols - Total by HPLC (w) _A	0.02	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	mg/l	0.01	A-T-050w
DOC - Dissolved Organic Carbon (w) _A [#]	3.2	<2.0	10.0	4.4	3.0	3.0	7.6	mg/l	2	A-T-032w
Antimony (dissolved) _A	<1	<1	3	<1	<1	<1	<1	µg/l	1	A-T-025w
Arsenic (dissolved) _A [#]	11	<1	2	<1	<1	9	<1	µg/l	1	A-T-025w
Boron (dissolved) _A [#]	126	228	422	335	250	248	277	µg/l	10	A-T-025w
Barium (dissolved) _A [#]	58	65	106	70	64	69	77	µg/l	1	A-T-025w
Beryllium (dissolved) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-025w
Cadmium (dissolved) _A [#]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	µg/l	0.2	A-T-025w
Copper (dissolved) _A [#]	<4	4	9	16	7	<4	10	µg/l	4	A-T-025w
Chromium (dissolved) _A [#]	<1	<1	1	<1	<1	<1	<1	µg/l	1	A-T-025w
Chromium (hexavalent) (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/l	0.01	A-T-040w
Chromium (trivalent) (w)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/l	0.01	Calc
Lead (dissolved) _A [#]	2	<1	<1	3	<1	<1	10	µg/l	1	A-T-025w
Mercury (dissolved) _A [#]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	µg/l	0.1	A-T-025w
Molybdenum (dissolved) _A [#]	0.6	<0.5	15.4	<0.5	<0.5	<0.5	<0.5	µg/l	0.5	A-T-025w
Nickel (dissolved) _A [#]	4	2	10	2	13	8	18	µg/l	2	A-T-025w
Selenium (dissolved) _A [#]	<1	2	2	2	3	<1	2	µg/l	1	A-T-025w
Vanadium (dissolved) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-025w
Zinc (dissolved) _A [#]	57	21	26	59	48	21	68	µg/l	2	A-T-025w

Envirolab Job Number: 24/09921

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/09921/1	24/09921/2	24/09921/3	24/09921/4	24/09921/5	24/09921/6	24/09921/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH203	RBH305	RBH501	RBH502	RBH503	RBH504			
Depth to Top	13.20	14.80	7.20	13.00	16.30	8.20	8.70			
Depth To Bottom										
Date Sampled	14-Oct-24	14-Oct-24	14-Oct-24	14-Oct-24	14-Oct-24	14-Oct-24	14-Oct-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
PAH 16MS (w)										
Acenaphthene (w) _A [#]	0.24	0.32	<0.01	<0.01	<0.01	0.22	0.36	µg/l	0.01	A-T-019w
Acenaphthylene (w) _A [#]	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Anthracene (w) _A [#]	0.07	0.04	<0.01	<0.01	<0.01	0.05	0.10	µg/l	0.01	A-T-019w
Benzo(a)anthracene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Benzo(a)pyrene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w) _A [#]	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Chrysene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Fluoranthene (w) _A [#]	0.02	0.15	<0.01	<0.01	<0.01	0.02	0.09	µg/l	0.01	A-T-019w
Fluorene (w) _A [#]	<0.01	0.11	<0.01	<0.01	<0.01	0.02	0.23	µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w) _A [#]	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Naphthalene (w) _A [#]	0.03	<0.01	<0.01	<0.01	<0.01	0.03	0.49	µg/l	0.01	A-T-019w
Phenanthrene (w) _A [#]	<0.01	0.19	<0.01	<0.01	<0.01	0.02	0.30	µg/l	0.01	A-T-019w
Pyrene (w) _A [#]	0.02	0.13	<0.01	<0.01	<0.01	0.01	0.07	µg/l	0.01	A-T-019w
Total PAH 16MS (w) _A [#]	0.42	0.94	<0.01	<0.01	<0.01	0.37	1.64	µg/l	0.01	A-T-019w

Envirolab Job Number: 24/09921

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/09921/1	24/09921/2	24/09921/3	24/09921/4	24/09921/5	24/09921/6	24/09921/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH203	RBH305	RBH501	RBH502	RBH503	RBH504			
Depth to Top	13.20	14.80	7.20	13.00	16.30	8.20	8.70			
Depth To Bottom										
Date Sampled	14-Oct-24	14-Oct-24	14-Oct-24	14-Oct-24	14-Oct-24	14-Oct-24	14-Oct-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
SVOC (w)										
1,2,4-Trichlorobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
1,2-Dichlorobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
1,3-Dichlorobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
1,4-Dichlorobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4,5-Trichlorophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4,6-Trichlorophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4-Dichlorophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4-Dimethylphenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4-Dinitrotoluene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,6-Dinitrotoluene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Chloronaphthalene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Chlorophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Methylnaphthalene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Methylphenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Nitrophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
4-Bromophenyl phenyl ether _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
4-Chloro-3-methylphenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Bis(2-chloroisopropyl)ether _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
3+4-Methylphenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
4-Nitrophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Acenaphthene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Acenaphthylene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Anthracene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Bis(2-chloroethyl)ether _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Bis(2-chloroethoxy)methane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Bis(2-ethylhexyl)phthalate _A	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-052w
Benzo(a)anthracene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Butylbenzyl phthalate _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Benzo(b)fluoranthene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Benzo(k)fluoranthene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Benzo(a)pyrene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Benzo(ghi)perylene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w

Envirolab Job Number: 24/09921

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/09921/1	24/09921/2	24/09921/3	24/09921/4	24/09921/5	24/09921/6	24/09921/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH203	RBH305	RBH501	RBH502	RBH503	RBH504			
Depth to Top	13.20	14.80	7.20	13.00	16.30	8.20	8.70			
Depth To Bottom										
Date Sampled	14-Oct-24	14-Oct-24	14-Oct-24	14-Oct-24	14-Oct-24	14-Oct-24	14-Oct-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Carbazole _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Chrysene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Dibenzofuran _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
n-Dibutylphthalate _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
n-Diethylphthalate _A	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-052w
n-Nitroso-n-dipropylamine _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Diethyl phthalate _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Dimethyl phthalate _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Dibenzo(ah)anthracene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Fluorene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Fluoranthene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Hexachlorobutadiene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Hexachlorobenzene SVOC _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Pentachlorophenol SVOC _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Phenol _A	5	<1	<1	<1	<1	1	<1	µg/l	1	A-T-052w
Hexachloroethane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Nitrobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Naphthalene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Isophorone _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Phenanthrene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Pyrene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Indeno(1,2,3-cd)pyrene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Perylene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w

Envirolab Job Number: 24/09921

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/09921/1	24/09921/2	24/09921/3	24/09921/4	24/09921/5	24/09921/6	24/09921/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH203	RBH305	RBH501	RBH502	RBH503	RBH504			
Depth to Top	13.20	14.80	7.20	13.00	16.30	8.20	8.70			
Depth To Bottom										
Date Sampled	14-Oct-24	14-Oct-24	14-Oct-24	14-Oct-24	14-Oct-24	14-Oct-24	14-Oct-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
VOC (w)										
Dichlorodifluoromethane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Chloromethane _A	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-006w
Vinyl Chloride _A [#]	49	<1	<1	<1	<1	27	<1	µg/l	1	A-T-006w
Bromomethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Chloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	299	<1	<1	1	<1	9	2	µg/l	1	A-T-006w
Dichloromethane _A	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	246	3	<1	18	<1	88	180	µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-006w
Chloroform _A [#]	<1	33	<1	421	124	<1	11	µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Benzene _A [#]	590	<1	<1	<1	<1	13	<1	µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	<1	66	<1	311	299	<1	25	µg/l	1	A-T-006w
Dibromomethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-006w
Trichloroethene _A [#]	<1	73	<1	1174	14	<1	32	µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	<1	<1	<1	5	2	<1	1	µg/l	1	A-T-006w
Toluene _A [#]	1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Tetrachloroethene _A	<1	<1	<1	2	<1	<1	<1	µg/l	1	A-T-006w

Envirolab Job Number: 24/09921

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/09921/1	24/09921/2	24/09921/3	24/09921/4	24/09921/5	24/09921/6	24/09921/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH203	RBH305	RBH501	RBH502	RBH503	RBH504			
Depth to Top	13.20	14.80	7.20	13.00	16.30	8.20	8.70			
Depth To Bottom										
Date Sampled	14-Oct-24	14-Oct-24	14-Oct-24	14-Oct-24	14-Oct-24	14-Oct-24	14-Oct-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
1,1,1,2-Tetrachloroethane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Ethylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
m & p Xylene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromoform _A [#]	<3 ^U	<3 ^U	<3 ^U	<3 ^U	<3 ^U	<3 ^U	<3 ^U	µg/l	3	A-T-006w
Styrene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1,2,2-Tetrachloroethane _A	<1	<1	<1	4	<1	<1	<1	µg/l	1	A-T-006w
o-Xylene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1 ^U	<1 ^U	<1 ^U	<1 ^U	<1 ^U	<1 ^U	<1 ^U	µg/l	1	A-T-006w
Bromobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w

Envirolab Job Number: 24/09921

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/09921/1	24/09921/2	24/09921/3	24/09921/4	24/09921/5	24/09921/6	24/09921/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH203	RBH305	RBH501	RBH502	RBH503	RBH504			
Depth to Top	13.20	14.80	7.20	13.00	16.30	8.20	8.70			
Depth To Bottom										
Date Sampled	14-Oct-24	14-Oct-24	14-Oct-24	14-Oct-24	14-Oct-24	14-Oct-24	14-Oct-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
TPH UKCWG (w) with Clean Up										
Ali >C5-C6 (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Ali >C6-C8 (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Ali >C8-C10 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C10-C12 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C12-C16 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C16-C21 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C21-C35 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C35-C44 (w) _A	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Total Aliphatics (w) _A	<5	<5	<5	<5	<5	<5	<5	µg/l	5	Calc-As Recd
Aro >C5-C7 (w) _A [#]	416	<1	<1	<1	<1	8	<1	µg/l	1	A-T-022w
Aro >C7-C8 (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Aro >C8-C10 (w) _A	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Aro >C10-C12 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Aro >C12-C16 (w) _A [#]	<5	<5	<5	17	<5	<5	<5	µg/l	5	A-T-055w
Aro >C16-C21 (w) _A [#]	5	<5	<5	60	<5	<5	7	µg/l	5	A-T-055w
Aro >C21-C35 (w) _A [#]	<10	<10	<10	39	<10	<10	<10	µg/l	10	A-T-055w
Aro >C35-C44 (w) _A	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Total Aromatics (w) _A	421	<10	<10	116	<10	<10	<10	µg/l	10	Calc-As Recd
TPH (Ali & Aro >C5-C44) (w) _A	421	<10	<10	116	<10	<10	<10	µg/l	10	Calc-As Recd
BTEX - Benzene (w) _A [#]	416	<1	<1	<1	<1	8	<1	µg/l	1	A-T-022w
BTEX - Toluene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - m & p Xylene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - o Xylene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
MTBE (w) _A [#]	<1 ^U	<1 ^U	<1 ^U	<1 ^U	<1 ^U	<1 ^U	<1 ^U	µg/l	1	A-T-022w

Envirolab Job Number: 24/09921

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/09921/8							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH505									
Depth to Top	10.90									
Depth To Bottom										
Date Sampled	14-Oct-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
pH (w) [#]	6.75							pH	0.01	A-T-031w
Sulphate (w) [#]	229							mg/l	1	A-T-026w
Cyanide (total) (w) [#]	0.231							mg/l	0.005	A-T-042wTCN
Phenols - Total by HPLC (w) _A	0.01							mg/l	0.01	A-T-050w
DOC - Dissolved Organic Carbon (w) _A [#]	2.5							mg/l	2	A-T-032w
Antimony (dissolved) _A	<1							µg/l	1	A-T-025w
Arsenic (dissolved) _A [#]	7							µg/l	1	A-T-025w
Boron (dissolved) _A [#]	187							µg/l	10	A-T-025w
Barium (dissolved) _A [#]	60							µg/l	1	A-T-025w
Beryllium (dissolved) _A [#]	<1							µg/l	1	A-T-025w
Cadmium (dissolved) _A [#]	<0.2							µg/l	0.2	A-T-025w
Copper (dissolved) _A [#]	<4							µg/l	4	A-T-025w
Chromium (dissolved) _A [#]	<1							µg/l	1	A-T-025w
Chromium (hexavalent) (w) _A [#]	<0.02							mg/l	0.01	A-T-040w
Chromium (trivalent) (w)	<0.02							mg/l	0.01	Calc
Lead (dissolved) _A [#]	<1							µg/l	1	A-T-025w
Mercury (dissolved) _A [#]	<0.1							µg/l	0.1	A-T-025w
Molybdenum (dissolved) _A [#]	<0.5							µg/l	0.5	A-T-025w
Nickel (dissolved) _A [#]	10							µg/l	2	A-T-025w
Selenium (dissolved) _A [#]	<1							µg/l	1	A-T-025w
Vanadium (dissolved) _A [#]	<1							µg/l	1	A-T-025w
Zinc (dissolved) _A [#]	41							µg/l	2	A-T-025w

Envirolab Job Number: 24/09921/8

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/09921/8									
Client Sample No										
Client Sample ID	RBH505									
Depth to Top	10.90									
Depth To Bottom										
Date Sampled	14-Oct-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
PAH 16MS (w)										
Acenaphthene (w) _A [#]	0.13							µg/l	0.01	A-T-019w
Acenaphthylene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Anthracene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Benzo(a)anthracene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Benzo(a)pyrene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Chrysene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Fluoranthene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Fluorene (w) _A [#]	0.01							µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Naphthalene (w) _A [#]	0.02							µg/l	0.01	A-T-019w
Phenanthrene (w) _A [#]	0.01							µg/l	0.01	A-T-019w
Pyrene (w) _A [#]	0.02							µg/l	0.01	A-T-019w
Total PAH 16MS (w) _A [#]	0.19							µg/l	0.01	A-T-019w

Envirolab Job Number: 24/09921/8

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/09921/8									
Client Sample No										
Client Sample ID	RBH505									
Depth to Top	10.90									
Depth To Bottom										
Date Sampled	14-Oct-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
SVOC (w)										
1,2,4-Trichlorobenzene _A	<1							µg/l	1	A-T-052w
1,2-Dichlorobenzene _A	<1							µg/l	1	A-T-052w
1,3-Dichlorobenzene _A	<1							µg/l	1	A-T-052w
1,4-Dichlorobenzene _A	<1							µg/l	1	A-T-052w
2,4,5-Trichlorophenol _A	<1							µg/l	1	A-T-052w
2,4,6-Trichlorophenol _A	<1							µg/l	1	A-T-052w
2,4-Dichlorophenol _A	<1							µg/l	1	A-T-052w
2,4-Dimethylphenol _A	<1							µg/l	1	A-T-052w
2,4-Dinitrotoluene _A	<1							µg/l	1	A-T-052w
2,6-Dinitrotoluene _A	<1							µg/l	1	A-T-052w
2-Chloronaphthalene _A	<1							µg/l	1	A-T-052w
2-Chlorophenol _A	<1							µg/l	1	A-T-052w
2-Methylnaphthalene _A	<1							µg/l	1	A-T-052w
2-Methylphenol _A	<1							µg/l	1	A-T-052w
2-Nitrophenol _A	<1							µg/l	1	A-T-052w
4-Bromophenyl phenyl ether _A	<1							µg/l	1	A-T-052w
4-Chloro-3-methylphenol _A	<1							µg/l	1	A-T-052w
Bis(2-chloroisopropyl)ether _A	<1							µg/l	1	A-T-052w
3+4-Methylphenol _A	<1							µg/l	1	A-T-052w
4-Nitrophenol _A	<1							µg/l	1	A-T-052w
Acenaphthene _A	<1							µg/l	1	A-T-052w
Acenaphthylene _A	<1							µg/l	1	A-T-052w
Anthracene _A	<1							µg/l	1	A-T-052w
Bis(2-chloroethyl)ether _A	<1							µg/l	1	A-T-052w
Bis(2-chloroethoxy)methane _A	<1							µg/l	1	A-T-052w
Bis(2-ethylhexyl)phthalate _A	<10							µg/l	10	A-T-052w
Benzo(a)anthracene _A	<1							µg/l	1	A-T-052w
Butylbenzyl phthalate _A	<1							µg/l	1	A-T-052w
Benzo(b)fluoranthene _A	<1							µg/l	1	A-T-052w
Benzo(k)fluoranthene _A	<1							µg/l	1	A-T-052w
Benzo(a)pyrene _A	<1							µg/l	1	A-T-052w
Benzo(ghi)perylene _A	<1							µg/l	1	A-T-052w

Envirolab Job Number: 24/09921/8

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/09921/8							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH505									
Depth to Top	10.90									
Depth To Bottom										
Date Sampled	14-Oct-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
Carbazole _A	<1							µg/l	1	A-T-052w
Chrysene _A	<1							µg/l	1	A-T-052w
Dibenzofuran _A	<1							µg/l	1	A-T-052w
n-Dibutylphthalate _A	<1							µg/l	1	A-T-052w
n-Dioctylphthalate _A	<10							µg/l	10	A-T-052w
n-Nitroso-n-dipropylamine _A	<1							µg/l	1	A-T-052w
Diethyl phthalate _A	<1							µg/l	1	A-T-052w
Dimethyl phthalate _A	<1							µg/l	1	A-T-052w
Dibenzo(ah)anthracene _A	<1							µg/l	1	A-T-052w
Fluorene _A	<1							µg/l	1	A-T-052w
Fluoranthene _A	<1							µg/l	1	A-T-052w
Hexachlorobutadiene _A	<1							µg/l	1	A-T-052w
Hexachlorobenzene SVOC _A	<1							µg/l	1	A-T-052w
Pentachlorophenol SVOC _A	<1							µg/l	1	A-T-052w
Phenol _A	<1							µg/l	1	A-T-052w
Hexachloroethane _A	<1							µg/l	1	A-T-052w
Nitrobenzene _A	<1							µg/l	1	A-T-052w
Naphthalene _A	<1							µg/l	1	A-T-052w
Isophorone _A	<1							µg/l	1	A-T-052w
Phenanthrene _A	<1							µg/l	1	A-T-052w
Pyrene _A	<1							µg/l	1	A-T-052w
Indeno(1,2,3-cd)pyrene _A	<1							µg/l	1	A-T-052w
Perylene _A	<1							µg/l	1	A-T-052w

Envirolab Job Number: 24/09921

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/09921/8									
Client Sample No										
Client Sample ID	RBH505									
Depth to Top	10.90									
Depth To Bottom										
Date Sampled	14-Oct-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
VOC (w)										
Dichlorodifluoromethane _A	<1							µg/l	1	A-T-006w
Chloromethane _A	<10							µg/l	10	A-T-006w
Vinyl Chloride _A [#]	<1							µg/l	1	A-T-006w
Bromomethane _A [#]	<1							µg/l	1	A-T-006w
Chloroethane _A [#]	<1							µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1							µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	<1							µg/l	1	A-T-006w
Dichloromethane _A	<5							µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<1							µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	<1							µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	<1							µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	<1							µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5							µg/l	5	A-T-006w
Chloroform _A [#]	<1							µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1							µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2							µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1							µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1							µg/l	1	A-T-006w
Benzene _A [#]	1							µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	<1							µg/l	1	A-T-006w
Dibromomethane _A [#]	<1							µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1							µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10							µg/l	10	A-T-006w
Trichloroethene _A [#]	<1							µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1							µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1							µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	<1							µg/l	1	A-T-006w
Toluene _A [#]	<1							µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1							µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3							µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1							µg/l	1	A-T-006w
Tetrachloroethene _A	<1							µg/l	1	A-T-006w

Envirolab Job Number: 24/09921

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/09921/8							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH505									
Depth to Top	10.90									
Depth To Bottom										
Date Sampled	14-Oct-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
1,1,1,2-Tetrachloroethane _A	<1							µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1							µg/l	1	A-T-006w
Ethylbenzene _A [#]	<1							µg/l	1	A-T-006w
m & p Xylene _A [#]	<1							µg/l	1	A-T-006w
Bromoform _A [#]	<3 ^U							µg/l	3	A-T-006w
Styrene _A [#]	<1							µg/l	1	A-T-006w
1,1,1,2,2-Tetrachloroethane _A	<1							µg/l	1	A-T-006w
o-Xylene _A [#]	<1							µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1							µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1 ^U							µg/l	1	A-T-006w
Bromobenzene _A [#]	<1							µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1							µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1							µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1							µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1							µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1							µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1							µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1							µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1							µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1							µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2							µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1							µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1							µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2							µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3							µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3							µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1							µg/l	1	A-T-006w

Envirolab Job Number: 24/09921/8

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/09921/8									
Client Sample No										
Client Sample ID	RBH505									
Depth to Top	10.90									
Depth To Bottom										
Date Sampled	14-Oct-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
TPH UKCWG (w) with Clean Up										
Ali >C5-C6 (w) _A [#]	<1							µg/l	1	A-T-022w
Ali >C6-C8 (w) _A [#]	<1							µg/l	1	A-T-022w
Ali >C8-C10 (w) _A [#]	<5							µg/l	5	A-T-055w
Ali >C10-C12 (w) _A [#]	<5							µg/l	5	A-T-055w
Ali >C12-C16 (w) _A [#]	<5							µg/l	5	A-T-055w
Ali >C16-C21 (w) _A [#]	<5							µg/l	5	A-T-055w
Ali >C21-C35 (w) _A [#]	<5							µg/l	5	A-T-055w
Ali >C35-C44 (w) _A	<5							µg/l	5	A-T-055w
Total Aliphatics (w) _A	<5							µg/l	5	Calc-As Recd
Aro >C5-C7 (w) _A [#]	<1							µg/l	1	A-T-022w
Aro >C7-C8 (w) _A [#]	<1							µg/l	1	A-T-022w
Aro >C8-C10 (w) _A	<5							µg/l	5	A-T-055w
Aro >C10-C12 (w) _A [#]	<5							µg/l	5	A-T-055w
Aro >C12-C16 (w) _A [#]	<5							µg/l	5	A-T-055w
Aro >C16-C21 (w) _A [#]	<5							µg/l	5	A-T-055w
Aro >C21-C35 (w) _A [#]	<10							µg/l	10	A-T-055w
Aro >C35-C44 (w) _A	<5							µg/l	5	A-T-055w
Total Aromatics (w) _A	<10							µg/l	10	Calc-As Recd
TPH (Ali & Aro >C5-C44) (w) _A	<10							µg/l	10	Calc-As Recd
BTEX - Benzene (w) _A [#]	<1							µg/l	1	A-T-022w
BTEX - Toluene (w) _A [#]	<1							µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w) _A [#]	<1							µg/l	1	A-T-022w
BTEX - m & p Xylene (w) _A [#]	<1							µg/l	1	A-T-022w
BTEX - o Xylene (w) _A [#]	<1							µg/l	1	A-T-022w
MTBE (w) _A [#]	<1 ^U							µg/l	1	A-T-022w

Report Notes

General

- This report shall not be reproduced, except in full, without written approval from Envirolab.
- The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
- The results reported herein relate only to the material supplied to the laboratory.
- The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
- Analytical results reflect the quality of the sample at the time of analysis only.
- Opinions and Interpretations expressed are outside our scope of accreditation.
- A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
- If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
- Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript “#”	Accredited to ISO 17025
Superscript “M”	Accredited to MCertS
Superscript “U”	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript “A”	Analysis performed on as-received Sample
Subscript “D”	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript “D” on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript “A”	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis

“Trace Asbestos Identified” will be reported if there is not enough present to verify the type.

Quantification: Generally a 2 stage process including visual identification, hand picking and weighing, and fibre counting. Where ACMs are found a percentage asbestos is assigned to each with reference to ‘HSG264, Asbestos: The survey guide’ and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres). “TRACE” will be reported as a quantification result.

PLEASE INFORM THE LABORATORY IF YOU WOULD LIKE THE STAGE 3 SEDIMENTATION PROCESS CARRIED OUT. Note this will be subcontracted.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs

Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.

Soil Chemical Analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as ‘% stones >10mm’.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any “D” subscripts.

TPH by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only. Results “with Clean up” indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.

Where these humic substances have been identified in any IDs from “TPH CWG with clean up” please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: ROCP LIMITED, Commercial Wharf 6 Commercial Street, Castlefield,
Manchester, M15 4PZ

Project: Dantzic Street

Clients Project No: 4328

Project No: 24/09921

Date Received: 14/10/2024 (pm)

Cool Box Temperatures (°C): 14.3, 14.8

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	24/09921/1	24/09921/2	24/09921/3	24/09921/4	24/09921/5	24/09921/6	24/09921/7	24/09921/8
Client Sample No								
Client Sample ID/Depth	LKBH01 13.20m	RBH203 14.80m	RBH305 7.20m	RBH501 13.00m	RBH502 16.30m	RBH503 8.20m	RBH504 8.70m	RBH505 10.90m
Date Sampled	14/10/24	14/10/24	14/10/24	14/10/24	14/10/24	14/10/24	14/10/24	14/10/24
A-T-006w	18/10/2024	18/10/2024	18/10/2024	18/10/2024	18/10/2024	18/10/2024	18/10/2024	18/10/2024
A-T-019w	18/10/2024	18/10/2024	18/10/2024	18/10/2024	18/10/2024	18/10/2024	18/10/2024	18/10/2024
A-T-022w	17/10/2024	17/10/2024	17/10/2024	17/10/2024	17/10/2024	17/10/2024	17/10/2024	17/10/2024
A-T-025w	21/10/2024	21/10/2024	21/10/2024	21/10/2024	21/10/2024	21/10/2024	21/10/2024	21/10/2024
A-T-026w	17/10/2024	17/10/2024	17/10/2024	17/10/2024	17/10/2024	17/10/2024	17/10/2024	17/10/2024
A-T-031w	15/10/2024	15/10/2024	15/10/2024	15/10/2024	15/10/2024	15/10/2024	15/10/2024	15/10/2024
A-T-032w	18/10/2024	18/10/2024	18/10/2024	18/10/2024	18/10/2024	18/10/2024	18/10/2024	18/10/2024
A-T-040w	17/10/2024	17/10/2024	17/10/2024	17/10/2024	17/10/2024	17/10/2024	17/10/2024	17/10/2024
A-T-042wTCN	16/10/2024	16/10/2024	16/10/2024	16/10/2024	16/10/2024	16/10/2024	16/10/2024	16/10/2024
A-T-050w	18/10/2024	18/10/2024	18/10/2024	18/10/2024	18/10/2024	18/10/2024	18/10/2024	18/10/2024
A-T-052w	23/10/2024	21/10/2024	23/10/2024	21/10/2024	23/10/2024	21/10/2024	21/10/2024	23/10/2024
A-T-055w	17/10/2024	17/10/2024	17/10/2024	17/10/2024	17/10/2024	17/10/2024	17/10/2024	17/10/2024
Calc	21/10/2024	21/10/2024	21/10/2024	21/10/2024	21/10/2024	21/10/2024	21/10/2024	21/10/2024
Calc-As Recd	17/10/2024	17/10/2024	17/10/2024	17/10/2024	17/10/2024	17/10/2024	17/10/2024	17/10/2024

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 24/11222
Issue Number: 1

Date: 28 November, 2024

Client: ROCP LIMITED
Commercial Wharf 6 Commercial Street
Castlefield
Manchester
M15 4PZ

Project Manager: Reece McGuinness
Project Name: Dantzic Street
Project Ref: 4328
Order No: PBJ20400
Date Samples Received: 18/11/24
Date Instructions Received: 19/11/24
Date Analysis Completed: 28/11/24

Approved by:



Richard Wong
Client Manager

Envirolab Job Number: 24/11222

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/11222/1	24/11222/2	24/11222/3	24/11222/4	24/11222/5	24/11222/6	24/11222/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH203	RBH305	RBH501	RBH502	RBH503	RBH504			
Depth to Top	13.20	14.80	7.20	13.00	16.30	8.20	8.70			
Depth To Bottom										
Date Sampled	18-Nov-24	18-Nov-24	18-Nov-24	18-Nov-24	18-Nov-24	18-Nov-24	18-Nov-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
pH (w) [#]	6.94	6.77	6.89	6.80	6.84	6.66	6.58	pH	0.01	A-T-031w
Hardness Total [#]	614	344	455	508	444	658	691	mg/l Ca CO ₃	4	A-T-049w
Sulphate (w) [#]	202	73	405	175	194	265	239	mg/l	1	A-T-026w
Cyanide (total) (w) [#]	0.049	<0.005	<0.005	<0.005	0.015	0.041	<0.005	mg/l	0.005	A-T-042wTCN
Phenols - Total by HPLC (w) _A	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/l	0.01	A-T-050w
DOC - Dissolved Organic Carbon (w) _A [#]	15.0	4.9	16.5	13.7	9.6	12.6	18.0	mg/l	2	A-T-032w
Antimony (dissolved) _A	<1	<1	3	<1	<1	<1	<1	µg/l	1	A-T-025w
Arsenic (dissolved) _A [#]	20	<1	1	<1	<1	8	<1	µg/l	1	A-T-025w
Boron (dissolved) _A [#]	130	259	626	376	326	288	335	µg/l	10	A-T-025w
Barium (dissolved) _A [#]	56	71	86	73	75	79	75	µg/l	1	A-T-025w
Beryllium (dissolved) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-025w
Cadmium (dissolved) _A [#]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	µg/l	0.2	A-T-025w
Copper (dissolved) _A [#]	<4	4	26	16	11	<4	26	µg/l	4	A-T-025w
Chromium (dissolved) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-025w
Chromium (hexavalent) (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	mg/l	0.01	A-T-040w
Chromium (trivalent) (w)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	mg/l	0.01	Calc
Lead (dissolved) _A [#]	<1	<1	<1	3	<1	<1	28	µg/l	1	A-T-025w
Mercury (dissolved) _A [#]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	µg/l	0.1	A-T-025w
Molybdenum (dissolved) _A [#]	<0.5	<0.5	13.1	<0.5	<0.5	<0.5	<0.5	µg/l	0.5	A-T-025w
Nickel (dissolved) _A [#]	3	3	8	3	28	23	6	µg/l	2	A-T-025w
Selenium (dissolved) _A [#]	<1	3	2	2	3	<1	2	µg/l	1	A-T-025w
Vanadium (dissolved) _A [#]	<1	<1	1	<1	<1	<1	<1	µg/l	1	A-T-025w
Zinc (dissolved) _A [#]	48	28	97	63	53	60	54	µg/l	2	A-T-025w

Envirolab Job Number: 24/11222

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/11222/1	24/11222/2	24/11222/3	24/11222/4	24/11222/5	24/11222/6	24/11222/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH203	RBH305	RBH501	RBH502	RBH503	RBH504			
Depth to Top	13.20	14.80	7.20	13.00	16.30	8.20	8.70			
Depth To Bottom										
Date Sampled	18-Nov-24	18-Nov-24	18-Nov-24	18-Nov-24	18-Nov-24	18-Nov-24	18-Nov-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
PAH 16MS (w)										
Acenaphthene (w) _A [#]	0.29	0.40	<0.01	<0.01	<0.01	0.29	0.20	µg/l	0.01	A-T-019w
Acenaphthylene (w) _A [#]	0.03	0.01	<0.01	<0.01	<0.01	0.01	<0.01	µg/l	0.01	A-T-019w
Anthracene (w) _A [#]	0.08	0.16	<0.01	<0.01	<0.01	0.08	0.08	µg/l	0.01	A-T-019w
Benzo(a)anthracene (w) _A [#]	0.03	<0.01	0.01	<0.01	<0.01	0.01	<0.01	µg/l	0.01	A-T-019w
Benzo(a)pyrene (w) _A [#]	0.04	<0.01	0.02	<0.01	<0.01	0.01	<0.01	µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w) _A [#]	0.05	<0.01	0.02	<0.01	<0.01	0.02	<0.01	µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w) _A [#]	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w) _A [#]	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Chrysene (w) _A [#]	0.04	<0.01	0.02	<0.01	<0.01	0.02	<0.01	µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Fluoranthene (w) _A [#]	0.07	0.24	0.03	<0.01	<0.01	0.05	0.06	µg/l	0.01	A-T-019w
Fluorene (w) _A [#]	0.01	0.39	<0.01	<0.01	<0.01	0.03	0.14	µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w) _A [#]	0.03	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Naphthalene (w) _A [#]	0.01	0.02	<0.01	<0.01	<0.01	0.04	0.21	µg/l	0.01	A-T-019w
Phenanthrene (w) _A [#]	0.03	1.48	0.02	<0.01	<0.01	0.03	0.14	µg/l	0.01	A-T-019w
Pyrene (w) _A [#]	0.08	0.19	0.03	<0.01	<0.01	0.04	0.06	µg/l	0.01	A-T-019w
Total PAH 16MS (w) _A [#]	0.84	2.89	0.16	<0.01	<0.01	0.63	0.89	µg/l	0.01	A-T-019w

Envirolab Job Number: 24/11222

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/11222/1	24/11222/2	24/11222/3	24/11222/4	24/11222/5	24/11222/6	24/11222/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH203	RBH305	RBH501	RBH502	RBH503	RBH504			
Depth to Top	13.20	14.80	7.20	13.00	16.30	8.20	8.70			
Depth To Bottom										
Date Sampled	18-Nov-24	18-Nov-24	18-Nov-24	18-Nov-24	18-Nov-24	18-Nov-24	18-Nov-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
SVOC (excluding PAH-16) (w)										
1,2,4-Trichlorobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
1,2-Dichlorobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
1,3-Dichlorobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
1,4-Dichlorobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4,5-Trichlorophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4,6-Trichlorophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4-Dichlorophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4-Dimethylphenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4-Dinitrotoluene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,6-Dinitrotoluene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Chloronaphthalene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Chlorophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Methylnaphthalene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Methylphenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Nitrophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
4-Bromophenyl phenyl ether _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
4-Chloro-3-methylphenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Bis(2-chloroisopropyl)ether _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
3+4-Methylphenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
4-Nitrophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Bis(2-chloroethyl)ether _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Bis(2-chloroethoxy)methane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Bis(2-ethylhexyl)phthalate _A	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-052w
Butylbenzyl phthalate _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Carbazole _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Dibenzofuran _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
n-Dibutylphthalate _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
n-Dioctylphthalate _A	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-052w
n-Nitroso-n-dipropylamine _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Diethyl phthalate _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Dimethyl phthalate _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Hexachlorobutadiene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w

Envirolab Job Number: 24/11222

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/11222/1	24/11222/2	24/11222/3	24/11222/4	24/11222/5	24/11222/6	24/11222/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH203	RBH305	RBH501	RBH502	RBH503	RBH504			
Depth to Top	13.20	14.80	7.20	13.00	16.30	8.20	8.70			
Depth To Bottom										
Date Sampled	18-Nov-24	18-Nov-24	18-Nov-24	18-Nov-24	18-Nov-24	18-Nov-24	18-Nov-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Hexachlorobenzene SVOC _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Pentachlorophenol SVOC _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Phenol _A	<10	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Hexachloroethane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Nitrobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Isophorone _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Perylene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w

Envirolab Job Number: 24/11222

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/11222/1	24/11222/2	24/11222/3	24/11222/4	24/11222/5	24/11222/6	24/11222/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH203	RBH305	RBH501	RBH502	RBH503	RBH504			
Depth to Top	13.20	14.80	7.20	13.00	16.30	8.20	8.70			
Depth To Bottom										
Date Sampled	18-Nov-24	18-Nov-24	18-Nov-24	18-Nov-24	18-Nov-24	18-Nov-24	18-Nov-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
VOC (w)										
Dichlorodifluoromethane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Chloromethane _A	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-006w
Vinyl Chloride _A [#]	29	<1	<1	<1	<1	49	<1	µg/l	1	A-T-006w
Bromomethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Chloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	330	<1	<1	<1	<1	46	2	µg/l	1	A-T-006w
Dichloromethane _A	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	319	<1	<1	15	<1	82	158	µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-006w
Chloroform _A [#]	<1	27	<1	425	118	<1	9	µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1 ^U	<1 ^U	<1 ^U	<1 ^U	<1 ^U	<1 ^U	<1 ^U	µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Benzene _A [#]	300	<1	<1	<1	<1	15	<1	µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	<1	65	<1	364	392	<1	21	µg/l	1	A-T-006w
Dibromomethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-006w
Trichloroethene _A [#]	1	44	<1	1962	11	<1	55	µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	<1	<1	<1	5	1	<1	1	µg/l	1	A-T-006w
Toluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Tetrachloroethene _A	<1	<1	<1	2	<1	<1	<1	µg/l	1	A-T-006w

Envirolab Job Number: 24/11222

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/11222/1	24/11222/2	24/11222/3	24/11222/4	24/11222/5	24/11222/6	24/11222/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH203	RBH305	RBH501	RBH502	RBH503	RBH504			
Depth to Top	13.20	14.80	7.20	13.00	16.30	8.20	8.70			
Depth To Bottom										
Date Sampled	18-Nov-24	18-Nov-24	18-Nov-24	18-Nov-24	18-Nov-24	18-Nov-24	18-Nov-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
1,1,1,2-Tetrachloroethane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Ethylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
m & p Xylene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromoform _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
Styrene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1,2,2-Tetrachloroethane _A	<1	<1	<1	4	<1	<1	<1	µg/l	1	A-T-006w
o-Xylene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w

Envirolab Job Number: 24/11222

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/11222/1	24/11222/2	24/11222/3	24/11222/4	24/11222/5	24/11222/6	24/11222/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH203	RBH305	RBH501	RBH502	RBH503	RBH504			
Depth to Top	13.20	14.80	7.20	13.00	16.30	8.20	8.70			
Depth To Bottom										
Date Sampled	18-Nov-24	18-Nov-24	18-Nov-24	18-Nov-24	18-Nov-24	18-Nov-24	18-Nov-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
TPH UKCWG (w) with Clean Up										
Ali >C5-C6 (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Ali >C6-C8 (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Ali >C8-C10 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C10-C12 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C12-C16 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C16-C21 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C21-C35 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C35-C44 (w) _A	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Total Aliphatics (w) _A	<5	<5	<5	<5	<5	<5	<5	µg/l	5	Calc-As Recd
Aro >C5-C7 (w) _A [#]	239	<1	<1	<1	<1	10	<1	µg/l	1	A-T-022w
Aro >C7-C8 (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Aro >C8-C10 (w) _A	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Aro >C10-C12 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Aro >C12-C16 (w) _A [#]	<5	<5	<5	5	<5	<5	<5	µg/l	5	A-T-055w
Aro >C16-C21 (w) _A [#]	<5	<5	<5	17	<5	<5	<5	µg/l	5	A-T-055w
Aro >C21-C35 (w) _A [#]	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-055w
Aro >C35-C44 (w) _A	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Total Aromatics (w) _A	239	<10	<10	22	<10	10	<10	µg/l	10	Calc-As Recd
TPH (Ali & Aro >C5-C44) (w) _A	239	<10	<10	22	<10	10	<10	µg/l	10	Calc-As Recd
BTEX - Benzene (w) _A [#]	239	<1	<1	<1	<1	10	<1	µg/l	1	A-T-022w
BTEX - Toluene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - m & p Xylene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - o Xylene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
MTBE (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w

Envirolab Job Number: 24/11222/8

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/11222/8							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH505									
Depth to Top	10.90									
Depth To Bottom										
Date Sampled	18-Nov-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
pH (w) [#]	6.65							pH	0.01	A-T-031w
Hardness Total [#]	863							mg/l Ca CO ₃	4	A-T-049w
Sulphate (w) [#]	232							mg/l	1	A-T-026w
Cyanide (total) (w) [#]	0.279							mg/l	0.005	A-T-042wTCN
Phenols - Total by HPLC (w) _A	<0.01							mg/l	0.01	A-T-050w
DOC - Dissolved Organic Carbon (w) _A [#]	12.5							mg/l	2	A-T-032w
Antimony (dissolved) _A	<1							µg/l	1	A-T-025w
Arsenic (dissolved) _A [#]	7							µg/l	1	A-T-025w
Boron (dissolved) _A [#]	223							µg/l	10	A-T-025w
Barium (dissolved) _A [#]	66							µg/l	1	A-T-025w
Beryllium (dissolved) _A [#]	<1							µg/l	1	A-T-025w
Cadmium (dissolved) _A [#]	<0.2							µg/l	0.2	A-T-025w
Copper (dissolved) _A [#]	<4							µg/l	4	A-T-025w
Chromium (dissolved) _A [#]	<1							µg/l	1	A-T-025w
Chromium (hexavalent) (w) _A [#]	<0.01							mg/l	0.01	A-T-040w
Chromium (trivalent) (w)	<0.01							mg/l	0.01	Calc
Lead (dissolved) _A [#]	<1							µg/l	1	A-T-025w
Mercury (dissolved) _A [#]	<0.1							µg/l	0.1	A-T-025w
Molybdenum (dissolved) _A [#]	<0.5							µg/l	0.5	A-T-025w
Nickel (dissolved) _A [#]	3							µg/l	2	A-T-025w
Selenium (dissolved) _A [#]	<1							µg/l	1	A-T-025w
Vanadium (dissolved) _A [#]	<1							µg/l	1	A-T-025w
Zinc (dissolved) _A [#]	20							µg/l	2	A-T-025w

Envirolab Job Number: 24/11222

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/11222/8									
Client Sample No										
Client Sample ID	RBH505									
Depth to Top	10.90									
Depth To Bottom										
Date Sampled	18-Nov-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
PAH 16MS (w)										
Acenaphthene (w) _A [#]	0.18							µg/l	0.01	A-T-019w
Acenaphthylene (w) _A [#]	0.01							µg/l	0.01	A-T-019w
Anthracene (w) _A [#]	0.05							µg/l	0.01	A-T-019w
Benzo(a)anthracene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Benzo(a)pyrene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Chrysene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Fluoranthene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Fluorene (w) _A [#]	0.01							µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Naphthalene (w) _A [#]	0.01							µg/l	0.01	A-T-019w
Phenanthrene (w) _A [#]	0.02							µg/l	0.01	A-T-019w
Pyrene (w) _A [#]	0.04							µg/l	0.01	A-T-019w
Total PAH 16MS (w) _A [#]	0.32							µg/l	0.01	A-T-019w

Envirolab Job Number: 24/11222

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/11222/8									
Client Sample No										
Client Sample ID	RBH505									
Depth to Top	10.90									
Depth To Bottom										
Date Sampled	18-Nov-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
SVOC (excluding PAH-16) (w)										
1,2,4-Trichlorobenzene _A	<1							µg/l	1	A-T-052w
1,2-Dichlorobenzene _A	<1							µg/l	1	A-T-052w
1,3-Dichlorobenzene _A	<1							µg/l	1	A-T-052w
1,4-Dichlorobenzene _A	<1							µg/l	1	A-T-052w
2,4,5-Trichlorophenol _A	<1							µg/l	1	A-T-052w
2,4,6-Trichlorophenol _A	<1							µg/l	1	A-T-052w
2,4-Dichlorophenol _A	<1							µg/l	1	A-T-052w
2,4-Dimethylphenol _A	<1							µg/l	1	A-T-052w
2,4-Dinitrotoluene _A	<1							µg/l	1	A-T-052w
2,6-Dinitrotoluene _A	<1							µg/l	1	A-T-052w
2-Chloronaphthalene _A	<1							µg/l	1	A-T-052w
2-Chlorophenol _A	<1							µg/l	1	A-T-052w
2-Methylnaphthalene _A	<1							µg/l	1	A-T-052w
2-Methylphenol _A	<1							µg/l	1	A-T-052w
2-Nitrophenol _A	<1							µg/l	1	A-T-052w
4-Bromophenyl phenyl ether _A	<1							µg/l	1	A-T-052w
4-Chloro-3-methylphenol _A	<1							µg/l	1	A-T-052w
Bis(2-chloroisopropyl)ether _A	<1							µg/l	1	A-T-052w
3+4-Methylphenol _A	<1							µg/l	1	A-T-052w
4-Nitrophenol _A	<1							µg/l	1	A-T-052w
Bis(2-chloroethyl)ether _A	<1							µg/l	1	A-T-052w
Bis(2-chloroethoxy)methane _A	<1							µg/l	1	A-T-052w
Bis(2-ethylhexyl)phthalate _A	<10							µg/l	10	A-T-052w
Butylbenzyl phthalate _A	<1							µg/l	1	A-T-052w
Carbazole _A	<1							µg/l	1	A-T-052w
Dibenzofuran _A	<1							µg/l	1	A-T-052w
n-Dibutylphthalate _A	<1							µg/l	1	A-T-052w
n-Dioctylphthalate _A	<10							µg/l	10	A-T-052w
n-Nitroso-n-dipropylamine _A	<1							µg/l	1	A-T-052w
Diethyl phthalate _A	<1							µg/l	1	A-T-052w
Dimethyl phthalate _A	<1							µg/l	1	A-T-052w
Hexachlorobutadiene _A	<1							µg/l	1	A-T-052w

Envirolab Job Number: 24/11222/8

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/11222/8							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH505									
Depth to Top	10.90									
Depth To Bottom										
Date Sampled	18-Nov-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
Hexachlorobenzene SVOC _A	<1							µg/l	1	A-T-052w
Pentachlorophenol SVOC _A	<1							µg/l	1	A-T-052w
Phenol _A	<1							µg/l	1	A-T-052w
Hexachloroethane _A	<1							µg/l	1	A-T-052w
Nitrobenzene _A	<1							µg/l	1	A-T-052w
Isophorone _A	<1							µg/l	1	A-T-052w
Perylene _A	<1							µg/l	1	A-T-052w

Envirolab Job Number: 24/11222

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/11222/8									
Client Sample No										
Client Sample ID	RBH505									
Depth to Top	10.90									
Depth To Bottom										
Date Sampled	18-Nov-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
VOC (w)										
Dichlorodifluoromethane _A	<1							µg/l	1	A-T-006w
Chloromethane _A	<10							µg/l	10	A-T-006w
Vinyl Chloride _A [#]	<1							µg/l	1	A-T-006w
Bromomethane _A [#]	<1							µg/l	1	A-T-006w
Chloroethane _A [#]	<1							µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1							µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	<1							µg/l	1	A-T-006w
Dichloromethane _A	<5							µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<1							µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	<1							µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	<1							µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	<1							µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5							µg/l	5	A-T-006w
Chloroform _A [#]	<1							µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1							µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2							µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1 ^U							µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1							µg/l	1	A-T-006w
Benzene _A [#]	<1							µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	<1							µg/l	1	A-T-006w
Dibromomethane _A [#]	<1							µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1							µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10							µg/l	10	A-T-006w
Trichloroethene _A [#]	<1							µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1							µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1							µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	<1							µg/l	1	A-T-006w
Toluene _A [#]	<1							µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1							µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3							µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1							µg/l	1	A-T-006w
Tetrachloroethene _A	<1							µg/l	1	A-T-006w

Envirolab Job Number: 24/11222

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/11222/8									
Client Sample No										
Client Sample ID	RBH505									
Depth to Top	10.90									
Depth To Bottom										
Date Sampled	18-Nov-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
								Units	Limit of Detection	Method ref
1,1,1,2-Tetrachloroethane _A	<1							µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1							µg/l	1	A-T-006w
Ethylbenzene _A [#]	<1							µg/l	1	A-T-006w
m & p Xylene _A [#]	<1							µg/l	1	A-T-006w
Bromoform _A [#]	<3							µg/l	3	A-T-006w
Styrene _A [#]	<1							µg/l	1	A-T-006w
1,1,1,2,2-Tetrachloroethane _A	<1							µg/l	1	A-T-006w
o-Xylene _A [#]	<1							µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1							µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1							µg/l	1	A-T-006w
Bromobenzene _A [#]	<1							µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1							µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1							µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1							µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1							µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1							µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1							µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1							µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1							µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1							µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2							µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1							µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1							µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2							µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3							µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3							µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1							µg/l	1	A-T-006w

Envirolab Job Number: 24/11222

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/11222/8									
Client Sample No										
Client Sample ID	RBH505									
Depth to Top	10.90									
Depth To Bottom										
Date Sampled	18-Nov-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
TPH UKCWG (w) with Clean Up										
Ali >C5-C6 (w) _A [#]	<1							µg/l	1	A-T-022w
Ali >C6-C8 (w) _A [#]	<1							µg/l	1	A-T-022w
Ali >C8-C10 (w) _A [#]	<5							µg/l	5	A-T-055w
Ali >C10-C12 (w) _A [#]	<5							µg/l	5	A-T-055w
Ali >C12-C16 (w) _A [#]	<5							µg/l	5	A-T-055w
Ali >C16-C21 (w) _A [#]	<5							µg/l	5	A-T-055w
Ali >C21-C35 (w) _A [#]	<5							µg/l	5	A-T-055w
Ali >C35-C44 (w) _A	<5							µg/l	5	A-T-055w
Total Aliphatics (w) _A	<5							µg/l	5	Calc-As Recd
Aro >C5-C7 (w) _A [#]	<1							µg/l	1	A-T-022w
Aro >C7-C8 (w) _A [#]	<1							µg/l	1	A-T-022w
Aro >C8-C10 (w) _A	<5							µg/l	5	A-T-055w
Aro >C10-C12 (w) _A [#]	<5							µg/l	5	A-T-055w
Aro >C12-C16 (w) _A [#]	<5							µg/l	5	A-T-055w
Aro >C16-C21 (w) _A [#]	<5							µg/l	5	A-T-055w
Aro >C21-C35 (w) _A [#]	<10							µg/l	10	A-T-055w
Aro >C35-C44 (w) _A	<5							µg/l	5	A-T-055w
Total Aromatics (w) _A	<10							µg/l	10	Calc-As Recd
TPH (Ali & Aro >C5-C44) (w) _A	<10							µg/l	10	Calc-As Recd
BTEX - Benzene (w) _A [#]	<1							µg/l	1	A-T-022w
BTEX - Toluene (w) _A [#]	<1							µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w) _A [#]	<1							µg/l	1	A-T-022w
BTEX - m & p Xylene (w) _A [#]	<1							µg/l	1	A-T-022w
BTEX - o Xylene (w) _A [#]	<1							µg/l	1	A-T-022w
MTBE (w) _A [#]	<1							µg/l	1	A-T-022w

Report Notes

General

- This report shall not be reproduced, except in full, without written approval from Envirolab.
- The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
- The results reported herein relate only to the material supplied to the laboratory.
- The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
- Analytical results reflect the quality of the sample at the time of analysis only.
- Opinions and Interpretations expressed are outside our scope of accreditation.
- A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
- If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
- Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript “#”	Accredited to ISO 17025
Superscript “M”	Accredited to MCertS
Superscript “U”	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript “A”	Analysis performed on as-received Sample
Subscript “D”	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript “D” on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript “A”	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis

“Trace Asbestos Identified” will be reported if there is not enough present to verify the type.

Quantification: Generally a 2 stage process including visual identification, hand picking and weighing, and fibre counting. Where ACMs are found a percentage asbestos is assigned to each with reference to ‘HSG264, Asbestos: The survey guide’ and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres). “TRACE” will be reported as a quantification result.

PLEASE INFORM THE LABORATORY IF YOU WOULD LIKE THE STAGE 3 SEDIMENTATION PROCESS CARRIED OUT. Note this will be subcontracted.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs

Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.

Soil Chemical Analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as ‘% stones >10mm’.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any “D” subscripts.

TPH by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only. Results “with Clean up” indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.

Where these humic substances have been identified in any IDs from “TPH CWG with clean up” please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: ROCP LIMITED, Commercial Wharf 6 Commercial Street, Castlefield,
Manchester, M15 4PZ

Project: Dantzic Street

Clients Project No: 4328

Project No: 24/11222

Date Received: 19/11/2024 (am)

Cool Box Temperatures (°C): 9.5 & 10.4

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	24/11222/1	24/11222/2	24/11222/3	24/11222/4	24/11222/5	24/11222/6	24/11222/7	24/11222/8
Client Sample No								
Client Sample ID/Depth	LKBH01 13.20m	RBH203 14.80m	RBH305 7.20m	RBH501 13.00m	RBH502 16.30m	RBH503 8.20m	RBH504 8.70m	RBH505 10.90m
Date Sampled	18/11/24	18/11/24	18/11/24	18/11/24	18/11/24	18/11/24	18/11/24	18/11/24
A-T-006w	21/11/2024	21/11/2024	21/11/2024	21/11/2024	25/11/2024	21/11/2024	21/11/2024	21/11/2024
A-T-019w	21/11/2024	21/11/2024	21/11/2024	21/11/2024	21/11/2024	21/11/2024	21/11/2024	21/11/2024
A-T-022w	21/11/2024	21/11/2024	21/11/2024	21/11/2024	21/11/2024	21/11/2024	21/11/2024	21/11/2024
A-T-025w	26/11/2024	26/11/2024	28/11/2024	26/11/2024	26/11/2024	26/11/2024	26/11/2024	26/11/2024
A-T-026w	19/11/2024	19/11/2024	19/11/2024	19/11/2024	19/11/2024	19/11/2024	19/11/2024	19/11/2024
A-T-031w	20/11/2024	20/11/2024	20/11/2024	20/11/2024	20/11/2024	20/11/2024	20/11/2024	20/11/2024
A-T-032w	20/11/2024	20/11/2024	20/11/2024	20/11/2024	20/11/2024	20/11/2024	20/11/2024	20/11/2024
A-T-040w	19/11/2024	19/11/2024	19/11/2024	19/11/2024	19/11/2024	19/11/2024	19/11/2024	19/11/2024
A-T-042wTCN	20/11/2024	20/11/2024	20/11/2024	20/11/2024	20/11/2024	20/11/2024	20/11/2024	20/11/2024
A-T-049w	21/11/2024	21/11/2024	21/11/2024	21/11/2024	21/11/2024	21/11/2024	21/11/2024	21/11/2024
A-T-050w	22/11/2024	21/11/2024	21/11/2024	21/11/2024	21/11/2024	22/11/2024	20/11/2024	21/11/2024
A-T-052w	25/11/2024	21/11/2024	21/11/2024	21/11/2024	21/11/2024	21/11/2024	21/11/2024	21/11/2024
A-T-055w	21/11/2024	21/11/2024	21/11/2024	21/11/2024	21/11/2024	21/11/2024	21/11/2024	21/11/2024
Calc	26/11/2024	26/11/2024	26/11/2024	26/11/2024	26/11/2024	26/11/2024	26/11/2024	26/11/2024
Calc-As Recd	21/11/2024	21/11/2024	21/11/2024	21/11/2024	21/11/2024	21/11/2024	21/11/2024	21/11/2024

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 24/12118
Issue Number: 1

Date: 19 December, 2024

Client: ROCP LIMITED
Commercial Wharf 6 Commercial Street
Castlefield
Manchester
M15 4PZ

Project Manager: Reece McGuinness
Project Name: Dantzic Street
Project Ref: 4328
Order No: PBJ20437
Date Samples Received: 12/12/24
Date Instructions Received: 13/12/24
Date Analysis Completed: 19/12/24

Approved by:



Gemma Berrisford
Deputy Client Services Supervisor

Envirolab Job Number: 24/12118

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/12118/1	24/12118/2	24/12118/3	24/12118/4	24/12118/5	24/12118/6	24/12118/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH501	RBH502	RBH503	RBH504	RBH505	RBH203			
Depth to Top	13.50	10.00	14.00	8.00	8.50	11.00	4.50			
Depth To Bottom										
Date Sampled	11-Dec-24	11-Dec-24	11-Dec-24	12-Dec-24	12-Dec-24	11-Dec-24	11-Dec-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
pH (w) _A [#]	6.75	6.88	6.93	6.70	6.67	7.22	6.80	pH	0.01	A-T-031w
Hardness Total _A [#]	210	373	568	513	640	321	316	mg/l Ca CO ₃	4	A-T-049w
Sulphate (w) _A [#]	213	77	436	236	250	236	69	mg/l	1	A-T-026w
Cyanide (total) (w) _A [#]	<0.005	<0.005	0.023	0.042	<0.005	0.011	<0.005	mg/l	0.005	A-T-042wTCN
Phenols - Total by HPLC (w) _A	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/l	0.01	A-T-050w
DOC - Dissolved Organic Carbon (w) _A [#]	3.0	<2.0	5.8	5.1	7.7	4.5	<2.0	mg/l	2	A-T-032w
Antimony (dissolved) _A	9	<1	<1	<1	<1	5	<1	µg/l	1	A-T-025w
Arsenic (dissolved) _A [#]	<1	<1	<1	3	<1	<1	<1	µg/l	1	A-T-025w
Boron (dissolved) _A [#]	191	217	259	705	279	157	236	µg/l	10	A-T-025w
Barium (dissolved) _A [#]	52	71	75	102	84	68	64	µg/l	1	A-T-025w
Beryllium (dissolved) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-025w
Cadmium (dissolved) _A [#]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	µg/l	0.2	A-T-025w
Copper (dissolved) _A [#]	<4	<4	<4	<4	<4	<4	<4	µg/l	4	A-T-025w
Chromium (dissolved) _A [#]	8	<1	1	<1	8	1	<1	µg/l	1	A-T-025w
Chromium (hexavalent) (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/l	0.01	A-T-040w
Chromium (trivalent) (w)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/l	0.01	Calc
Lead (dissolved) _A [#]	<1	<1	<1	1	7	<1	<1	µg/l	1	A-T-025w
Mercury (dissolved) _A [#]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	µg/l	0.1	A-T-025w
Molybdenum (dissolved) _A [#]	1.7	<0.5	0.8	<0.5	0.6	6.8	<0.5	µg/l	0.5	A-T-025w
Nickel (dissolved) _A [#]	7	11	<2	6	8	69	3	µg/l	2	A-T-025w
Selenium (dissolved) _A [#]	<1	3	2	<1	2	3	3	µg/l	1	A-T-025w
Vanadium (dissolved) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-025w
Zinc (dissolved) _A [#]	49	13	98	27	15	9	10	µg/l	2	A-T-025w

Envirolab Job Number: 24/12118

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/12118/1	24/12118/2	24/12118/3	24/12118/4	24/12118/5	24/12118/6	24/12118/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH501	RBH502	RBH503	RBH504	RBH505	RBH203			
Depth to Top	13.50	10.00	14.00	8.00	8.50	11.00	4.50			
Depth To Bottom										
Date Sampled	11-Dec-24	11-Dec-24	11-Dec-24	12-Dec-24	12-Dec-24	11-Dec-24	11-Dec-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
PAH 16MS (w)										
Acenaphthene (w) _A [#]	<0.01	<0.01	<0.01	0.22	0.20	<0.01	0.24	µg/l	0.01	A-T-019w
Acenaphthylene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Anthracene (w) _A [#]	<0.01	<0.01	<0.01	0.02	0.06	<0.01	0.03	µg/l	0.01	A-T-019w
Benzo(a)anthracene (w) _A [#]	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Benzo(a)pyrene (w) _A [#]	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w) _A [#]	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Chrysene (w) _A [#]	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Fluoranthene (w) _A [#]	0.02	<0.01	<0.01	0.02	0.02	<0.01	0.07	µg/l	0.01	A-T-019w
Fluorene (w) _A [#]	<0.01	<0.01	<0.01	0.02	0.13	<0.01	0.15	µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Naphthalene (w) _A [#]	<0.01	<0.01	<0.01	0.06	0.26	<0.01	<0.01	µg/l	0.01	A-T-019w
Phenanthrene (w) _A [#]	0.01	<0.01	<0.01	0.03	0.14	<0.01	0.17	µg/l	0.01	A-T-019w
Pyrene (w) _A [#]	0.02	<0.01	<0.01	0.02	0.02	<0.01	0.07	µg/l	0.01	A-T-019w
Total PAH 16MS (w) _A [#]	0.11	<0.01	<0.01	0.39	0.83	<0.01	0.73	µg/l	0.01	A-T-019w

Envirolab Job Number: 24/12118

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/12118/1	24/12118/2	24/12118/3	24/12118/4	24/12118/5	24/12118/6	24/12118/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH501	RBH502	RBH503	RBH504	RBH505	RBH203			
Depth to Top	13.50	10.00	14.00	8.00	8.50	11.00	4.50			
Depth To Bottom										
Date Sampled	11-Dec-24	11-Dec-24	11-Dec-24	12-Dec-24	12-Dec-24	11-Dec-24	11-Dec-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
SVOC (excluding PAH-16) (w)										
1,2,4-Trichlorobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
1,2-Dichlorobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
1,3-Dichlorobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
1,4-Dichlorobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4,5-Trichlorophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4,6-Trichlorophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4-Dichlorophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4-Dimethylphenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,4-Dinitrotoluene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2,6-Dinitrotoluene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Chloronaphthalene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Chlorophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Methylnaphthalene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Methylphenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
2-Nitrophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
4-Bromophenyl phenyl ether _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
4-Chloro-3-methylphenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Bis(2-chloroisopropyl)ether _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
3+4-Methylphenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
4-Nitrophenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Bis(2-chloroethyl)ether _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Bis(2-chloroethoxy)methane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Bis(2-ethylhexyl)phthalate _A	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-052w
Butylbenzyl phthalate _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Carbazole _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Dibenzofuran _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
n-Dibutylphthalate _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
n-Dioctylphthalate _A	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-052w
n-Nitroso-n-dipropylamine _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Diethyl phthalate _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Dimethyl phthalate _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Hexachlorobutadiene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w

Envirolab Job Number: 24/12118

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Client Project Ref: 4328

Lab Sample ID	24/12118/1	24/12118/2	24/12118/3	24/12118/4	24/12118/5	24/12118/6	24/12118/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH501	RBH502	RBH503	RBH504	RBH505	RBH203			
Depth to Top	13.50	10.00	14.00	8.00	8.50	11.00	4.50			
Depth To Bottom										
Date Sampled	11-Dec-24	11-Dec-24	11-Dec-24	12-Dec-24	12-Dec-24	11-Dec-24	11-Dec-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Hexachlorobenzene SVOC _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Pentachlorophenol SVOC _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Phenol _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Hexachloroethane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Nitrobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Isophorone _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w
Perylene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-052w

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Client Sample No										
Client Sample ID	LKBH01	RBH501	RBH502	RBH503	RBH504	RBH505	RBH203			
Depth to Top	13.50	10.00	14.00	8.00	8.50	11.00	4.50			
Depth To Bottom										
Date Sampled	11-Dec-24	11-Dec-24	11-Dec-24	12-Dec-24	12-Dec-24	11-Dec-24	11-Dec-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
VOC (w)										
Dichlorodifluoromethane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Chloromethane _A	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-006w
Vinyl Chloride _A [#]	<1	<1	<1	4	<1	<1	<1	µg/l	1	A-T-006w
Bromomethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Chloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	6	<1	<1	47	2	<1	<1	µg/l	1	A-T-006w
Dichloromethane _A	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	4	2	<1	50	170	<1	<1	µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-006w
Chloroform _A [#]	3	48	70	4	10	<1	20	µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Benzene _A [#]	4	<1	<1	3	<1	<1	<1	µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	5	91	215	2	19	<1	42	µg/l	1	A-T-006w
Dibromomethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-006w
Trichloroethene _A [#]	1	252	16	8	40	<1	59	µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Toluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Tetrachloroethene _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w

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Lab Sample ID	24/12118/1	24/12118/2	24/12118/3	24/12118/4	24/12118/5	24/12118/6	24/12118/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH501	RBH502	RBH503	RBH504	RBH505	RBH203			
Depth to Top	13.50	10.00	14.00	8.00	8.50	11.00	4.50			
Depth To Bottom										
Date Sampled	11-Dec-24	11-Dec-24	11-Dec-24	12-Dec-24	12-Dec-24	11-Dec-24	11-Dec-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
1,1,1,2-Tetrachloroethane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Ethylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
m & p Xylene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromoform _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
Styrene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,1,2,2-Tetrachloroethane _A	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
o-Xylene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
Bromobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-006w

Envirolab Job Number: 24/12118

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/12118/1	24/12118/2	24/12118/3	24/12118/4	24/12118/5	24/12118/6	24/12118/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LKBH01	RBH501	RBH502	RBH503	RBH504	RBH505	RBH203			
Depth to Top	13.50	10.00	14.00	8.00	8.50	11.00	4.50			
Depth To Bottom										
Date Sampled	11-Dec-24	11-Dec-24	11-Dec-24	12-Dec-24	12-Dec-24	11-Dec-24	11-Dec-24			
Sample Type	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW	WATER - GW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
TPH UKCWG (w) with Clean Up										
Ali >C5-C6 (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Ali >C6-C8 (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Ali >C8-C10 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C10-C12 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C12-C16 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C16-C21 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C21-C35 (w) _A [#]	<5	<5	<5	12	<5	<5	<5	µg/l	5	A-T-055w
Ali >C35-C44 (w) _A	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Total Aliphatics (w) _A	<5	<5	<5	12	<5	<5	<5	µg/l	5	Calc-As Recd
Aro >C5-C7 (w) _A [#]	4	<1	<1	3	<1	<1	<1	µg/l	1	A-T-022w
Aro >C7-C8 (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Aro >C8-C10 (w) _A	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Aro >C10-C12 (w) _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Aro >C12-C16 (w) _A [#]	<5	6	7	9	8	<5	6	µg/l	5	A-T-055w
Aro >C16-C21 (w) _A [#]	8	14	13	15	16	6	8	µg/l	5	A-T-055w
Aro >C21-C35 (w) _A [#]	<10	<10	<10	<10	<10	<10	<10	µg/l	10	A-T-055w
Aro >C35-C44 (w) _A	<5	<5	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Total Aromatics (w) _A	12	20	20	27	24	<10	14	µg/l	10	Calc-As Recd
TPH (Ali & Aro >C5-C44) (w) _A	12	20	20	39	24	<10	14	µg/l	10	Calc-As Recd
BTEX - Benzene (w) _A [#]	4	<1	<1	3	<1	<1	<1	µg/l	1	A-T-022w
BTEX - Toluene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - m & p Xylene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - o Xylene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
MTBE (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w

Envirolab Job Number: 24/12118/8

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/12118/8							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH305									
Depth to Top	7.00									
Depth To Bottom										
Date Sampled	12-Dec-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
pH (w) [#]	7.23							pH	0.01	A-T-031w
Hardness Total [#]	395							mg/l Ca CO3	4	A-T-049w
Sulphate (w) [#]	486							mg/l	1	A-T-026w
Cyanide (total) (w) [#]	<0.005							mg/l	0.005	A-T-042wTCN
Phenols - Total by HPLC (w) _A	<0.01							mg/l	0.01	A-T-050w
DOC - Dissolved Organic Carbon (w) _A [#]	7.9							mg/l	2	A-T-032w
Antimony (dissolved) _A	3							µg/l	1	A-T-025w
Arsenic (dissolved) _A [#]	2							µg/l	1	A-T-025w
Boron (dissolved) _A [#]	398							µg/l	10	A-T-025w
Barium (dissolved) _A [#]	65							µg/l	1	A-T-025w
Beryllium (dissolved) _A [#]	<1							µg/l	1	A-T-025w
Cadmium (dissolved) _A [#]	<0.2							µg/l	0.2	A-T-025w
Copper (dissolved) _A [#]	7							µg/l	4	A-T-025w
Chromium (dissolved) _A [#]	1							µg/l	1	A-T-025w
Chromium (hexavalent) (w) _A [#]	<0.01							mg/l	0.01	A-T-040w
Chromium (trivalent) (w)	<0.01							mg/l	0.01	Calc
Lead (dissolved) _A [#]	<1							µg/l	1	A-T-025w
Mercury (dissolved) _A [#]	<0.1							µg/l	0.1	A-T-025w
Molybdenum (dissolved) _A [#]	17.9							µg/l	0.5	A-T-025w
Nickel (dissolved) _A [#]	7							µg/l	2	A-T-025w
Selenium (dissolved) _A [#]	1							µg/l	1	A-T-025w
Vanadium (dissolved) _A [#]	1							µg/l	1	A-T-025w
Zinc (dissolved) _A [#]	13							µg/l	2	A-T-025w

Envirolab Job Number: 24/12118

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/12118/8							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH305									
Depth to Top	7.00									
Depth To Bottom										
Date Sampled	12-Dec-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
PAH 16MS (w)										
Acenaphthene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Acenaphthylene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Anthracene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Benzo(a)anthracene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Benzo(a)pyrene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Chrysene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Fluoranthene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Fluorene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Naphthalene (w) _A [#]	<0.02							µg/l	0.01	A-T-019w
Phenanthrene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Pyrene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Total PAH 16MS (w) _A [#]	<0.02							µg/l	0.01	A-T-019w

Envirolab Job Number: 24/12118

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/12118/8									
Client Sample No										
Client Sample ID	RBH305									
Depth to Top	7.00									
Depth To Bottom										
Date Sampled	12-Dec-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
SVOC (excluding PAH-16) (w)										
1,2,4-Trichlorobenzene _A	<1							µg/l	1	A-T-052w
1,2-Dichlorobenzene _A	<1							µg/l	1	A-T-052w
1,3-Dichlorobenzene _A	<1							µg/l	1	A-T-052w
1,4-Dichlorobenzene _A	<1							µg/l	1	A-T-052w
2,4,5-Trichlorophenol _A	<1							µg/l	1	A-T-052w
2,4,6-Trichlorophenol _A	<1							µg/l	1	A-T-052w
2,4-Dichlorophenol _A	<1							µg/l	1	A-T-052w
2,4-Dimethylphenol _A	<1							µg/l	1	A-T-052w
2,4-Dinitrotoluene _A	<1							µg/l	1	A-T-052w
2,6-Dinitrotoluene _A	<1							µg/l	1	A-T-052w
2-Chloronaphthalene _A	<1							µg/l	1	A-T-052w
2-Chlorophenol _A	<1							µg/l	1	A-T-052w
2-Methylnaphthalene _A	<1							µg/l	1	A-T-052w
2-Methylphenol _A	<1							µg/l	1	A-T-052w
2-Nitrophenol _A	<1							µg/l	1	A-T-052w
4-Bromophenyl phenyl ether _A	<1							µg/l	1	A-T-052w
4-Chloro-3-methylphenol _A	<1							µg/l	1	A-T-052w
Bis(2-chloroisopropyl)ether _A	<1							µg/l	1	A-T-052w
3+4-Methylphenol _A	<1							µg/l	1	A-T-052w
4-Nitrophenol _A	<1							µg/l	1	A-T-052w
Bis(2-chloroethyl)ether _A	<1							µg/l	1	A-T-052w
Bis(2-chloroethoxy)methane _A	<1							µg/l	1	A-T-052w
Bis(2-ethylhexyl)phthalate _A	<10							µg/l	10	A-T-052w
Butylbenzyl phthalate _A	<1							µg/l	1	A-T-052w
Carbazole _A	<1							µg/l	1	A-T-052w
Dibenzofuran _A	<1							µg/l	1	A-T-052w
n-Dibutylphthalate _A	<1							µg/l	1	A-T-052w
n-Dioctylphthalate _A	<10							µg/l	10	A-T-052w
n-Nitroso-n-dipropylamine _A	<1							µg/l	1	A-T-052w
Diethyl phthalate _A	<1							µg/l	1	A-T-052w
Dimethyl phthalate _A	<1							µg/l	1	A-T-052w
Hexachlorobutadiene _A	<1							µg/l	1	A-T-052w

Envirolab Job Number: 24/12118/8

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/12118/8							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH305									
Depth to Top	7.00									
Depth To Bottom										
Date Sampled	12-Dec-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
Hexachlorobenzene SVOC _A	<1							µg/l	1	A-T-052w
Pentachlorophenol SVOC _A	<1							µg/l	1	A-T-052w
Phenol _A	<1							µg/l	1	A-T-052w
Hexachloroethane _A	<1							µg/l	1	A-T-052w
Nitrobenzene _A	<1							µg/l	1	A-T-052w
Isophorone _A	<1							µg/l	1	A-T-052w
Perylene _A	<1							µg/l	1	A-T-052w

Envirolab Job Number: 24/12118

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/12118/8									
Client Sample No										
Client Sample ID	RBH305									
Depth to Top	7.00									
Depth To Bottom										
Date Sampled	12-Dec-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
VOC (w)										
Dichlorodifluoromethane _A	<1							µg/l	1	A-T-006w
Chloromethane _A	<10							µg/l	10	A-T-006w
Vinyl Chloride _A [#]	<1							µg/l	1	A-T-006w
Bromomethane _A [#]	<1							µg/l	1	A-T-006w
Chloroethane _A [#]	<1							µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1							µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	<1							µg/l	1	A-T-006w
Dichloromethane _A	<5							µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<1							µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	<1							µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	<1							µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	<1							µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5							µg/l	5	A-T-006w
Chloroform _A [#]	<1							µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1							µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2							µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1							µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1							µg/l	1	A-T-006w
Benzene _A [#]	<1							µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	<1							µg/l	1	A-T-006w
Dibromomethane _A [#]	<1							µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1							µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10							µg/l	10	A-T-006w
Trichloroethene _A [#]	<1							µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1							µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1							µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	<1							µg/l	1	A-T-006w
Toluene _A [#]	<1							µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1							µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3							µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1							µg/l	1	A-T-006w
Tetrachloroethene _A	<1							µg/l	1	A-T-006w

Envirolab Job Number: 24/12118

Client Project Name: Dantzic Street

Client Project Ref: 4328

Lab Sample ID	24/12118/8									
Client Sample No										
Client Sample ID	RBH305									
Depth to Top	7.00									
Depth To Bottom										
Date Sampled	12-Dec-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
								Units	Limit of Detection	Method ref
1,1,1,2-Tetrachloroethane _A	<1							µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1							µg/l	1	A-T-006w
Ethylbenzene _A [#]	<1							µg/l	1	A-T-006w
m & p Xylene _A [#]	<1							µg/l	1	A-T-006w
Bromoform _A [#]	<3							µg/l	3	A-T-006w
Styrene _A [#]	<1							µg/l	1	A-T-006w
1,1,1,2,2-Tetrachloroethane _A	<1							µg/l	1	A-T-006w
o-Xylene _A [#]	<1							µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1							µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1							µg/l	1	A-T-006w
Bromobenzene _A [#]	<1							µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1							µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1							µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1							µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1							µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1							µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1							µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1							µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1							µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1							µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2							µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1							µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1							µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2							µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3							µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3							µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1							µg/l	1	A-T-006w

Envirolab Job Number: 24/12118

Client Project Name: Dantzie Street

Client Project Ref: 4328

Lab Sample ID	24/12118/8									
Client Sample No										
Client Sample ID	RBH305									
Depth to Top	7.00									
Depth To Bottom										
Date Sampled	12-Dec-24									
Sample Type	WATER - GW									
Sample Matrix Code	N/A									
TPH UKCWG (w) with Clean Up										
Ali >C5-C6 (w) _A [#]	<1							µg/l	1	A-T-022w
Ali >C6-C8 (w) _A [#]	<1							µg/l	1	A-T-022w
Ali >C8-C10 (w) _A [#]	<5							µg/l	5	A-T-055w
Ali >C10-C12 (w) _A [#]	<5							µg/l	5	A-T-055w
Ali >C12-C16 (w) _A [#]	<5							µg/l	5	A-T-055w
Ali >C16-C21 (w) _A [#]	<5							µg/l	5	A-T-055w
Ali >C21-C35 (w) _A [#]	<5							µg/l	5	A-T-055w
Ali >C35-C44 (w) _A	<5							µg/l	5	A-T-055w
Total Aliphatics (w) _A	<5							µg/l	5	Calc-As Recd
Aro >C5-C7 (w) _A [#]	<1							µg/l	1	A-T-022w
Aro >C7-C8 (w) _A [#]	<1							µg/l	1	A-T-022w
Aro >C8-C10 (w) _A	<5							µg/l	5	A-T-055w
Aro >C10-C12 (w) _A [#]	<5							µg/l	5	A-T-055w
Aro >C12-C16 (w) _A [#]	<5							µg/l	5	A-T-055w
Aro >C16-C21 (w) _A [#]	<5							µg/l	5	A-T-055w
Aro >C21-C35 (w) _A [#]	<10							µg/l	10	A-T-055w
Aro >C35-C44 (w) _A	<5							µg/l	5	A-T-055w
Total Aromatics (w) _A	<10							µg/l	10	Calc-As Recd
TPH (Ali & Aro >C5-C44) (w) _A	<10							µg/l	10	Calc-As Recd
BTEX - Benzene (w) _A [#]	<1							µg/l	1	A-T-022w
BTEX - Toluene (w) _A [#]	<1							µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w) _A [#]	<1							µg/l	1	A-T-022w
BTEX - m & p Xylene (w) _A [#]	<1							µg/l	1	A-T-022w
BTEX - o Xylene (w) _A [#]	<1							µg/l	1	A-T-022w
MTBE (w) _A [#]	<1							µg/l	1	A-T-022w

Report Notes

General

- This report shall not be reproduced, except in full, without written approval from Envirolab.
- The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
- The results reported herein relate only to the material supplied to the laboratory.
- The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
- Analytical results reflect the quality of the sample at the time of analysis only.
- Opinions and Interpretations expressed are outside our scope of accreditation.
- A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
- If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
- Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript “#”	Accredited to ISO 17025
Superscript “M”	Accredited to MCertS
Superscript “U”	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript “A”	Analysis performed on as-received Sample
Subscript “D”	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript “D” on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript “A”	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis

“Trace Asbestos Identified” will be reported if there is not enough present to verify the type.

Quantification: Generally a 2 stage process including visual identification, hand picking and weighing, and fibre counting. Where ACMs are found a percentage asbestos is assigned to each with reference to ‘HSG264, Asbestos: The survey guide’ and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres). “TRACE” will be reported as a quantification result.

PLEASE INFORM THE LABORATORY IF YOU WOULD LIKE THE STAGE 3 SEDIMENTATION PROCESS CARRIED OUT. Note this will be subcontracted.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs

Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.

Soil Chemical Analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as ‘% stones >10mm’.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any “D” subscripts.

TPH by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only. Results “with Clean up” indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.

Where these humic substances have been identified in any IDs from “TPH CWG with clean up” please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: ROCP LIMITED, Commercial Wharf 6 Commercial Street, Castlefield,
Manchester, M15 4PZ

Project: Dantzic Street

Clients Project No: 4328

Project No: 24/12118

Date Received: 13/12/2024 (am)

Cool Box Temperatures (°C): 11.0 - 11.5

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	24/12118/1	24/12118/2	24/12118/3	24/12118/4	24/12118/5	24/12118/6	24/12118/7	24/12118/8
Client Sample No								
Client Sample ID/Depth	LKBH01 13.50m	RBH501 10.00m	RBH502 14.00m	RBH503 8.00m	RBH504 8.50m	RBH505 11.00m	RBH203 4.50m	RBH305 7.00m
Date Sampled	11/12/24	11/12/24	11/12/24	12/12/24	12/12/24	11/12/24	11/12/24	12/12/24
A-T-006w	17/12/2024	17/12/2024	17/12/2024	17/12/2024	17/12/2024	17/12/2024	17/12/2024	17/12/2024
A-T-019w	19/12/2024	19/12/2024	19/12/2024	19/12/2024	19/12/2024	19/12/2024	19/12/2024	19/12/2024
A-T-022w	17/12/2024	17/12/2024	17/12/2024	17/12/2024	17/12/2024	17/12/2024	17/12/2024	17/12/2024
A-T-025w	18/12/2024	18/12/2024	19/12/2024	19/12/2024	19/12/2024	19/12/2024	19/12/2024	19/12/2024
A-T-026w	16/12/2024	18/12/2024	16/12/2024	16/12/2024	16/12/2024	16/12/2024	18/12/2024	16/12/2024
A-T-031w	16/12/2024	16/12/2024	16/12/2024	16/12/2024	16/12/2024	16/12/2024	16/12/2024	16/12/2024
A-T-032w	18/12/2024	18/12/2024	18/12/2024	18/12/2024	18/12/2024	18/12/2024	18/12/2024	18/12/2024
A-T-040w	16/12/2024	16/12/2024	16/12/2024	16/12/2024	16/12/2024	16/12/2024	16/12/2024	16/12/2024
A-T-042wTCN	17/12/2024	17/12/2024	17/12/2024	17/12/2024	17/12/2024	17/12/2024	17/12/2024	17/12/2024
A-T-049w	18/12/2024	18/12/2024	18/12/2024	18/12/2024	18/12/2024	18/12/2024	18/12/2024	18/12/2024
A-T-050w	18/12/2024	18/12/2024	18/12/2024	18/12/2024	18/12/2024	18/12/2024	18/12/2024	18/12/2024
A-T-052w	18/12/2024	18/12/2024	18/12/2024	18/12/2024	18/12/2024	18/12/2024	18/12/2024	18/12/2024
A-T-055w	18/12/2024	18/12/2024	18/12/2024	18/12/2024	18/12/2024	18/12/2024	18/12/2024	18/12/2024
Calc	18/12/2024	18/12/2024	18/12/2024	18/12/2024	18/12/2024	18/12/2024	18/12/2024	18/12/2024
Calc-As Recd	18/12/2024	18/12/2024	18/12/2024	18/12/2024	18/12/2024	18/12/2024	18/12/2024	18/12/2024

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report



COMPLEX CHALLENGES ...
MADE SIMPLE

APPENDIX C - GROUNDWATER MONITORING DATA

BH I.D.	Easting	Northing	Ground Level (mAOD)	Drilled Depth (mbgl)	Drilled Depth (mOD)	Response zone from (mbgl)	Response zone to (mbgl)	Response zone from (mOD)	Response zone to (mOD)	Lithology at response zone	Date	Time	Height of measuring point (magl / mbgl)	Height of measuring point (mOD)	DTW from measuring point (mbgl)	DTW from ground level (mbgl)	Hydraulic Head (mOD)
LK BH01	384593.48	399443.85	31.41	15.00	16.41	5.00	15.00	26.41	16.41	CF & MM	12/12/2024	-	-0.09	31.32	4.37	4.46	26.95
RBH203	384618.25	399396.81	33.56	19.50	14.06	10.00	15.00	23.56	18.56	CF	12/12/2024	-	-0.14	33.42	6.36	6.5	27.06
RBH305	384634.50	399466.27	32.05	20.00	12.05	5.00	9.00	27.05	23.05	CF	12/12/2024	-	-0.01	32.04	5.37	5.38	26.67
RBH501	384631.84	399390.90	33.64	16.00	17.64	4.50	15.00	29.14	18.64	CF	12/12/2024	-	-0.14	33.50	6.28	6.42	27.22
RBH502 P1	384604.49	399389.90	33.49	20.30	13.19	5.50	18.30	27.99	15.19	CF	12/12/2024	-	-0.06	33.43	6.27	6.33	27.16
RBH503	384616.00	399448.08	31.65	12.50	19.15	5.00	10.00	26.65	21.65	CF	12/12/2024	-	-0.09	31.56	4.80	4.89	26.76
RBH504	384644.99	399416.28	34.17	14.50	19.67	4.50	11.95	29.67	22.22	CF	12/12/2024	-	-1.80	32.37	5.04	6.84	27.33
RBH505	384585.91	399449.79	31.32	14.50	16.82	4.50	11.80	26.82	19.52	CF	12/12/2024	-	-0.10	31.22	4.34	4.44	26.88
LK BH01	384593.48	399443.85	31.41	15.00	16.41	5.00	15.00	26.41	16.41	CF & MM	18/11/2024	-	-0.09	31.32	4.52	4.61	26.80
RBH203	384618.25	399396.81	33.56	19.50	14.06	10.00	15.00	23.56	18.56	CF	18/11/2024	-	-0.14	33.42	6.53	6.67	26.89
RBH305	384634.50	399466.27	32.05	20.00	12.05	5.00	9.00	27.05	23.05	CF	18/11/2024	-	-0.01	32.04	5.45	5.46	26.59
RBH501	384631.84	399390.90	33.64	16.00	17.64	4.50	15.00	29.14	18.64	CF	18/11/2024	-	-0.14	33.50	6.43	6.57	27.07
RBH502 P1	384604.49	399389.90	33.49	20.30	13.19	5.50	18.30	27.99	15.19	CF	18/11/2024	-	-0.06	33.43	6.47	6.53	26.96
RBH503	384616.00	399448.08	31.65	12.50	19.15	5.00	10.00	26.65	21.65	CF	18/11/2024	-	-0.09	31.56	4.84	4.93	26.72
RBH504	384644.99	399416.28	34.17	14.50	19.67	4.50	11.95	29.67	22.22	CF	18/11/2024	-	-1.80	32.37	5.15	6.95	27.22
RBH505	384585.91	399449.79	31.41	14.50	16.82	4.50	11.80	26.82	19.52	CF	18/12/2024	-	-0.10	31.22	4.57	4.67	26.75
LK BH01	384593.48	399443.85	31.41	15.00	16.41	5.00	15.00	26.41	16.41	CF & MM	14/10/2024	-	-0.09	31.32	4.46	4.55	26.86
RBH203	384618.25	399396.81	33.56	19.50	14.06	10.00	15.00	23.56	18.56	CF	14/10/2024	-	-0.14	33.42	6.47	6.61	26.95
RBH305	384634.50	399466.27	32.05	20.00	12.05	5.00	9.00	27.05	23.05	CF	14/10/2024	-	-0.01	32.04	5.42	5.43	26.62
RBH501	384631.84	399390.90	33.64	16.00	17.64	4.50	15.00	29.14	18.64	CF	14/10/2024	-	-0.14	33.50	6.36	6.5	27.14
RBH502 P1	384604.49	399389.90	33.49	20.30	13.19	5.50	18.30	27.99	15.19	CF	14/10/2024	-	-0.06	33.43	6.33	6.39	27.10
RBH503	384616.00	399448.08	31.65	12.50	19.15	5.00	10.00	26.65	21.65	CF	14/10/2024	-	-0.09	31.56	4.79	4.88	26.77
RBH504	384644.99	399416.28	34.17	14.50	19.67	4.50	11.95	29.67	22.22	CF	14/10/2024	-	-1.8	32.37	5.1	6.9	27.27
RBH505	384585.91	399449.79	31.32	14.50	16.82	4.50	11.80	26.82	19.52	CF	14/10/2024	-	-0.1	31.22	4.41	4.51	26.81
LK BH01	384593.48	399443.85	31.41	15.00	16.41	5.00	15.00	26.41	16.41	CF & MM	30/09/2024	-	-0.09	31.32	4.25	4.34	27.07
RBH203	384618.25	399396.81	33.56	19.50	14.06	10.00	15.00	23.56	18.56	CF	30/09/2024	-	-0.14	33.42	6.47	6.61	26.95
RBH305	384634.50	399466.27	32.05	20.00	12.05	5.00	9.00	27.05	23.05	CF	30/09/2024	-	-0.01	32.04	5.30	5.31	26.74
RBH501	384631.84	399390.90	33.64	16.00	17.64	4.50	15.00	29.14	18.64	CF	30/09/2024	-	-0.14	33.50	6.41	6.55	27.09
RBH502 P1	384604.49	399389.90	33.49	20.30	13.19	5.50	18.30	27.99	15.19	CF	30/09/2024	-	-0.06	33.43	6.39	6.45	27.04
RBH503	384616.00	399448.08	31.65	12.50	19.15	5.00	10.00	26.65	21.65	CF	30/09/2024	-	-0.09	31.56	4.78	4.87	26.78
RBH504	384644.99	399416.28	34.17	14.50	19.67	4.50	11.95	29.67	22.22	CF	30/09/2024	-	-1.8	32.37	5.12	6.92	27.25
RBH505	384585.91	399449.79	31.32	14.50	16.82	4.50	11.80	26.82	19.52	CF	30/09/2024	-	-0.1	31.22	4.30	4.4	26.92
LK BH01	384593.48	399443.85	31.41	15.00	16.41	5.00	15.00	26.41	16.41	CF & MM	17/09/2024	-	-0.09	31.32	4.58	4.67	26.74
RBH203	384618.25	399396.81	33.56	19.50	14.06	10.00	15.00	23.56	18.56	CF	17/09/2024	-	-0.14	33.42	6.80	6.74	26.82
RBH305	384634.50	399466.27	32.05	20.00	12.05	5.00	9.00	27.05	23.05	CF	17/09/2024	-	-0.01	32.04	5.52	5.53	26.82
RBH501	384631.84	399390.90	33.64	16.00	17.64	4.50	15.00	29.14	18.64	CF	17/09/2024	-	-0.14	33.50	6.50	6.64	27.00
RBH502 P1	384604.49	399389.90	33.49	20.30	13.19	5.50	18.30	27.99	15.19	CF	17/09/2024	-	-0.06	33.43	6.54	6.6	26.89
RBH503	384616.00	399448.08	31.65	12.50	19.15	5.00	10.00	26.65	21.65	CF	17/09/2024	-	-0.09	31.56	4.90	4.99	26.66
RBH504	384644.99	399416.28	34.17	14.50	19.67	4.50	11.95	29.67	22.22	CF	17/09/2024	-	-0.13	34.04	-	-	-
RBH505	384585.91	399449.79	31.32	14.50	16.82	4.50	11.80	26.82	19.52	CF	17/09/2024	-	-0.1	31.22	4.54	4.64	26.68
LK BH01	384593.48	399443.85	31.41	15.00	16.41	5.00	15.00	26.41	16.41	CF & MM	20/08/2024	-	-0.09	31.32	4.2	4.61	26.80
RBH203	384618.25	399396.81	33.56	19.50	14.06	10.00	15.00	23.56	18.56	CF	20/08/2024	-	-0.14	33.42	.	6.84	26.72
RBH305	384634.50	399466.27	32.05	20.00	12.05	5.00	9.00	27.05	23.05	CF	20/08/2024	-	-0.01	32.04	.4	5.5	26.55
RBH501	384631.84	399390.90	33.64	16.00	17.64	4.50	15.00	29.14	18.64	CF	20/08/2024	-	-0.14	33.50	.4	6.6	27.04
RBH502 P1	384604.49	399389.90	33.49	20.30	13.19	5.50	18.30	27.99	15.19	CF	20/08/2024	-	-0.06	33.43	.	6.66	26.83
RBH503	384616.00	399448.08	31.65	12.50	19.15	5.00	10.00	26.65	21.65	CF	20/08/2024	-	-0.09	31.56	4.88	4.97	26.68
RBH504	384644.99	399416.28	34.17	14.50	19.67	4.50	11.95	29.67	22.22	CF	20/08/2024	-	-0.13	34.04	-	-	-
RBH505	384585.91	399449.79	31.32	14.50	16.82	4.50	11.80	26.82	19.52	CF	20/08/2024	-	-0.1	31.22	4.4	4.5	26.82
LK BH01	384593.48	399443.85	31.41	15.00	16.41	5.00	15.00	26.41	16.41	CF & MM	06/08/2024	-	-0.09	31.32	4.4	4.55	26.77
RBH203	384618.25	399396.81	33.56	19.50	14.06	10.00	15.00	23.56	18.56	CF	06/08/2024	-	-0.14	33.42	4.8	4.88	26.72
RBH305	384634.50	399466.27	32.05	20.00	12.05	5.00	9.00	27.05	23.05	CF	06/08/2024	-	-0.01	32.04	5.42	5.43	26.82
RBH501	384631.84	399390.90	33.64	16.00	17.64	4.50	15.00	29.14	18.64	CF	06/08/2024	-	-0.14	33.50	6.42	6.56	27.08
RBH502 P1	384604.49	399389.90	33.49	20.30	13.19	5.50	18.30	27.99	15.19	CF	06/08/2024	-	-0.06	33.43	6.44	6.5	26.99
RBH503	384616.00	399448.08	31.65	12.50	19.15	5.00	10.00	26.65	21.65	CF	06/08/2024	-	-0.09	31.56	4.77	4.86	26.79
RBH504	384644.99	399416.28	34.17	14.50	19.67	4.50	11.95	29.67	22.22	CF	06/08/2024	-	-0.13	34.04	6.99	7.12	27.05
RBH505	384585.91	399449.79	31.32	14.50	16.82	4.50	11.80	26.82	19.52	CF	06/08/2024	-	-0.1	31.22	4.42	4.52	26.80
LK BH01	384593.48	399443.85	31.41	15.00	16.41	5.00	15.00	26.41	16.41	CF & MM	23/07/2024	-	-0.09	31.32	4.48	4.57	26.84
RBH203	384618.25	399396.81	33.56	19.50	14.06	10.00	15.00	23.56	18.56	CF	23/07/2024	-	-0.14	33.42	6.5	6.64	26.92
RBH305	384634.50	399466.27	32.05	20.00	12.05	5.00	9.00	27.05	23.05	CF	23/07/2024	-	-0.01	32.04	5.44	5.45	26.60
RBH501	384631.84	399390.90	33.64	16.00	17.64	4.50	15.00	29.14	18.64	CF	23/07/2024	-	-0.14	33.50	6.4	6.54	27.10
RBH502 P1	384604.49	399389.90	33.49	20.30	13.19	5.50	18.30	27.99	15.19	CF	23/07/2024	-	-0.06	33.43	6.45	6.51	26.98
RBH503	384616.00	399448.08	31.65	12.50	19.15	5.00	10.00	26.65	21.65	CF	23/07/2024	-	-0.09	31.56	4.81	4.9	26.75
RBH504	384644.99	399416.28	34.17	14.50	19.67	4.50	11.95	29.67	22.22	CF	23/07/2024	-	-0.13	34.04	6.8	6.93	27.24
RBH505	384585.91	399449.79	31.32	14.50	16.82	4.50	11.80	26.82	19.52	CF	23/07/2024	-	-0.1	31.22	4.4	4.5	26.82
LK BH01	384593.48	399443.85	31.41	15.00	16.41	5.00	15.00	26.41	16.41	CF & MM	09/07/2024	-	-0.09	31.32	4.47	4.56	26.85
RBH203	384618.25	399396.81	33.56	19.50	14.06	10.00	15.00	23.56	18.56	CF	09/07/2024	-	-0.14	33.42	6.43	6.57	26.99
RBH305	384634.50	399466.27	32.05	2													

BH I.D.	Easting	Northing	Ground Level (mAOD)	Drilled Depth (mbgl)	Drilled Depth (mOD)	Response zone from (mbgl)	Response zone to (mbgl)	Response zone from (mOD)	Response zone to (mOD)	Lithology at response zone	Date	Time	Height of measuring point (magl / mbgl)	Height of measuring point (mOD)	DTW from measuring point (mbgl)	DTW from ground level (mbgl)	Hydraulic Head (mOD)
WS311	384712.61	399444.78	35.04	5.00	30.04	0.50	1.50	34.54	33.54	MG	06/11/2023	-	-0.09	34.95	0.32	0.41	34.63
RBH203	384619.3617	399403.8317	33.59	19.50	14.09	10.00	15.00	23.59	18.59	CF	31/08/2023	-	-0.15	33.44	6.44	6.59	27.00
LKBH01	384593.4752	399443.8486	31.41	15.00	16.41	5.00	15.00	26.41	16.41	CF & MM	31/08/2023	-	-0.09	31.32	4.42	4.51	26.90
RBH202	384638.0452	399446.2626	32.76	25.00	7.76	21.00	25.00	11.76	7.76	MM	31/08/2023	-	-0.21	32.55	6.01	6.22	26.54
RBH305	384636.0148	399469.2144	32.15	20.00	12.15	5.00	9.00	27.15	23.15	CF	31/08/2023	-	-0.17	31.98	5.39	5.56	26.59
LKBH03	384634.5562	399391.5859	33.59	20.00	13.59	3.00	20.00	30.59	13.59	CF & MM	31/08/2023	-	-0.07	33.52	6.42	6.49	27.10
RBH303	384640.0715	399422.3584	33.01	15.00	18.01	5.00	10.00	28.01	23.01	CF	31/08/2023	-	-0.12	32.89	5.91	6.03	26.98
RBH301	384576.6815	399444.2723	31.41	15.00	16.41	4.00	10.00	27.41	21.41	CF	31/08/2023	-	-0.11	31.30	4.48	4.59	26.82
RBH302	384608.4155	399383.5676	33.59	15.00	18.59	5.00	12.00	28.59	21.59	CF	31/08/2023	-	-0.1	33.49	6.16	6.26	27.33
RBH306	384692.0001	399446.8116	33.73	20.00	13.73	9.00	11.00	24.73	22.73	MM	31/08/2023	-	-0.12	33.61	4.71	4.83	28.90
RBH307	384749.1508	399493.2707	39.84	24.00	15.84	9.00	20.00	30.84	19.84	MM	31/08/2023	-	-	-	-	-	-
RBH208	384757.4771	399461.3776	42.00	24.00	18.00	19.00	24.00	23.00	18.00	MM	31/08/2023	-	-0.03	41.97	12.68	12.71	29.29
RBH207	384797.8989	399510.7339	36.17	25.00	11.17	20.00	25.00	16.17	11.17	MM	31/08/2023	-	-0.11	36.06	7.80	7.91	28.26
RBH209	384796.49	399492.2897	40.46	24.00	16.46	12.00	17.00	28.46	23.46	MM	31/08/2023	-	-	-	-	-	-
RBH210	384845.1357	399489.0191	41.38	25.00	16.38	20.00	25.00	21.38	16.38	MM	31/08/2023	-	-0.09	41.29	12.36	12.45	28.93
RBH301	384576.6815	399444.2723	31.41	15.00	16.41	4.00	10.00	27.41	21.41	CF	31/07/2023	-	-0.11	31.30	4.41	4.52	26.89
RBH305	384636.0148	399469.2144	32.15	20.00	12.15	5.00	9.00	27.15	23.15	CF	31/07/2023	-	-0.17	31.98	5.3	5.47	26.68
RBH202	384638.0452	399446.2626	32.76	25.00	7.76	21.00	25.00	11.76	7.76	MM	31/07/2023	-	-0.21	32.55	5.82	6.03	26.73
RBH303	384640.0715	399422.3584	33.01	15.00	18.01	5.00	10.00	28.01	23.01	CF	31/07/2023	-	-0.12	32.89	5.9	6.02	26.99
RBH304	384680.6566	399402.0664	34.66	9.45	25.21	5.00	9.00	29.66	25.66	RD	04/07/2023	-	-0.11	34.55	6.92	6.93	27.73
RBH203	384619.3617	399403.8317	33.59	19.50	14.09	10.00	15.00	23.59	18.59	CF	31/07/2023	-	-0.15	33.44	6.4	6.55	27.04
RBH302	384608.4155	399383.5676	33.59	15.00	18.59	5.00	12.00	28.59	21.59	CF	31/07/2023	-	-0.1	33.49	5.94	6.04	27.55
RBH207	384797.8989	399510.7339	36.17	25.00	11.17	20.00	25.00	16.17	11.17	MM	31/07/2023	-	-0.11	36.06	12.37	-	#VALUE!
RBH208	384757.4771	399461.3776	42.00	24.00	18.00	19.00	24.00	23.00	18.00	MM	31/07/2023	-	-0.03	41.97	13.57	13.60	28.40
RBH306	384692.0001	399446.8116	33.73	20.00	13.73	9.00	11.00	24.73	22.73	MM	31/07/2023	-	-0.12	33.61	4.73	4.85	28.88
RBH301	384576.6815	399444.2723	31.41	15.00	16.41	4.00	10.00	27.41	21.41	CF	16/06/2023	-	0	31.41	4.81	4.81	26.60
RBH302	384608.4155	399383.5676	33.59	15.00	18.59	5.00	12.00	28.59	21.59	CF	16/06/2023	-	0	33.59	6.7	6.7	26.89
RBH303	384640.0715	399422.3584	33.01	15.00	18.01	5.00	10.00	28.01	23.01	CF	16/06/2023	-	0	33.01	6.26	6.26	26.75
RBH304	384680.6566	399402.0664	34.66	9.45	25.21	5.00	9.00	29.66	25.66	RD	16/06/2023	-	0	34.66	7.23	7.23	27.43
RBH305	384636.0148	399469.2144	32.15	20.00	12.15	5.00	9.00	27.15	23.15	CF	16/06/2023	-	0	32.15	5.71	5.71	26.44
RBH306	384692.0001	399446.8116	33.73	20.00	13.73	9.00	11.00	24.73	22.73	MM	16/06/2023	-	0	33.73	5.1	5.1	28.63
RBH307	384749.1508	399493.2707	39.84	24.00	15.84	9.00	20.00	30.84	19.84	MM	16/06/2023	-	0	39.84	11.65	11.65	28.19
RBH201	384597.0833	399455.1755	31.40	25.10	6.30	21.00	25.00	10.40	6.40	MM	-	-	-	-	-	-	-
RBH202	384638.0452	399446.2626	32.76	25.00	7.76	21.00	25.00	11.76	7.76	MM	16/06/2023	-	0	32.76	6.24	6.24	26.52
RBH203	384619.3617	399403.8317	33.59	19.50	14.09	10.00	15.00	23.59	18.59	CF	16/06/2023	-	0	33.59	6.83	6.83	26.76
RBH205	384721.675	399517.6368	31.38	25.00	6.38	20.00	25.00	11.38	6.38	MM	-	-	-	-	-	-	-
RBH206	384701.7029	399491.1688	32.00	25.00	7.00	21.00	25.00	11.00	7.00	MM	-	-	-	-	-	-	-
RBH207	384797.8989	399510.7339	36.17	25.00	11.17	20.00	25.00	16.17	11.17	MM	16/06/2023	-	0	36.17	7.52	7.52	28.65
RBH208	384757.4771	399461.3776	42.00	24.00	18.00	19.00	24.00	23.00	18.00	MM	16/06/2023	-	0	42	13.78	13.78	28.22
RBH209	384796.49	399492.2897	40.46	24.00	16.46	12.00	17.00	28.46	23.46	MM	-	-	-	-	-	-	-
RBH210	384845.1357	399489.0191	41.38	25.00	16.38	20.00	25.00	21.38	16.38	MM	16/06/2023	-	0	41.38	12.09	12.09	29.29
LKBH01	384593.4752	399443.8486	31.41	15.00	16.41	5.00	15.00	26.41	16.41	CF & MM	16/06/2023	-	0	31.41	4.78	4.78	26.63
LKBH03	384634.5562	399391.5859	33.59	20.00	13.59	3.00	20.00	30.59	13.59	CF & MM	16/06/2023	-	0	33.59	6.76	6.76	26.83
RBH301	384576.6815	399444.2723	31.41	15.00	16.41	4.00	10.00	27.41	21.41	CF	10/05/2023	-	-0.09	31.32	4.64	4.73	26.68
RBH302	384608.4155	399383.5676	33.59	15.00	18.59	5.00	12.00	28.59	21.59	CF	10/05/2023	-	-0.07	33.52	6.48	6.55	27.04
RBH203	384619.3617	399403.8317	33.59	19.50	14.09	10.00	15.00	23.59	18.59	CF	10/05/2023	-	-0.14	33.45	6.6	6.74	26.85
LKBH03	384634.5562	399391.5859	33.59	20.00	13.59	3.00	20.00	30.59	13.59	CF & MM	10/05/2023	-	-0.07	33.52	6.59	6.66	26.93
RBH304	384680.6566	399402.0664	34.66	9.45	25.21	5.00	9.00	29.66	25.66	RD	10/05/2023	-	-0.1	34.56	7.24	7.34	27.32
RBH303	384640.0715	399422.3584	33.01	15.00	18.01	5.00	10.00	28.01	23.01	CF	10/05/2023	-	-0.1	32.91	8.48	8.58	24.43
RBH306	384692.0001	399446.8116	33.73	20.00	13.73	9.00	11.00	24.73	22.73	MM	11/05/2023	-	-0.12	33.61	4.89	5.01	28.72
RBH305	384636.0148	399469.2144	32.15	20.00	12.15	5.00	9.00	27.15	23.15	CF	11/05/2023	-	-0.17	31.98	5.5	5.67	26.48
RBH304	384680.6566	399402.0664	34.66	9.45	25.21	5.00	9.00	29.66	25.66	RD	04/05/2023	-	-0.1	34.56	7.28	7.38	27.28
RBH202	384608.4155	399383.5676	33.59	15.00	18.59	5.00	12.00	28.59	21.59	CF	04/05/2023	-	-0.07	33.52	6.48	6.55	27.04
RBH203	384619.3617	399403.8317	33.59	19.50	14.09	10.00	15.00	23.59	18.59	CF	04/05/2023	-	-0.14	33.45	6.6	6.74	26.85
RBH303	384640.0715	399422.3584	33.01	15.00	18.01	5.00	10.00	28.01	23.01	CF	04/05/2023	-	-0.1	32.91	6.03	6.13	26.88
RBH305	384636.0148	399469.2144	32.15	20.00	12.15	5.00	9.00	27.15	23.15	CF	04/05/2023	-	-0.17	31.98	5.47	5.64	26.51
RBH301	384576.6815	399444.2723	31.41	15.00	16.41	4.00	10.00	27.41	21.41	CF	04/05/2023	-	-0.09	31.32	4.63	4.72	26.69
RBH306	384692.0001	399446.8116	33.73	20.00	13.73	9.00	11.00	24.73	22.73	MM	04/05/2023	-	-0.12	33.61	4.87	4.99	28.74
LKBH03	384634.5562	399391.5859	33.59	20.00	13.59	3.00	20.00	30.59	13.59	CF & MM	04/05/2023	-	-0.07	33.52	6.56	6.63	26.96
RBH306	384692.0001	399446.8116	33.73	20.00	13.73	9.00	11.00	24.73	22.73	MM	28/04/2023	-	-0.12	33.61	3.87	3.99	29.74
RBH301	384576.6815	399444.2723	31.41	15.00	16.41	4.00	10.00	27.41	21.41	CF	28/04/2023	-	-0.09	31.32	4.61	4.7	26.71
RBH305	384636.01	399469.2144	32.15	20.00	12.15	5.00	9.00	27.15	23.15	CF	28/04/2023	-	-0.17	31.98	5.46	5.63	26.52
RBH304	384680.66	399402.0664	34.66	9.45	25.21	5.00	9.00	29.66	25.66	RD	28/04/2023	-	-0.1	34.56	7.31	7.41	27.25
RBH303	384640.07	399422.36	33.01	15.00	18.01	5.00	10.00	28.01	23.01	CF	28/04/2023	-	-0.1	32.91	6.01	6.11	26.90
RBH302	384608.42	399383.57	33.59	15.00	18.59	5.00	12.00	28.59	21.59	CF	28/04/2023	-	-0.07	33.52	6.46	6.53	27.06
RBH202	384638.05	399446.26	32.76	25.00	7.76	21.00	25.00	11.76	7.76	MM	16/02/2023	-	0	32.76	6.2	6.2	26.56
RBH203	384																



COMPLEX CHALLENGES ...
MADE SIMPLE

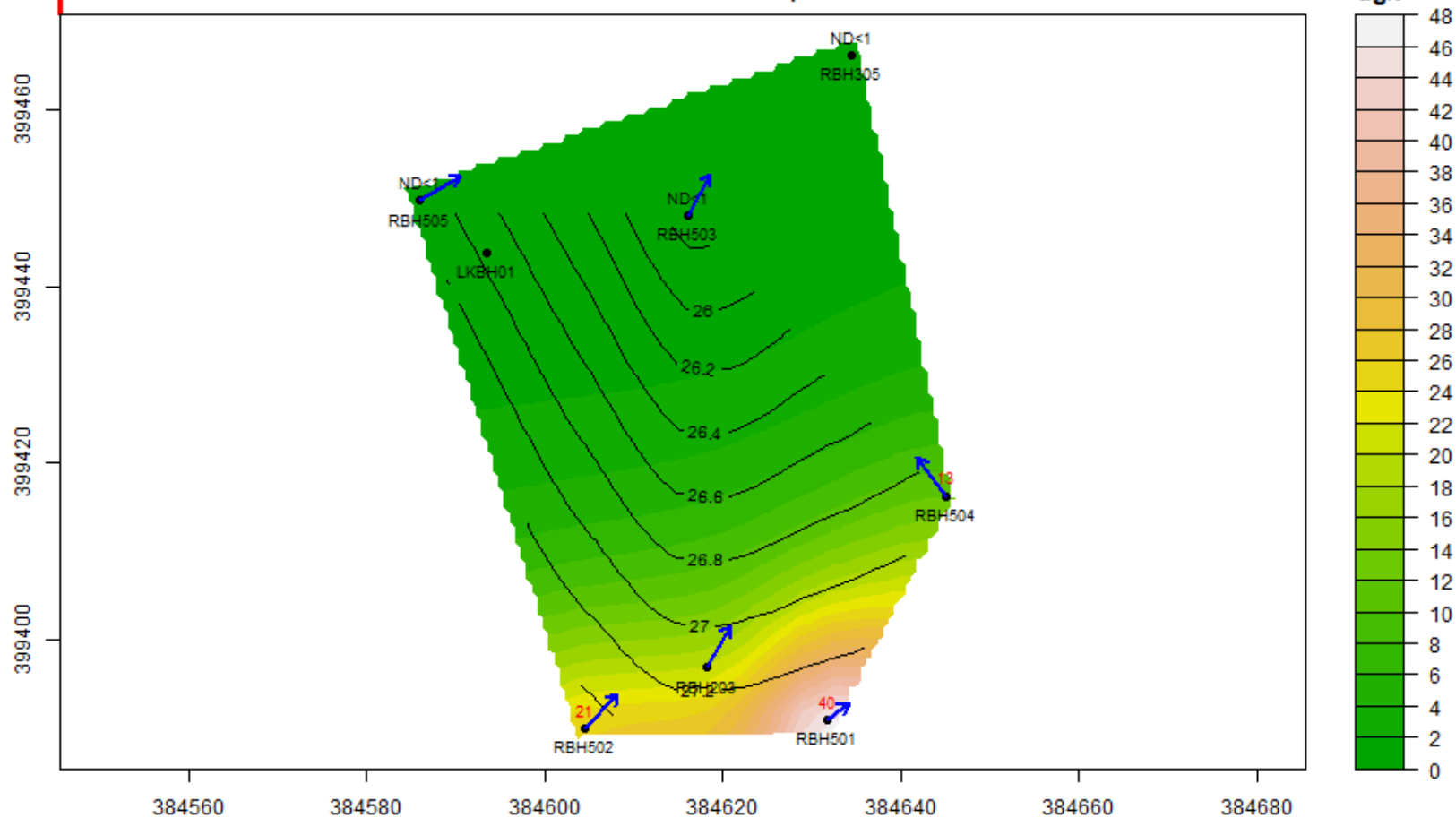
APPENDIX D - WATCH AND TRIGGER VALUES

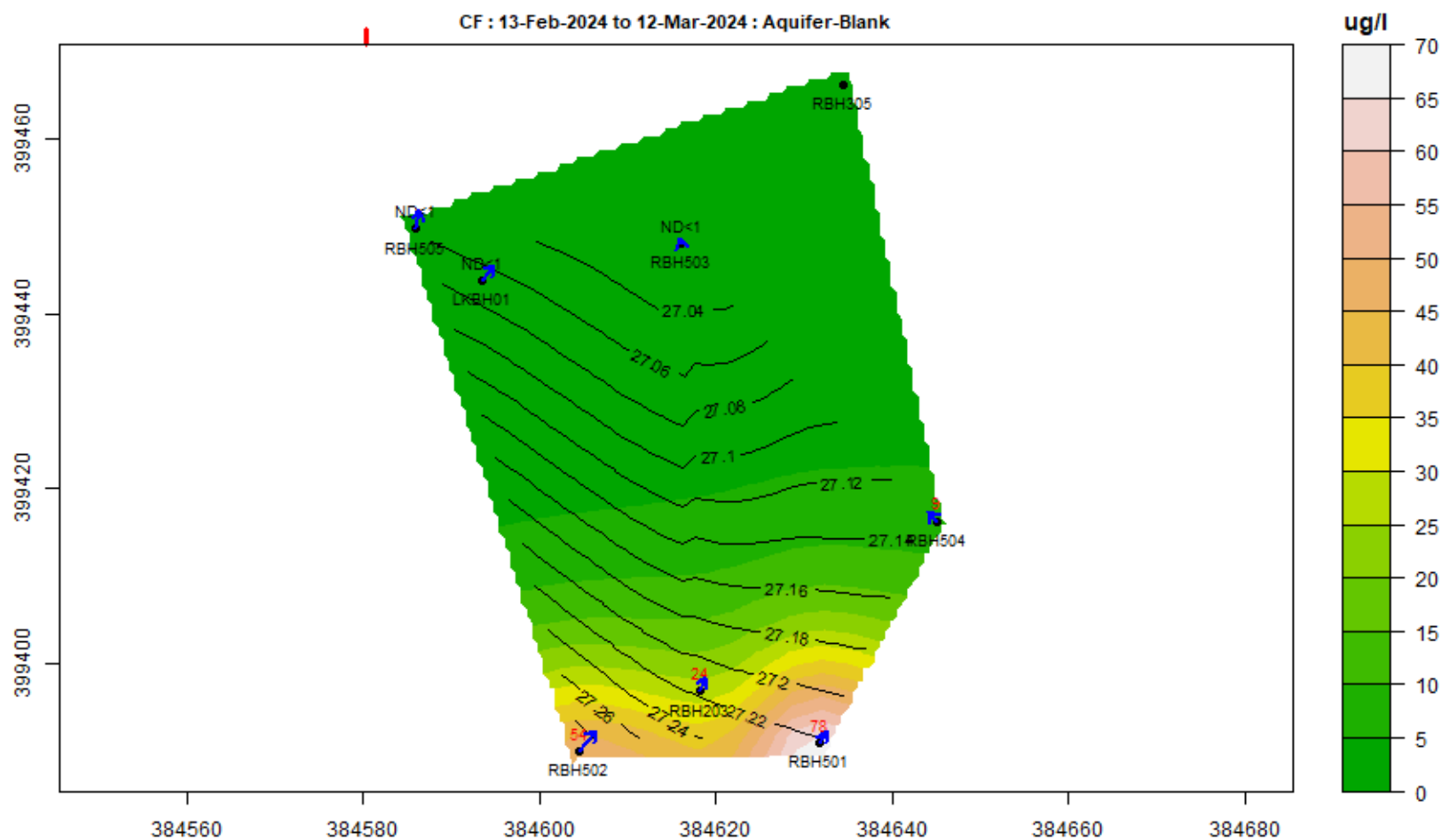


COMPLEX CHALLENGES ...
MADE SIMPLE

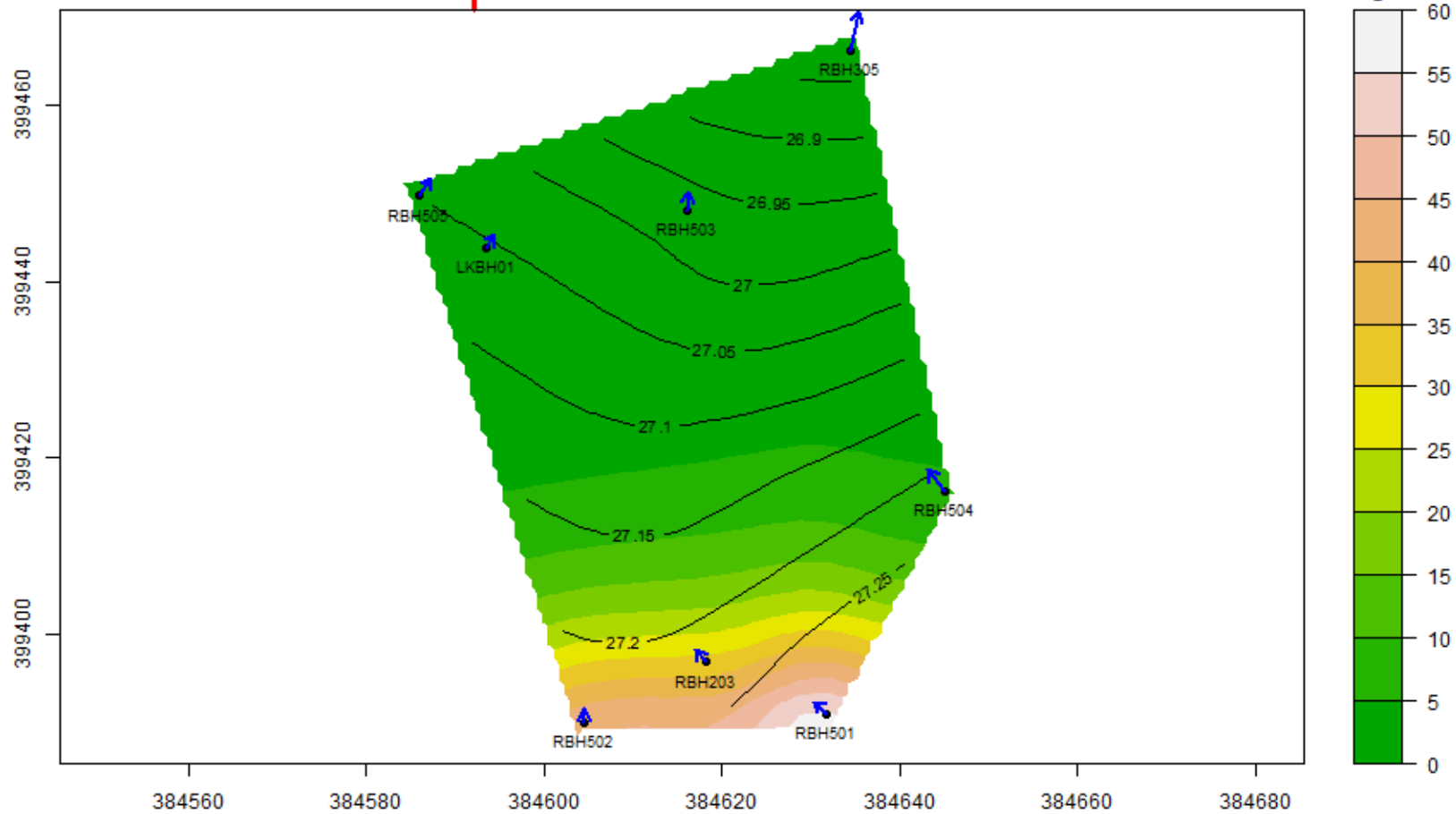
APPENDIX E - GWSDAT PLOTS

CF : 13-Nov-2023 to 12-Dec-2023 : Aquifer-Blank

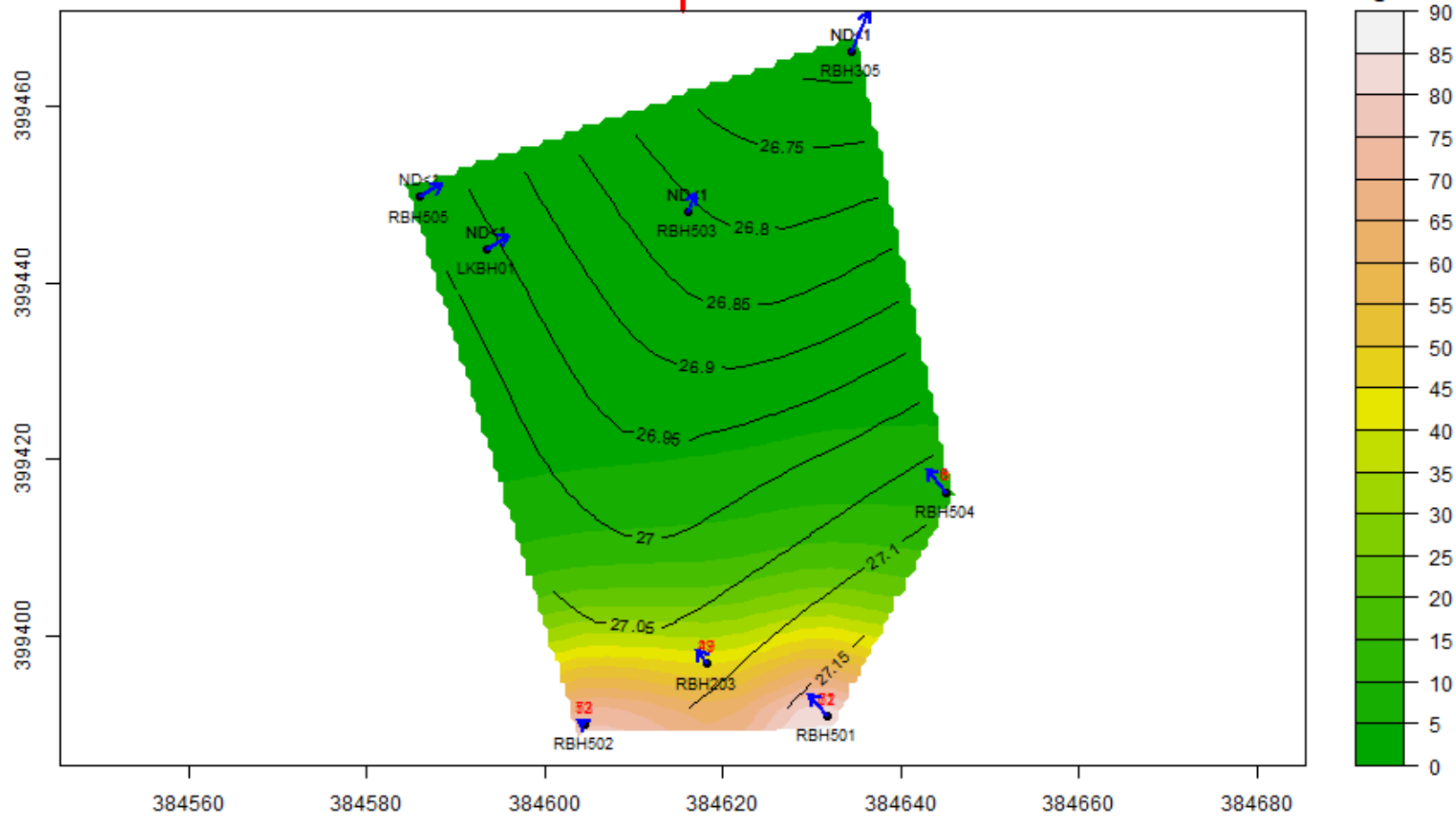




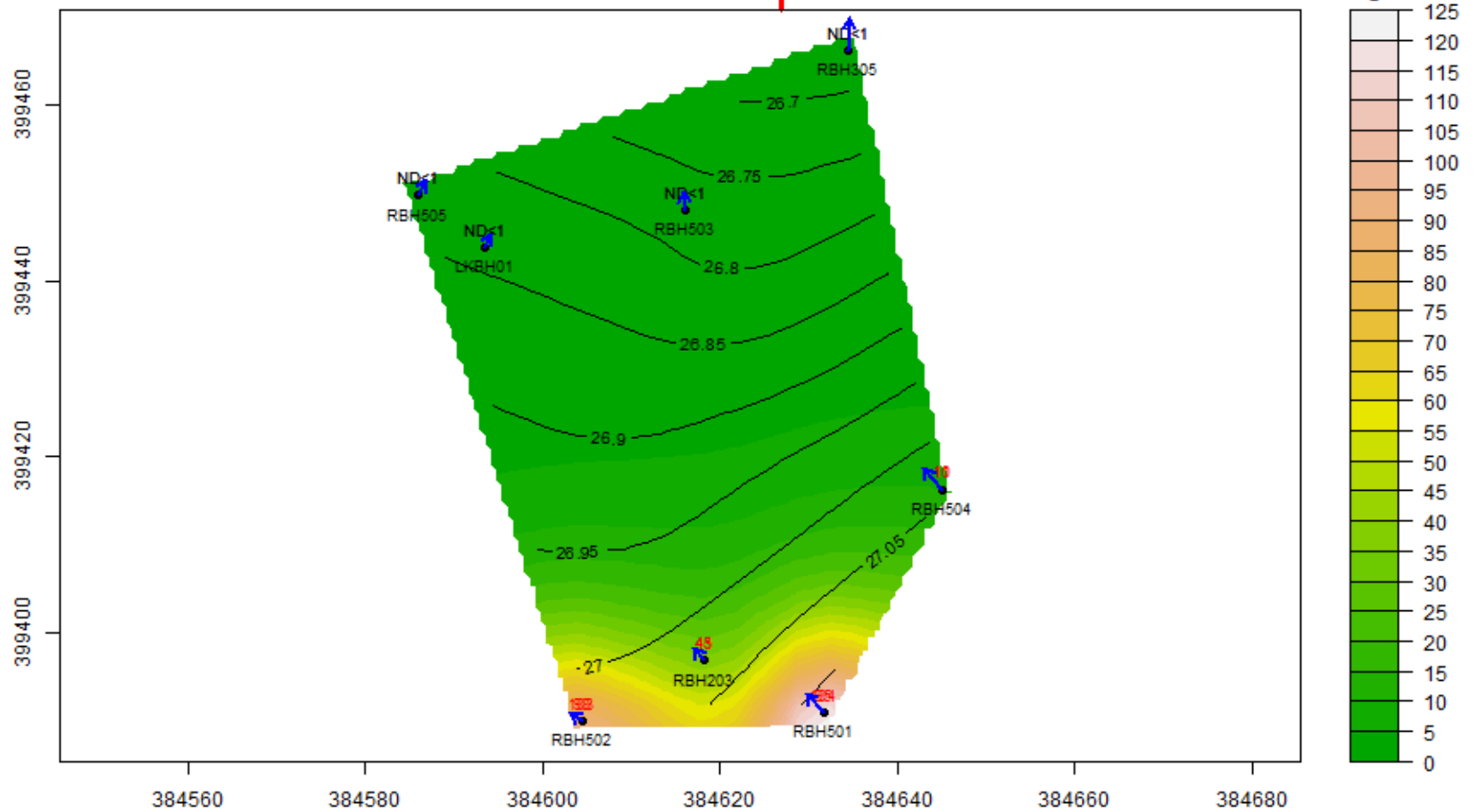
CF : 13-Mar-2024 to 12-Apr-2024 : Aquifer-Blank



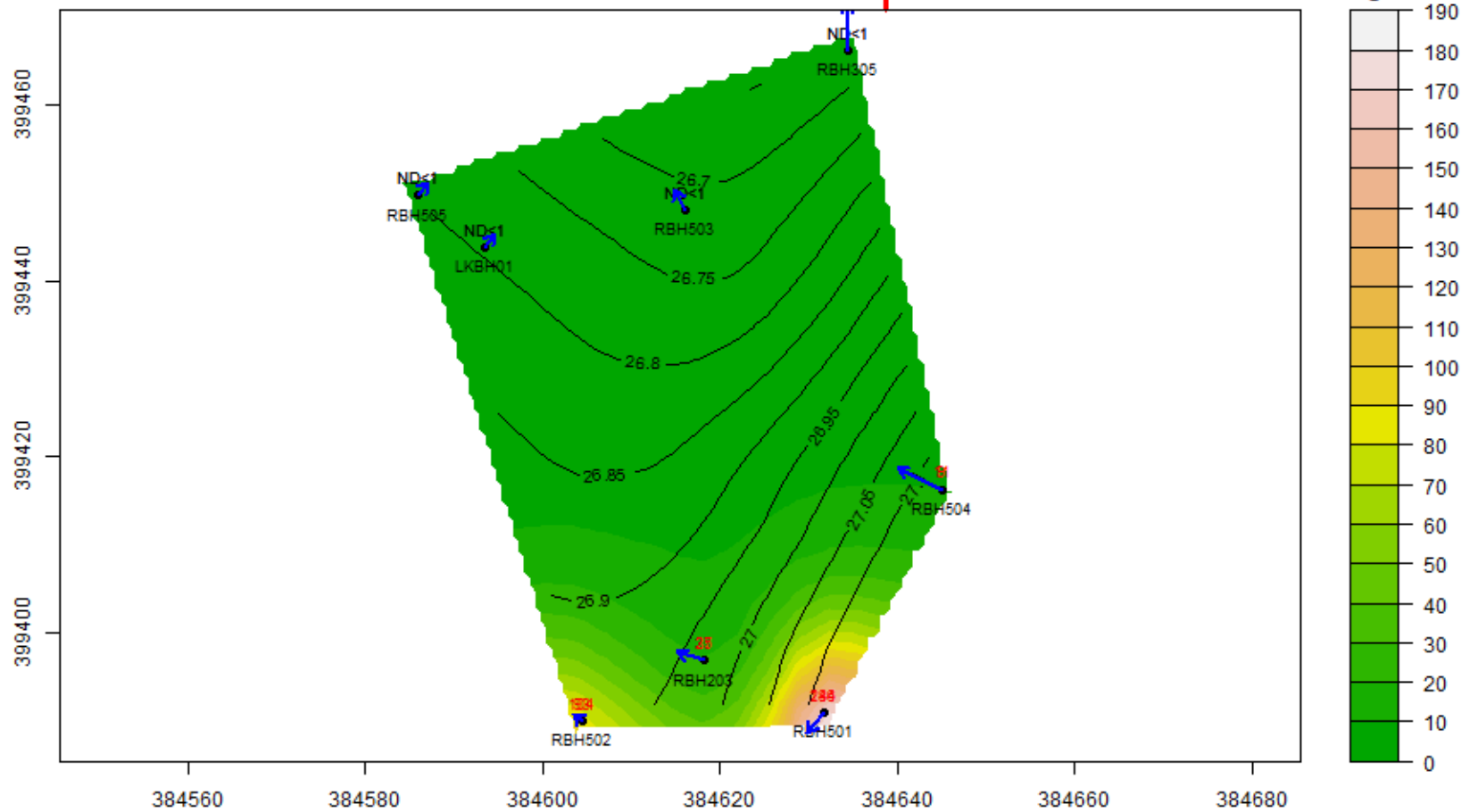
CF : 13-May-2024 to 12-Jun-2024 : Aquifer-Blank



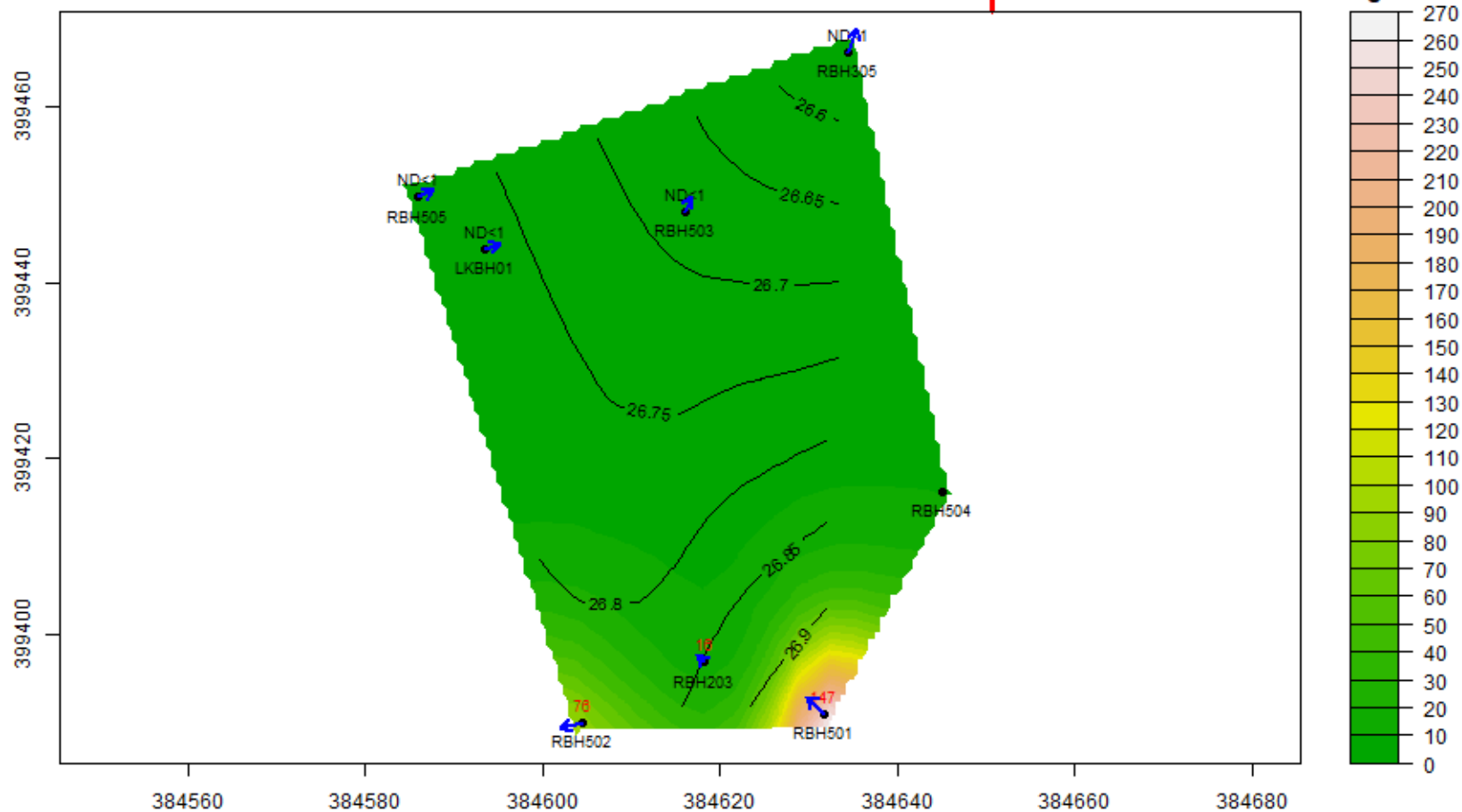
CF : 13-Jun-2024 to 12-Jul-2024 : Aquifer-Blank



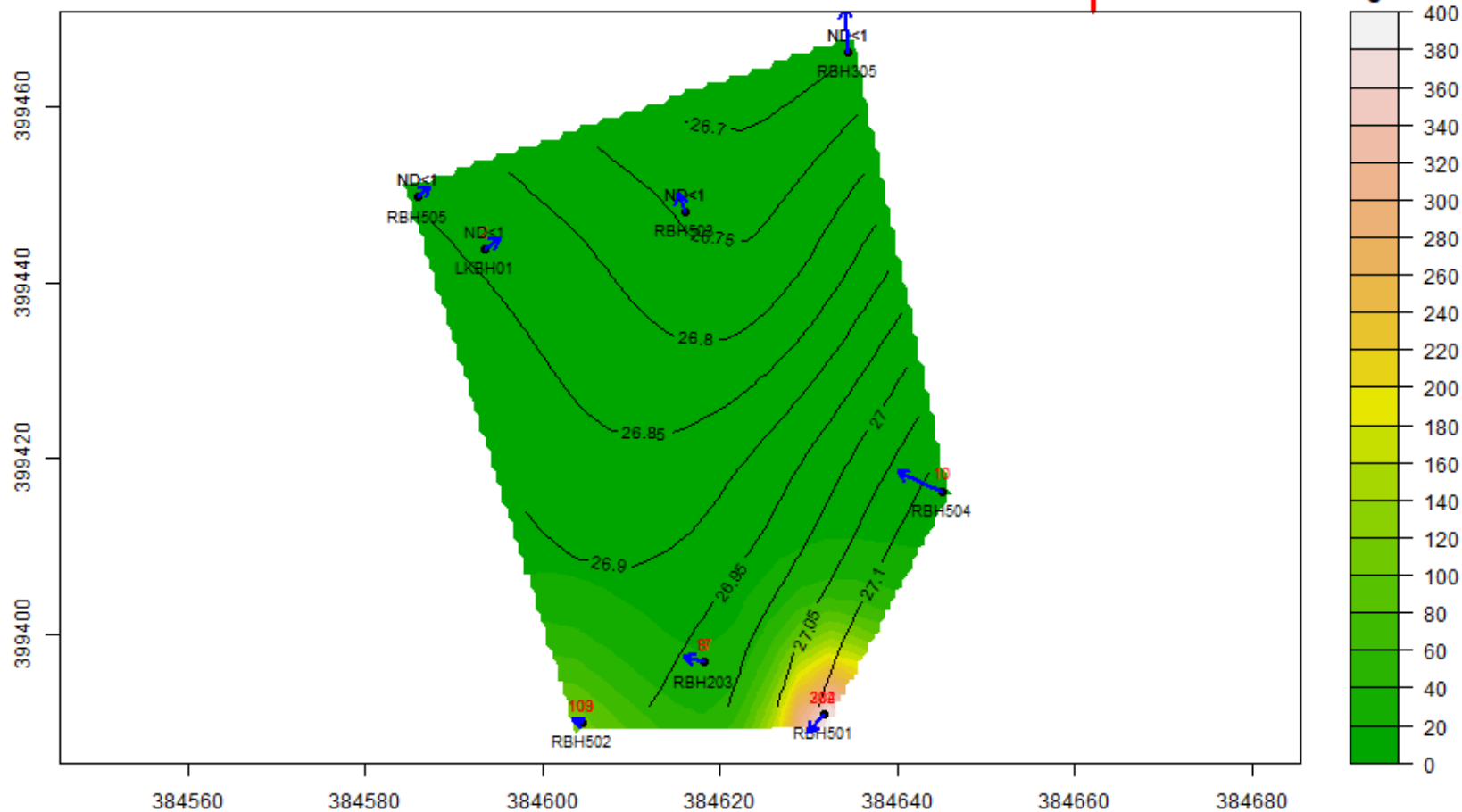
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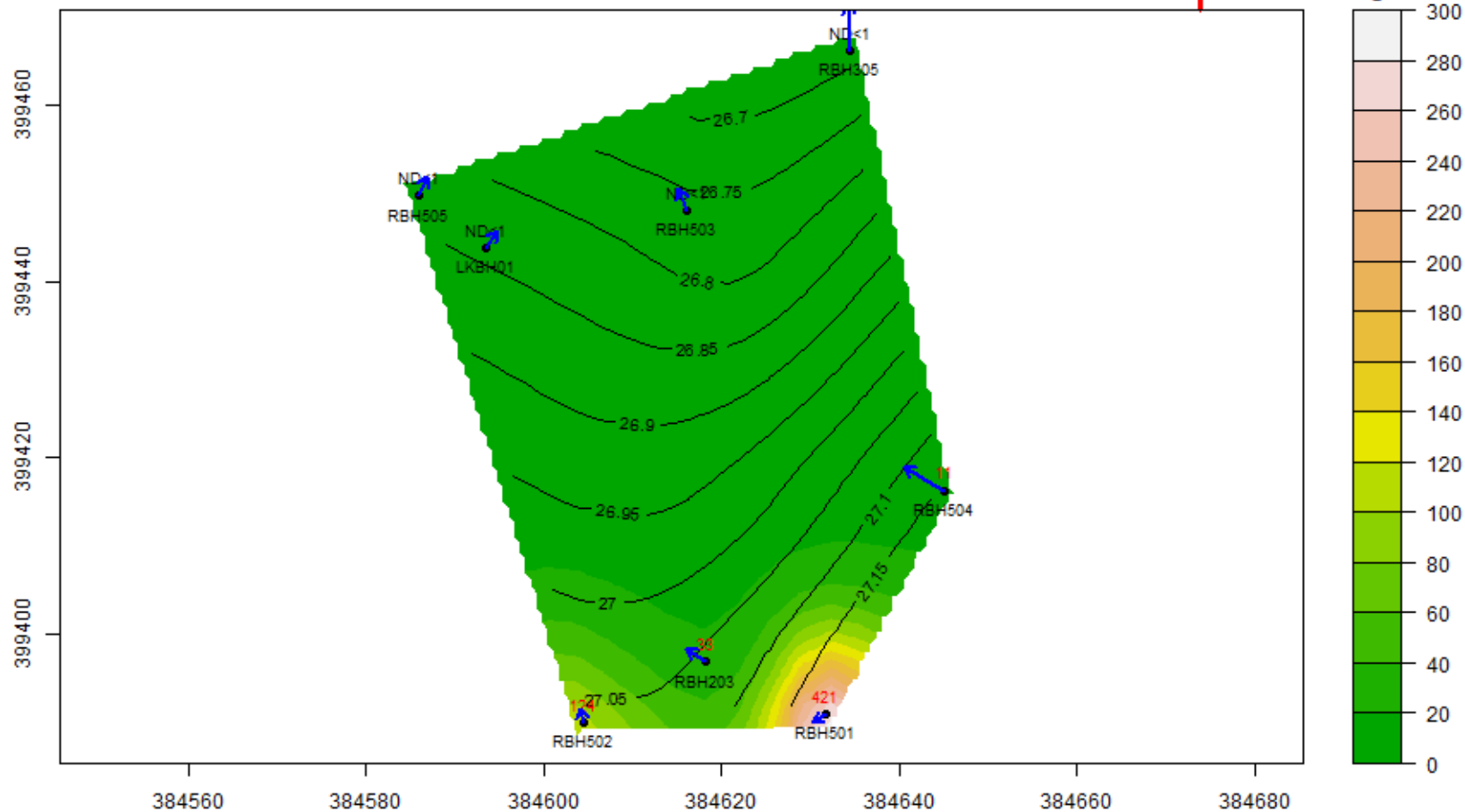
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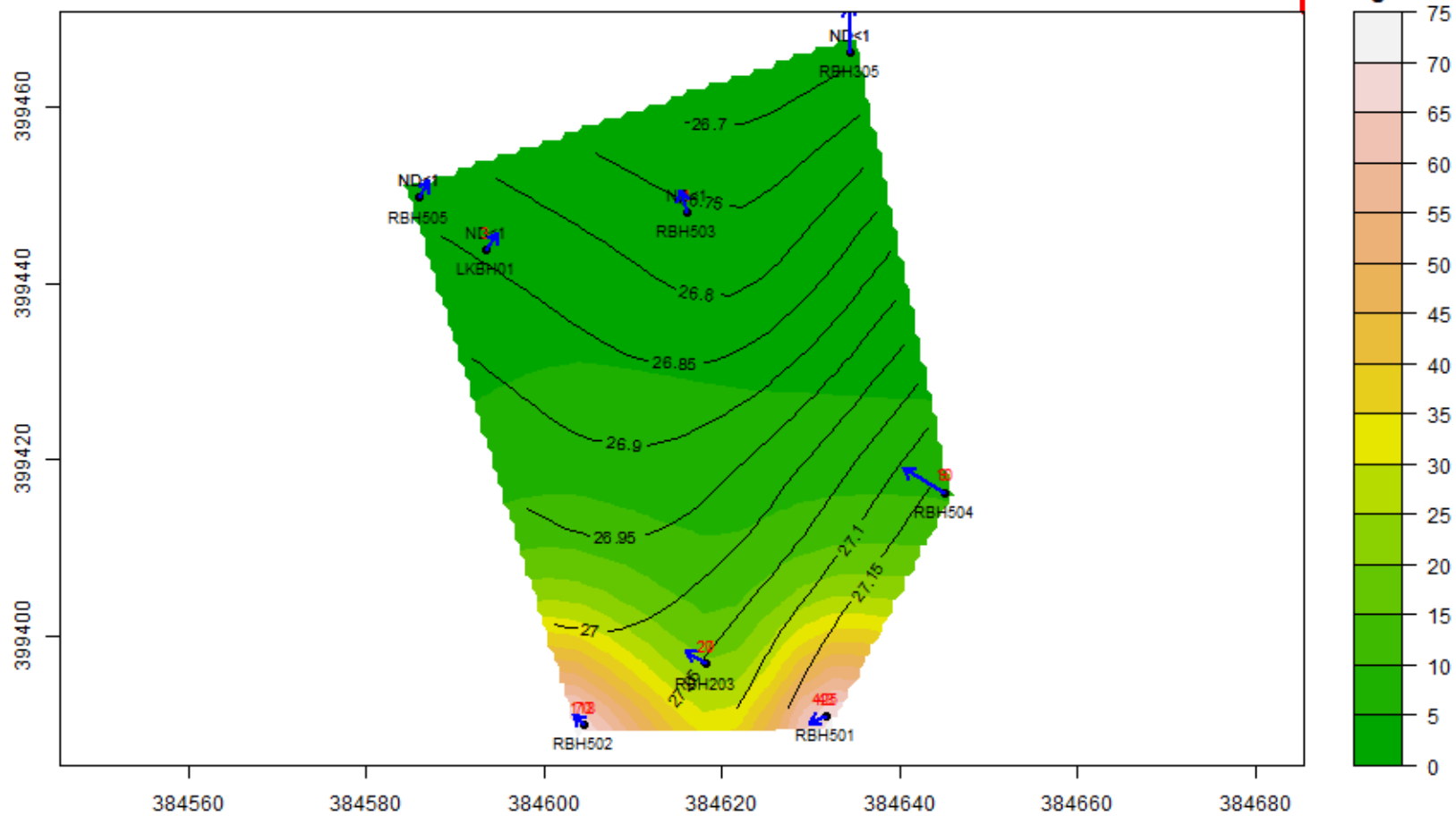
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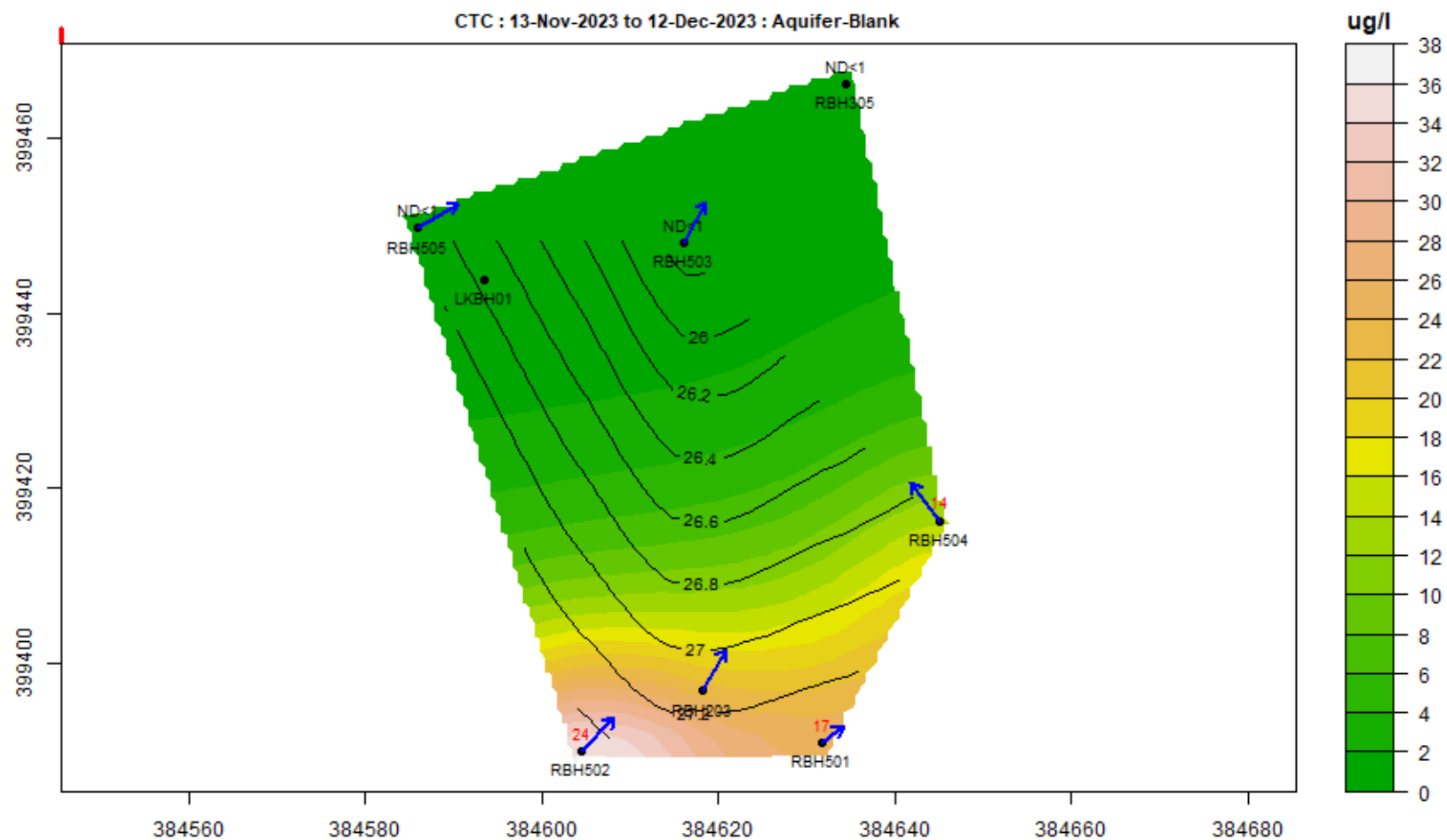
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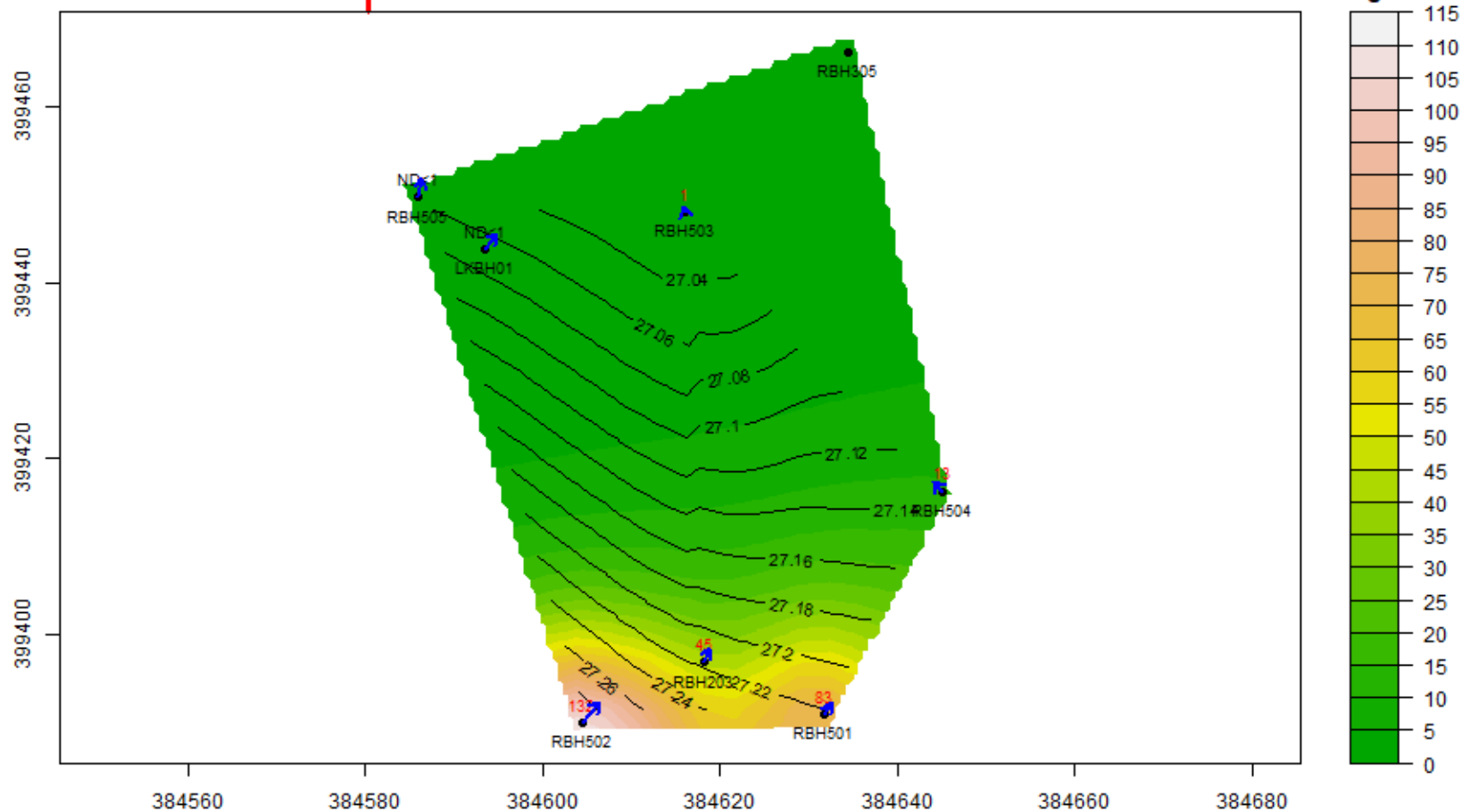
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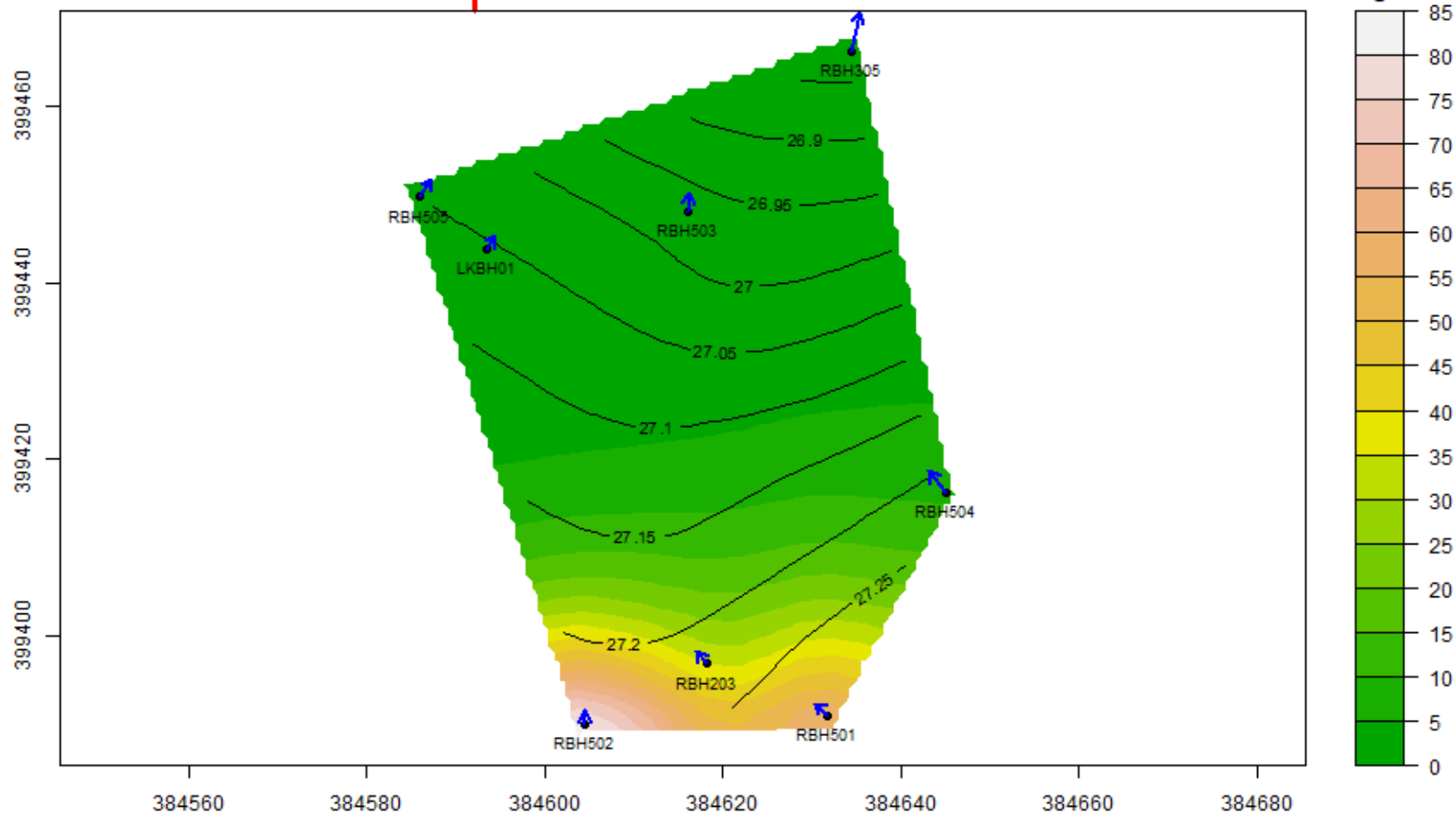
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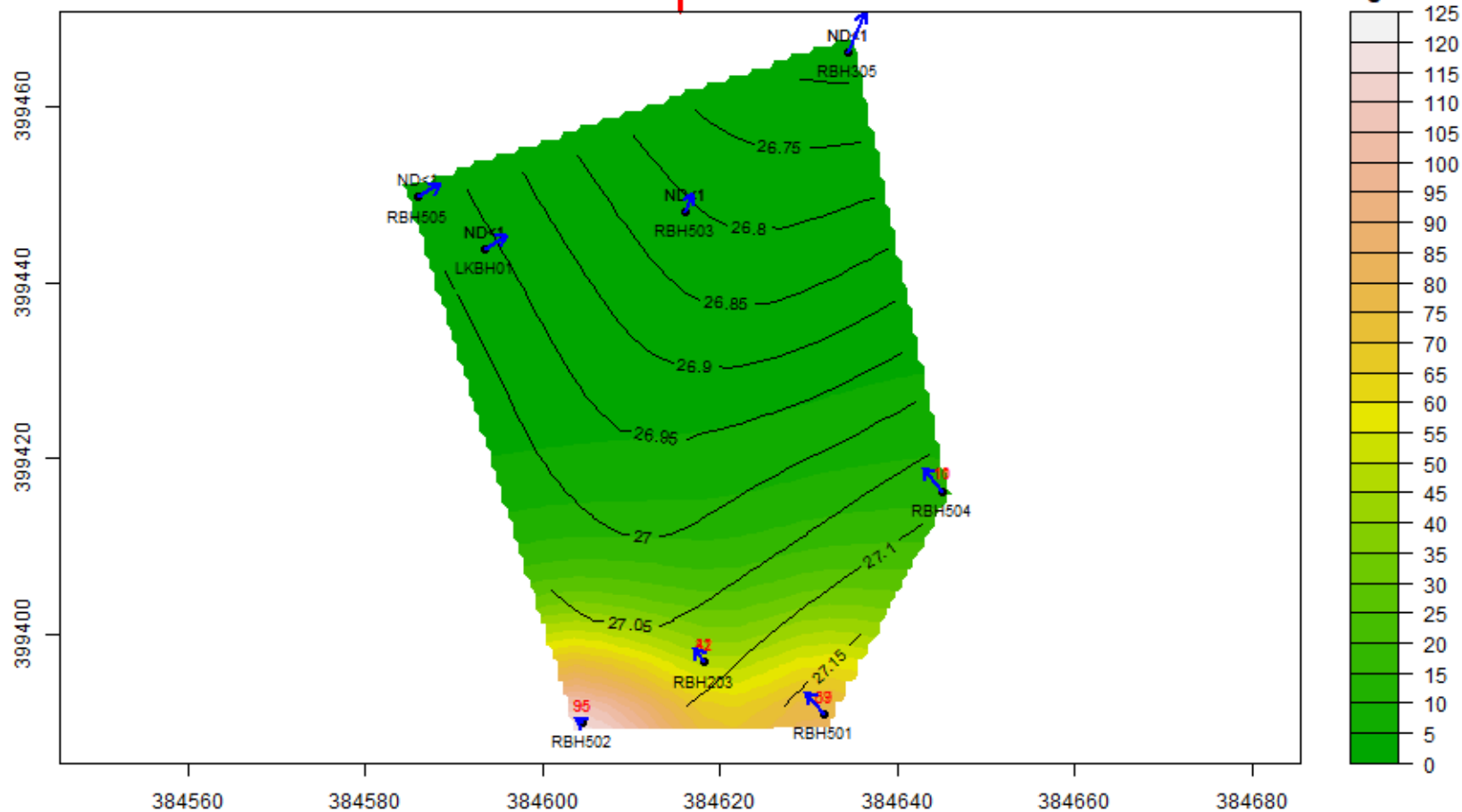
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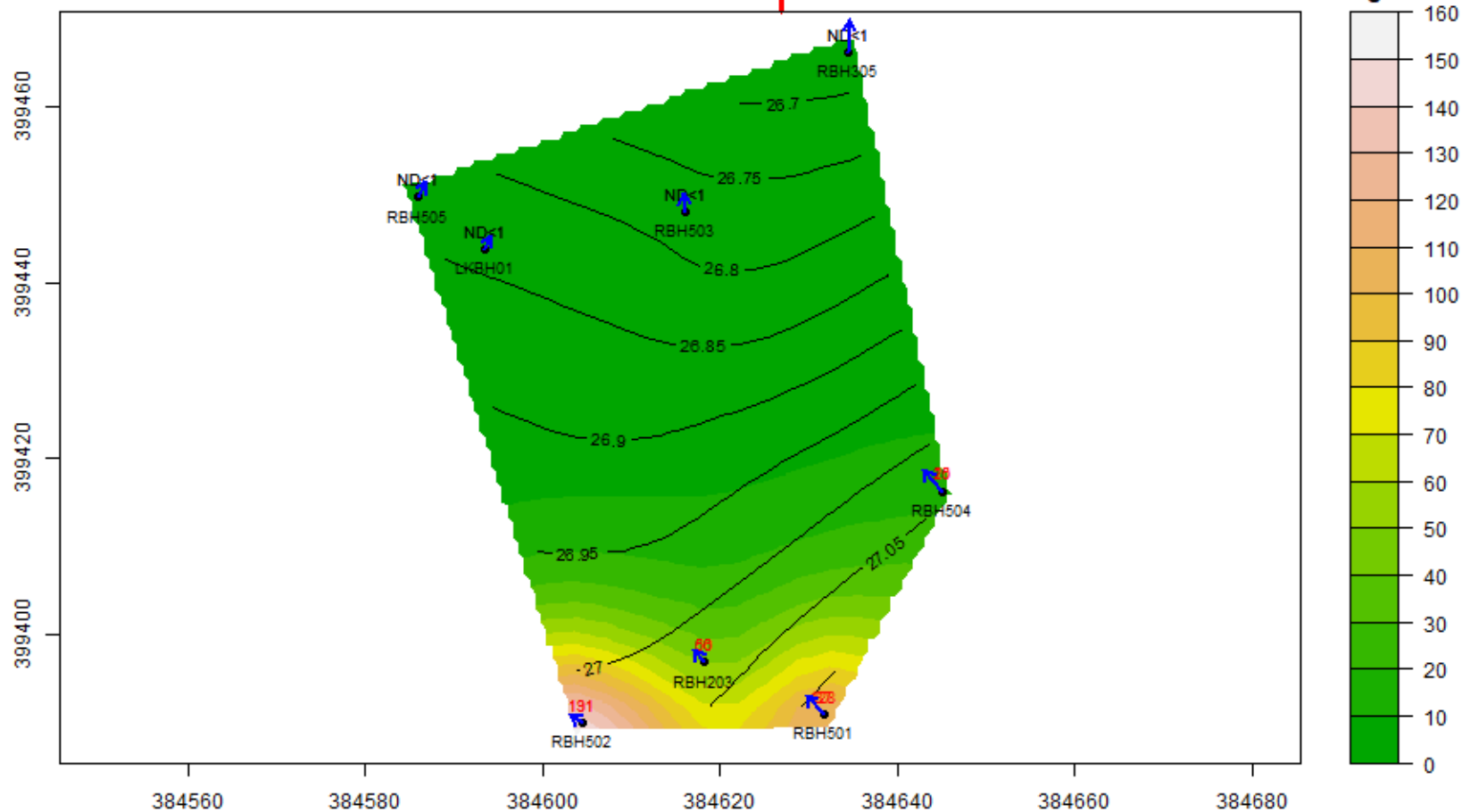
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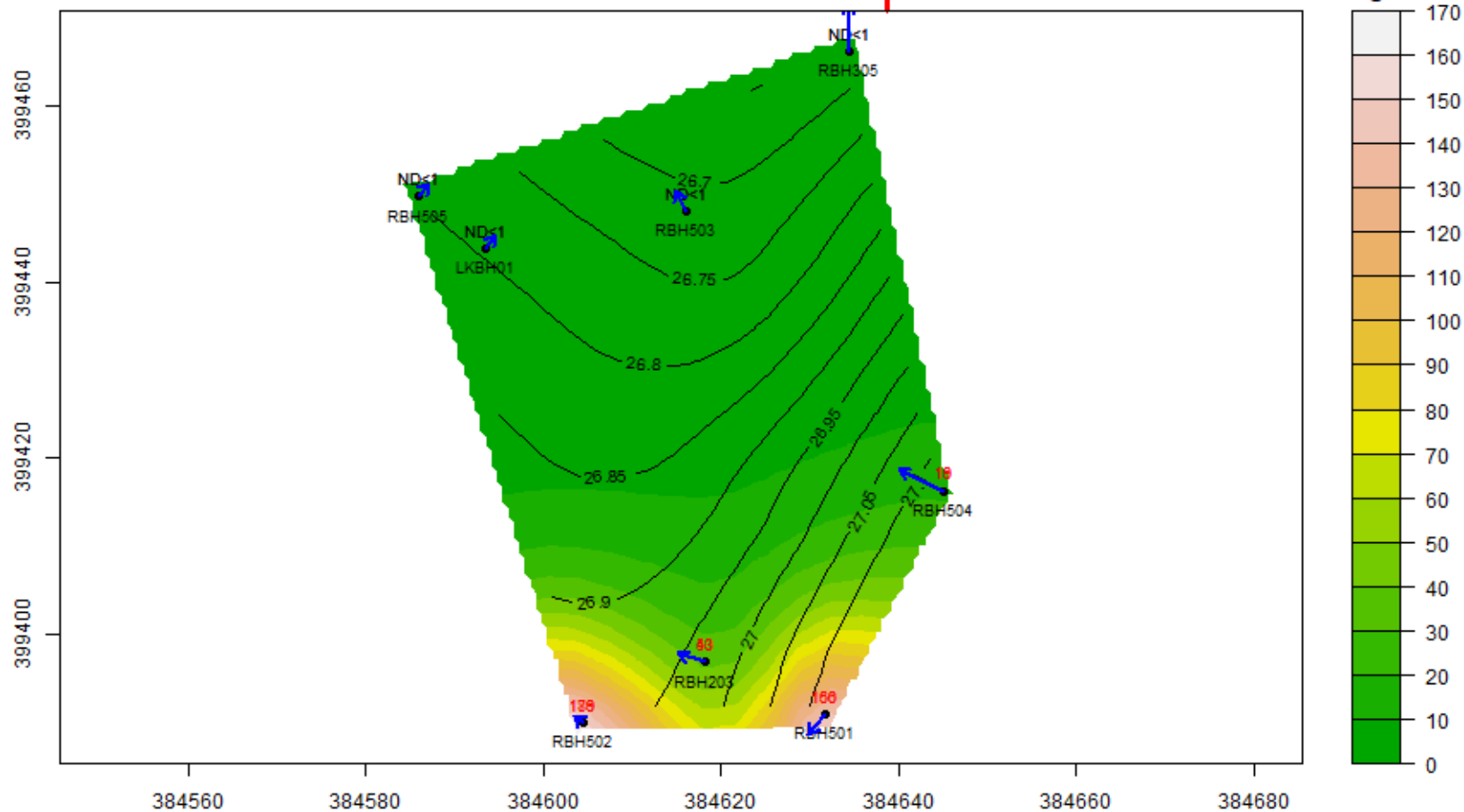
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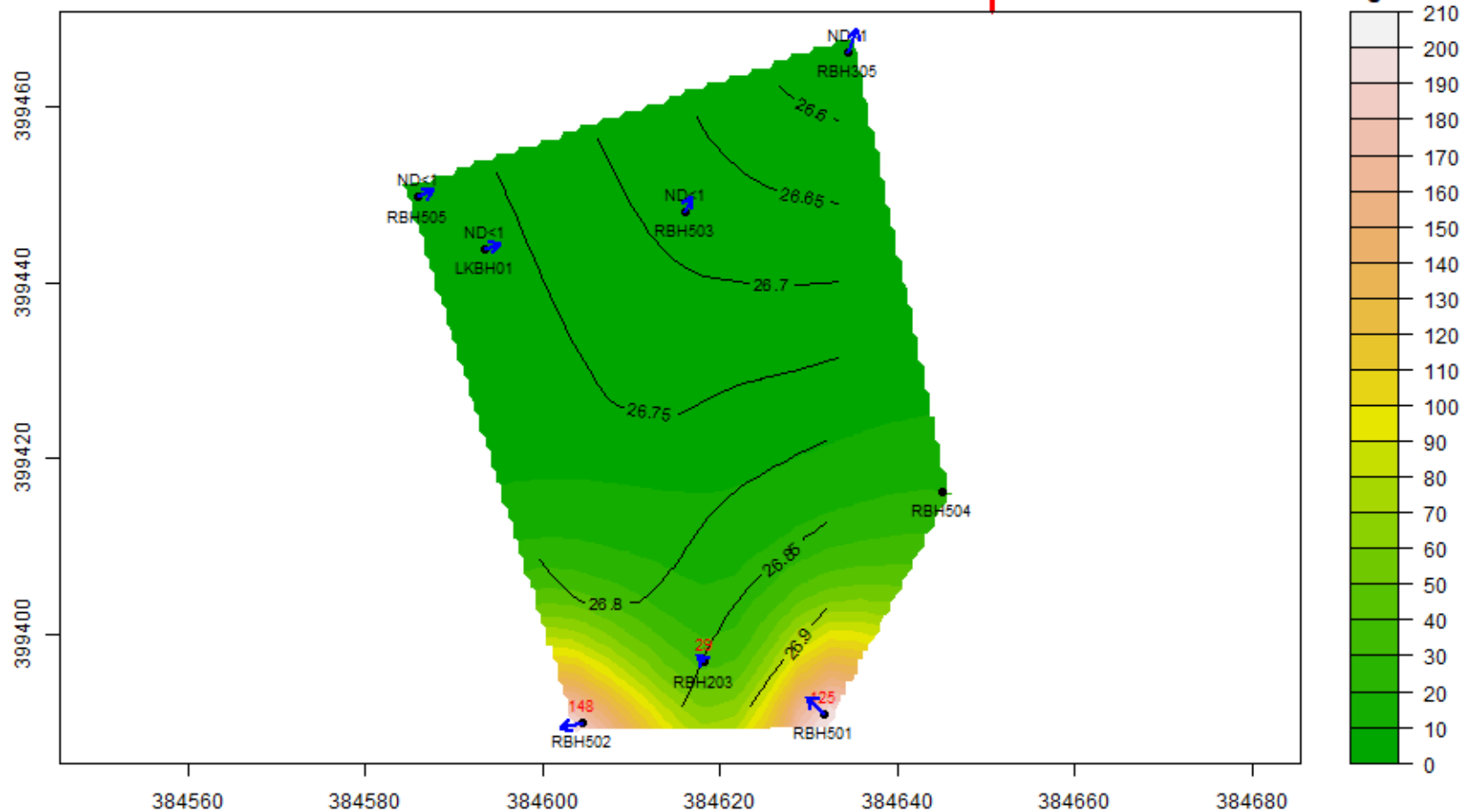
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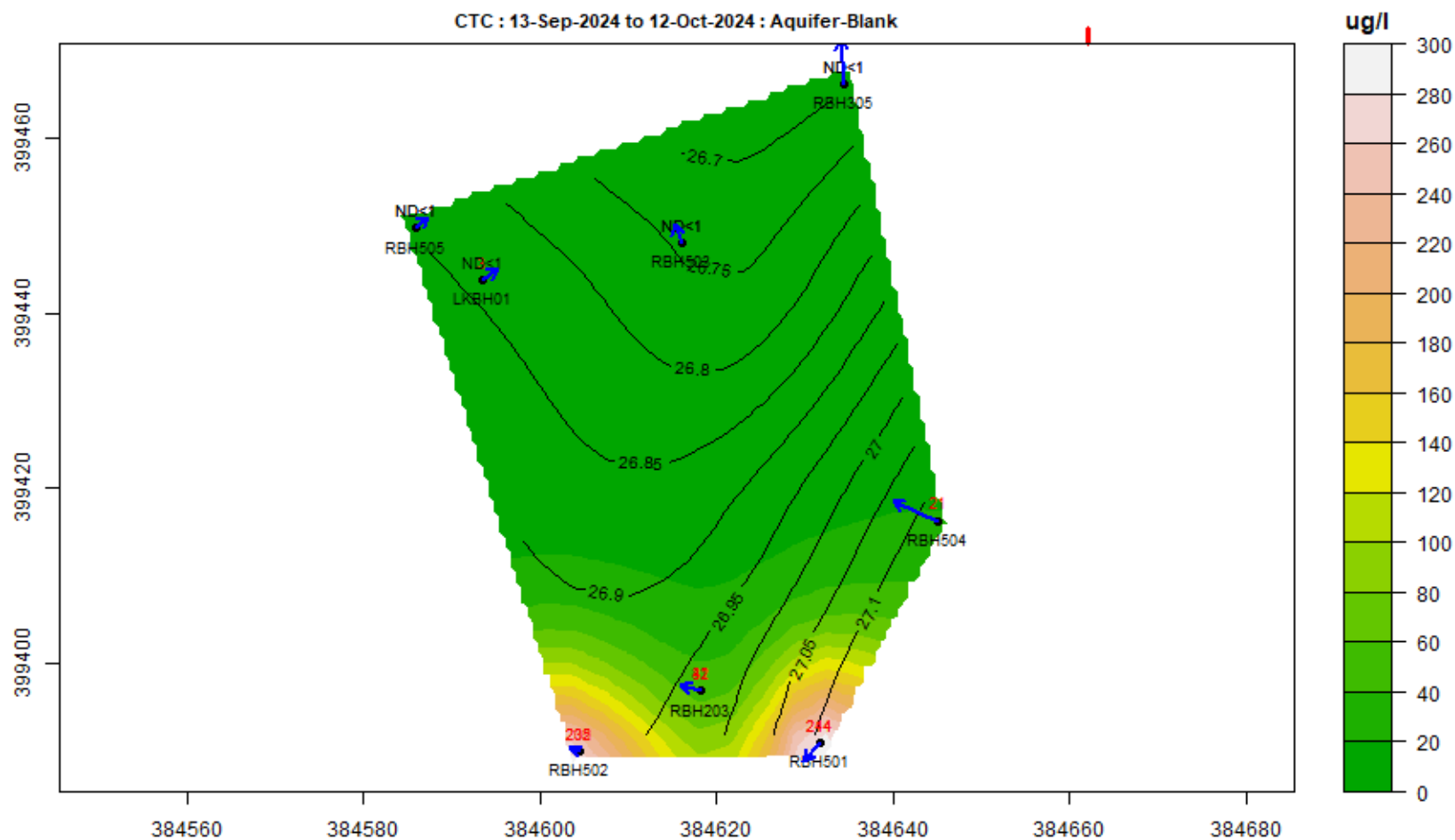


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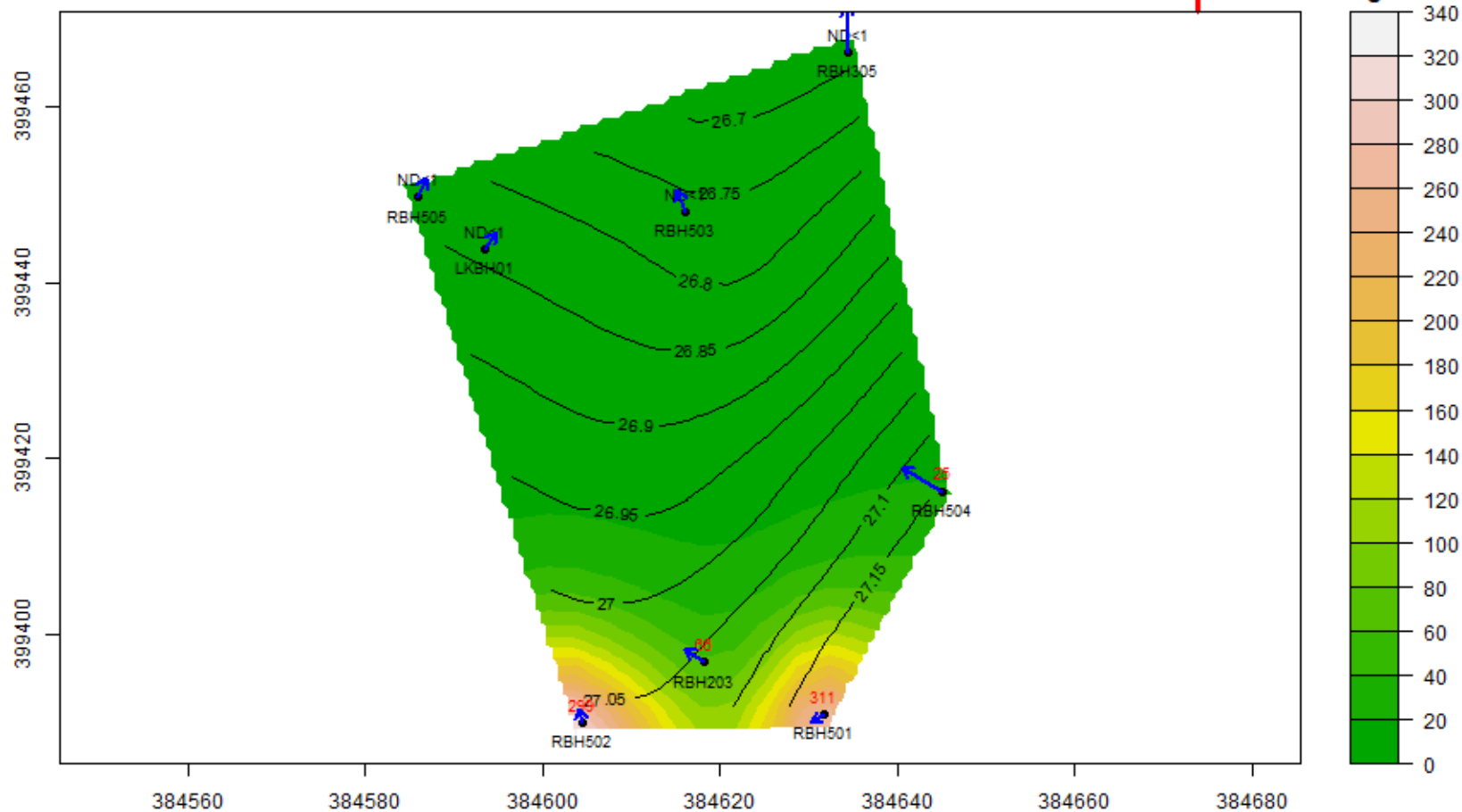


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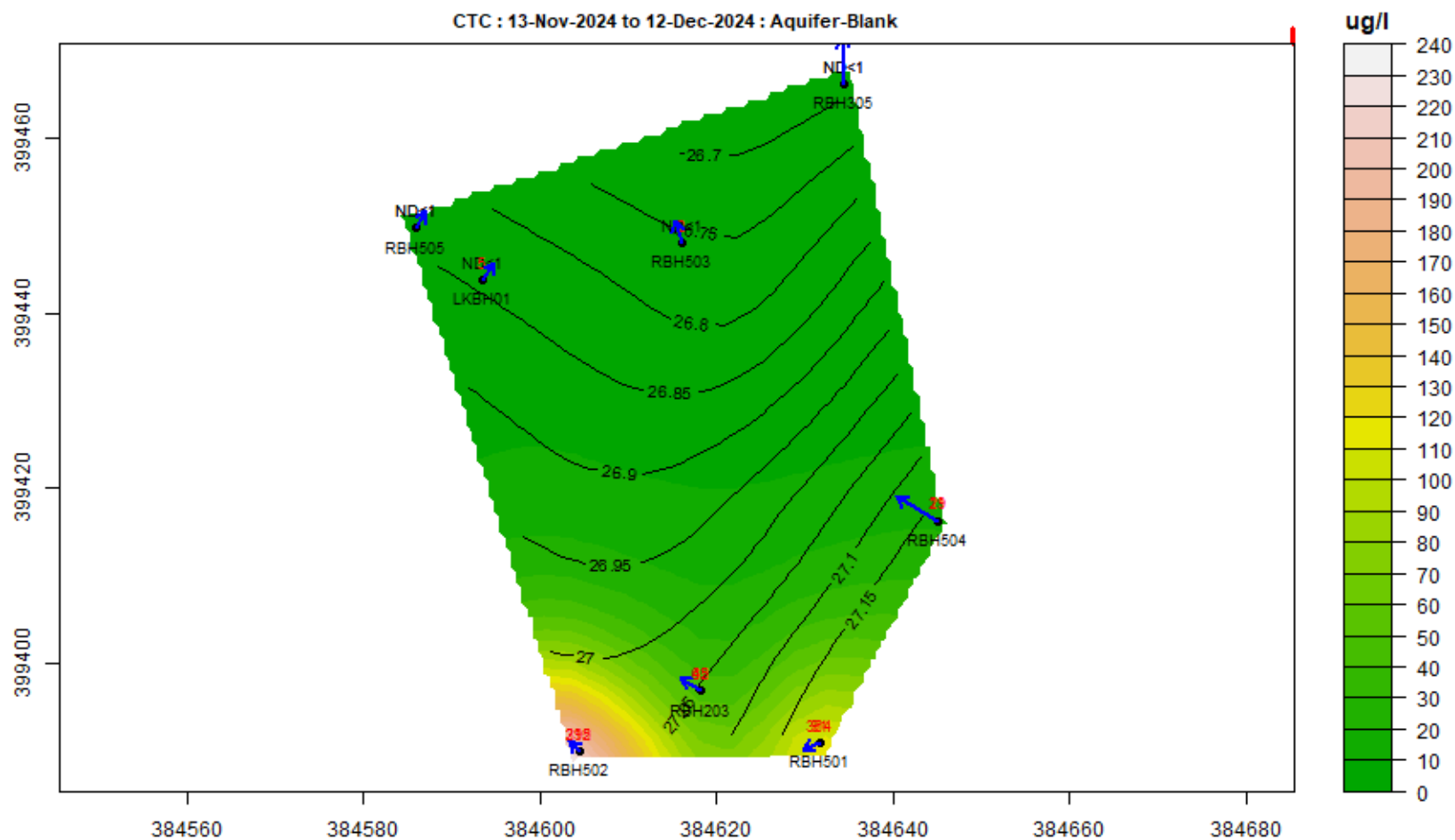




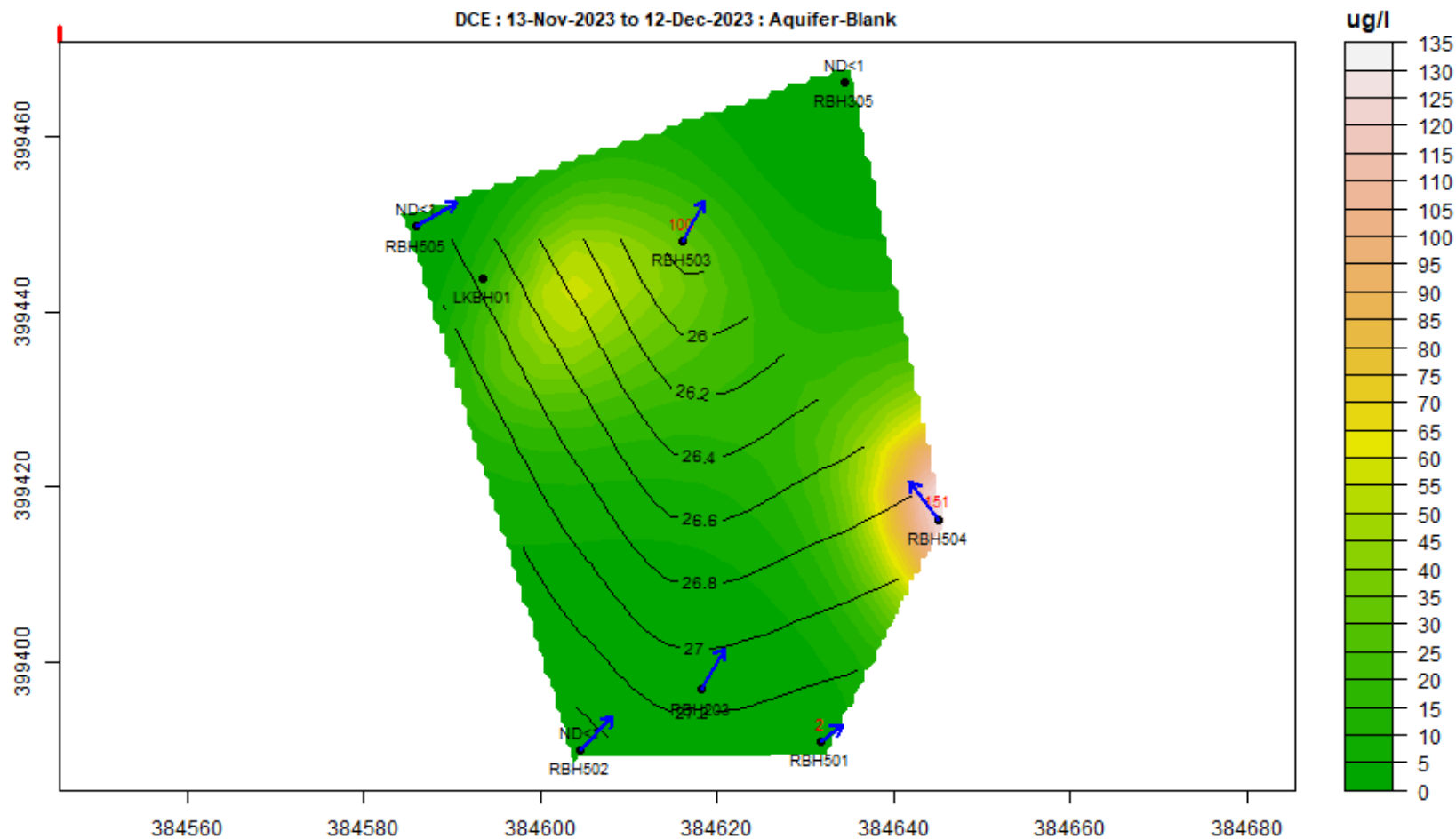
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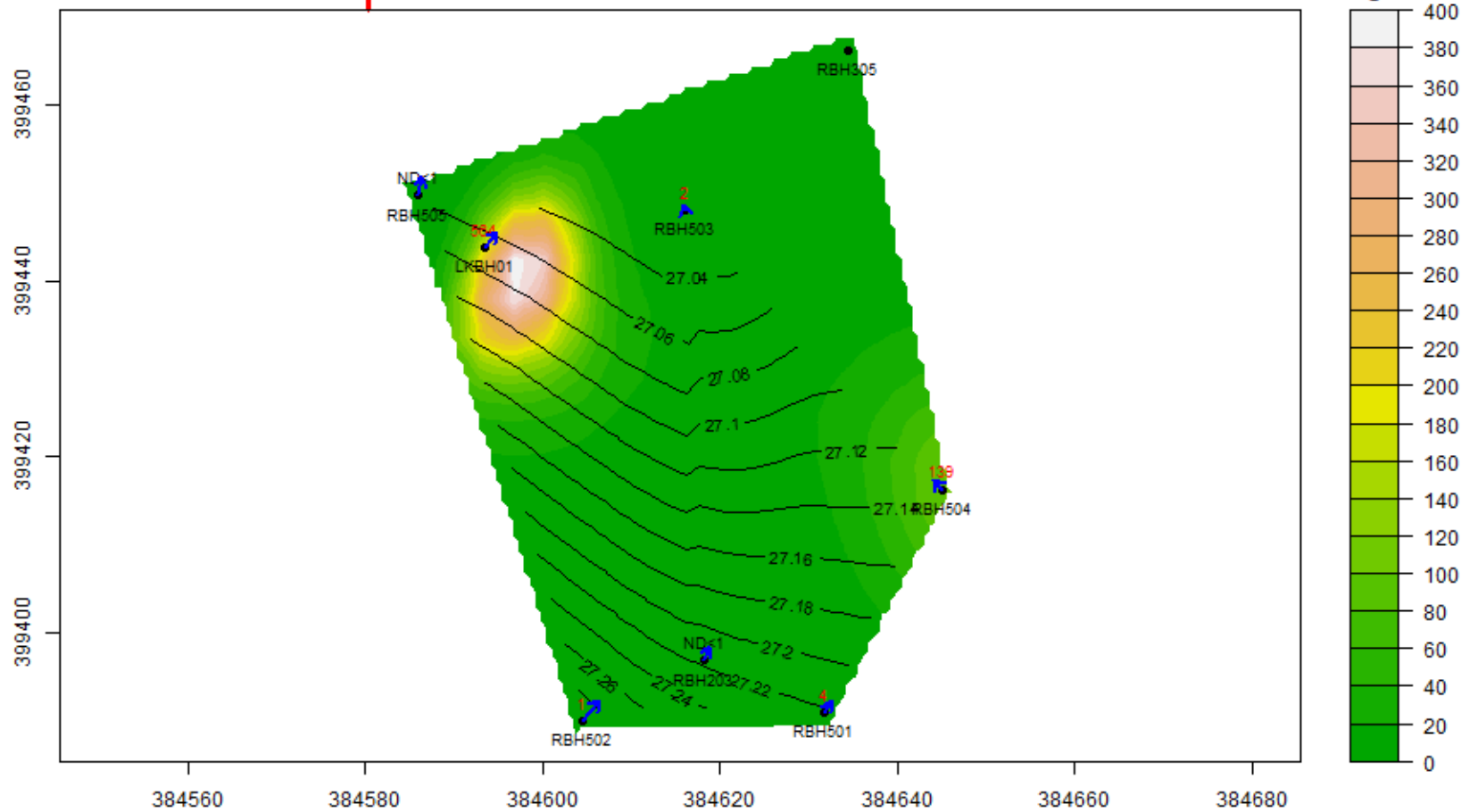
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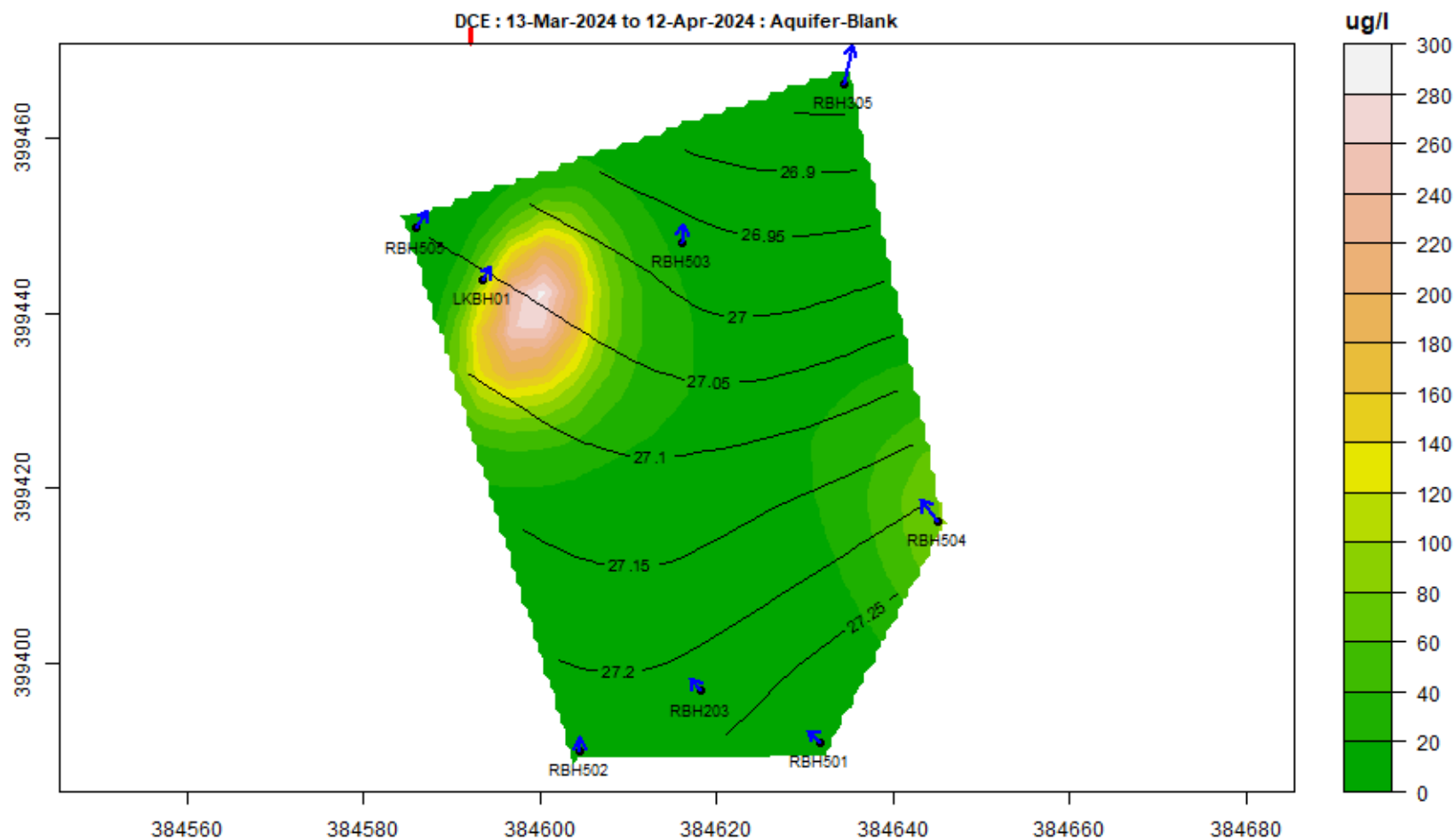


DCE : 13-Nov-2023 to 12-Dec-2023 : Aquifer-Blank

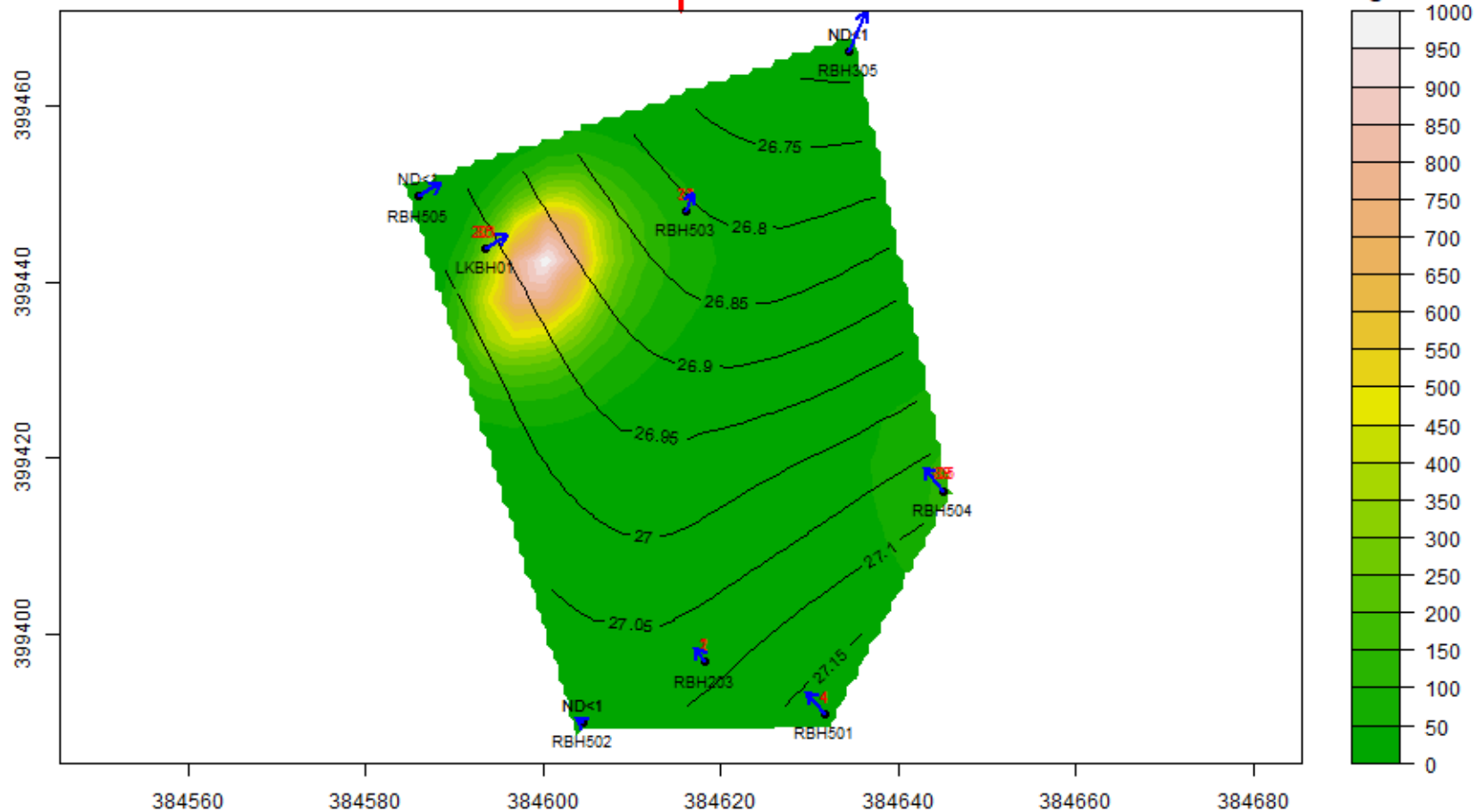


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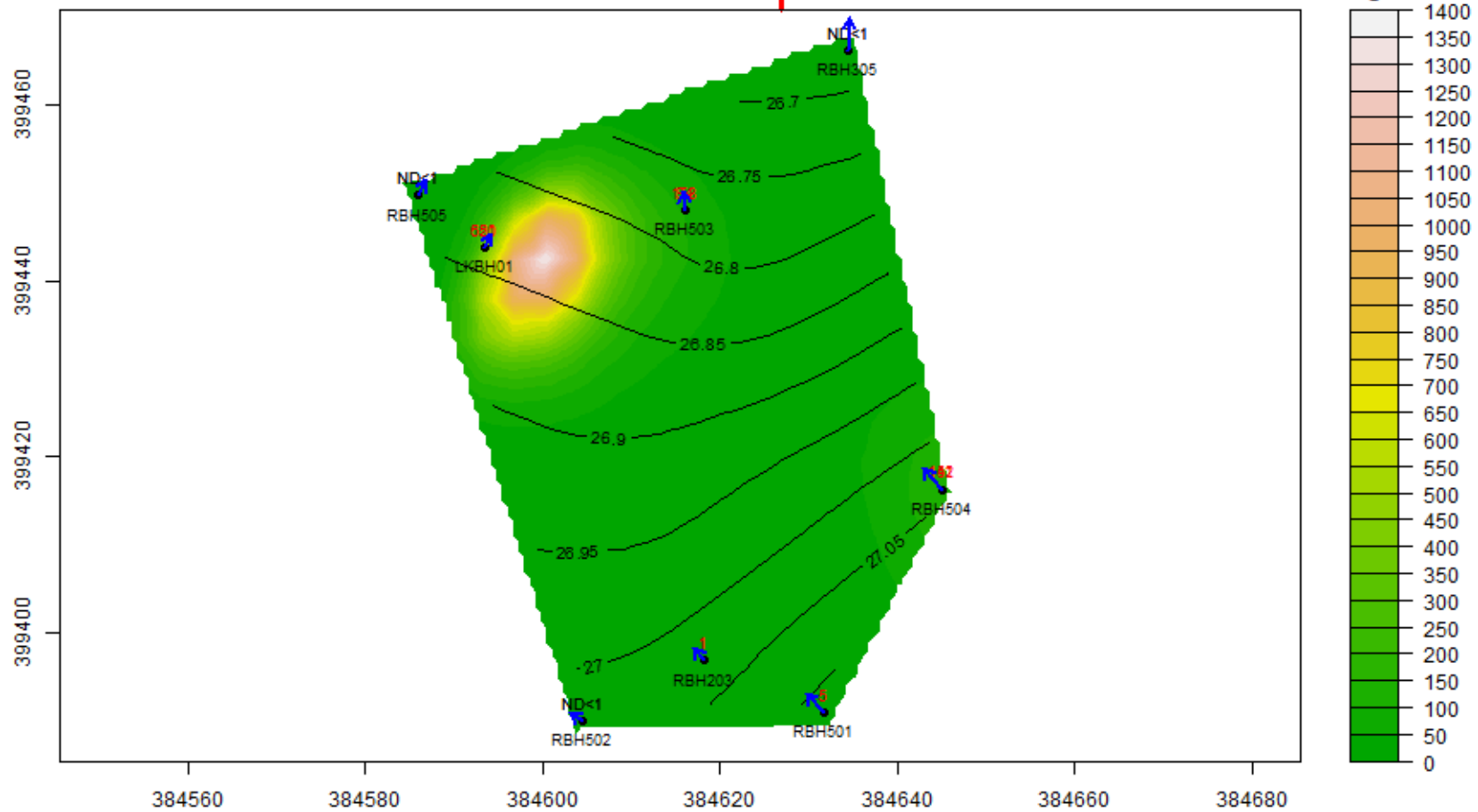


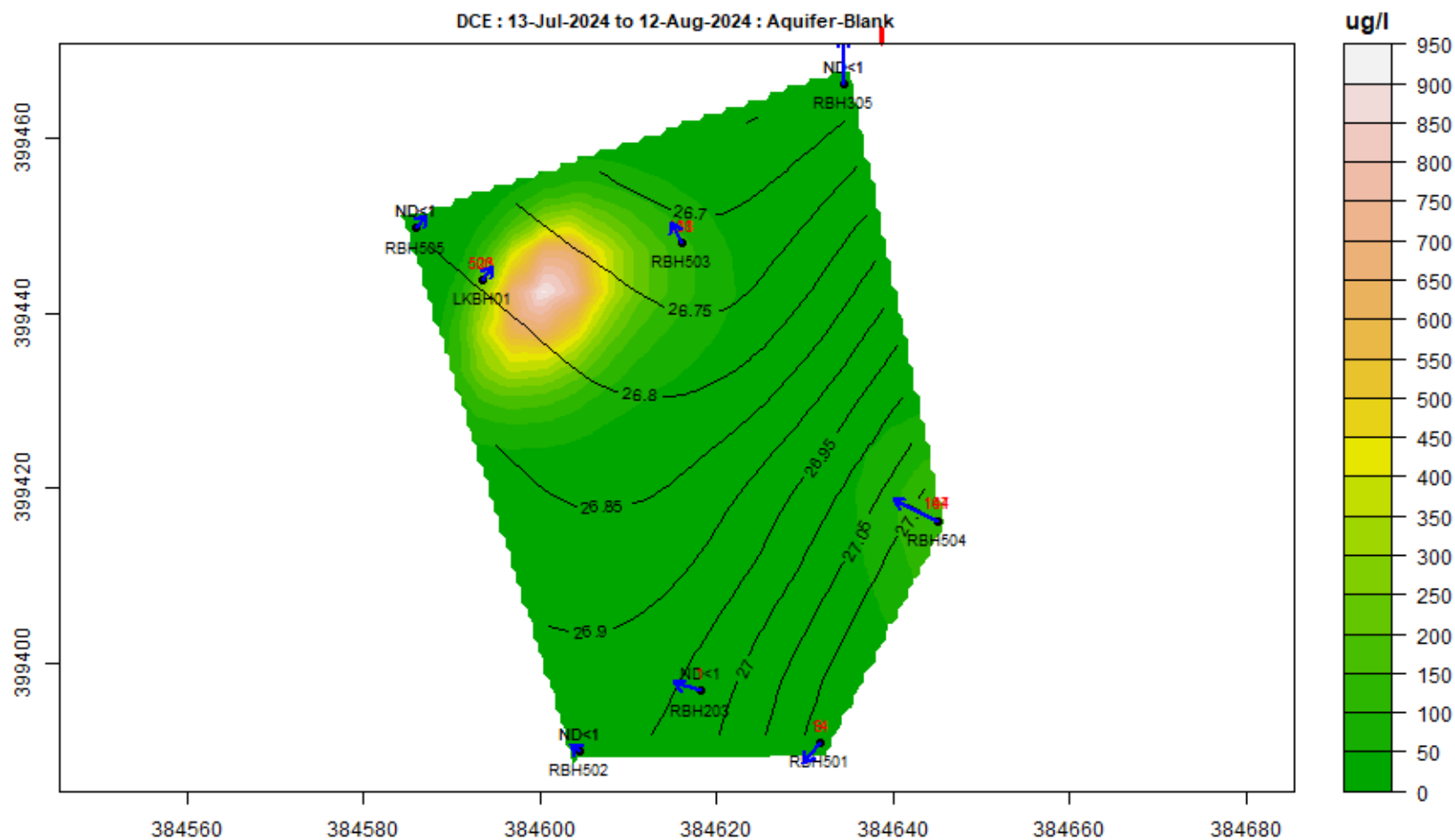


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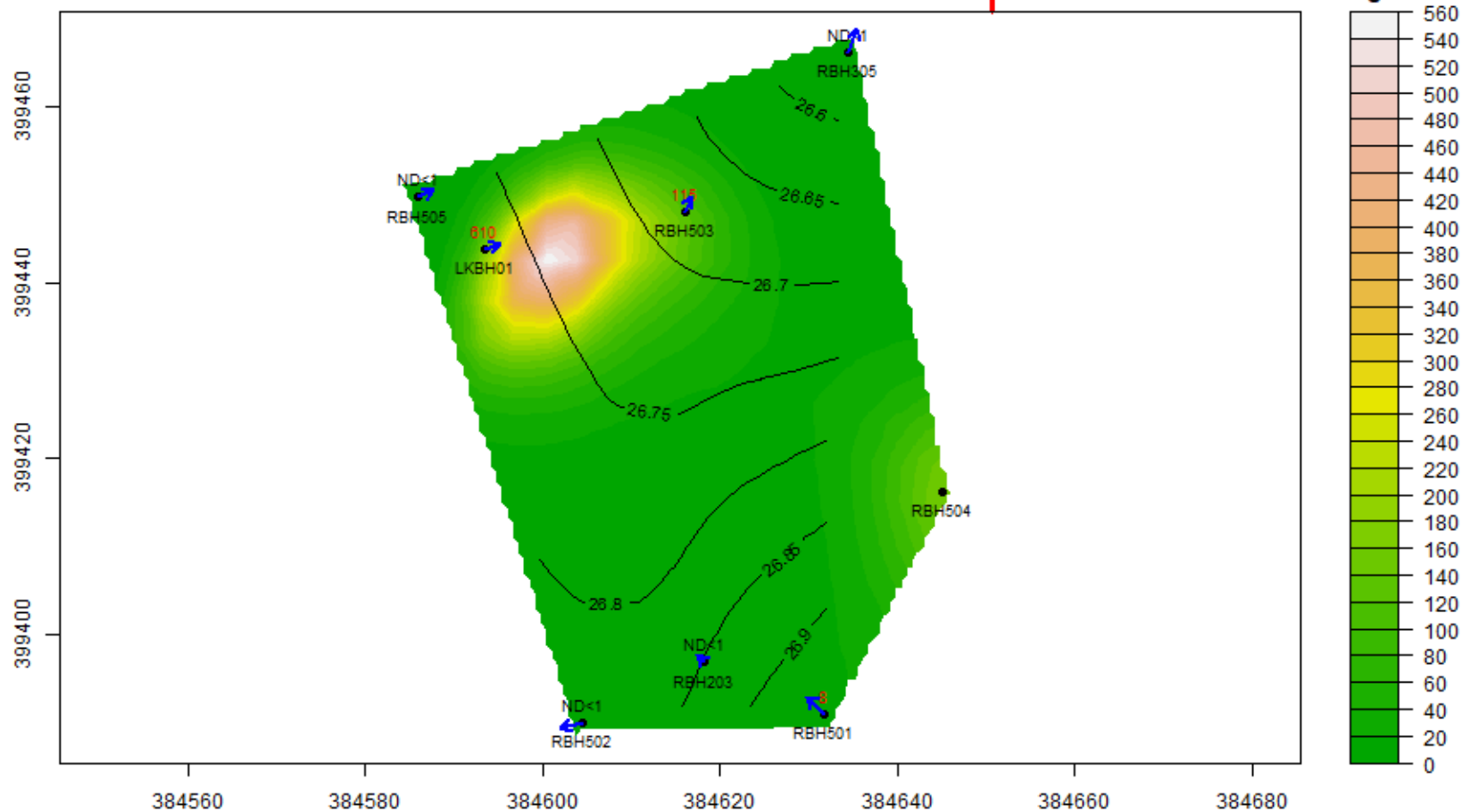


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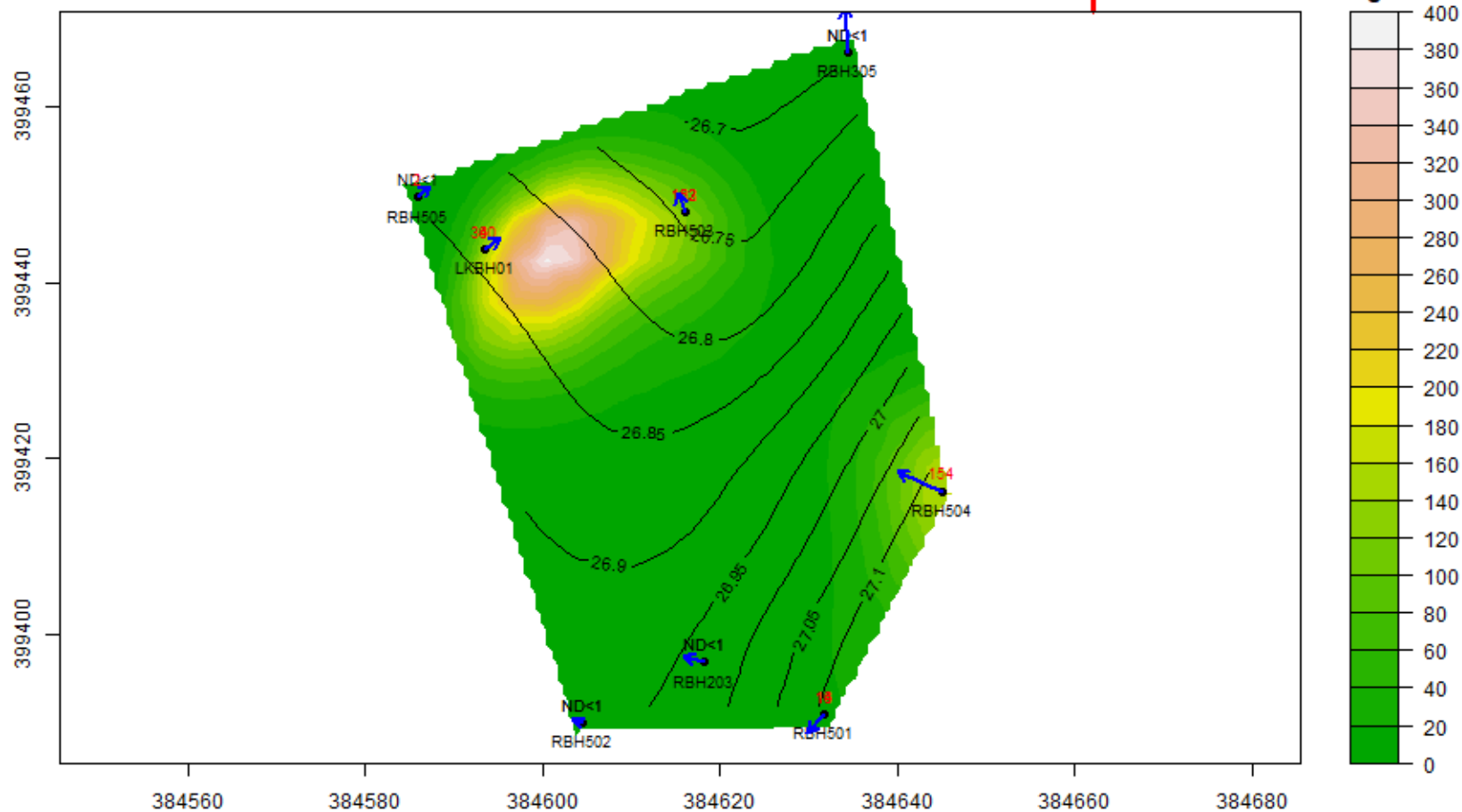




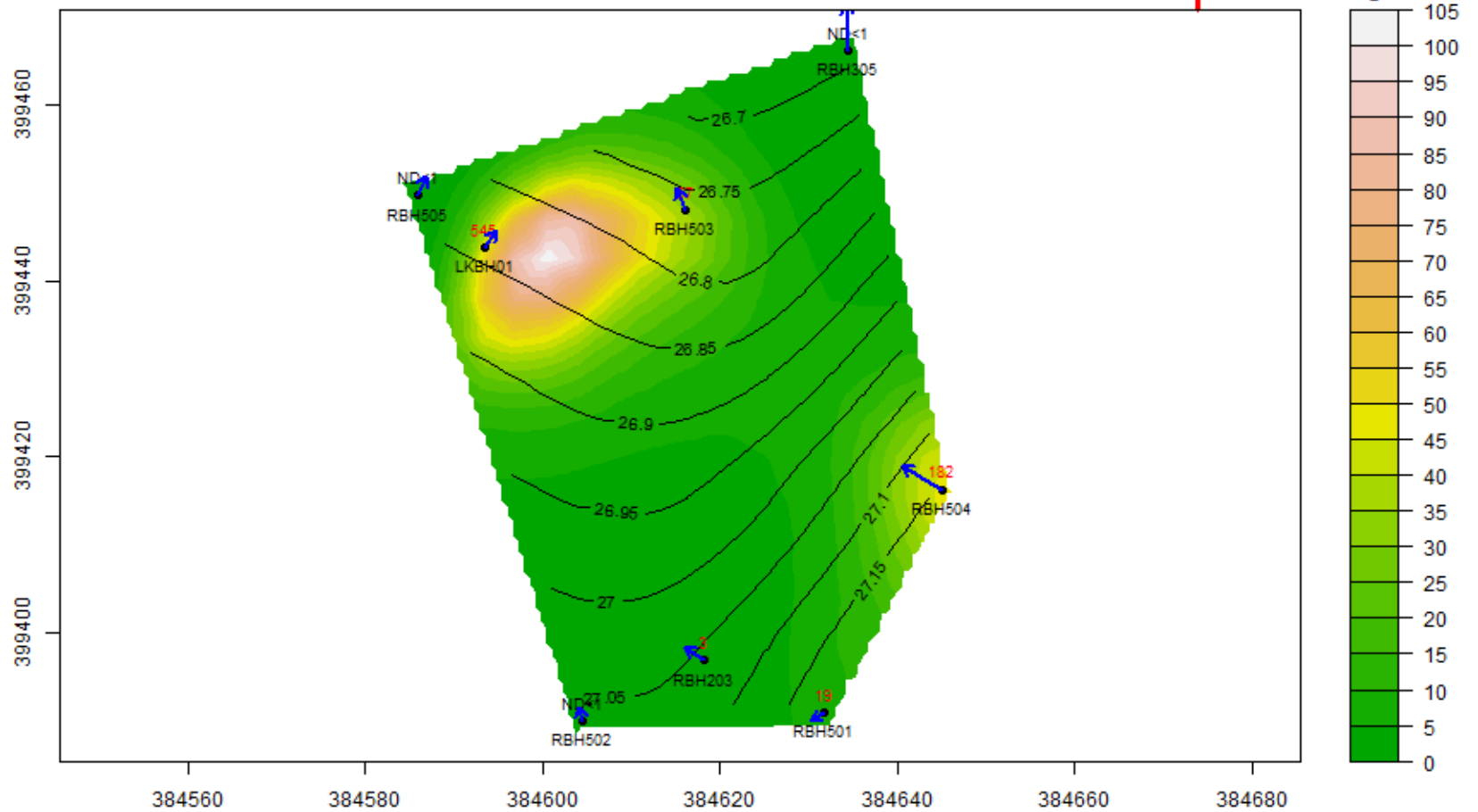
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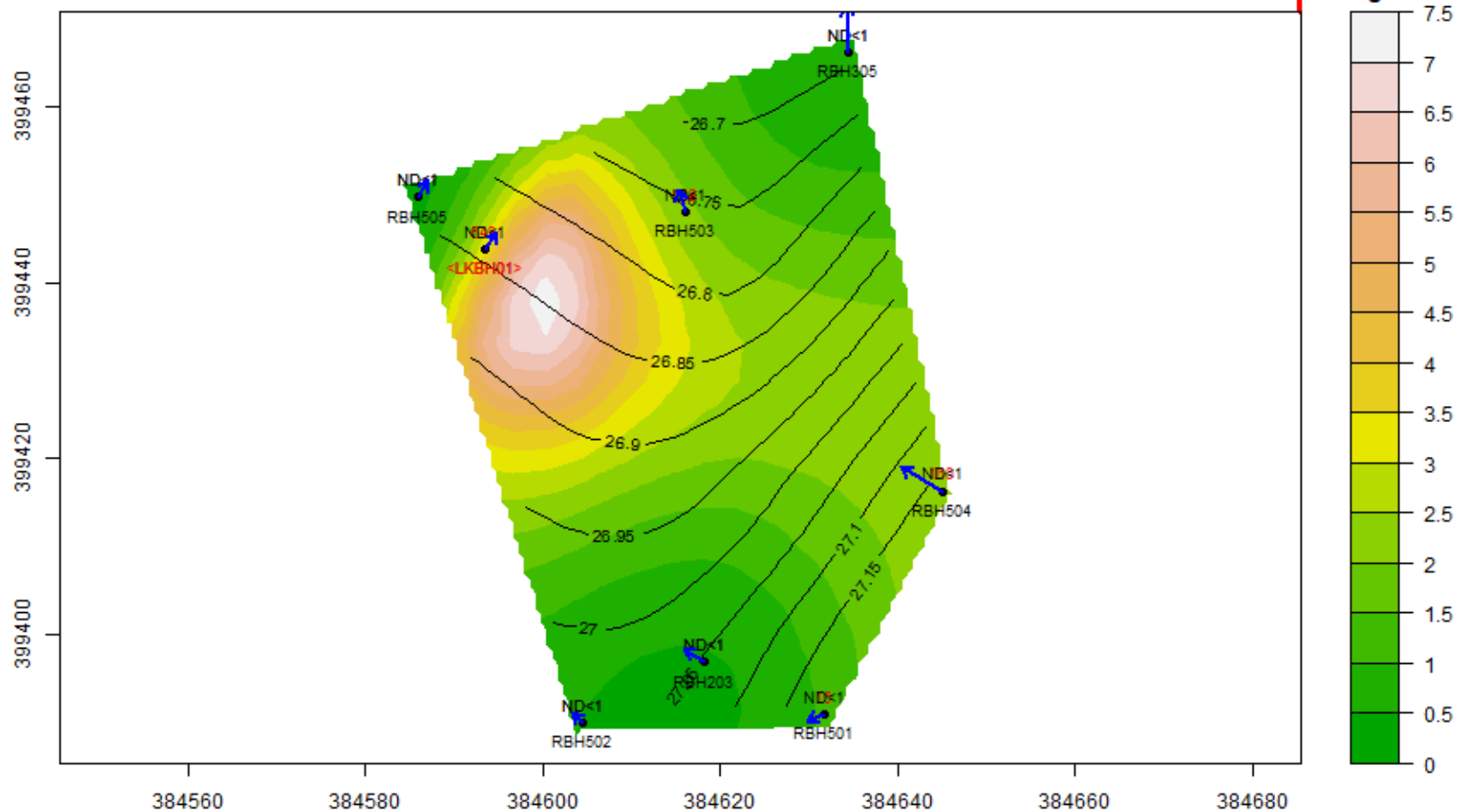
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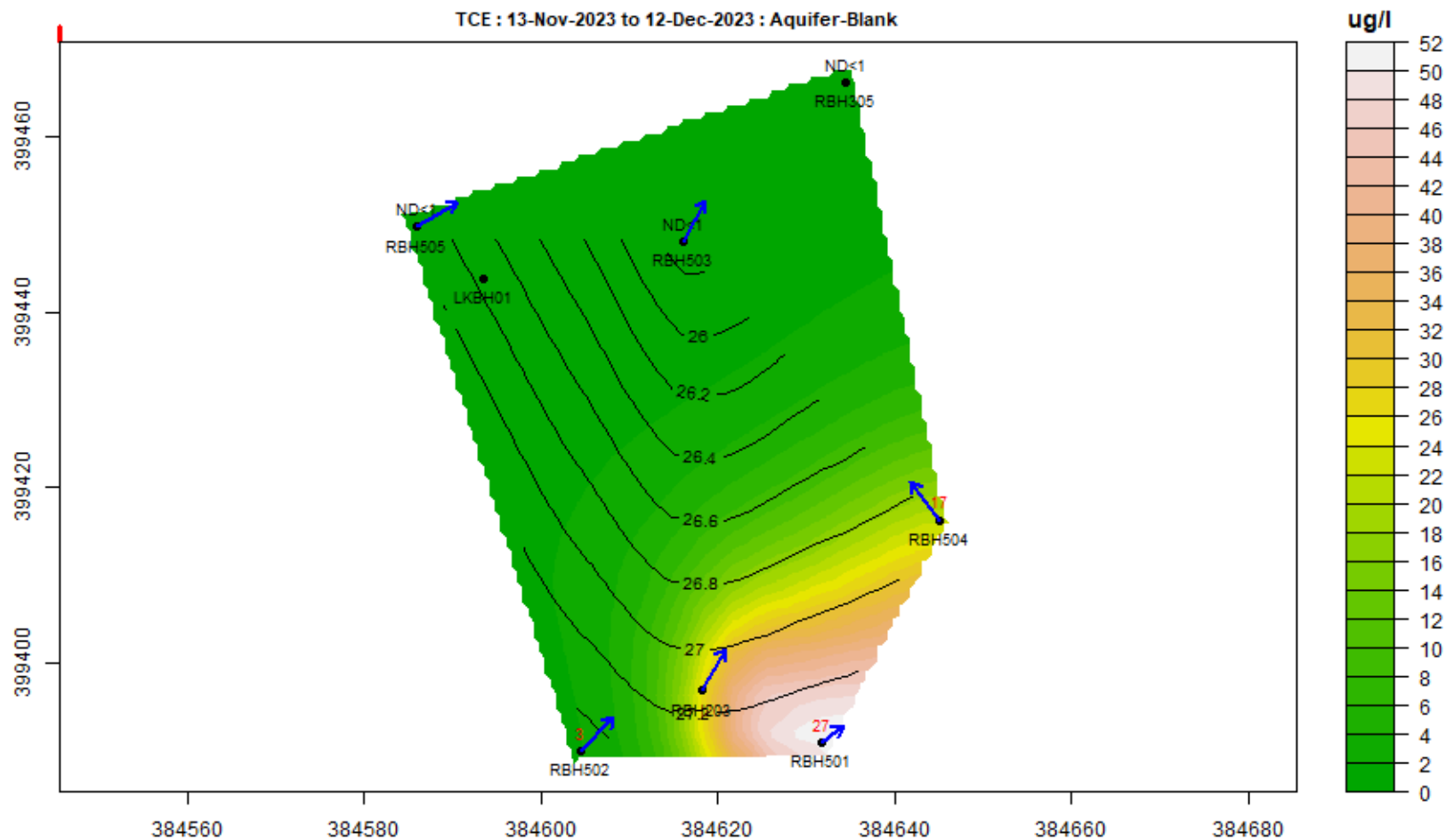
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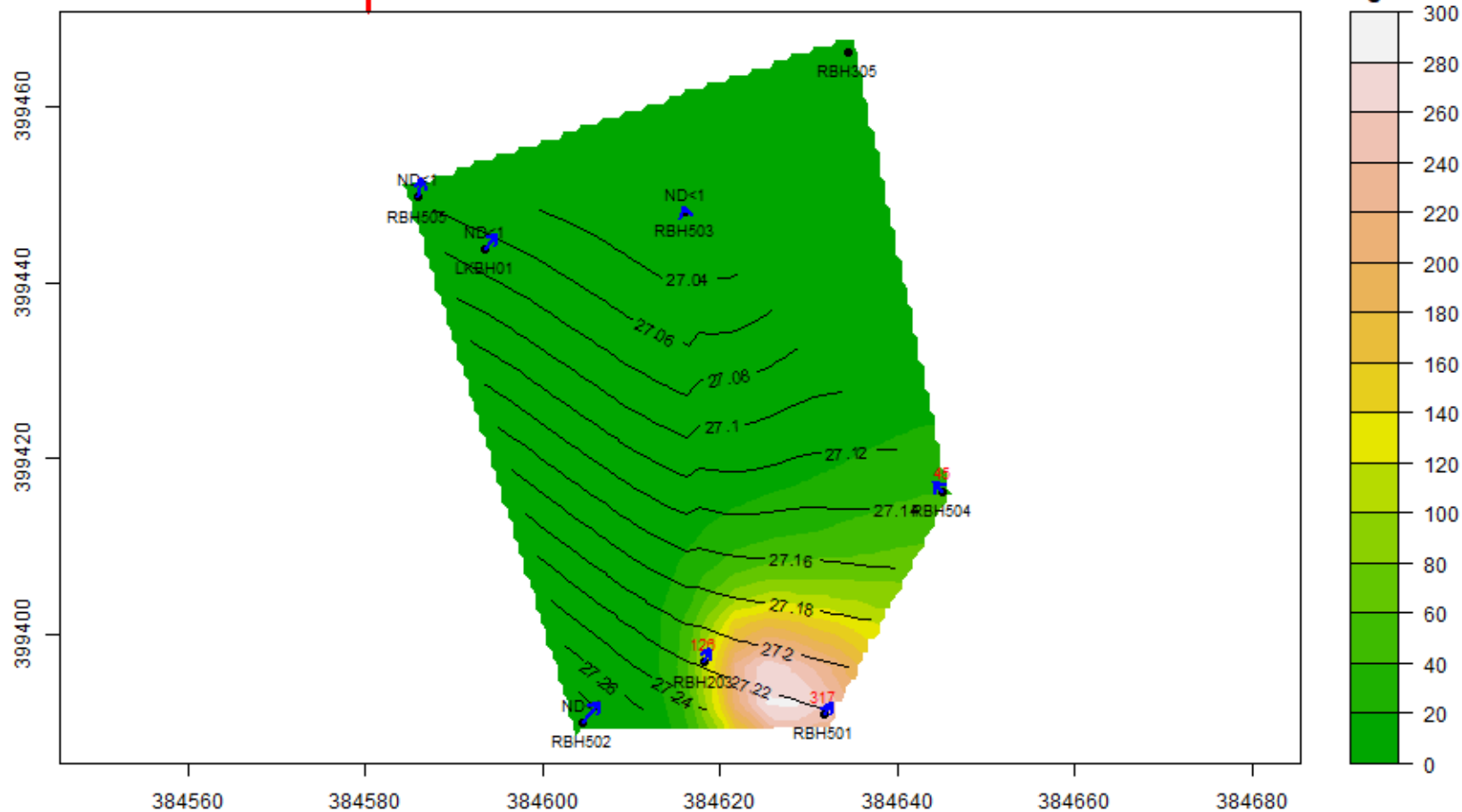
DCE : 13-Nov-2024 to 12-Dec-2024 : Aquifer-Blank

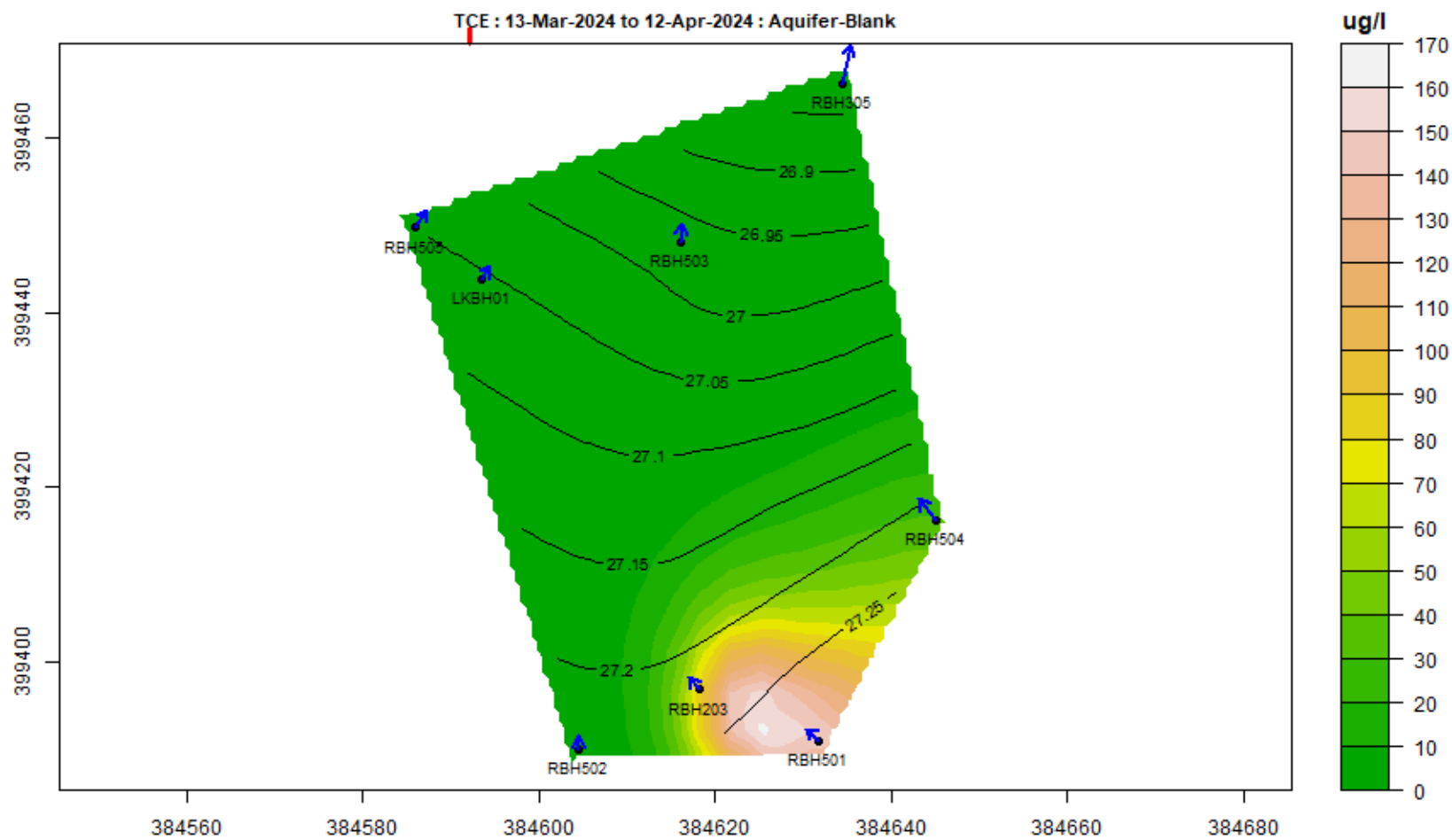


TCE : 13-Nov-2023 to 12-Dec-2023 : Aquifer-Blank

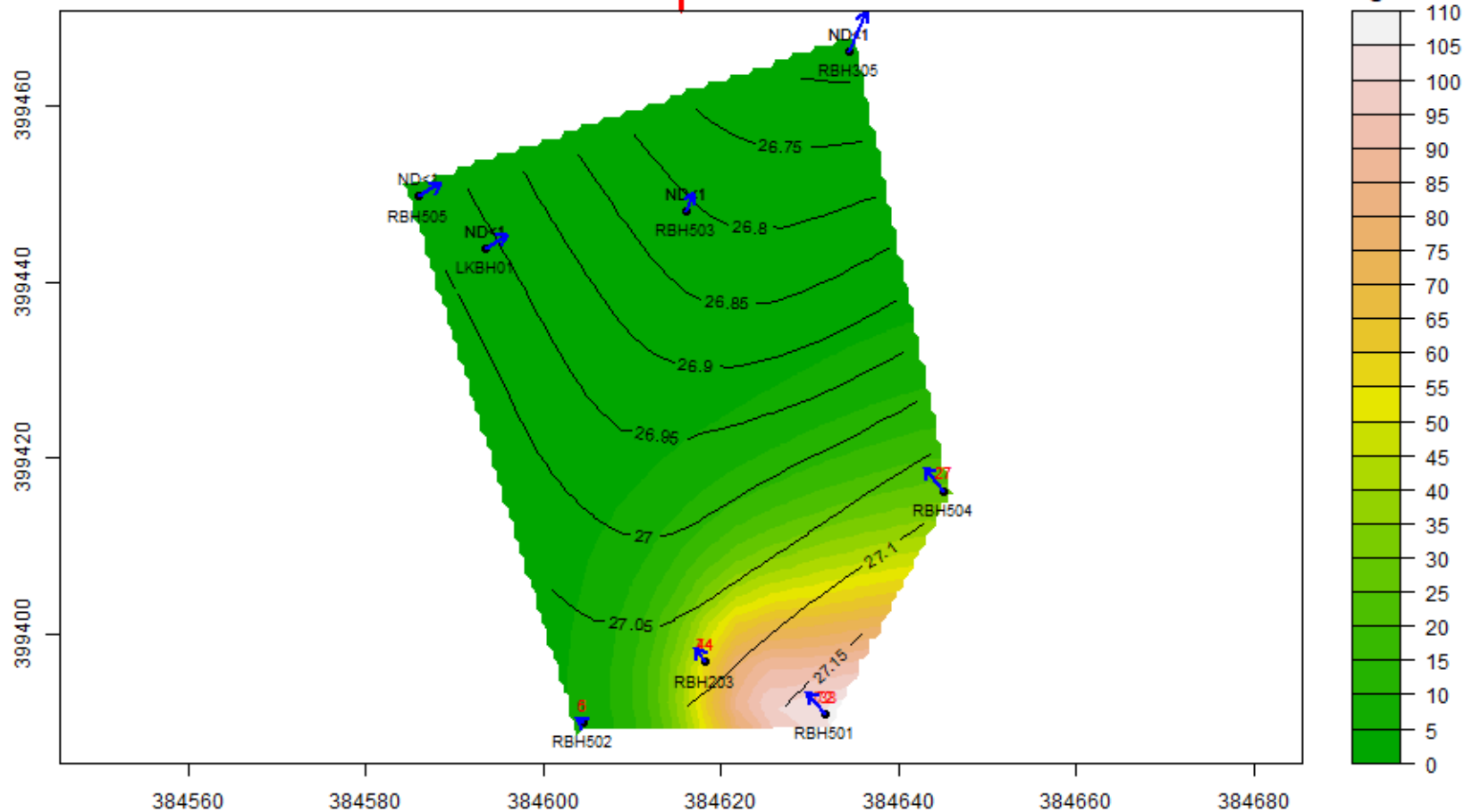


TCE : 13-Feb-2024 to 12-Mar-2024 : Aquifer-Blank

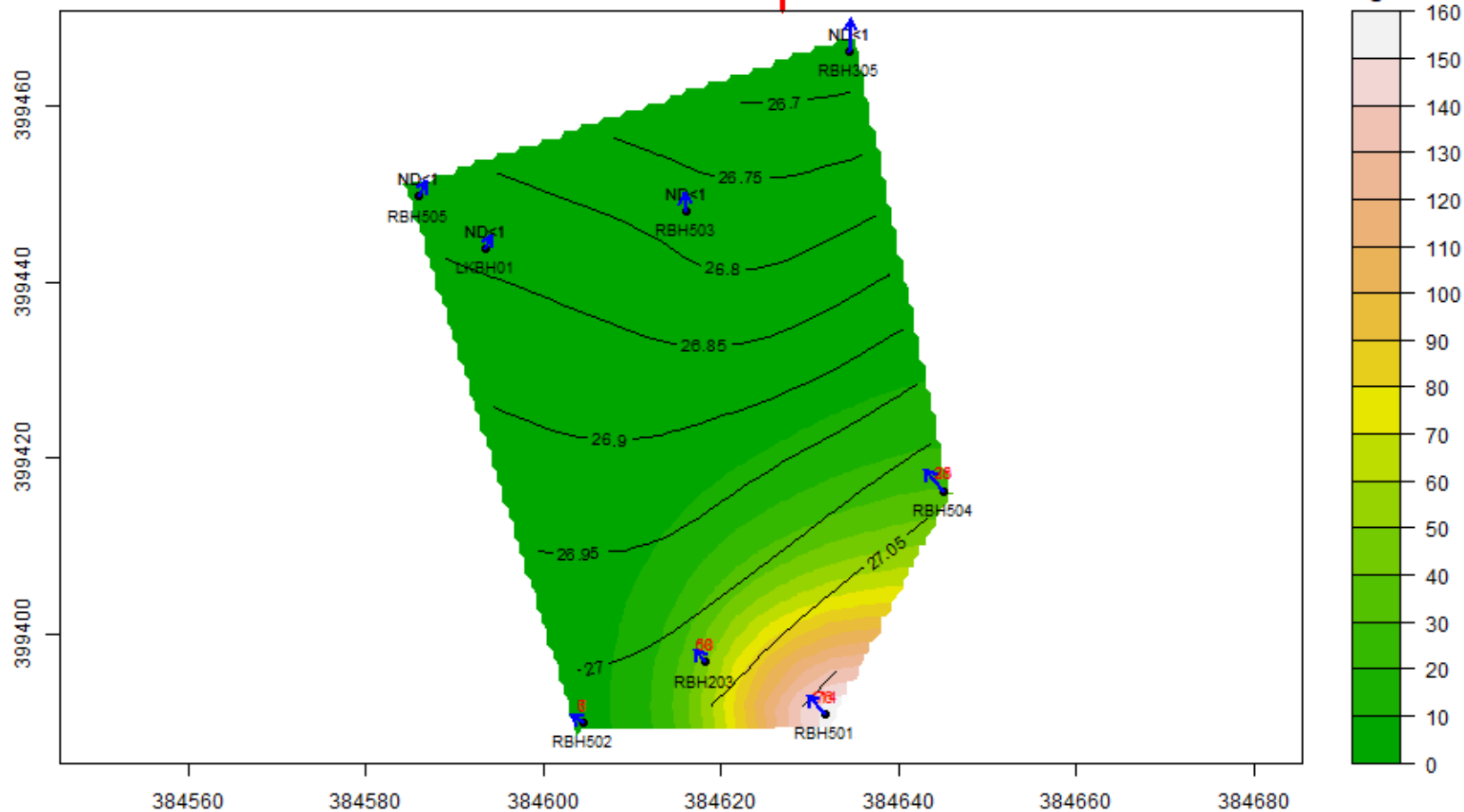




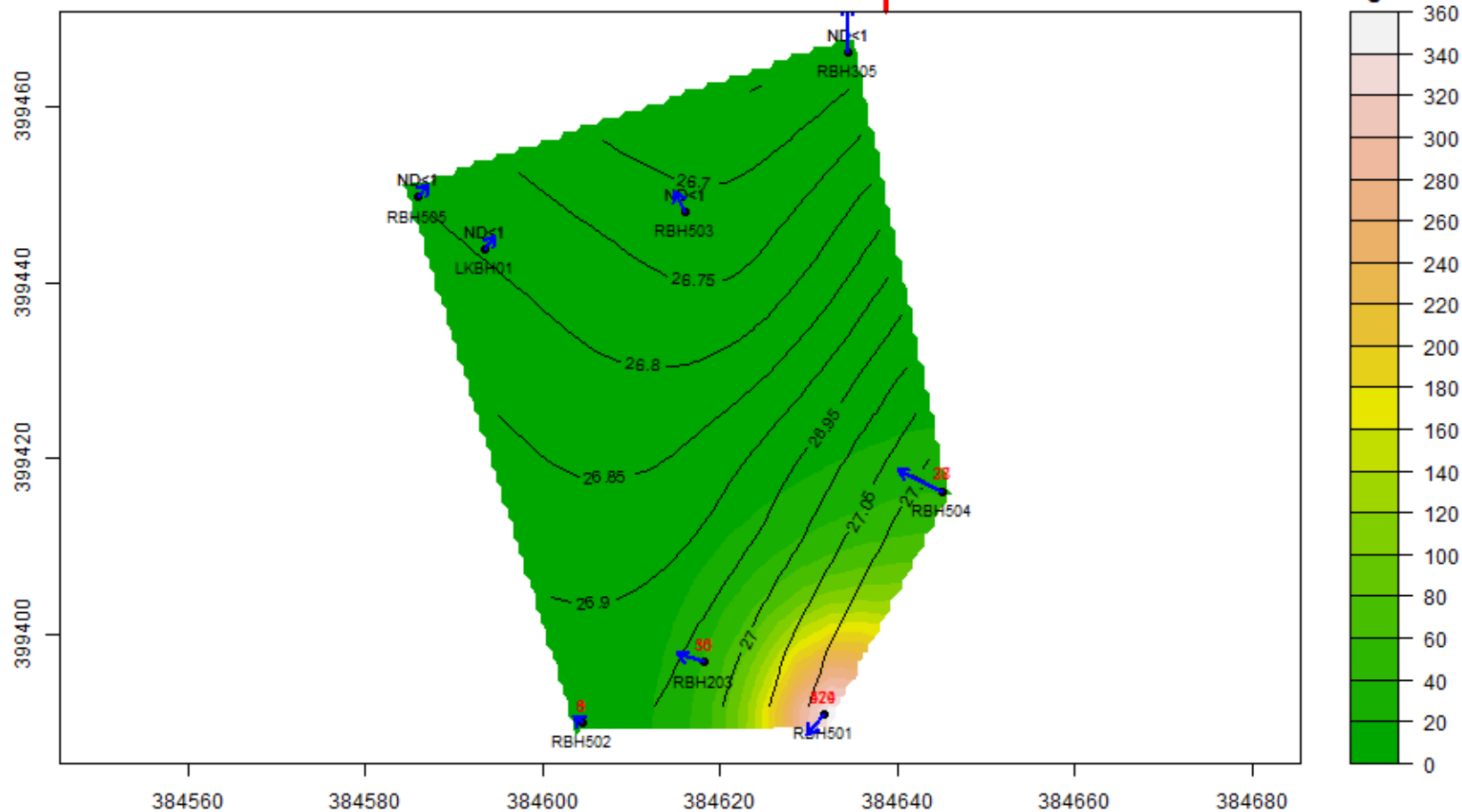
TCE : 13-May-2024 to 12-Jun-2024 : Aquifer-Blank



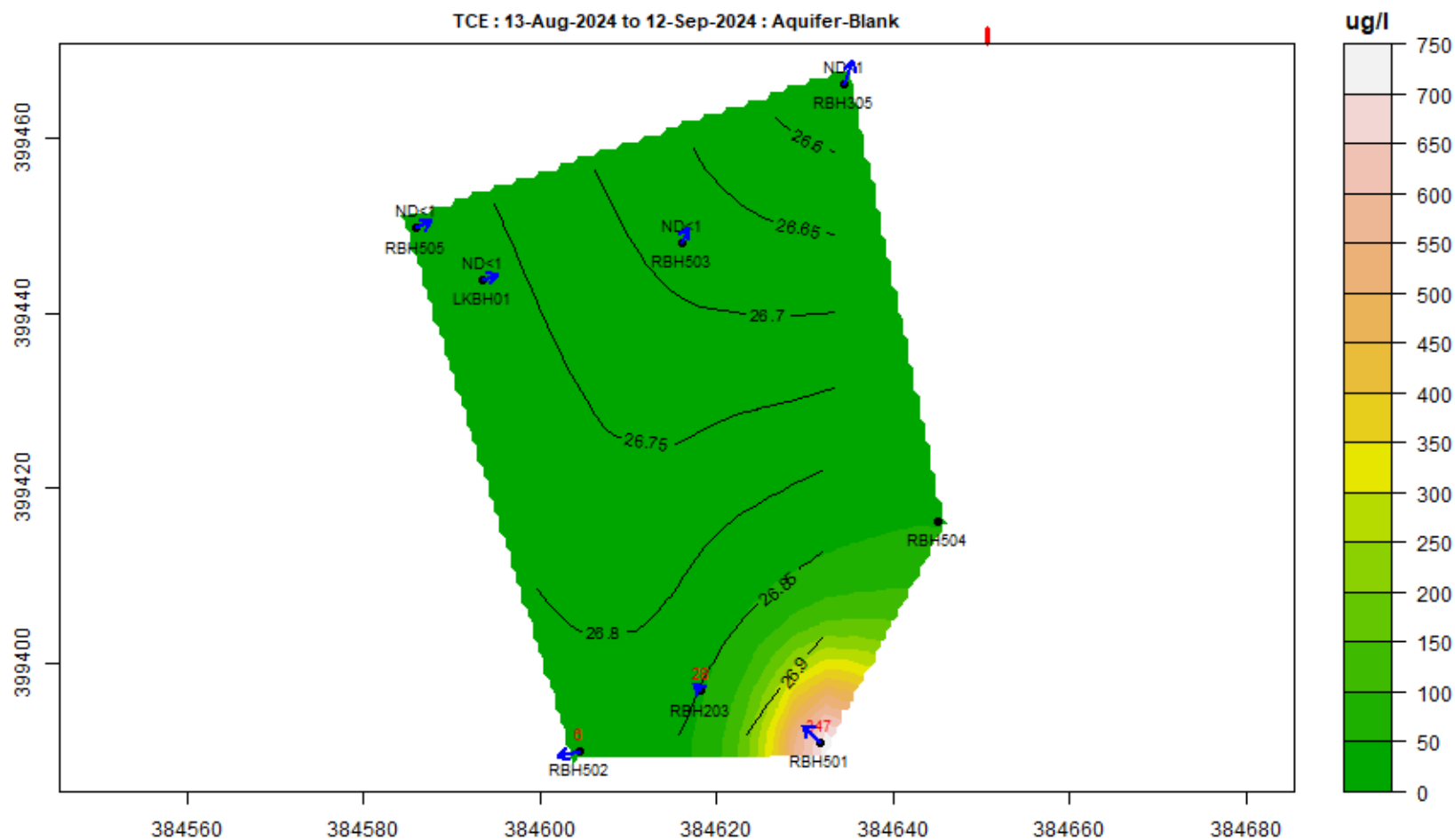
TCE : 13-Jun-2024 to 12-Jul-2024 : Aquifer-Blank



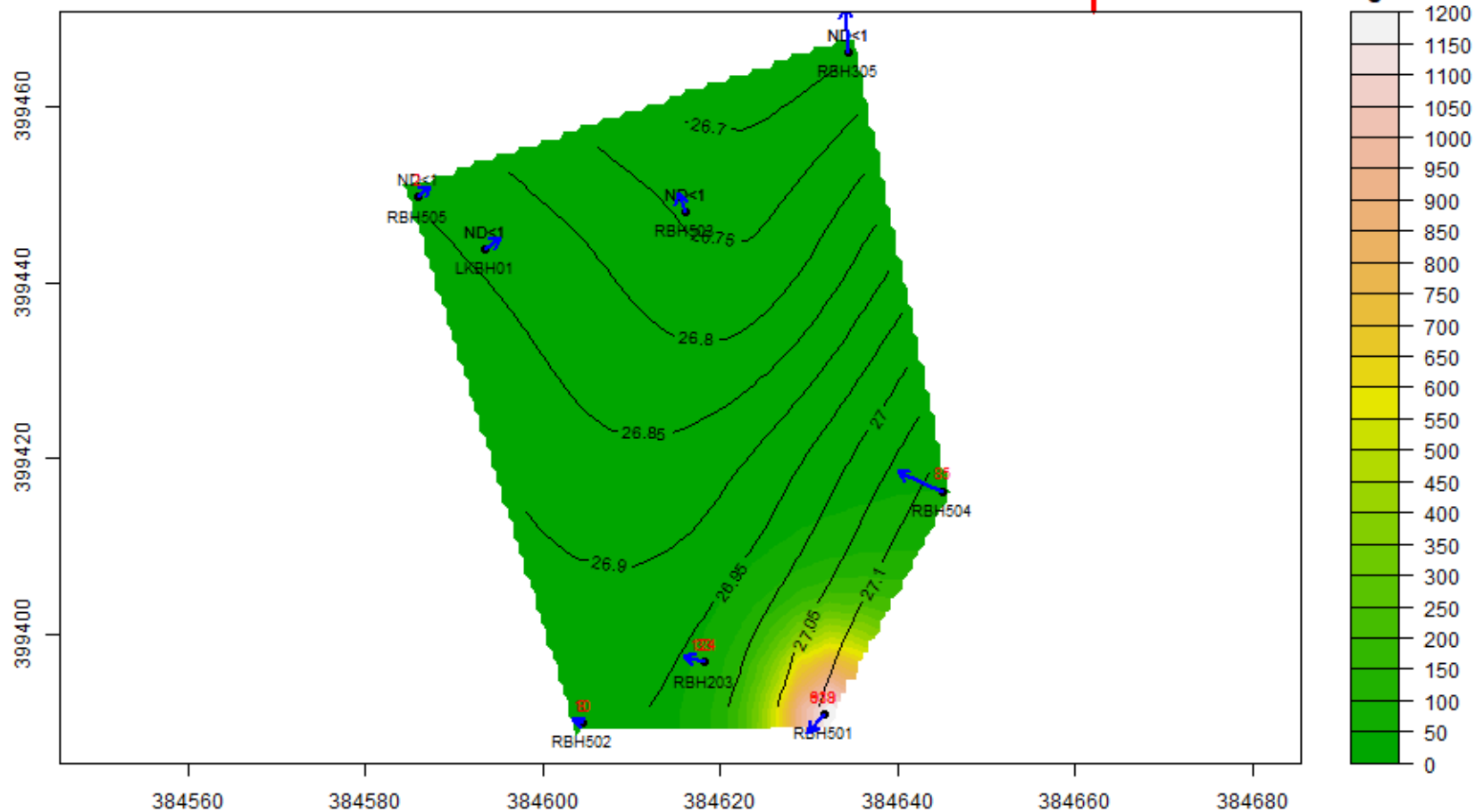
TCE : 13-Jul-2024 to 12-Aug-2024 : Aquifer-Blank



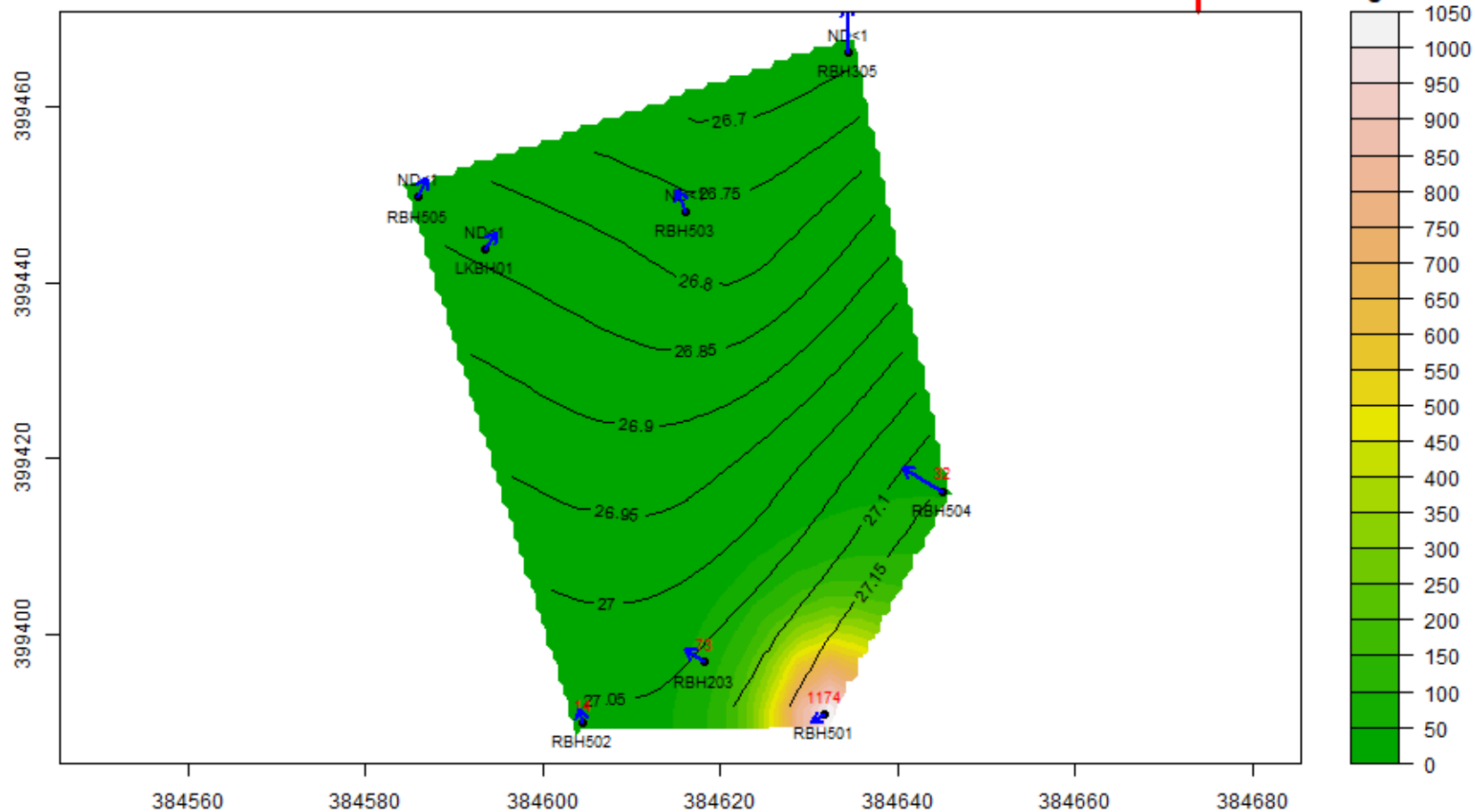
TCE : 13-Aug-2024 to 12-Sep-2024 : Aquifer-Blank



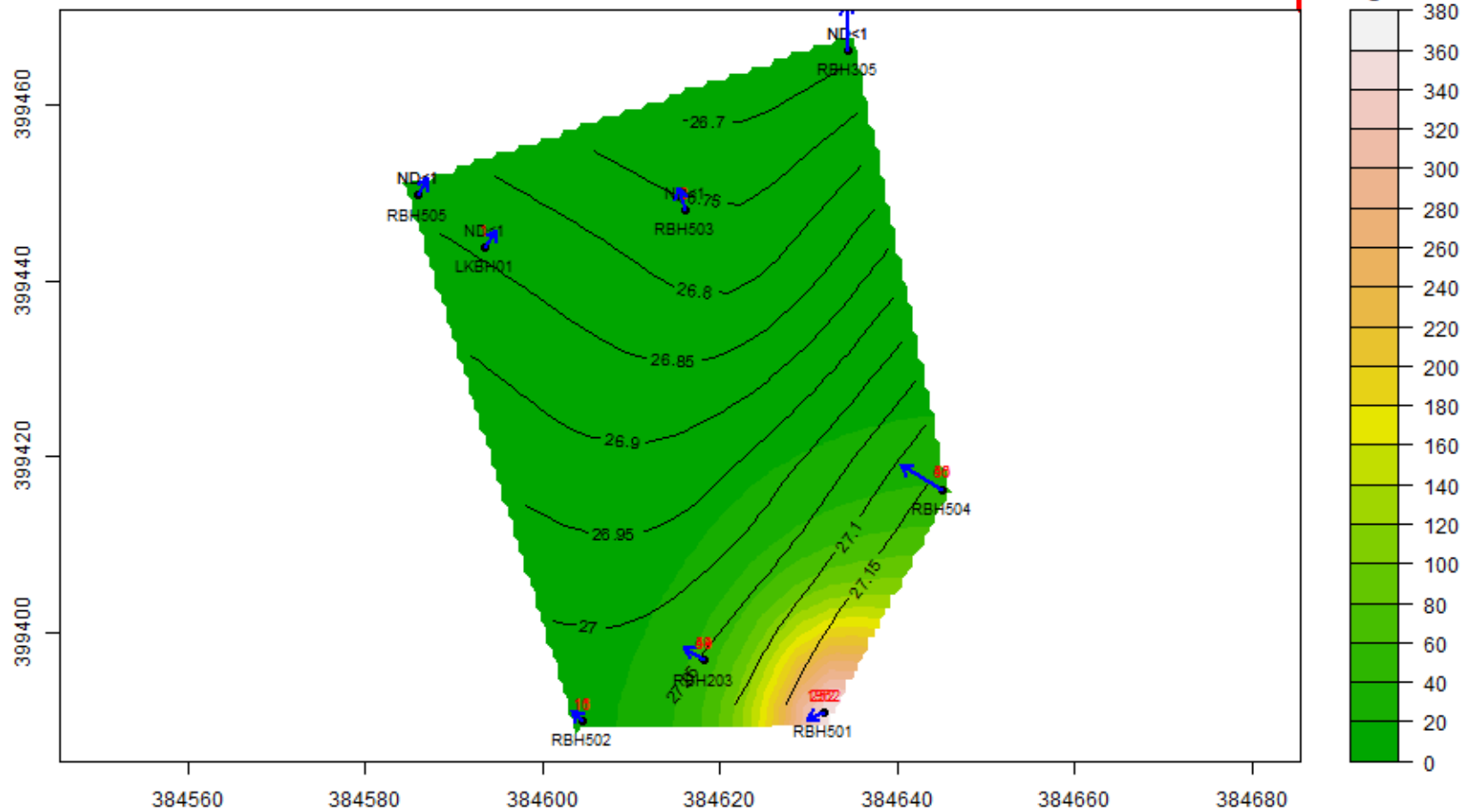
TCE : 13-Sep-2024 to 12-Oct-2024 : Aquifer-Blank



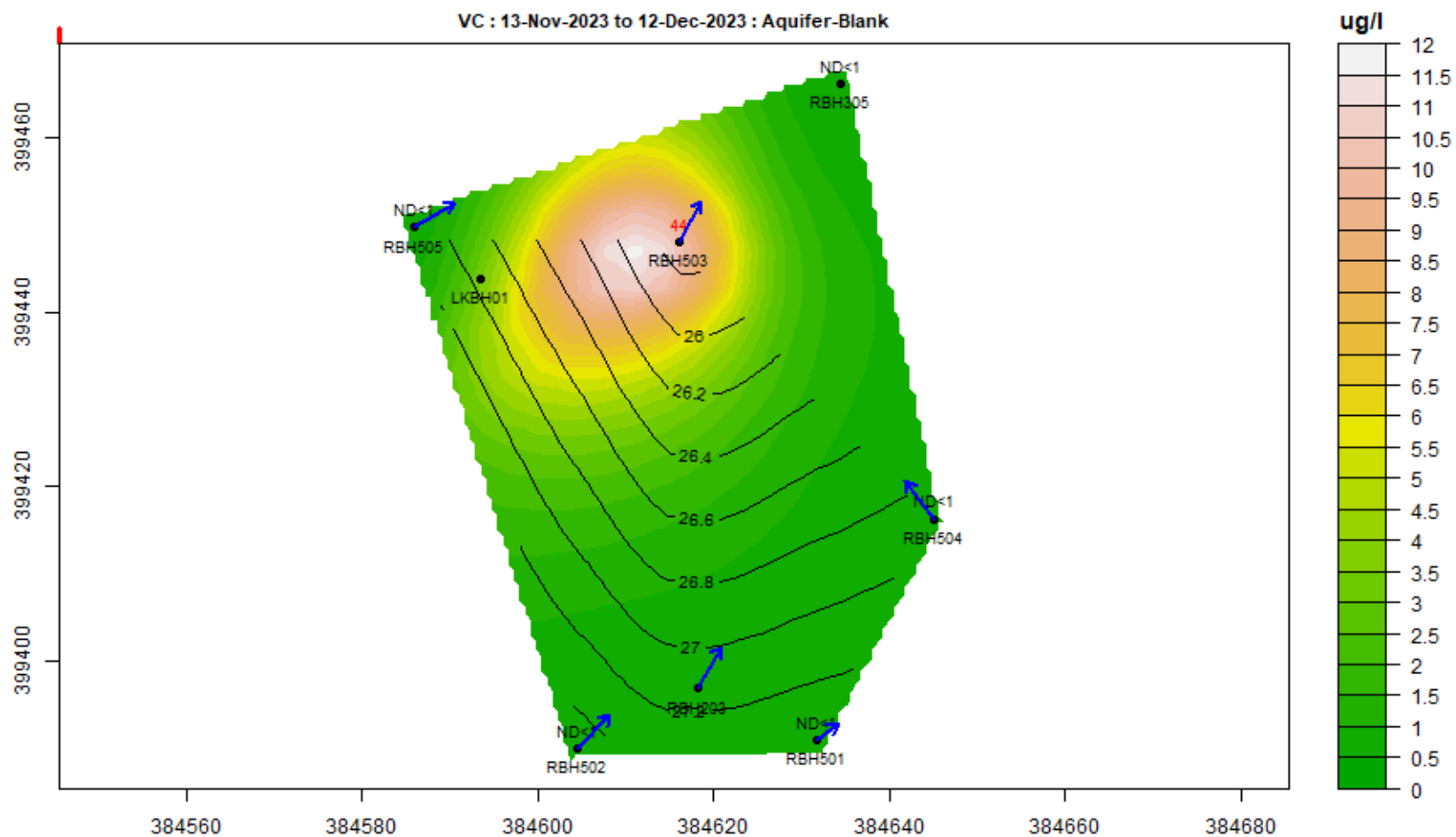
TCE : 13-Oct-2024 to 12-Nov-2024 : Aquifer-Blank



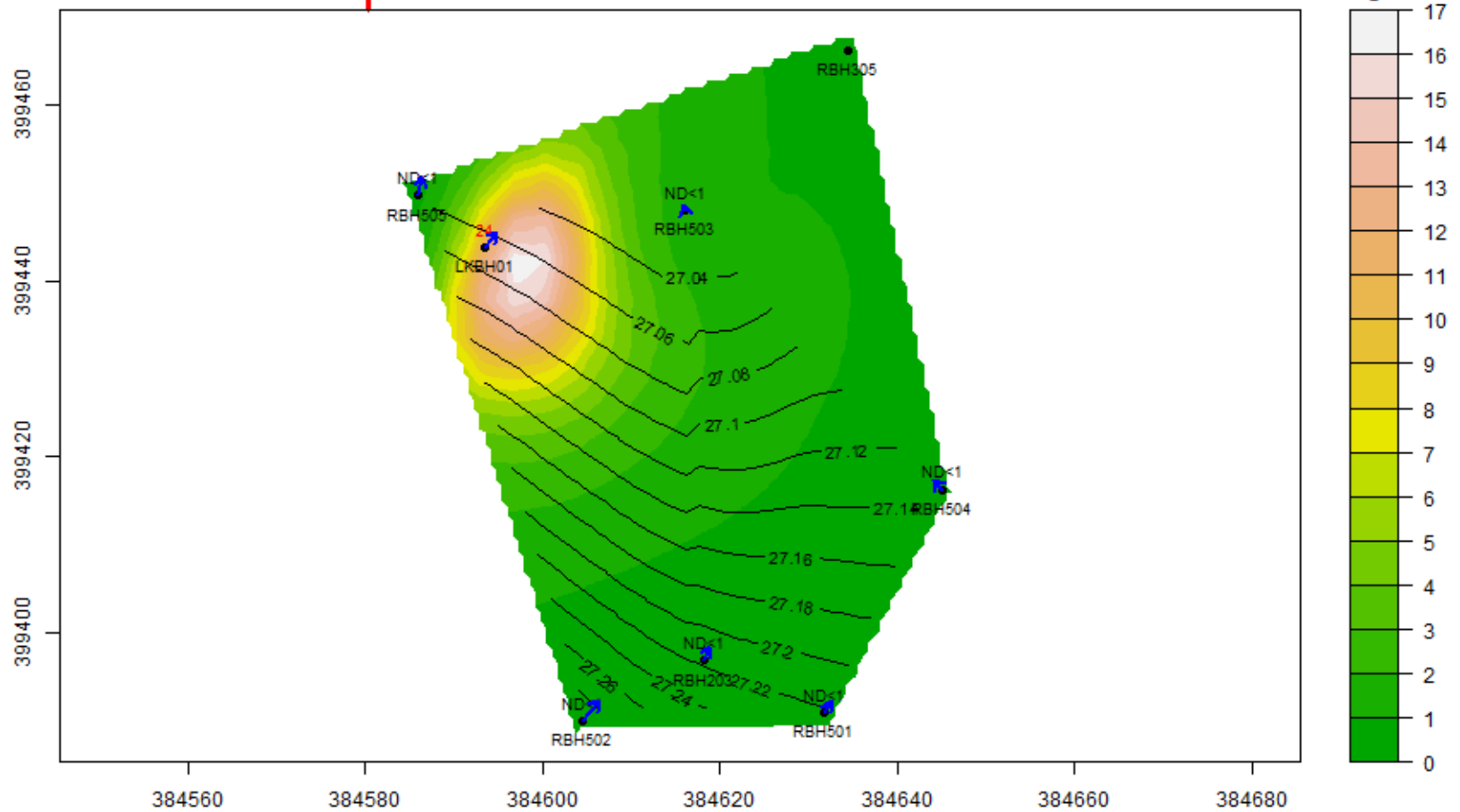
TCE : 13-Nov-2024 to 12-Dec-2024 : Aquifer-Blank



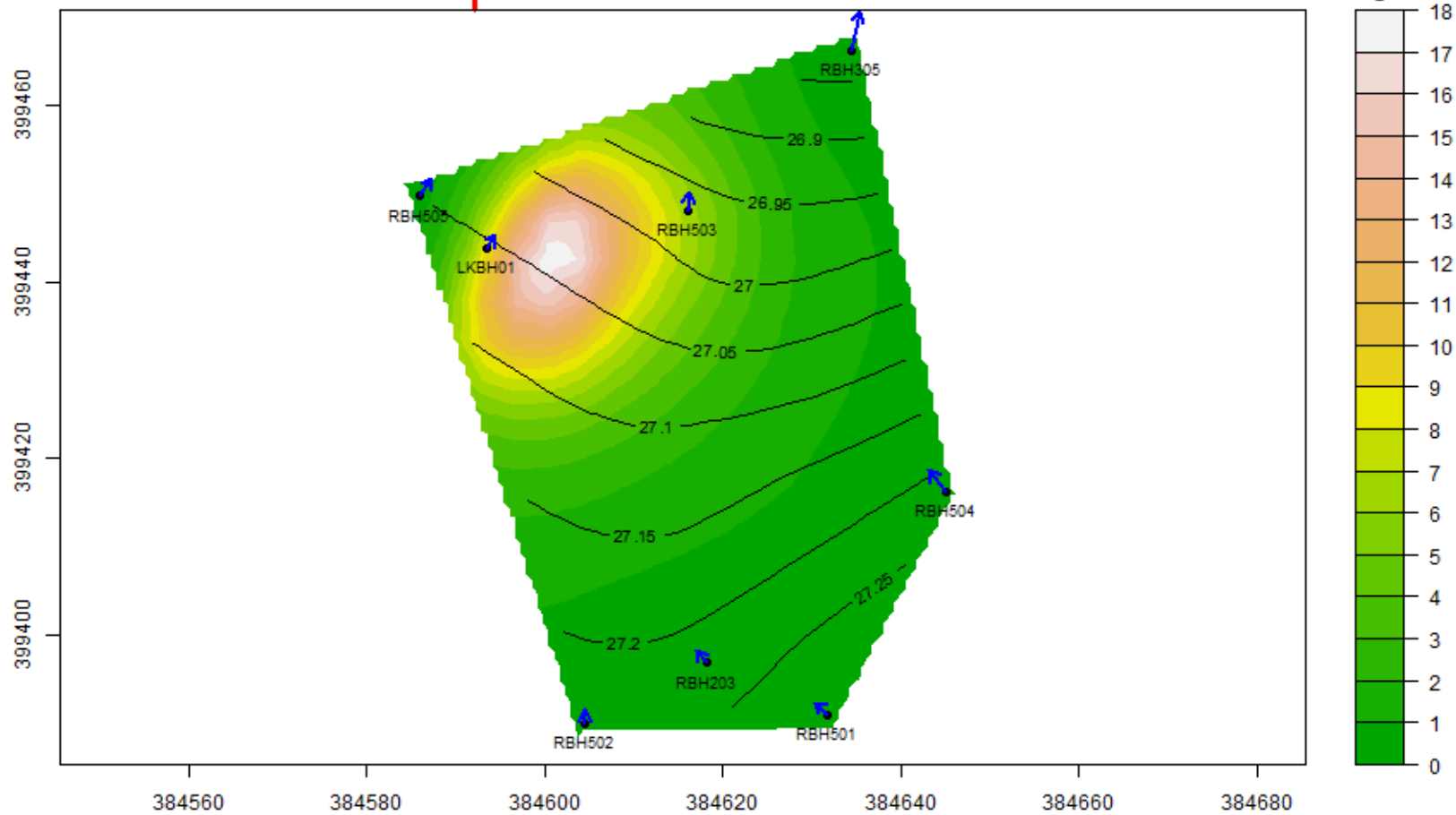
VC : 13-Nov-2023 to 12-Dec-2023 : Aquifer-Blank



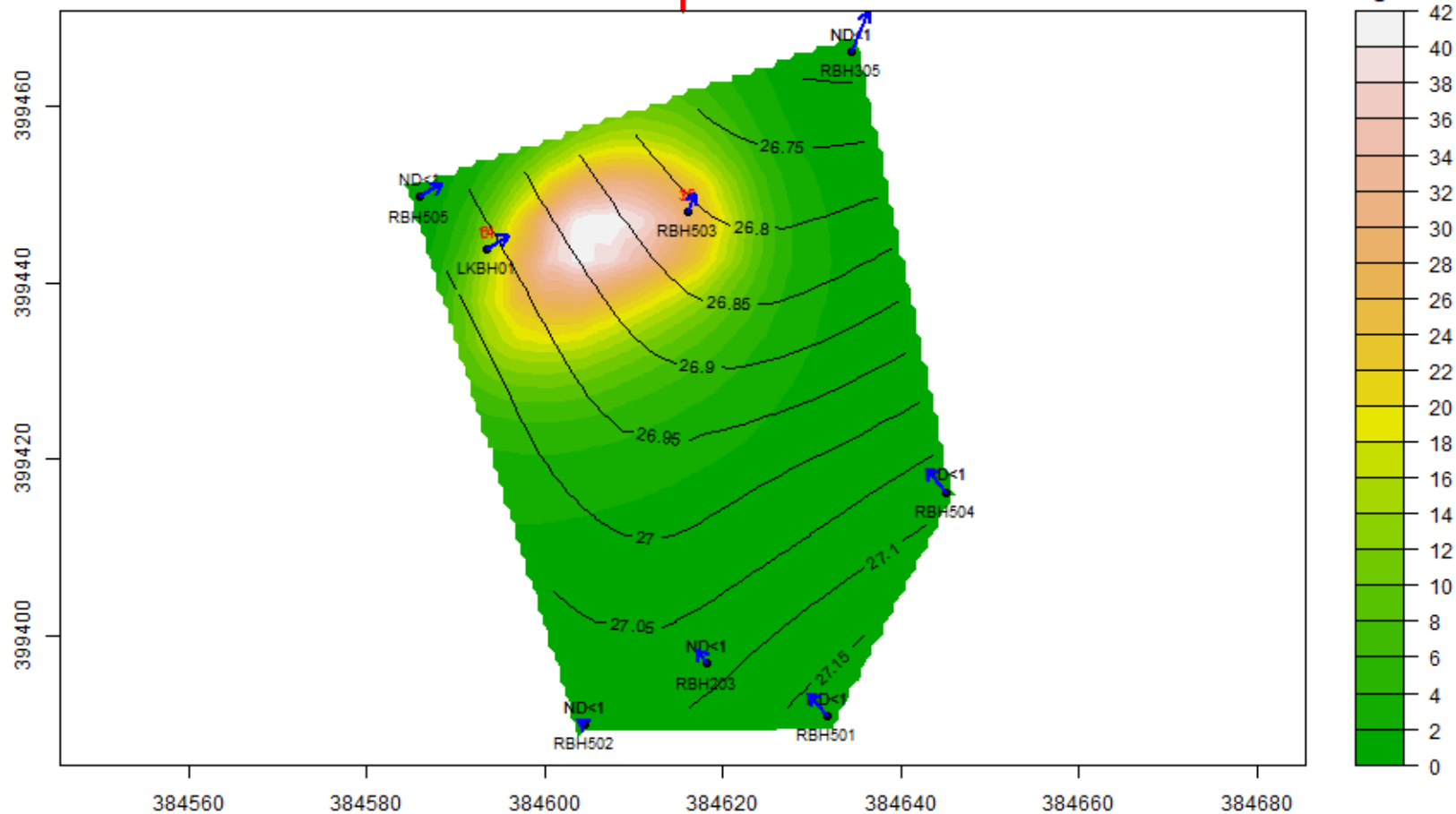
VC : 13-Feb-2024 to 12-Mar-2024 : Aquifer-Blank



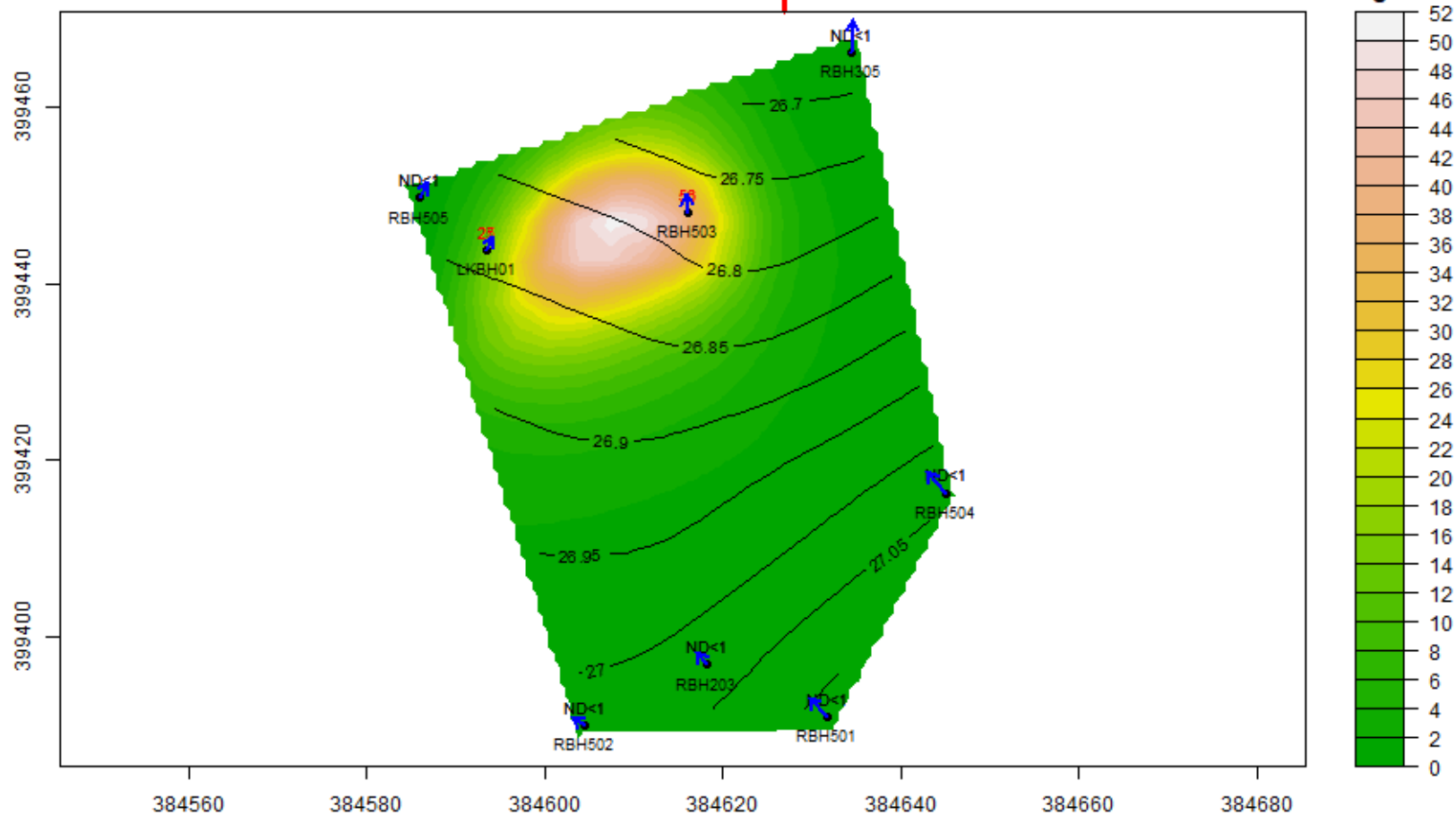
VC : 13-Mar-2024 to 12-Apr-2024 : Aquifer-Blank



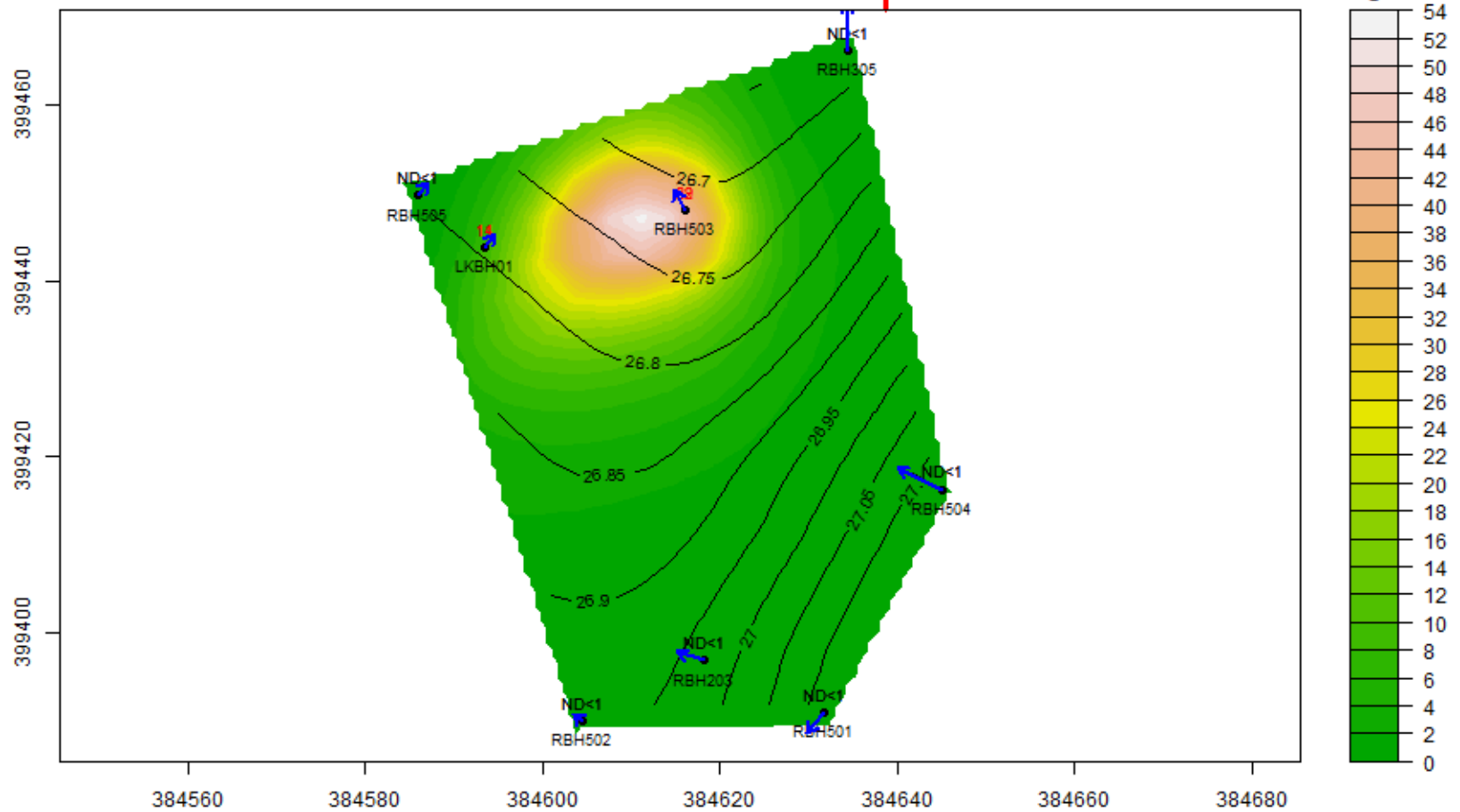
VC : 13-May-2024 to 12-Jun-2024 : Aquifer-Blank



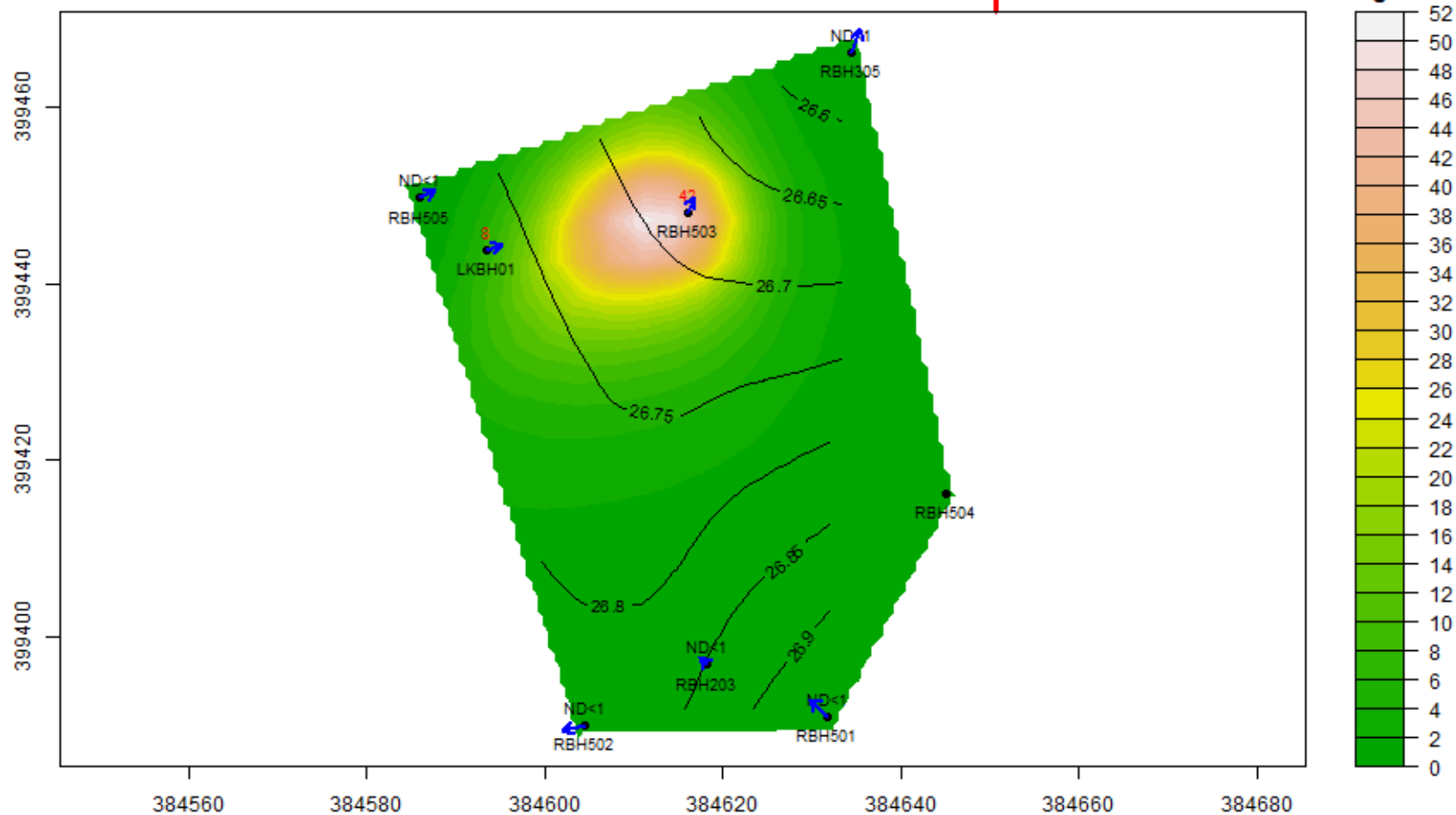
VC : 13-Jun-2024 to 12-Jul-2024 : Aquifer-Blank



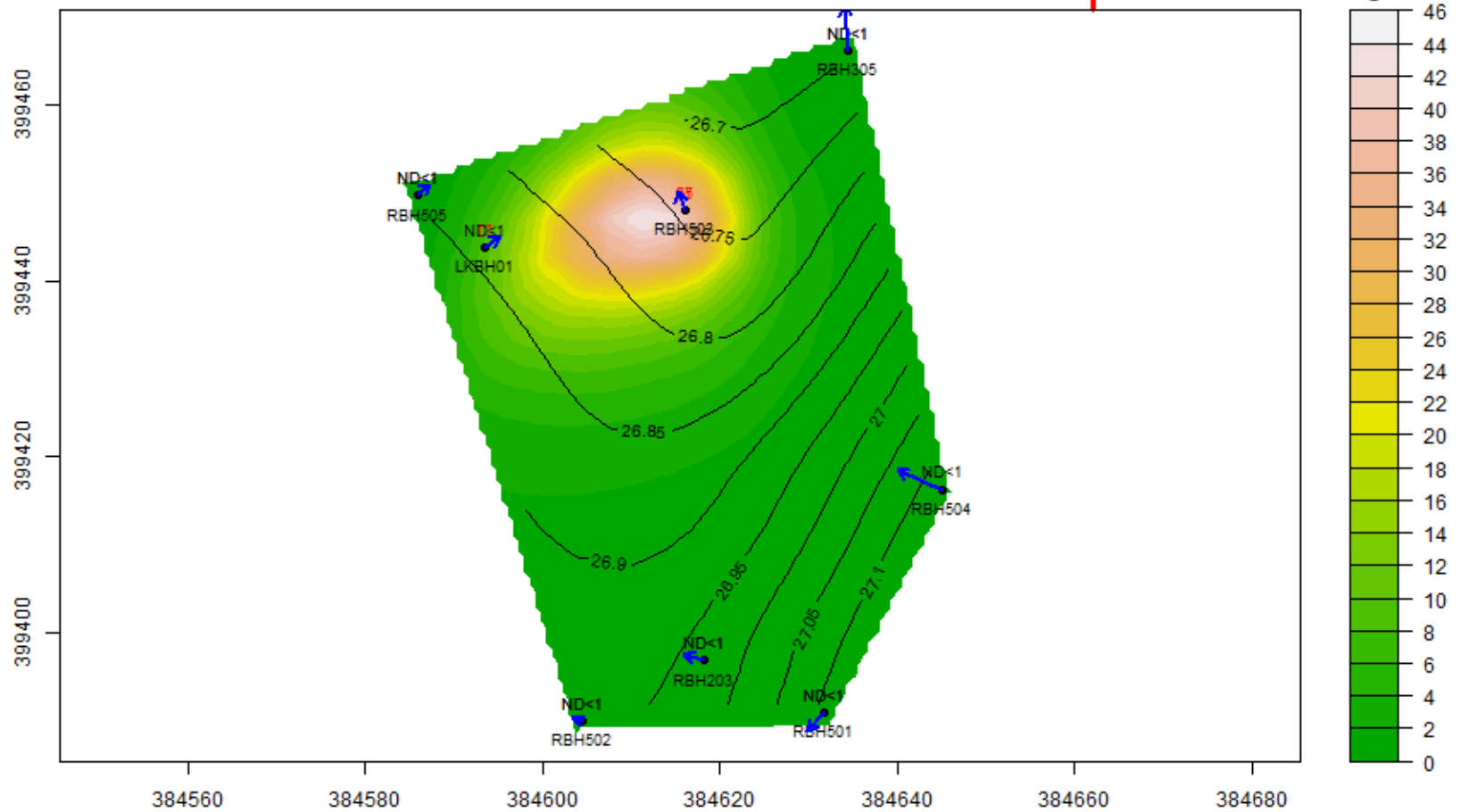
VC : 13-Jul-2024 to 12-Aug-2024 : Aquifer-Blank



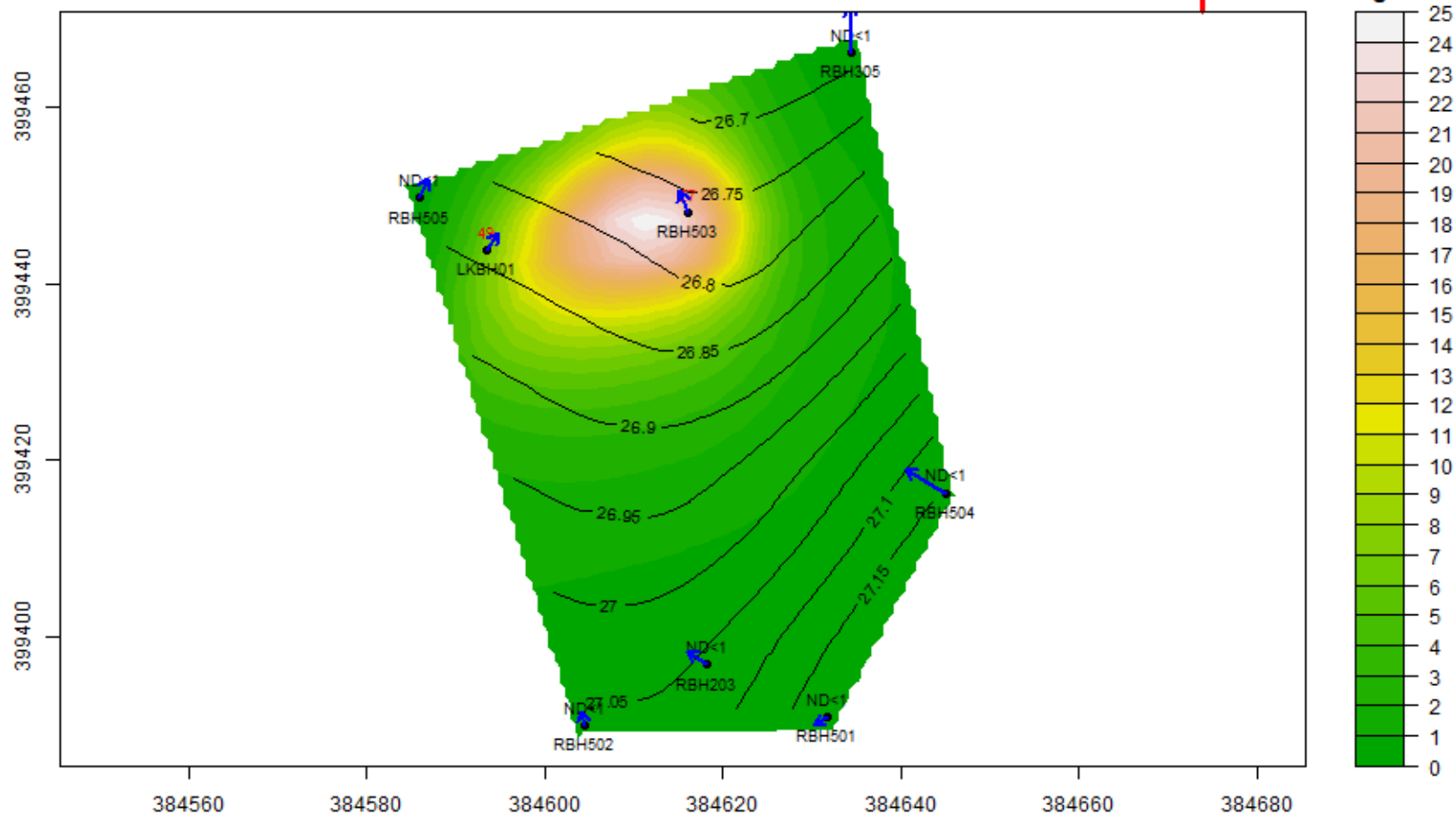
VC : 13-Aug-2024 to 12-Sep-2024 : Aquifer-Blank



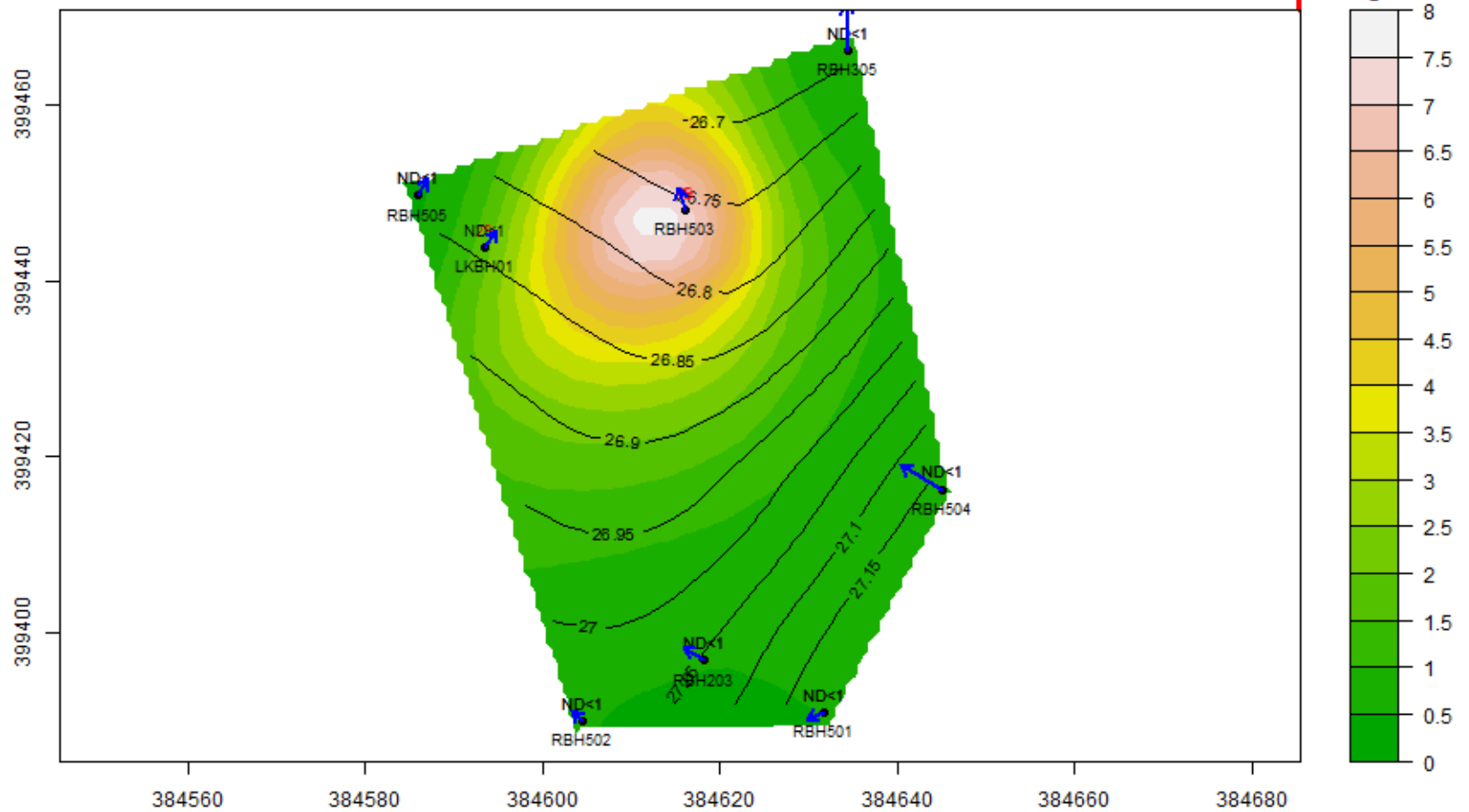
VC : 13-Sep-2024 to 12-Oct-2024 : Aquifer-Blank



VC : 13-Oct-2024 to 12-Nov-2024 : Aquifer-Blank



VC : 13-Nov-2024 to 12-Dec-2024 : Aquifer-Blank





COMPLEX CHALLENGES ...
MADE SIMPLE

APPENDIX F - DWS SCREENING TOOL

Project name	Plots NT02-04	Notes	
Project code	4328		
Client name	FEC		
Address			
NGR			
Output type	Interpretive Controlled Waters		
Scenario	DWS or best equivalent / RPV, England, Wales and Northern Ireland		
GAC version	Rev14		

										Lab sample ID	24/01702/7	24/04877/4	24/05884/1	24/06349/1	24/06729/1	24/07236/7	24/07737/2	24/08164/3	24/08993/1	24/09465/8	
										Client sample ID	LKBH01	LKBH01	LKBH01	LKBH01	LKBH01	LKBH01	LKBH01	LKBH01	LKBH01	LKBH01	LKBH01
										Depth to top	13.5	13.5	13.2	13	13.2	13.5	13	13	13.2	13	
										Depth to bottom											
										Date sampled	20/02/2024	16/05/2024	12/06/2024	25/06/2024	09/07/2024	23/07/2024	06/08/2024	20/08/2024	17/09/2024	30/09/2024	
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects													
Inorganics																					
Calcium (dissolved)	µg/l			238000	47000	7	7	0	156000												
Dissolved oxygen	µg/l			9300	8900	7	7	0	8900												
DOC (w)	µg/l			18000	<2000	93	86	7	2500	6300	7400	7700	8200	5600	7100	2600	2600	2800			
Hardness Total	mg/l Ca CO3					67			593	450	573	620	492	576	516	664					
pH (w)	pH					93			7.22	7.11	7.27	7.11	7.27	7.03	7.01	7.04	6.78	6.88			
Sulphate (w)	µg/l	250000		669000	8000	93	93	0	191000	170000	158000	207000	200000	180000	199000	170000	202000	203000			
Metals																					
Arsenic (dissolved)	µg/l	10		21	<1	93	40	53	19	19	17	19	19	20	19	21	18	1			
Barium (dissolved)	µg/l			183	29	86	86	0		45	44	45	47	45	43	48	41	47			
Beryllium (dissolved)	µg/l			<2	<1	86	0	86		<1	<1	<1	<1	<1	<1	<1	<1	<1			
Boron (dissolved)	µg/l			626	107	86	86	0		125	183	146	107	161	130	130	110	187			
Cadmium (dissolved)	µg/l	5		<0.4	<0.2	93	0	93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2			
Chromium (dissolved)	µg/l	50		19	<1	93	29	64	<1	<1	<1	2	<1	1	<1	2	<1	3			
Chromium (hexavalent) (w)	µg/l			<20	<10	86	0	86		<10	<10	<10	<20	<10	<10	<10	<10	<10			
Chromium (trivalent) (w)	µg/l			20	<10	86	12	74		<10	<10	<10	<20	<10	<10	<10	<10	<10			
Copper (dissolved)	µg/l	2000		26	<4	93	22	71	<4	<4	<4	<4	<4	<4	<4	10	<4	5			
Cyanide (total) (w)	µg/l	50		285	<5	86	43	43		36	88	46	52	70	47	49	41	<5			
Lead (dissolved)	µg/l	10		28	<1	93	26	67	<1	<1	<1	<1	<1	<1	<1	28	<1	5			
Mercury (dissolved)	µg/l	1		0.2	<0.1	93	1	92	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
Molybdenum (dissolved)	µg/l			15.4	<0.5	86	23	63		<0.5	1.3	0.5	<0.5	0.5	0.5	<0.5	<0.5	7.3			
Nickel (dissolved)	µg/l	20		28	<2	93	64	29	<2	<2	<2	<2	3	<2	<2	<2	2	2			
Selenium (dissolved)	µg/l	10		3	<1	93	58	35	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			
Vanadium (dissolved)	µg/l			3	<1	86	4	82		<1	<1	<1	<1	<1	<1	3	<1	<1			
Zinc (dissolved)	µg/l	3000		97	<2	93	92	1	6	8	6	14	33	2	3	29	27	47			
SUM - chromium (trivalent plus hexavalent)	µg/l	50		20	<10	86	12	74		<10	<10	<10	<20	<10	<10	<10	<10	<10			
Volatile organic compounds																					
1,1,1,2-Tetrachloroethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1			
1,1,1-Trichloroethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1			
1,1,2,2-Tetrachloroethane	µg/l			<5	<1	93	6	87	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1			
1,1,2-Trichloroethane	µg/l			5	<1	93	23	70	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1			
1,1-Dichloroethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1			
1,1-Dichloroethene	µg/l			<5	<1	93	1	92	<1	<1	<1	<1	<1	1	<1	<1	<5	<1			
1,1-Dichloropropene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1			
1,2,3-Trichlorobenzene	µg/l			<15	<3	93	0	93	<3	<3	<3	<3	<3	<3	<3	<3	<15	<3			
1,2,3-Trichloropropane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1			
1,2,4-Trichlorobenzene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1			
1,2,4-Trichlorobenzene	µg/l			<15	<3	93	0	93	<3	<3	<3	<3	<3	<3	<3	<3	<15	<3			
1,2,4-Trimethylbenzene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1			

Project name Project code Client name Address NGR Output type Scenario GAC version	Plots NT02-04																		
	4328																		
	FEC																		
	Interpretive Controlled Waters																		
	DWS or best equivalent / RPV, England, Wales and Northern Ireland																		
Rev14																			
									Lab sample ID	24/09921/1	24/11222/1	24/01702/2	24/04818/2	24/05884/2	24/06349/8	24/06760/1	24/07236/1	24/07735/3	24/08195/2
									Client sample ID	LKBH01	LKBH01	RBH203	RBH203	RBH203	RBH203	RBH203	RBH203	RBH203	RBH203
									Depth to top	13.2	13.2	15	15	14.9	14.5	15	14.5	14.5	14.5
									Depth to bottom										
									Date sampled	14/10/2024	18/11/2024	19/02/2024	15/05/2024	12/06/2024	26/06/2024	10/07/2024	23/07/2024	07/08/2024	21/08/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects											
Inorganics																			
Calcium (dissolved)	µg/l			238000	47000	7	7	0			106000								
Dissolved oxygen	µg/l			9300	8900	7	7	0			9200								
DOC (w)	µg/l			18000	<2000	93	86	7	3200	15000	<2000	4300	4200	3700	3400	3800	4300	<2000	
Hardness Total	mg/l Ca CO3					67				614		380	359	361	359	354	354		
pH (w)	pH					93			7.04	6.94	7.01	7.98	7.02	6.91	6.84	6.65	6.68	6.85	
Sulphate (w)	µg/l	250000		669000	8000	93	93	0	206000	202000	75000	81000	81000	82000	136000	76000	70000	71000	
Metals																			
Arsenic (dissolved)	µg/l	10		21	<1	93	40	53	11	20	<1	<1	<1	<1	<2	<1	<1	<1	
Barium (dissolved)	µg/l			183	29	86	86	0	58	56		59	61	61	64	61	59	61	
Beryllium (dissolved)	µg/l			<2	<1	86	0	86	<1	<1		<1	<1	<1	<2	<1	<1	<1	
Boron (dissolved)	µg/l			626	107	86	86	0	126	130		230	230	239	236	222	210	217	
Cadmium (dissolved)	µg/l	5		<0.4	<0.2	93	0	93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	
Chromium (dissolved)	µg/l	50		19	<1	93	29	64	<1	<1	<1	<1	<1	2	<2	17	9	13	
Chromium (hexavalent) (w)	µg/l			<20	<10	86	0	86	<10	<10		<20	<10	<10	<20	<10	<10	<10	
Chromium (trivalent) (w)	µg/l			20	<10	86	12	74	<10	<10		<20	<10	<10	<20	20	<10	10	
Copper (dissolved)	µg/l	2000		26	<4	93	22	71	<4	<4	<4	<4	<4	<4	<8	<4	<4	<4	
Cyanide (total) (w)	µg/l	50		285	<5	86	43	43	36	49	<5	<5	<5	<5	<5	<5	<5	<5	
Lead (dissolved)	µg/l	10		28	<1	93	26	67	2	<1	<1	2	<1	<1	3	<1	<1	<1	
Mercury (dissolved)	µg/l	1		0.2	<0.1	93	1	92	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	
Molybdenum (dissolved)	µg/l			15.4	<0.5	86	23	63	0.6	<0.5		<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	
Nickel (dissolved)	µg/l	20		28	<2	93	64	29	4	3	5	2	5	<2	<4	<2	<2	<2	
Selenium (dissolved)	µg/l	10		3	<1	93	58	35	<1	<1	2	2	3	3	3	2	3	2	
Vanadium (dissolved)	µg/l			3	<1	86	4	82	<1	<1		<1	<1	<1	<2	<1	<1	<1	
Zinc (dissolved)	µg/l	3000		97	<2	93	92	1	57	48	11	18	6	2	41	3	<2	2	
SUM - chromium (trivalent plus hexavalent)	µg/l	50		20	<10	86	12	74	<10	<10		<20	<10	<10	<20	20	<10	10	
Volatile organic compounds																			
1,1,1,2-Tetrachloroethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1,1-Trichloroethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1,2,2-Tetrachloroethane	µg/l			<5	<1	93	6	87	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1,2-Trichloroethane	µg/l			5	<1	93	23	70	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1-Dichloroethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1-Dichloroethene	µg/l			<5	<1	93	1	92	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1-Dichloropropene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2,3-Trichlorobenzene	µg/l			<15	<3	93	0	93	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
1,2,3-Trichloropropane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2,4-Trichlorobenzene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2,4-Trichlorobenzene	µg/l			<15	<3	93	0	93	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
1,2,4-Trimethylbenzene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	

Project name Project code Client name Address NGR Output type Scenario GAC version	Plots NT02-04																	
	4328																	
	FEC																	
	Interpretive Controlled Waters																	
	DWS or best equivalent / RPV, England, Wales and Northern Ireland																	
	Rev14																	

									Lab sample ID	24/08993/2	24/09465/2	24/09921/2	24/11222/2	24/04877/1	24/05884/3	24/06349/4	24/06729/4	24/07737/3	24/08164/1
									Client sample ID	RBH203	RBH203	RBH203	RBH203	RBH305	RBH305	RBH305	RBH305	RBH305	RBH305
									Depth to top	14.8	13	14.8	14.8	7.1	7	7	7	7	7
									Depth to bottom										
									Date sampled	17/09/2024	30/09/2024	14/10/2024	18/11/2024	16/05/2024	12/06/2024	25/06/2024	09/07/2024	06/08/2024	20/08/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects											
Inorganics																			
Calcium (dissolved)	µg/l			238000	47000	7	7	0											
Dissolved oxygen	µg/l			9300	8900	7	7	0											
DOC (w)	µg/l			18000	<2000	93	86	7	<2000	4000	<2000	4900	7200	8300	10100	9300	7700	4200	
Hardness Total	mg/l Ca CO3					67			377			344	367	290	644	307	511	417	
pH (w)	pH					93			6.51	6.83	6.75	6.77	7.08	6.97	6.78	6.78	6.77	6.69	
Sulphate (w)	µg/l	250000		669000	8000	93	93	0	70000	138000	75000	73000	105000	116000	287000	163000	317000	186000	
Metals																			
Arsenic (dissolved)	µg/l	10		21	<1	93	40	53	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Barium (dissolved)	µg/l			183	29	86	86	0	59	29	65	71	81	72	133	85	100	93	
Beryllium (dissolved)	µg/l			<2	<1	86	0	86	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Boron (dissolved)	µg/l			626	107	86	86	0	203	314	228	259	357	396	404	430	395	421	
Cadmium (dissolved)	µg/l	5		<0.4	<0.2	93	0	93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Chromium (dissolved)	µg/l	50		19	<1	93	29	64	<1	8	<1	<1	<1	<1	14	<1	2	10	
Chromium (hexavalent) (w)	µg/l			<20	<10	86	0	86	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
Chromium (trivalent) (w)	µg/l			20	<10	86	12	74	<10	<10	<10	<10	<10	<10	10	<10	<10	10	
Copper (dissolved)	µg/l	2000		26	<4	93	22	71	10	5	4	4	<4	<4	<4	4	<4	<4	
Cyanide (total) (w)	µg/l	50		285	<5	86	43	43	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Lead (dissolved)	µg/l	10		28	<1	93	26	67	<1	<1	<1	<1	<1	<1	<1	1	<1	1	
Mercury (dissolved)	µg/l	1		0.2	<0.1	93	1	92	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Molybdenum (dissolved)	µg/l			15.4	<0.5	86	23	63	<0.5	8	<0.5	<0.5	4.4	2.8	2.1	1.6	5.9	3	
Nickel (dissolved)	µg/l	20		28	<2	93	64	29	4	2	2	3	3	2	2	9	3	5	4
Selenium (dissolved)	µg/l	10		3	<1	93	58	35	3	1	2	3	2	2	3	3	3	3	
Vanadium (dissolved)	µg/l			3	<1	86	4	82	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	
Zinc (dissolved)	µg/l	3000		97	<2	93	92	1	38	10	21	28	14	9	29	18	13	12	
SUM - chromium (trivalent plus hexavalent)	µg/l	50		20	<10	86	12	74	<10	<10	<10	<10	<10	<10	10	<10	<10	10	
Volatile organic compounds																			
1,1,1,2-Tetrachloroethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1,1-Trichloroethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1,2,2-Tetrachloroethane	µg/l			<5	<1	93	6	87	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1,2-Trichloroethane	µg/l			5	<1	93	23	70	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1-Dichloroethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1-Dichloroethene	µg/l			<5	<1	93	1	92	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1-Dichloropropene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2,3-Trichlorobenzene	µg/l			<15	<3	93	0	93	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
1,2,3-Trichloropropane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2,4-Trichlorobenzene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2,4-Trichlorobenzene	µg/l			<15	<3	93	0	93	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
1,2,4-Trimethylbenzene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	

Project name Project code Client name Address NGR Output type Scenario GAC version	Plots NT02-04																		
	4328																		
	FEC																		
	Interpretive Controlled Waters																		
	DWS or best equivalent / RPV, England, Wales and Northern Ireland																		
Rev14																			

									Lab sample ID	24/08993/3	24/09465/5	24/09921/3	24/11222/3	24/01702/3	24/04818/4	24/05884/4	24/06349/6	24/06760/2	24/07236/2
									Client sample ID	RBH305	RBH305	RBH305	RBH305	RBH501	RBH501	RBH501	RBH501	RBH501	RBH501
									Depth to top	7.2	7	7.2	7.2	13	13	13.7	12.5	13.75	12.5
									Depth to bottom										
									Date sampled	17/09/2024	30/09/2024	14/10/2024	18/11/2024	19/02/2024	15/05/2024	12/06/2024	26/06/2024	10/07/2024	23/07/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects											
Inorganics																			
Calcium (dissolved)	µg/l			238000	47000	7	7	0						127000					
Dissolved oxygen	µg/l			9300	8900	7	7	0						9200					
DOC (w)	µg/l			18000	<2000	93	86	7	7800	6800	10000	16500	<2000	4100	4800	4800	3400	4600	
Hardness Total	mg/l Ca CO3					67			717			455		455	455	446	463	516	
pH (w)	pH					93			6.72	6.91	7.12	6.89	7.13	7.92	7.23	7.05	6.87	6.75	
Sulphate (w)	µg/l	250000		669000	8000	93	93	0	604000	538000	669000	405000	93000	113000	98000	105000	187000	183000	
Metals																			
Arsenic (dissolved)	µg/l	10		21	<1	93	40	53	1	1	2	1	<1	<1	<1	<1	<2	<1	
Barium (dissolved)	µg/l			183	29	86	86	0	136	90	106	86		113	104	102	103	95	
Beryllium (dissolved)	µg/l			<2	<1	86	0	86	<1	<1	<1	<1		<1	<1	<1	<2	<1	
Boron (dissolved)	µg/l			626	107	86	86	0	406	368	422	626		265	255	282	301	331	
Cadmium (dissolved)	µg/l	5		<0.4	<0.2	93	0	93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	
Chromium (dissolved)	µg/l	50		19	<1	93	29	64	1	2	1	<1	<1	<1	<1	11	<2	19	
Chromium (hexavalent) (w)	µg/l			<20	<10	86	0	86	<10	<10	<10	<10		<10	<10	<10	<10	<10	
Chromium (trivalent) (w)	µg/l			20	<10	86	12	74	<10	<10	<10	<10		<10	<10	10	<10	20	
Copper (dissolved)	µg/l	2000		26	<4	93	22	71	7	9	9	26	<4	<4	<4	<4	<8	<4	
Cyanide (total) (w)	µg/l	50		285	<5	86	43	43	<5	<5	<5	<5		<5	<5	<5	<5	<5	
Lead (dissolved)	µg/l	10		28	<1	93	26	67	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	
Mercury (dissolved)	µg/l	1		0.2	<0.1	93	1	92	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	
Molybdenum (dissolved)	µg/l			15.4	<0.5	86	23	63	10.5	10	15.4	13.1		<0.5	<0.5	<0.5	<1.0	<0.5	
Nickel (dissolved)	µg/l	20		28	<2	93	64	29	7	7	10	8	6	3	7	<2	<4	<2	
Selenium (dissolved)	µg/l	10		3	<1	93	58	35	2	2	2	2	3	2	3	3	3	2	
Vanadium (dissolved)	µg/l			3	<1	86	4	82	<1	<1	<1	1		<1	<1	<1	<2	<1	
Zinc (dissolved)	µg/l	3000		97	<2	93	92	1	29	39	26	97	26	23	7	5	14	7	
SUM - chromium (trivalent plus hexavalent)	µg/l	50		20	<10	86	12	74	<10	<10	<10	<10		<10	<10	10	<10	20	
Volatile organic compounds																			
1,1,1,2-Tetrachloroethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1,1-Trichloroethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1,2,2-Tetrachloroethane	µg/l			<5	<1	93	6	87	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	
1,1,2-Trichloroethane	µg/l			5	<1	93	23	70	<1	<1	<1	<1	<1	<1	<1	<1	1	4	
1,1-Dichloroethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1-Dichloroethene	µg/l			<5	<1	93	1	92	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1-Dichloropropene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2,3-Trichlorobenzene	µg/l			<15	<3	93	0	93	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
1,2,3-Trichloropropane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2,4-Trichlorobenzene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2,4-Trichlorobenzene	µg/l			<15	<3	93	0	93	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
1,2,4-Trimethylbenzene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	

<div>Project name</div> <div>Project code</div> <div>Client name</div> <div>Address</div> <div>NGR</div> <div>Output type</div> <div>Scenario</div> <div>GAC version</div>		Plots NT02-04																			
		4328																			
		FEC																			
		Interpretive Controlled Waters																			
		DWS or best equivalent / RPV, England, Wales and Northern Ireland																			
		Rev14																			
										Lab sample ID	24/07735/2	24/08195/1	24/08993/4	24/09465/3	24/09921/4	24/11222/4	24/01702/1	24/05884/5	24/06729/3	24/07236/3	
										Client sample ID	RBH501	RBH501	RBH501	RBH501	RBH501	RBH501	RBH501	RBH502	RBH502	RBH502	RBH502
										Depth to top	12.5	12.5	13	10	13	13	13.8	15.8	15.8	16	
										Depth to bottom											
										Date sampled	07/08/2024	21/08/2024	17/09/2024	30/09/2024	14/10/2024	18/11/2024	19/02/2024	12/06/2024	09/07/2024	23/07/2024	
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects													
Inorganics																					
Calcium (dissolved)	µg/l			238000	47000	7	7	0								129000					
Dissolved oxygen	µg/l			9300	8900	7	7	0								9300					
DOC (w)	µg/l			18000	<2000	93	86	7	5900	2000	3100	3800	4400	13700	2100	4400	4300	6000			
Hardness Total	mg/l Ca CO3					67			515		621			508		446	413	460			
pH (w)	pH					93			6.73	6.92	6.55	6.67	6.9	6.8	7.23	7.21	7.01	6.88			
Sulphate (w)	µg/l	250000		669000	8000	93	93	0	158000	124000	194000	193000	184000	175000	165000	197000	219000	185000			
Metals																					
Arsenic (dissolved)	µg/l	10		21	<1	93	40	53	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			
Barium (dissolved)	µg/l			183	29	86	86	0	83	84	76	75	70	73		94	104	105			
Beryllium (dissolved)	µg/l			<2	<1	86	0	86	<1	<1	<1	<1	<1	<1		<1	<1	<1			
Boron (dissolved)	µg/l			626	107	86	86	0	294	302	331	328	335	376		202	188	223			
Cadmium (dissolved)	µg/l	5		<0.4	<0.2	93	0	93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2			
Chromium (dissolved)	µg/l	50		19	<1	93	29	64	2	11	<1	<1	<1	<1	1	<1	<1	17			
Chromium (hexavalent) (w)	µg/l			<20	<10	86	0	86	<20	<10	<10	<20	<10	<10		<10	<10	<10			
Chromium (trivalent) (w)	µg/l			20	<10	86	12	74	<20	10	<10	<20	<10	<10		<10	<10	20			
Copper (dissolved)	µg/l	2000		26	<4	93	22	71	<4	<4	10	10	16	16	<4	<4	<4	<4			
Cyanide (total) (w)	µg/l	50		285	<5	86	43	43	<5	<5	<5	<5	<5	<5		10	12	14			
Lead (dissolved)	µg/l	10		28	<1	93	26	67	<1	<1	<1	<1	3	3	<1	<1	2	<1			
Mercury (dissolved)	µg/l	1		0.2	<0.1	93	1	92	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
Molybdenum (dissolved)	µg/l			15.4	<0.5	86	23	63	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5			
Nickel (dissolved)	µg/l	20		28	<2	93	64	29	<2	<2	4	2	2	3	8	11	<2	<2			
Selenium (dissolved)	µg/l	10		3	<1	93	58	35	2	2	2	2	2	2	2	3	3	2			
Vanadium (dissolved)	µg/l			3	<1	86	4	82	<1	<1	<1	<1	<1	<1		<1	<1	<1			
Zinc (dissolved)	µg/l	3000		97	<2	93	92	1	5	3	32	67	59	63	9	9	13	5			
SUM - chromium (trivalent plus hexavalent)	µg/l	50		20	<10	86	12	74	<20	10	<10	<20	<10	<10		<10	<10	20			
Volatile organic compounds																					
1,1,1,2-Tetrachloroethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			
1,1,1-Trichloroethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			
1,1,2,2-Tetrachloroethane	µg/l			<5	<1	93	6	87	2	<1	3	3	4	4	<1	<1	<1	<1			
1,1,2-Trichloroethane	µg/l			5	<1	93	23	70	2	2	5	4	5	5	<1	<1	<1	<1			
1,1-Dichloroethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			
1,1-Dichloroethene	µg/l			<5	<1	93	1	92	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			
1,1-Dichloropropene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			
1,2,3-Trichlorobenzene	µg/l			<15	<3	93	0	93	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3			
1,2,3-Trichloropropane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			
1,2,4-Trichlorobenzene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			
1,2,4-Trichlorobenzene	µg/l			<15	<3	93	0	93	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3			
1,2,4-Trimethylbenzene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			

Project name Project code Client name Address NGR Output type Scenario GAC version	Plots NT02-04																		
	4328																		
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DWS or best equivalent / RPV, England, Wales and Northern Ireland																			
Rev14																			

									Lab sample ID	24/07735/4	24/08195/3	24/08993/5	24/09465/1	24/09921/5	24/11222/5	24/06349/7	24/04818/1	24/01702/5	24/04877/3
									Client sample ID	RBH502	RBH502	RBH502	RBH502	RBH502	RBH502	RBH502	RBH502 S	RBH503	RBH503
									Depth to top	16	16	16.3	13	16.3	16.3	16	13.8	8.5	
									Depth to bottom										
									Date sampled	07/08/2024	21/08/2024	17/09/2024	30/09/2024	14/10/2024	18/11/2024	26/06/2024	15/05/2024	20/02/2024	16/05/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects											
Inorganics																			
Calcium (dissolved)	µg/l			238000	47000	7	7	0										171000	
Dissolved oxygen	µg/l			9300	8900	7	7	0										9200	
DOC (w)	µg/l			18000	<2000	93	86	7	5500	2400	2600	3400	3000	9600	4700	3400	2700	6900	
Hardness Total	mg/l Ca CO3					67			441		546			444	425	434		641	
pH (w)	pH					93			6.86	6.93	6.72	6.71	6.95	6.84	7.08	8.01	7.77	6.8	
Sulphate (w)	µg/l	250000		669000	8000	93	93	0	176000	195000	183000	192000	211000	194000	190000	200000	8000	247000	
Metals																			
Arsenic (dissolved)	µg/l	10		21	<1	93	40	53	<1	<1	<1	<1	<1	<1	<1	<1	<1	6	4
Barium (dissolved)	µg/l			183	29	86	86	0	86	89	87	86	64	75	91	108		183	
Beryllium (dissolved)	µg/l			<2	<1	86	0	86	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1
Boron (dissolved)	µg/l			626	107	86	86	0	212	236	247	259	250	326	209	176		250	
Cadmium (dissolved)	µg/l	5		<0.4	<0.2	93	0	93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium (dissolved)	µg/l	50		19	<1	93	29	64	1	6	<1	<1	<1	<1	15	<1	<1	<1	<1
Chromium (hexavalent) (w)	µg/l			<20	<10	86	0	86	<10	<10	<10	<10	<10	<10	<10	<10		<10	<10
Chromium (trivalent) (w)	µg/l			20	<10	86	12	74	<10	<10	<10	<10	<10	<10	20	<10		<10	<10
Copper (dissolved)	µg/l	2000		26	<4	93	22	71	<4	<4	20	<4	7	11	<4	<4	<4	<4	<4
Cyanide (total) (w)	µg/l	50		285	<5	86	43	43	13	14	14	14	16	15	13	10		41	
Lead (dissolved)	µg/l	10		28	<1	93	26	67	1	<1	<1	<1	<1	<1	<1	3	<1	<1	<1
Mercury (dissolved)	µg/l	1		0.2	<0.1	93	1	92	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum (dissolved)	µg/l			15.4	<0.5	86	23	63	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1		0.8
Nickel (dissolved)	µg/l	20		28	<2	93	64	29	<2	<2	5	2	13	28	<2	3	<2	6	
Selenium (dissolved)	µg/l	10		3	<1	93	58	35	3	2	2	2	3	3	3	2	<1	<1	<1
Vanadium (dissolved)	µg/l			3	<1	86	4	82	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1
Zinc (dissolved)	µg/l	3000		97	<2	93	92	1	8	5	51	28	48	53	5	29	7	38	
SUM - chromium (trivalent plus hexavalent)	µg/l	50		20	<10	86	12	74	<10	<10	<10	<10	<10	<10	<10	20	<10		<10
Volatile organic compounds																			
1,1,1,2-Tetrachloroethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	µg/l			<5	<1	93	6	87	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	µg/l			5	<1	93	23	70	1	1	2	1	2	1	<1	<1	<1	<1	<1
1,1-Dichloroethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	µg/l			<5	<1	93	1	92	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	µg/l			<15	<3	93	0	93	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,2,3-Trichloropropane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	µg/l			<15	<3	93	0	93	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,2,4-Trimethylbenzene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Project name Project code Client name Address NGR Output type Scenario GAC version	Plots NT02-04																		
	4328																		
	FEC																		
	Interpretive Controlled Waters																		
	DWS or best equivalent / RPV, England, Wales and Northern Ireland																		
									Lab sample ID	24/05884/6	24/06349/2	24/06729/5	24/07236/5	24/07737/4	24/08164/2	24/08993/6	24/09465/4	24/09921/6	24/11222/6
									Client sample ID	RBH503	RBH503	RBH503	RBH503	RBH503	RBH503	RBH503	RBH503	RBH503	RBH503
									Depth to top	8.8	8	9	8	8	8	8.2	7	8.2	8.2
									Depth to bottom										
									Date sampled	12/06/2024	25/06/2024	09/07/2024	23/07/2024	06/08/2024	20/08/2024	17/09/2024	30/09/2024	14/10/2024	18/11/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects											
Inorganics																			
Calcium (dissolved)	µg/l			238000	47000	7	7	0											
Dissolved oxygen	µg/l			9300	8900	7	7	0											
DOC (w)	µg/l			18000	<2000	93	86	7	7000	7600	7900	6700	5900	3100	3200	3200	3000	12600	
Hardness Total	mg/l Ca CO3					67			580	600	586	584	573	551	642			658	
pH (w)	pH					93			6.91	6.83	6.77	6.63	6.67	6.68	6.51	6.6	6.8	6.66	
Sulphate (w)	µg/l	250000		669000	8000	93	93	0	274000	278000	295000	271000	273000	245000	248000	251000	269000	265000	
Metals																			
Arsenic (dissolved)	µg/l	10		21	<1	93	40	53	5	6	6	6	6	6	7	7	9	8	
Barium (dissolved)	µg/l			183	29	86	86	0	148	129	123	122	101	101	90	93	69	79	
Beryllium (dissolved)	µg/l			<2	<1	86	0	86	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Boron (dissolved)	µg/l			626	107	86	86	0	263	264	233	241	248	233	240	243	248	288	
Cadmium (dissolved)	µg/l	5		<0.4	<0.2	93	0	93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Chromium (dissolved)	µg/l	50		19	<1	93	29	64	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	
Chromium (hexavalent) (w)	µg/l			<20	<10	86	0	86	<10	<10	<10	<10	<10	<10	<10	<20	<10	<10	
Chromium (trivalent) (w)	µg/l			20	<10	86	12	74	<10	<10	<10	<10	<10	<10	<10	<20	<10	<10	
Copper (dissolved)	µg/l	2000		26	<4	93	22	71	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	
Cyanide (total) (w)	µg/l	50		285	<5	86	43	43	47	42	56	52	54	43	52	50	34	41	
Lead (dissolved)	µg/l	10		28	<1	93	26	67	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	
Mercury (dissolved)	µg/l	1		0.2	<0.1	93	1	92	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Molybdenum (dissolved)	µg/l			15.4	<0.5	86	23	63	0.7	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Nickel (dissolved)	µg/l	20		28	<2	93	64	29	5	5	9	4	3	3	4	2	8	23	
Selenium (dissolved)	µg/l	10		3	<1	93	58	35	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Vanadium (dissolved)	µg/l			3	<1	86	4	82	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Zinc (dissolved)	µg/l	3000		97	<2	93	92	1	15	8	9	4	4	4	13	3	21	60	
SUM - chromium (trivalent plus hexavalent)	µg/l	50		20	<10	86	12	74	<10	<10	<10	<10	<10	<10	<10	<20	<10	<10	
Volatile organic compounds																			
1,1,1,2-Tetrachloroethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1,1-Trichloroethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1,2,2-Tetrachloroethane	µg/l			<5	<1	93	6	87	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1,2-Trichloroethane	µg/l			5	<1	93	23	70	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1-Dichloroethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1-Dichloroethene	µg/l			<5	<1	93	1	92	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1-Dichloropropene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2,3-Trichlorobenzene	µg/l			<15	<3	93	0	93	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
1,2,3-Trichloropropane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2,4-Trichlorobenzene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2,4-Trichlorobenzene	µg/l			<15	<3	93	0	93	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
1,2,4-Trimethylbenzene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	

Project name Project code Client name Address NGR Output type Scenario GAC version	Plots NT02-04																		
	4328																		
	FEC																		
	Interpretive Controlled Waters																		
	DWS or best equivalent / RPV, England, Wales and Northern Ireland																		
Rev14																			
									Lab sample ID	24/01702/4	24/04818/3	24/05884/7	24/06349/5	24/06760/3	24/07236/4	24/07735/1	24/09465/6	24/09921/7	24/11222/7
									Client sample ID	RBH504	RBH504	RBH504	RBH504	RBH504	RBH504	RBH504	RBH504	RBH504	RBH504
									Depth to top	10.5	10.5	10.7	10.5	11	10.5	10.5	8.5	8.7	8.7
									Depth to bottom										
									Date sampled	19/02/2024	15/05/2024	12/06/2024	25/06/2024	10/07/2024	23/07/2024	07/08/2024	30/09/2024	14/10/2024	18/11/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects											
Inorganics																			
Calcium (dissolved)	µg/l			238000	47000	7	7	0	238000										
Dissolved oxygen	µg/l			9300	8900	7	7	0	9100										
DOC (w)	µg/l			18000	<2000	93	86	7	7400	9800	11100	11400	11300	10900	13800	7900	7600	18000	
Hardness Total	mg/l Ca CO3					67				740	678	720	695	727	756			691	
pH (w)	pH					93			6.76	7.47	6.81	6.7	6.61	6.54	6.48	6.46	6.58	6.58	
Sulphate (w)	µg/l	250000		669000	8000	93	93	0	260000	264000	236000	283000	317000	262000	252000	249000	247000	239000	
Metals																			
Arsenic (dissolved)	µg/l	10		21	<1	93	40	53	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Barium (dissolved)	µg/l			183	29	86	86	0		76	72	69	65	62	57	74	77	75	
Beryllium (dissolved)	µg/l			<2	<1	86	0	86		<1	<1	<1	<1	<1	<1	<1	<1	<1	
Boron (dissolved)	µg/l			626	107	86	86	0		278	280	310	267	286	265	271	277	335	
Cadmium (dissolved)	µg/l	5		<0.4	<0.2	93	0	93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Chromium (dissolved)	µg/l	50		19	<1	93	29	64	<1	<1	<1	17	<1	10	<1	<1	<1	<1	
Chromium (hexavalent) (w)	µg/l			<20	<10	86	0	86		<10	<10	<10	<10	<10	<10	<20	<10	<20	
Chromium (trivalent) (w)	µg/l			20	<10	86	12	74		<10	<10	20	<10	10	<10	<20	<10	<20	
Copper (dissolved)	µg/l	2000		26	<4	93	22	71	<4	<4	10	<4	<4	<4	<4	10	26		
Cyanide (total) (w)	µg/l	50		285	<5	86	43	43	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Lead (dissolved)	µg/l	10		28	<1	93	26	67	9	9	10	9	6	5	6	11	10	28	
Mercury (dissolved)	µg/l	1		0.2	<0.1	93	1	92	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Molybdenum (dissolved)	µg/l			15.4	<0.5	86	23	63	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Nickel (dissolved)	µg/l	20		28	<2	93	64	29	15	3	10	3	10	3	2	2	18	6	
Selenium (dissolved)	µg/l	10		3	<1	93	58	35	2	2	2	2	2	2	2	2	2	2	
Vanadium (dissolved)	µg/l			3	<1	86	4	82		<1	<1	<1	<1	<1	<1	<1	<1	<1	
Zinc (dissolved)	µg/l	3000		97	<2	93	92	1	9	19	48	13	10	4	5	8	68	54	
SUM - chromium (trivalent plus hexavalent)	µg/l	50		20	<10	86	12	74		<10	<10	20	<10	10	<10	<20	<10	<20	
Volatile organic compounds																			
1,1,1,2-Tetrachloroethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1,1-Trichloroethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1,2,2-Tetrachloroethane	µg/l			<5	<1	93	6	87	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1,2-Trichloroethane	µg/l			5	<1	93	23	70	1	<1	1	1	1	1	1	1	1	1	
1,1-Dichloroethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1-Dichloroethene	µg/l			<5	<1	93	1	92	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1-Dichloropropene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2,3-Trichlorobenzene	µg/l			<15	<3	93	0	93	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
1,2,3-Trichloropropane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2,4-Trichlorobenzene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2,4-Trichlorobenzene	µg/l			<15	<3	93	0	93	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
1,2,4-Trimethylbenzene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	

Project name Project code Client name Address NGR Output type Scenario GAC version	Plots NT02-04																	
	4328																	
	FEC																	
	Interpretive Controlled Waters																	
	DWS or best equivalent / RPV, England, Wales and Northern Ireland																	
Rev14																		

									Lab sample ID	24/01702/6	24/05884/8	24/06349/3	24/06729/2	24/07236/6	24/07737/1	24/08993/7	24/09465/7	24/09921/8	24/11222/8
									Client sample ID	RBH505	RBH505	RBH505	RBH505	RBH505	RBH505	RBH505	RBH505	RBH505	RBH505
									Depth to top	11.1	11.2	10.5	11.2	10.5	10.5	10.9	10	10.9	10.9
									Depth to bottom										
									Date sampled	20/02/2024	12/06/2024	25/06/2024	09/07/2024	23/07/2024	06/08/2024	17/09/2024	30/09/2024	14/10/2024	18/11/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects											
Inorganics																			
Calcium (dissolved)	µg/l			238000	47000	7	7	0	47000										
Dissolved oxygen	µg/l			9300	8900	7	7	0	9000										
DOC (w)	µg/l			18000	<2000	93	86	7	<2000	6500	6900	6900	6900	4900	6300	<2000	5400	2500	12500
Hardness Total	mg/l Ca CO3					67				653	682	661	687	667	714				863
pH (w)	pH					93			6.88	6.9	6.76	6.81	6.63	6.64	6.45	7.28	6.75	6.65	
Sulphate (w)	µg/l	250000		669000	8000	93	93	0	219000	221000	224000	207000	239000	218000	216000	205000	229000	232000	
Metals																			
Arsenic (dissolved)	µg/l	10		21	<1	93	40	53	<2	6	6	6	6	6	2	7	2	7	7
Barium (dissolved)	µg/l			183	29	86	86	0		67	63	68	60	57	57	70	60	66	
Beryllium (dissolved)	µg/l			<2	<1	86	0	86		<1	<1	<1	<1	<1	<1	<1	<1	<1	
Boron (dissolved)	µg/l			626	107	86	86	0		196	207	177	179	192	187	121	187	223	
Cadmium (dissolved)	µg/l	5		<0.4	<0.2	93	0	93	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Chromium (dissolved)	µg/l	50		19	<1	93	29	64	<2	<1	<1	<1	<1	<1	<1	2	<1	<1	
Chromium (hexavalent) (w)	µg/l			<20	<10	86	0	86		<10	<10	<10	<10	<20	<10	<10	<20	<10	
Chromium (trivalent) (w)	µg/l			20	<10	86	12	74		<10	<10	<10	<10	<20	<10	<10	<20	<10	
Copper (dissolved)	µg/l	2000		26	<4	93	22	71	<8	<4	<4	<4	<4	<4	<4	<4	<4	<4	
Cyanide (total) (w)	µg/l	50		285	<5	86	43	43		278	281	285	265	265	265	19	231	279	
Lead (dissolved)	µg/l	10		28	<1	93	26	67	<2	<1	<1	<1	<1	<1	<1	2	<1	<1	
Mercury (dissolved)	µg/l	1		0.2	<0.1	93	1	92	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Molybdenum (dissolved)	µg/l			15.4	<0.5	86	23	63		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	14	<0.5	<0.5	
Nickel (dissolved)	µg/l	20		28	<2	93	64	29	<4	4	<2	2	<2	<2	3	3	10	3	
Selenium (dissolved)	µg/l	10		3	<1	93	58	35	<2	<1	<1	<1	<1	<1	<1	2	<1	<1	
Vanadium (dissolved)	µg/l			3	<1	86	4	82		<1	<1	<1	<1	<1	<1	1	<1	<1	
Zinc (dissolved)	µg/l	3000		97	<2	93	92	1	21	8	9	14	2	3	30	9	41	20	
SUM - chromium (trivalent plus hexavalent)	µg/l	50		20	<10	86	12	74		<10	<10	<10	<10	<20	<10	<10	<10	<20	<10
Volatile organic compounds																			
1,1,1,2-Tetrachloroethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	µg/l			<5	<1	93	6	87	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	µg/l			5	<1	93	23	70	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	µg/l			<5	<1	93	1	92	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	µg/l			<15	<3	93	0	93	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,2,3-Trichloropropane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	µg/l			<15	<3	93	0	93	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,2,4-Trimethylbenzene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Project name		Plots NT02-04																	
Project code		4328																	
Client name		FEC																	
Address																			
NGR																			
Output type		Interpretive Controlled Waters																	
Scenario		DWS or best equivalent / RPV, England, Wales and Northern Ireland																	
GAC version		Rev14																	
									Lab sample ID	24/04877/2	24/08164/4	24/07224/1	24/12118/1	24/12118/7	24/12118/8	24/12118/2	24/12118/3	24/12118/4	24/12118/5
									Client sample ID	RBH505	RBH505	RBH 305	LKBH01	RBH203	RBH305	RBH501	RBH502	RBH503	RBH504
									Depth to top	11.1	10.5	7	13.5	4.5	7	10	14	8	8.5
									Depth to bottom										
									Date sampled	16/05/2024	20/08/2024	24/07/2024	11/12/2024	11/12/2024	12/12/2024	11/12/2024	11/12/2024	12/12/2024	12/12/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects											
Inorganics																			
Calcium (dissolved)	µg/l			238000	47000	7	7	0											
Dissolved oxygen	µg/l			9300	8900	7	7	0											
DOC (w)	µg/l			18000	<2000	93	86	7	6300	2200	11700	3000	<2000	7900	<2000	5800	5100	7700	
Hardness Total	mg/l Ca CO3					67			654	628	555	210	316	395	373	568	513	640	
pH (w)	pH					93			6.73	6.64	6.9	6.75	6.8	7.23	6.88	6.93	6.7	6.67	
Sulphate (w)	µg/l	250000		669000	8000	93	93	0	172000	181000	471000	213000	69000	486000	77000	436000	236000	250000	
Metals																			
Arsenic (dissolved)	µg/l	10		21	<1	93	40	53	6	6	1	<1	<1	2	<1	<1	3	<1	
Barium (dissolved)	µg/l			183	29	86	86	0	70	58	112	52	64	65	71	75	102	84	
Beryllium (dissolved)	µg/l			<2	<1	86	0	86	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Boron (dissolved)	µg/l			626	107	86	86	0	194	175	432	191	236	398	217	259	705	279	
Cadmium (dissolved)	µg/l	5		<0.4	<0.2	93	0	93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Chromium (dissolved)	µg/l	50		19	<1	93	29	64	<1	<1	10	8	<1	1	<1	1	<1	8	
Chromium (hexavalent) (w)	µg/l			<20	<10	86	0	86	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
Chromium (trivalent) (w)	µg/l			20	<10	86	12	74	<10	<10	10	<10	<10	<10	<10	<10	<10	<10	
Copper (dissolved)	µg/l	2000		26	<4	93	22	71	<4	<4	6	<4	<4	7	<4	<4	<4	<4	
Cyanide (total) (w)	µg/l	50		285	<5	86	43	43	232	265	<5	<5	<5	<5	<5	23	42	<5	
Lead (dissolved)	µg/l	10		28	<1	93	26	67	1	3	<1	<1	<1	<1	<1	<1	1	7	
Mercury (dissolved)	µg/l	1		0.2	<0.1	93	1	92	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Molybdenum (dissolved)	µg/l			15.4	<0.5	86	23	63	<0.5	<0.5	11.7	1.7	<0.5	17.9	<0.5	0.8	<0.5	0.6	
Nickel (dissolved)	µg/l	20		28	<2	93	64	29	<2	<2	5	7	3	7	11	<2	6	8	
Selenium (dissolved)	µg/l	10		3	<1	93	58	35	<1	<1	3	<1	3	1	3	2	<1	2	
Vanadium (dissolved)	µg/l			3	<1	86	4	82	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	
Zinc (dissolved)	µg/l	3000		97	<2	93	92	1	9	6	14	49	10	13	13	98	27	15	
SUM - chromium (trivalent plus hexavalent)	µg/l	50		20	<10	86	12	74	<10	<10	10	<10	<10	<10	<10	<10	<10	<10	
Volatile organic compounds																			
1,1,1,2-Tetrachloroethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1,1-Trichloroethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1,2,2-Tetrachloroethane	µg/l			<5	<1	93	6	87	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1,2-Trichloroethane	µg/l			5	<1	93	23	70	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1-Dichloroethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1-Dichloroethene	µg/l			<5	<1	93	1	92	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1-Dichloropropene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2,3-Trichlorobenzene	µg/l			<15	<3	93	0	93	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
1,2,3-Trichloropropane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2,4-Trichlorobenzene	µg/l			<10	<1	93	0	93	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	
1,2,4-Trichlorobenzene	µg/l			<15	<3	93	0	93	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
1,2,4-Trimethylbenzene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	

Project name	Plots NT02-04								
Project code	4328								
Client name	FEC								
Address									
NGR									
Output type	Interpretive Controlled Waters								
Scenario	DWS or best equivalent / RPV, England, Wales and Northern Ireland								
GAC version	Rev14								

										Lab sample ID	24/01702/7	24/04877/4	24/05884/1	24/06349/1	24/06729/1	24/07236/7	24/07737/2	24/08164/3	24/08993/1	24/09465/8
										Client sample ID	LKBH01	LKBH01	LKBH01	LKBH01	LKBH01	LKBH01	LKBH01	LKBH01	LKBH01	LKBH01
										Depth to top	13.5	13.5	13.2	13	13.2	13.5	13	13	13.2	13
										Depth to bottom										
										Date sampled	20/02/2024	16/05/2024	12/06/2024	25/06/2024	09/07/2024	23/07/2024	06/08/2024	20/08/2024	17/09/2024	30/09/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects												
1,2-Dibromo-3-chloropropane	µg/l			<10	<2	93	0	93		<2	<2	<2	<2	<2	<2	<2	<2	<2	<10	<2
1,2-Dibromoethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,2-Dichlorobenzene	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
1,2-Dichlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,2-Dichloroethane	µg/l	3		<10	<2	93	0	93		<2	<2	<2	<2	<2	<2	<2	<2	<2	<10	<2
1,2-Dichloropropane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,3,5-Trimethylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,3-Dichlorobenzene	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
1,3-Dichlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,3-Dichloropropane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,4-Dichlorobenzene	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
1,4-Dichlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
2,2-Dichloropropane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
2-Chlorotoluene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
4-Chlorotoluene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
4-Isopropyltoluene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
Bromobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
Bromochloromethane	µg/l			<25	<5	93	0	93		<5	<5	<5	<5	<5	<5	<5	<5	<5	<25	<5
Bromodichloromethane	µg/l	100		<50	<10	93	0	93		<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10
Bromoform	µg/l	100		<15	<3	93	0	93		<3	<3	<3	<3	<3	<3	<3	<3	<3	<15	<3
Bromomethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
Carbon Disulphide	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
Carbon Tetrachloride	µg/l	3		392	<1	93	47	46		<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	3
Chlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
Chloroethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
Chloroform	µg/l	100		425	<1	93	47	46		<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	2
Chloromethane	µg/l			<50	<10	93	0	93		<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10
cis 1,2-Dichloroethene	µg/l	50*		360	<1	93	57	36		295	201	261	309	336	334	307	360	192		2
cis 1,3-Dichloropropene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
Dibromochloromethane	µg/l	100		<15	<3	93	0	93		<3	<3	<3	<3	<3	<3	<3	<3	<3	<15	<3
Dibromomethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
Dichlorodifluoromethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
Dichloromethane	µg/l	20*		<25	<5	93	0	93		<5	<5	<5	<5	<5	<5	<5	<5	<5	<25	<5
Hexachlorobutadiene	µg/l	0.1		<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
Hexachlorobutadiene	µg/l	0.1		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
Isopropylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
n-butylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
n-propylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
sec-Butylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
Styrene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
tert-Butylbenzene	µg/l			<10	<2	93	0	93		<2	<2	<2	<2	<2	<2	<2	<2	<2	<10	<2
Tetrachloroethene	µg/l	10		<5	<1	93	4	89		<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
trans 1,2-Dichloroethene	µg/l	50*		330	<1	93	38	55		269	156	85	242	284	172	214	250	168		2
trans 1,3-Dichloropropene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
Trichloroethene	µg/l	10		1962	<1	93	49	44		<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
Trichlorofluoromethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
Vinyl Chloride	µg/l	0.5		67	<1	93	22	71		24	14	6	25	27	14	11	8	17	<1	
SUM - TCE and PCE	µg/l	10		1964	<1	93	49	44		<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
SUM - 1,2 Dichloroethene (cis and trans)	µg/l	50*		649	<1	93	59	34		564	357	346	551	620	506	521	610	360		4
SUM - trihalomethanes	µg/l	100		425	2	93	47	46		<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	2
SUM - tetrachloroethane (1,1,1,2 plus 1,1,2,2)	µg/l			<5	<1	93	6	87		<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1

										Lab sample ID	24/09921/1	24/11222/1	24/01702/2	24/04818/2	24/05884/2	24/06349/8	24/06760/1	24/07236/1	24/07735/3	24/08195/2
										Client sample ID	LKBH01	LKBH01	RBH203	RBH203	RBH203	RBH203	RBH203	RBH203	RBH203	RBH203
										Depth to top	13.2	13.2	15	15	14.9	14.5	15	14.5	14.5	14.5
										Depth to bottom										
										Date sampled	14/10/2024	18/11/2024	19/02/2024	15/05/2024	12/06/2024	26/06/2024	10/07/2024	23/07/2024	07/08/2024	21/08/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects												
1,2-Dibromo-3-chloropropane	µg/l			<10	<2	93	0	93		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dibromoethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/l	3		<10	<2	93	0	93		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dichloropropane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorotoluene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Isopropyltoluene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	µg/l			<25	<5	93	0	93		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	µg/l	100		<50	<10	93	0	93		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bromoform	µg/l	100		<15	<3	93	0	93		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Bromomethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulphide	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	µg/l	3		392	<1	93	47	46		<1	<1	45	41	32	56	60	50	43	29	
Chlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	µg/l	100		425	<1	93	47	46		<1	<1	24	47	29	43	45	35	27	16	
Chloromethane	µg/l			<50	<10	93	0	93		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
cis 1,2-Dichloroethene	µg/l	50*		360	<1	93	57	36		246	319	<1	2	1	1	1	1	1	<1	<1
cis 1,3-Dichloropropene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	µg/l	100		<15	<3	93	0	93		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Dibromomethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichloromethane	µg/l	20*		<25	<5	93	0	93		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Hexachlorobutadiene	µg/l	0.1		<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/l	0.1		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-butylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-propylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	µg/l			<10	<2	93	0	93		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	µg/l	10		<5	<1	93	4	89		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,2-Dichloroethene	µg/l	50*		330	<1	93	38	55		299	330	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,3-Dichloropropene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/l	10		1962	<1	93	49	44		<1	1	126	74	44	60	58	56	36	28	
Trichlorofluoromethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	µg/l	0.5		67	<1	93	22	71		49	29	<1	<1	<1	<1	<1	<1	<1	<1	<1
SUM - TCE and PCE	µg/l	10		1964	<1	93	49	44		<1	1	126	74	44	60	58	56	36	28	
SUM - 1,2 Dichloroethene (cis and trans)	µg/l	50*		649	<1	93	59	34		545	649	<1	2	1	1	1	1	<1	<1	
SUM - trihalomethanes	µg/l	100		425	2	93	47	46		<10	<10	24	47	29	43	45	35	27	16	
SUM - tetrachloroethane (1,1,1,2 plus 1,1,2,2)	µg/l			<5	<1	93	6	87		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

										Lab sample ID	24/08993/2	24/09465/2	24/09921/2	24/11222/2	24/04877/1	24/05884/3	24/06349/4	24/06729/4	24/07737/3	24/08164/1
										Client sample ID	RBH203	RBH203	RBH203	RBH203	RBH305	RBH305	RBH305	RBH305	RBH305	RBH305
										Depth to top	14.8	13	14.8	14.8	7.1	7	7	7	7	7
										Depth to bottom										
										Date sampled	17/09/2024	30/09/2024	14/10/2024	18/11/2024	16/05/2024	12/06/2024	25/06/2024	09/07/2024	06/08/2024	20/08/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects												
1,2-Dibromo-3-chloropropane	µg/l			<10	<2	93	0	93		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dibromoethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/l	3		<10	<2	93	0	93		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dichloropropane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorotoluene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Isopropyltoluene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	µg/l			<25	<5	93	0	93		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	µg/l	100		<50	<10	93	0	93		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bromoform	µg/l	100		<15	<3	93	0	93		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Bromomethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulphide	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	µg/l	3		392	<1	93	47	46		42	31	66	65		<1	<1	<1	<1	<1	<1
Chlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	µg/l	100		425	<1	93	47	46		17	9	33	27		<1	<1	<1	<1	<1	<1
Chloromethane	µg/l			<50	<10	93	0	93		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
cis 1,2-Dichloroethene	µg/l	50*		360	<1	93	57	36		<1	<1	3	<1	<1	<1	<1	<1	<1	<1	<1
cis 1,3-Dichloropropene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	µg/l	100		<15	<3	93	0	93		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Dibromomethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichloromethane	µg/l	20*		<25	<5	93	0	93		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Hexachlorobutadiene	µg/l	0.1		<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/l	0.1		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-butylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-propylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	µg/l			<10	<2	93	0	93		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	µg/l	10		<5	<1	93	4	89		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,2-Dichloroethene	µg/l	50*		330	<1	93	38	55		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,3-Dichloropropene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/l	10		1962	<1	93	49	44		33	124	73	44		<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	µg/l	0.5		67	<1	93	22	71		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SUM - TCE and PCE	µg/l	10		1964	<1	93	49	44		33	124	73	44		<1	<1	<1	<1	<1	<1
SUM - 1,2 Dichloroethene (cis and trans)	µg/l	50*		649	<1	93	59	34		<1	<1	3	<1	<1	<1	<1	<1	<1	<1	<1
SUM - trihalomethanes	µg/l	100		425	2	93	47	46		17	9	33	27		<10	<10	<10	<10	<10	<10
SUM - tetrachloroethane (1,1,1,2 plus 1,1,2,2)	µg/l			<5	<1	93	6	87		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

										Lab sample ID	24/08993/3	24/09465/5	24/09921/3	24/11222/3	24/01702/3	24/04818/4	24/05884/4	24/06349/6	24/06760/2	24/07236/2
										Client sample ID	RBH305	RBH305	RBH305	RBH305	RBH501	RBH501	RBH501	RBH501	RBH501	RBH501
										Depth to top	7.2	7	7.2	7.2	13	13	13.7	12.5	13.75	12.5
										Depth to bottom										
										Date sampled	17/09/2024	30/09/2024	14/10/2024	18/11/2024	19/02/2024	15/05/2024	12/06/2024	26/06/2024	10/07/2024	23/07/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects												
1,2-Dibromo-3-chloropropane	µg/l			<10	<2	93	0	93		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dibromoethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/l	3		<10	<2	93	0	93		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dichloropropane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorotoluene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Isopropyltoluene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	µg/l			<25	<5	93	0	93		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	µg/l	100		<50	<10	93	0	93		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bromoform	µg/l	100		<15	<3	93	0	93		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Bromomethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulphide	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	µg/l	3		392	<1	93	47	46		<1	<1	<1	<1	83	69	57	87	128	156	156
Chlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	µg/l	100		425	<1	93	47	46		<1	<1	<1	<1	78	72	61	95	104	244	244
Chloromethane	µg/l			<50	<10	93	0	93		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
cis 1,2-Dichloroethene	µg/l	50*		360	<1	93	57	36		<1	<1	<1	<1	4	4	4	5	5	14	14
cis 1,3-Dichloropropene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	µg/l	100		<15	<3	93	0	93		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Dibromomethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichloromethane	µg/l	20*		<25	<5	93	0	93		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Hexachlorobutadiene	µg/l	0.1		<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/l	0.1		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-butylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-propylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	µg/l			<10	<2	93	0	93		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	µg/l	10		<5	<1	93	4	89		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,2-Dichloroethene	µg/l	50*		330	<1	93	38	55		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,3-Dichloropropene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/l	10		1962	<1	93	49	44		1	<1	<1	<1	317	138	72	76	114	520	520
Trichlorofluoromethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	µg/l	0.5		67	<1	93	22	71		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SUM - TCE and PCE	µg/l	10		1964	<1	93	49	44		1	<1	<1	<1	317	138	72	76	114	520	520
SUM - 1,2 Dichloroethene (cis and trans)	µg/l	50*		649	<1	93	59	34		<1	<1	<1	<1	4	4	4	5	5	14	14
SUM - trihalomethanes	µg/l	100		425	2	93	47	46		<10	<10	<10	<10	78	72	61	95	104	244	244
SUM - tetrachloroethane (1,1,1,2 plus 1,1,2,2)	µg/l			<5	<1	93	6	87		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2

										Lab sample ID	24/07735/2	24/08195/1	24/08993/4	24/09465/3	24/09921/4	24/11222/4	24/01702/1	24/05884/5	24/06729/3	24/07236/3
										Client sample ID	RBH501	RBH501	RBH501	RBH501	RBH501	RBH501	RBH502	RBH502	RBH502	RBH502
										Depth to top	12.5	12.5	13	10	13	13	13.8	15.8	15.8	16
										Depth to bottom										
										Date sampled	07/08/2024	21/08/2024	17/09/2024	30/09/2024	14/10/2024	18/11/2024	19/02/2024	12/06/2024	09/07/2024	23/07/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects												
1,2-Dibromo-3-chloropropane	µg/l			<10	<2	93	0	93		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dibromoethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/l	3		<10	<2	93	0	93		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dichloropropane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorotoluene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Isopropyltoluene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	µg/l			<25	<5	93	0	93		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	µg/l	100		<50	<10	93	0	93		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bromoform	µg/l	100		<15	<3	93	0	93		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Bromomethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulphide	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	µg/l	3		392	<1	93	47	46		160	125	214	244	311	364	132	95	191	179	
Chlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	µg/l	100		425	<1	93	47	46		186	147	282	304	421	425	54	73	98	104	
Chloromethane	µg/l			<50	<10	93	0	93		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
cis 1,2-Dichloroethene	µg/l	50*		360	<1	93	57	36		9	8	16	14	18	15	<1	1	1	<1	
cis 1,3-Dichloropropene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	µg/l	100		<15	<3	93	0	93		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Dibromomethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichloromethane	µg/l	20*		<25	<5	93	0	93		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Hexachlorobutadiene	µg/l	0.1		<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/l	0.1		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-butylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-propylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	µg/l			<10	<2	93	0	93		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	µg/l	10		<5	<1	93	4	89		<1	<1	1	1	2	2	<1	<1	<1	<1	<1
trans 1,2-Dichloroethene	µg/l	50*		330	<1	93	38	55		<1	<1	<1	<1	1	<1	1	<1	<1	<1	<1
trans 1,3-Dichloropropene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/l	10		1962	<1	93	49	44		474	347	639	918	1174	1962	4	5	7	9	
Trichlorofluoromethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	µg/l	0.5		67	<1	93	22	71		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SUM - TCE and PCE	µg/l	10		1964	<1	93	49	44		474	347	640	919	1176	1964	4	5	7	9	
SUM - 1,2 Dichloroethene (cis and trans)	µg/l	50*		649	<1	93	59	34		9	8	16	14	19	15	1	1	1	<1	
SUM - trihalomethanes	µg/l	100		425	2	93	47	46		186	147	282	304	421	425	54	73	98	104	
SUM - tetrachloroethane (1,1,1,2 plus 1,1,2,2)	µg/l			<5	<1	93	6	87		2	<1	3	3	4	4	<1	<1	<1	<1	<1

										Lab sample ID	24/07735/4	24/08195/3	24/08993/5	24/09465/1	24/09921/5	24/11222/5	24/06349/7	24/04818/1	24/01702/5	24/04877/3
										Client sample ID	RBH502	RBH502	RBH502	RBH502	RBH502	RBH502	RBH502	RBH502 S	RBH503	RBH503
										Depth to top	16	16	16.3	13	16.3	16.3	16	13.8	8.5	
										Depth to bottom										
										Date sampled	07/08/2024	21/08/2024	17/09/2024	30/09/2024	14/10/2024	18/11/2024	26/06/2024	15/05/2024	20/02/2024	16/05/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects												
1,2-Dibromo-3-chloropropane	µg/l			<10	<2	93	0	93		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dibromoethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/l	3		<10	<2	93	0	93		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dichloropropane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorotoluene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Isopropyltoluene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	µg/l			<25	<5	93	0	93		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	µg/l	100		<50	<10	93	0	93		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bromoform	µg/l	100		<15	<3	93	0	93		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Bromomethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulphide	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	µg/l	3		392	<1	93	47	46		186	148	202	235	299	392	131	95		<1	<1
Chlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	µg/l	100		425	<1	93	47	46		93	76	103	109	124	118	103	52		<1	<1
Chloromethane	µg/l			<50	<10	93	0	93		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
cis 1,2-Dichloroethene	µg/l	50*		360	<1	93	57	36		<1	<1	<1	1	<1	<1	<1	<1	<1	1	51
cis 1,3-Dichloropropene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	µg/l	100		<15	<3	93	0	93		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Dibromomethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichloromethane	µg/l	20*		<25	<5	93	0	93		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Hexachlorobutadiene	µg/l	0.1		<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/l	0.1		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-butylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-propylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	µg/l			<10	<2	93	0	93		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	µg/l	10		<5	<1	93	4	89		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,2-Dichloroethene	µg/l	50*		330	<1	93	38	55		<1	<1	<1	<1	<1	<1	<1	<1	<1	1	21
trans 1,3-Dichloropropene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/l	10		1962	<1	93	49	44		6	6	8	10	14	11	6	6		<1	<1
Trichlorofluoromethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	µg/l	0.5		67	<1	93	22	71		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	35
SUM - TCE and PCE	µg/l	10		1964	<1	93	49	44		6	6	8	10	14	11	6	6		<1	<1
SUM - 1,2 Dichloroethene (cis and trans)	µg/l	50*		649	<1	93	59	34		<1	<1	<1	1	<1	<1	<1	<1	<1	2	72
SUM - trihalomethanes	µg/l	100		425	2	93	47	46		93	76	103	109	124	118	103	52		<10	<10
SUM - tetrachloroethane (1,1,1,2 plus 1,1,2,2)	µg/l			<5	<1	93	6	87		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

										Lab sample ID	24/05884/6	24/06349/2	24/06729/5	24/07236/5	24/07737/4	24/08164/2	24/08993/6	24/09465/4	24/09921/6	24/11222/6
										Client sample ID	RBH503	RBH503	RBH503	RBH503	RBH503	RBH503	RBH503	RBH503	RBH503	RBH503
										Depth to top	8.8	8	9	8	8	8	8.2	7	8.2	8.2
										Depth to bottom										
										Date sampled	12/06/2024	25/06/2024	09/07/2024	23/07/2024	06/08/2024	20/08/2024	17/09/2024	30/09/2024	14/10/2024	18/11/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects												
1,2-Dibromo-3-chloropropane	µg/l			<10	<2	93	0	93		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dibromoethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/l	3		<10	<2	93	0	93		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dichloropropane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorotoluene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Isopropyltoluene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	µg/l			<25	<5	93	0	93		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	µg/l	100		<50	<10	93	0	93		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bromoform	µg/l	100		<15	<3	93	0	93		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Bromomethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulphide	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	µg/l	3		392	<1	93	47	46		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	µg/l	100		425	<1	93	47	46		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	µg/l			<50	<10	93	0	93		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
cis 1,2-Dichloroethene	µg/l	50*		360	<1	93	57	36		82	72	99	83	74	88	103	91	88	82	82
cis 1,3-Dichloropropene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	µg/l	100		<15	<3	93	0	93		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Dibromomethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichloromethane	µg/l	20*		<25	<5	93	0	93		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Hexachlorobutadiene	µg/l	0.1		<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/l	0.1		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-butylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-propylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	µg/l			<10	<2	93	0	93		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	µg/l	10		<5	<1	93	4	89		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,2-Dichloroethene	µg/l	50*		330	<1	93	38	55		34	22	54	28	34	27	49	32	9	46	46
trans 1,3-Dichloropropene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/l	10		1962	<1	93	49	44		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	µg/l	0.5		67	<1	93	22	71		19	56	56	22	59	42	67	55	27	49	49
SUM - TCE and PCE	µg/l	10		1964	<1	93	49	44		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SUM - 1,2 Dichloroethene (cis and trans)	µg/l	50*		649	<1	93	59	34		116	94	153	111	108	115	152	123	97	128	128
SUM - trihalomethanes	µg/l	100		425	2	93	47	46		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SUM - tetrachloroethane (1,1,1,2 plus 1,1,2,2)	µg/l			<5	<1	93	6	87		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

										Lab sample ID	24/01702/4	24/04818/3	24/05884/7	24/06349/5	24/06760/3	24/07236/4	24/07735/1	24/09465/6	24/09921/7	24/11222/7
										Client sample ID	RBH504	RBH504	RBH504	RBH504	RBH504	RBH504	RBH504	RBH504	RBH504	RBH504
										Depth to top	10.5	10.5	10.7	10.5	11	10.5	10.5	8.5	8.7	8.7
										Depth to bottom										
										Date sampled	19/02/2024	15/05/2024	12/06/2024	25/06/2024	10/07/2024	23/07/2024	07/08/2024	30/09/2024	14/10/2024	18/11/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects												
1,2-Dibromo-3-chloropropane	µg/l			<10	<2	93	0	93		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dibromoethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/l	3		<10	<2	93	0	93		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dichloropropane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorotoluene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Isopropyltoluene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	µg/l			<25	<5	93	0	93		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	µg/l	100		<50	<10	93	0	93		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bromoform	µg/l	100		<15	<3	93	0	93		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Bromomethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulphide	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	µg/l	3		392	<1	93	47	46		13	10	11	15	20	19	16	21	25	21	21
Chlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	µg/l	100		425	<1	93	47	46		9	6	8	11	10	11	9	10	11	9	9
Chloromethane	µg/l			<50	<10	93	0	93		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
cis 1,2-Dichloroethene	µg/l	50*		360	<1	93	57	36		137	89	105	149	140	162	145	152	180	158	158
cis 1,3-Dichloropropene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	µg/l	100		<15	<3	93	0	93		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Dibromomethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichloromethane	µg/l	20*		<25	<5	93	0	93		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Hexachlorobutadiene	µg/l	0.1		<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/l	0.1		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-butylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-propylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	µg/l			<10	<2	93	0	93		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	µg/l	10		<5	<1	93	4	89		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,2-Dichloroethene	µg/l	50*		330	<1	93	38	55		2	1	2	2	2	2	2	2	2	2	2
trans 1,3-Dichloropropene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/l	10		1962	<1	93	49	44		45	27	27	28	35	37	28	85	32	55	55
Trichlorofluoromethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	µg/l	0.5		67	<1	93	22	71		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SUM - TCE and PCE	µg/l	10		1964	<1	93	49	44		45	27	27	28	35	37	28	85	32	55	55
SUM - 1,2 Dichloroethene (cis and trans)	µg/l	50*		649	<1	93	59	34		139	90	107	151	142	164	147	154	182	160	160
SUM - trihalomethanes	µg/l	100		425	2	93	47	46		9	6	8	11	10	11	9	10	11	9	9
SUM - tetrachloroethane (1,1,1,2 plus 1,1,2,2)	µg/l			<5	<1	93	6	87		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

										Lab sample ID	24/01702/6	24/05884/8	24/06349/3	24/06729/2	24/07236/6	24/07737/1	24/08993/7	24/09465/7	24/09921/8	24/11222/8
										Client sample ID	RBH505	RBH505	RBH505	RBH505	RBH505	RBH505	RBH505	RBH505	RBH505	RBH505
										Depth to top	11.1	11.2	10.5	11.2	10.5	10.5	10.9	10	10.9	10.9
										Depth to bottom										
										Date sampled	20/02/2024	12/06/2024	25/06/2024	09/07/2024	23/07/2024	06/08/2024	17/09/2024	30/09/2024	14/10/2024	18/11/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects												
1,2-Dibromo-3-chloropropane	µg/l			<10	<2	93	0	93		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dibromoethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/l	3		<10	<2	93	0	93		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dichloropropane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorotoluene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Isopropyltoluene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	µg/l			<25	<5	93	0	93		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	µg/l	100		<50	<10	93	0	93		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bromoform	µg/l	100		<15	<3	93	0	93		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Bromomethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulphide	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	µg/l	3		392	<1	93	47	46		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	µg/l	100		425	<1	93	47	46		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	µg/l			<50	<10	93	0	93		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
cis 1,2-Dichloroethene	µg/l	50*		360	<1	93	57	36		<1	2	<1	<1	<1	<1	<1	1	<1	<1	<1
cis 1,3-Dichloropropene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	µg/l	100		<15	<3	93	0	93		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Dibromomethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichloromethane	µg/l	20*		<25	<5	93	0	93		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Hexachlorobutadiene	µg/l	0.1		<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/l	0.1		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-butylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-propylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	µg/l			<10	<2	93	0	93		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	µg/l	10		<5	<1	93	4	89		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,2-Dichloroethene	µg/l	50*		330	<1	93	38	55		<1	<1	<1	1	<1	<1	1	<1	<1	<1	<1
trans 1,3-Dichloropropene	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/l	10		1962	<1	93	49	44		<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1
Trichlorofluoromethane	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	µg/l	0.5		67	<1	93	22	71		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SUM - TCE and PCE	µg/l	10		1964	<1	93	49	44		<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1
SUM - 1,2 Dichloroethene (cis and trans)	µg/l	50*		649	<1	93	59	34		<1	2	<1	1	<1	<1	2	<1	<1	<1	<1
SUM - trihalomethanes	µg/l	100		425	2	93	47	46		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SUM - tetrachloroethane (1,1,1,2 plus 1,1,2,2)	µg/l			<5	<1	93	6	87		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

									Lab sample ID	24/04877/2	24/08164/4	24/07224/1	24/12118/1	24/12118/7	24/12118/8	24/12118/2	24/12118/3	24/12118/4	24/12118/5
									Client sample ID	RBH505	RBH505	RBH 305	LKBH01	RBH203	RBH305	RBH501	RBH502	RBH503	RBH504
									Depth to top	11.1	10.5	7	13.5	4.5	7	10	14	8	8.5
									Depth to bottom										
									Date sampled	16/05/2024	20/08/2024	24/07/2024	11/12/2024	11/12/2024	12/12/2024	11/12/2024	11/12/2024	12/12/2024	12/12/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects											
1,2-Dibromo-3-chloropropane	µg/l			<10	<2	93	0	93	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dibromoethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/l			<10	<1	93	0	93	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/l	3		<10	<2	93	0	93	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dichloropropane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/l			<10	<1	93	0	93	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	µg/l			<10	<1	93	0	93	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorotoluene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Isopropyltoluene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	µg/l			<25	<5	93	0	93	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	µg/l	100		<50	<10	93	0	93	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bromoform	µg/l	100		<15	<3	93	0	93	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Bromomethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulphide	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	µg/l	3		392	<1	93	47	46	<1	<1	<1	5	42	<1	91	215	2	19	
Chlorobenzene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	µg/l	100		425	<1	93	47	46	<1	<1	<1	3	20	<1	48	70	4	10	
Chloromethane	µg/l			<50	<10	93	0	93	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
cis 1,2-Dichloroethene	µg/l	50*		360	<1	93	57	36	<1	<1	<1	4	<1	<1	2	<1	50	170	
cis 1,3-Dichloropropene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	µg/l	100		<15	<3	93	0	93	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Dibromomethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichloromethane	µg/l	20*		<25	<5	93	0	93	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Hexachlorobutadiene	µg/l	0.1		<10	<1	93	0	93	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/l	0.1		<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-butylbenzene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-propylbenzene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	µg/l			<10	<2	93	0	93	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	µg/l	10		<5	<1	93	4	89	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans 1,2-Dichloroethene	µg/l	50*		330	<1	93	38	55	<1	<1	<1	6	<1	<1	<1	<1	<1	47	2
trans 1,3-Dichloropropene	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/l	10		1962	<1	93	49	44	<1	<1	<1	1	59	<1	252	16	8	40	
Trichlorofluoromethane	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	µg/l	0.5		67	<1	93	22	71	<1	<1	<1	<1	<1	<1	<1	<1	<1	4	<1
SUM - TCE and PCE	µg/l	10		1964	<1	93	49	44	<1	<1	<1	1	59	<1	252	16	8	40	
SUM - 1,2 Dichloroethene (cis and trans)	µg/l	50*		649	<1	93	59	34	<1	<1	<1	10	<1	<1	2	<1	97	172	
SUM - trihalomethanes	µg/l	100		425	2	93	47	46	<10	<10	<10	3	20	<10	48	70	4	10	
SUM - tetrachloroethane (1,1,1,2 plus 1,1,2,2)	µg/l			<5	<1	93	6	87	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

							Lab sample ID	24/12118/6		
							Client sample ID	RBH505		
							Depth to top	11		
							Depth to bottom			
							Date sampled	11/12/2024		
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects		
1,2-Dibromo-3-chloropropane	µg/l			<10	<2	93	0	93	<2	
1,2-Dibromoethane	µg/l			<5	<1	93	0	93	<1	
1,2-Dichlorobenzene	µg/l			<10	<1	93	0	93	<1	
1,2-Dichlorobenzene	µg/l			<5	<1	93	0	93	<1	
1,2-Dichloroethane	µg/l	3		<10	<2	93	0	93	<2	
1,2-Dichloropropane	µg/l			<5	<1	93	0	93	<1	
1,3,5-Trimethylbenzene	µg/l			<5	<1	93	0	93	<1	
1,3-Dichlorobenzene	µg/l			<10	<1	93	0	93	<1	
1,3-Dichlorobenzene	µg/l			<5	<1	93	0	93	<1	
1,3-Dichloropropane	µg/l			<5	<1	93	0	93	<1	
1,4-Dichlorobenzene	µg/l			<10	<1	93	0	93	<1	
1,4-Dichlorobenzene	µg/l			<5	<1	93	0	93	<1	
2,2-Dichloropropane	µg/l			<5	<1	93	0	93	<1	
2-Chlorotoluene	µg/l			<5	<1	93	0	93	<1	
4-Chlorotoluene	µg/l			<5	<1	93	0	93	<1	
4-Isopropyltoluene	µg/l			<5	<1	93	0	93	<1	
Bromobenzene	µg/l			<5	<1	93	0	93	<1	
Bromochloromethane	µg/l			<25	<5	93	0	93	<5	
Bromodichloromethane	µg/l	100		<50	<10	93	0	93	<10	
Bromoform	µg/l	100		<15	<3	93	0	93	<3	
Bromomethane	µg/l			<5	<1	93	0	93	<1	
Carbon Disulphide	µg/l			<5	<1	93	0	93	<1	
Carbon Tetrachloride	µg/l	3		392	<1	93	47	46	<1	
Chlorobenzene	µg/l			<5	<1	93	0	93	<1	
Chloroethane	µg/l			<5	<1	93	0	93	<1	
Chloroform	µg/l	100		425	<1	93	47	46	<1	
Chloromethane	µg/l			<50	<10	93	0	93	<10	
cis 1,2-Dichloroethene	µg/l	50*		360	<1	93	57	36	<1	
cis 1,3-Dichloropropene	µg/l			<5	<1	93	0	93	<1	
Dibromochloromethane	µg/l	100		<15	<3	93	0	93	<3	
Dibromomethane	µg/l			<5	<1	93	0	93	<1	
Dichlorodifluoromethane	µg/l			<5	<1	93	0	93	<1	
Dichloromethane	µg/l	20*		<25	<5	93	0	93	<5	
Hexachlorobutadiene	µg/l	0.1		<10	<1	93	0	93	<1	
Hexachlorobutadiene	µg/l	0.1		<5	<1	93	0	93	<1	
Isopropylbenzene	µg/l			<5	<1	93	0	93	<1	
n-butylbenzene	µg/l			<5	<1	93	0	93	<1	
n-propylbenzene	µg/l			<5	<1	93	0	93	<1	
sec-Butylbenzene	µg/l			<5	<1	93	0	93	<1	
Styrene	µg/l			<5	<1	93	0	93	<1	
tert-Butylbenzene	µg/l			<10	<2	93	0	93	<2	
Tetrachloroethene	µg/l	10		<5	<1	93	4	89	<1	
trans 1,2-Dichloroethene	µg/l	50*		330	<1	93	38	55	<1	
trans 1,3-Dichloropropene	µg/l			<5	<1	93	0	93	<1	
Trichloroethene	µg/l	10		1962	<1	93	49	44	<1	
Trichlorofluoromethane	µg/l			<5	<1	93	0	93	<1	
Vinyl Chloride	µg/l	0.5		67	<1	93	22	71	<1	
SUM - TCE and PCE	µg/l	10		1964	<1	93	49	44	<1	
SUM - 1,2 Dichloroethene (cis and trans)	µg/l	50*		649	<1	93	59	34	<1	
SUM - trihalomethanes	µg/l	100		425	2	93	47	46	<10	
SUM - tetrachloroethane (1,1,1,2 plus 1,1,2,2)	µg/l			<5	<1	93	6	87	<1	

									Lab sample ID	24/01702/7	24/04877/4	24/05884/1	24/06349/1	24/06729/1	24/07236/7	24/07737/2	24/08164/3	24/08993/1	24/09465/8
									Client sample ID	LKBH01	LKBH01	LKBH01	LKBH01	LKBH01	LKBH01	LKBH01	LKBH01	LKBH01	LKBH01
									Depth to top	13.5	13.5	13.2	13	13.2	13.5	13	13	13.2	13
									Depth to bottom										
									Date sampled	20/02/2024	16/05/2024	12/06/2024	25/06/2024	09/07/2024	23/07/2024	06/08/2024	20/08/2024	17/09/2024	30/09/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects											
Polycyclic aromatic hydrocarbons (16)																			
Acenaphthene	µg/l			<1	<1	8	0	8											
Acenaphthene (w)	µg/l			0.57	<0.01	93	48	45	0.3	0.25	0.57	0.29	0.31	0.33	0.21	0.2	0.24	0.01	
Acenaphthylene	µg/l			<1	<1	8	0	8											
Acenaphthylene (w)	µg/l			<0.1	<0.01	93	17	76	0.03	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	<0.10	<0.01
Anthracene	µg/l			<1	<1	8	0	8											
Anthracene (w)	µg/l			0.23	<0.01	93	49	44	0.07	0.06	0.04	0.07	0.09	0.04	0.05	0.05	<0.10	0.01	
Benzo(a)anthracene	µg/l			<1	<1	8	0	8											
Benzo(a)anthracene (w)	µg/l			1.11	<0.01	93	20	73	<0.01	<0.01	0.02	<0.01	0.01	<0.01	<0.01	<0.01	<0.10	0.07	
Benzo(a)pyrene	µg/l	0.01		<1	<1	8	0	8											
Benzo(a)pyrene (w)	µg/l	0.01		1.2	<0.01	93	20	73	<0.01	<0.01	0.02	<0.01	0.01	<0.01	<0.01	<0.01	<0.10	0.08	
Benzo(b)fluoranthene	µg/l	0.1		<1	<1	8	0	8											
Benzo(b)fluoranthene (w)	µg/l	0.1		1.52	<0.01	93	22	71	0.01	<0.01	0.02	<0.01	0.01	<0.01	<0.01	<0.01	<0.10	0.1	
Benzo(ghi)perylene	µg/l	0.1		<1	<1	8	0	8											
Benzo(ghi)perylene (w)	µg/l	0.1		0.87	<0.01	93	13	80	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.10	0.07	
Benzo(k)fluoranthene	µg/l	0.1		<1	<1	8	0	8											
Benzo(k)fluoranthene (w)	µg/l	0.1		0.54	<0.01	93	11	82	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	0.04	
Chrysene	µg/l			<1	<1	8	0	8											
Chrysene (w)	µg/l			1.18	<0.01	93	20	73	<0.01	<0.01	0.02	<0.01	0.01	<0.01	<0.01	<0.01	<0.10	0.08	
Dibenzo(ah)anthracene	µg/l			<1	<1	8	0	8											
Dibenzo(ah)anthracene (w)	µg/l			0.18	<0.01	93	6	87	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	0.01	
Fluoranthene	µg/l			<1	<1	8	0	8											
Fluoranthene (w)	µg/l			1.81	<0.01	93	52	41	0.01	<0.01	0.03	0.01	0.03	<0.01	<0.01	<0.01	<0.10	0.12	
Fluorene	µg/l			<1	<1	8	0	8											
Fluorene (w)	µg/l			0.39	<0.01	93	28	65	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01	
Indeno(1,2,3-cd)pyrene	µg/l	0.1		<1	<1	8	0	8											
Indeno(123-cd)pyrene (w)	µg/l	0.1		0.86	<0.01	93	13	80	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	0.07	
Naphthalene	µg/l			<1	<1	8	0	8											
Naphthalene (w)	µg/l			0.49	<0.01	93	47	46	0.03	0.01	0.18	0.01	0.02	<0.01	0.06	0.04	<0.10	<0.01	
Perylene	µg/l			<10	<1	93	1	92	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1	
Phenanthrene	µg/l			<1	<1	8	0	8											
Phenanthrene (w)	µg/l			1.48	<0.01	93	40	53	<0.01	<0.01	0.02	<0.01	0.02	<0.01	<0.01	<0.01	<0.10	0.04	
Pyrene	µg/l			<1	<1	8	0	8											
Pyrene (w)	µg/l			1.76	<0.01	93	59	34	0.02	<0.01	0.03	0.02	0.04	<0.01	<0.01	0.01	<0.10	0.13	
Total PAH 16MS (w)	µg/l			12.6	<0.01	93	72	21	0.47	0.34	0.99	0.42	0.58	0.38	0.33	0.32	0.24	0.83	
Semi-volatile organic compounds																			
2,4-Dinitrotoluene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
2,6-Dinitrotoluene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
2-Chloronaphthalene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
2-Methylnaphthalene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
4-Bromophenyl phenyl ether	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
Bis(2-chloroethoxy)methane	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
Bis(2-chloroethyl)ether	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
Bis(2-chloroisopropyl)ether	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
Bis(2-ethylhexyl)phthalate	µg/l	8*		<100	<10	93	0	93	<10	<10	<10	<10	<10	<10	<100	<10	<10	<100	<10
Butylbenzyl phthalate	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
Carbazole	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
Dibenzofuran	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
Diethyl phthalate	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
Dimethyl phthalate	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
Hexachlorobenzene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1

									Lab sample ID	24/09921/1	24/11222/1	24/01702/2	24/04818/2	24/05884/2	24/06349/8	24/06760/1	24/07236/1	24/07735/3	24/08195/2
									Client sample ID	LKBH01	LKBH01	RBH203	RBH203	RBH203	RBH203	RBH203	RBH203	RBH203	RBH203
									Depth to top	13.2	13.2	15	15	14.9	14.5	15	14.5	14.5	14.5
									Depth to bottom										
									Date sampled	14/10/2024	18/11/2024	19/02/2024	15/05/2024	12/06/2024	26/06/2024	10/07/2024	23/07/2024	07/08/2024	21/08/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects											
Polycyclic aromatic hydrocarbons (16)																			
Acenaphthene	µg/l			<1	<1	8	0	8	<1										
Acenaphthene (w)	µg/l			0.57	<0.01	93	48	45	0.24	0.29	<0.01	0.06	<0.01	0.01	0.12	0.02	0.06	<0.01	
Acenaphthylene	µg/l			<1	<1	8	0	8	<1										
Acenaphthylene (w)	µg/l			<0.1	<0.01	93	17	76	0.02	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Anthracene	µg/l			<1	<1	8	0	8	<1										
Anthracene (w)	µg/l			0.23	<0.01	93	49	44	0.07	0.08	<0.01	0.02	<0.01	<0.01	0.12	<0.01	0.07	<0.01	
Benzo(a)anthracene	µg/l			<1	<1	8	0	8	<1										
Benzo(a)anthracene (w)	µg/l			1.11	<0.01	93	20	73	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Benzo(a)pyrene	µg/l	0.01		<1	<1	8	0	8	<1										
Benzo(a)pyrene (w)	µg/l	0.01		1.2	<0.01	93	20	73	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Benzo(b)fluoranthene	µg/l	0.1		<1	<1	8	0	8	<1										
Benzo(b)fluoranthene (w)	µg/l	0.1		1.52	<0.01	93	22	71	0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Benzo(ghi)perylene	µg/l	0.1		<1	<1	8	0	8	<1										
Benzo(ghi)perylene (w)	µg/l	0.1		0.87	<0.01	93	13	80	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Benzo(k)fluoranthene	µg/l	0.1		<1	<1	8	0	8	<1										
Benzo(k)fluoranthene (w)	µg/l	0.1		0.54	<0.01	93	11	82	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Chrysene	µg/l			<1	<1	8	0	8	<1										
Chrysene (w)	µg/l			1.18	<0.01	93	20	73	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Dibenzo(ah)anthracene	µg/l			<1	<1	8	0	8	<1										
Dibenzo(ah)anthracene (w)	µg/l			0.18	<0.01	93	6	87	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Fluoranthene	µg/l			<1	<1	8	0	8	<1										
Fluoranthene (w)	µg/l			1.81	<0.01	93	52	41	0.02	0.07	<0.01	0.15	0.02	0.04	0.23	0.08	0.19	0.08	
Fluorene	µg/l			<1	<1	8	0	8	<1										
Fluorene (w)	µg/l			0.39	<0.01	93	28	65	<0.01	0.01	<0.01	0.06	<0.01	<0.01	0.13	<0.01	0.09	<0.01	
Indeno(1,2,3-cd)pyrene	µg/l	0.1		<1	<1	8	0	8	<1										
Indeno(123-cd)pyrene (w)	µg/l	0.1		0.86	<0.01	93	13	80	0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Naphthalene	µg/l			<1	<1	8	0	8	<1										
Naphthalene (w)	µg/l			0.49	<0.01	93	47	46	0.03	0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	0.05	<0.01	
Perylene	µg/l			<10	<1	93	1	92	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Phenanthrene	µg/l			<1	<1	8	0	8	<1										
Phenanthrene (w)	µg/l			1.48	<0.01	93	40	53	<0.01	0.03	<0.01	0.04	<0.01	<0.01	0.98	0.03	0.72	<0.01	
Pyrene	µg/l			<1	<1	8	0	8	<1										
Pyrene (w)	µg/l			1.76	<0.01	93	59	34	0.02	0.08	0.05	0.15	0.08	0.09	0.17	0.11	0.14	0.06	
Total PAH 16MS (w)	µg/l			12.6	<0.01	93	72	21	0.42	0.84	0.05	0.48	0.14	0.14	1.75	0.24	1.32	0.14	
Semi-volatile organic compounds																			
2,4-Dinitrotoluene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,6-Dinitrotoluene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chloronaphthalene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Methylnaphthalene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Bromophenyl phenyl ether	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-chloroethoxy)methane	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-chloroethyl)ether	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-chloroisopropyl)ether	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-ethylhexyl)phthalate	µg/l	8*		<100	<10	93	0	93	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Butylbenzyl phthalate	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbazole	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibenzofuran	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Diethyl phthalate	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dimethyl phthalate	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobenzene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

									Lab sample ID	24/08993/2	24/09465/2	24/09921/2	24/11222/2	24/04877/1	24/05884/3	24/06349/4	24/06729/4	24/07737/3	24/08164/1
									Client sample ID	RBH203	RBH203	RBH203	RBH203	RBH305	RBH305	RBH305	RBH305	RBH305	RBH305
									Depth to top	14.8	13	14.8	14.8	7.1	7	7	7	7	7
									Depth to bottom										
									Date sampled	17/09/2024	30/09/2024	14/10/2024	18/11/2024	16/05/2024	12/06/2024	25/06/2024	09/07/2024	06/08/2024	20/08/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects											
Polycyclic aromatic hydrocarbons (16)																			
Acenaphthene	µg/l			<1	<1	8	0	8				<1							
Acenaphthene (w)	µg/l			0.57	<0.01	93	48	45	<0.01	<0.01	0.32	0.4	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	µg/l			<1	<1	8	0	8				<1							
Acenaphthylene (w)	µg/l			<0.1	<0.01	93	17	76	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Anthracene	µg/l			<1	<1	8	0	8				<1							
Anthracene (w)	µg/l			0.23	<0.01	93	49	44	0.02	<0.01	0.04	0.16	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)anthracene	µg/l			<1	<1	8	0	8				<1							
Benzo(a)anthracene (w)	µg/l			1.11	<0.01	93	20	73	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)pyrene	µg/l	0.01		<1	<1	8	0	8				<1							
Benzo(a)pyrene (w)	µg/l	0.01		1.2	<0.01	93	20	73	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	µg/l	0.1		<1	<1	8	0	8				<1							
Benzo(b)fluoranthene (w)	µg/l	0.1		1.52	<0.01	93	22	71	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)perylene	µg/l	0.1		<1	<1	8	0	8				<1							
Benzo(ghi)perylene (w)	µg/l	0.1		0.87	<0.01	93	13	80	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	µg/l	0.1		<1	<1	8	0	8				<1							
Benzo(k)fluoranthene (w)	µg/l	0.1		0.54	<0.01	93	11	82	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	µg/l			<1	<1	8	0	8				<1							
Chrysene (w)	µg/l			1.18	<0.01	93	20	73	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenzo(ah)anthracene	µg/l			<1	<1	8	0	8				<1							
Dibenzo(ah)anthracene (w)	µg/l			0.18	<0.01	93	6	87	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoranthene	µg/l			<1	<1	8	0	8				<1							
Fluoranthene (w)	µg/l			1.81	<0.01	93	52	41	0.1	0.01	0.15	0.24	<0.01	0.01	<0.01	0.01	<0.01	<0.01	<0.01
Fluorene	µg/l			<1	<1	8	0	8				<1							
Fluorene (w)	µg/l			0.39	<0.01	93	28	65	<0.01	<0.01	0.11	0.39	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.1		<1	<1	8	0	8				<1							
Indeno(123-cd)pyrene (w)	µg/l	0.1		0.86	<0.01	93	13	80	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Naphthalene	µg/l			<1	<1	8	0	8				<1							
Naphthalene (w)	µg/l			0.49	<0.01	93	47	46	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01
Perylene	µg/l			<10	<1	93	1	92	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenanthrene	µg/l			<1	<1	8	0	8				<1							
Phenanthrene (w)	µg/l			1.48	<0.01	93	40	53	0.01	<0.01	0.19	1.48	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Pyrene	µg/l			<1	<1	8	0	8				<1							
Pyrene (w)	µg/l			1.76	<0.01	93	59	34	0.14	0.05	0.13	0.19	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01
Total PAH 16MS (w)	µg/l			12.6	<0.01	93	72	21	0.34	0.06	0.94	2.89	<0.01	0.01	<0.01	0.02	0.02	0.02	<0.01
Semi-volatile organic compounds																			
2,4-Dinitrotoluene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,6-Dinitrotoluene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chloronaphthalene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Methylnaphthalene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Bromophenyl phenyl ether	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-chloroethoxy)methane	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-chloroethyl)ether	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-chloroisopropyl)ether	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-ethylhexyl)phthalate	µg/l	8*		<100	<10	93	0	93	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Butylbenzyl phthalate	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbazole	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibenzofuran	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Diethyl phthalate	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dimethyl phthalate	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobenzene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

									Lab sample ID	24/08993/3	24/09465/5	24/09921/3	24/11222/3	24/01702/3	24/04818/4	24/05884/4	24/06349/6	24/06760/2	24/07236/2
									Client sample ID	RBH305	RBH305	RBH305	RBH305	RBH501	RBH501	RBH501	RBH501	RBH501	RBH501
									Depth to top	7.2	7	7.2	7.2	13	13	13.7	12.5	13.75	12.5
									Depth to bottom										
									Date sampled	17/09/2024	30/09/2024	14/10/2024	18/11/2024	19/02/2024	15/05/2024	12/06/2024	26/06/2024	10/07/2024	23/07/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects											
Polycyclic aromatic hydrocarbons (16)																			
Acenaphthene	µg/l			<1	<1	8	0	8				<1							
Acenaphthene (w)	µg/l			0.57	<0.01	93	48	45	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	µg/l			<1	<1	8	0	8				<1							
Acenaphthylene (w)	µg/l			<0.1	<0.01	93	17	76	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Anthracene	µg/l			<1	<1	8	0	8				<1							
Anthracene (w)	µg/l			0.23	<0.01	93	49	44	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)anthracene	µg/l			<1	<1	8	0	8				<1							
Benzo(a)anthracene (w)	µg/l			1.11	<0.01	93	20	73	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)pyrene	µg/l	0.01		<1	<1	8	0	8				<1							
Benzo(a)pyrene (w)	µg/l	0.01		1.2	<0.01	93	20	73	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	µg/l	0.1		<1	<1	8	0	8				<1							
Benzo(b)fluoranthene (w)	µg/l	0.1		1.52	<0.01	93	22	71	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)perylene	µg/l	0.1		<1	<1	8	0	8				<1							
Benzo(ghi)perylene (w)	µg/l	0.1		0.87	<0.01	93	13	80	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	µg/l	0.1		<1	<1	8	0	8				<1							
Benzo(k)fluoranthene (w)	µg/l	0.1		0.54	<0.01	93	11	82	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	µg/l			<1	<1	8	0	8				<1							
Chrysene (w)	µg/l			1.18	<0.01	93	20	73	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenzo(ah)anthracene	µg/l			<1	<1	8	0	8				<1							
Dibenzo(ah)anthracene (w)	µg/l			0.18	<0.01	93	6	87	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoranthene	µg/l			<1	<1	8	0	8				<1							
Fluoranthene (w)	µg/l			1.81	<0.01	93	52	41	0.01	0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluorene	µg/l			<1	<1	8	0	8				<1							
Fluorene (w)	µg/l			0.39	<0.01	93	28	65	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.1		<1	<1	8	0	8				<1							
Indeno(123-cd)pyrene (w)	µg/l	0.1		0.86	<0.01	93	13	80	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Naphthalene	µg/l			<1	<1	8	0	8				<1							
Naphthalene (w)	µg/l			0.49	<0.01	93	47	46	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Perylene	µg/l			<10	<1	93	1	92	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenanthrene	µg/l			<1	<1	8	0	8				<1							
Phenanthrene (w)	µg/l			1.48	<0.01	93	40	53	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Pyrene	µg/l			<1	<1	8	0	8				<1							
Pyrene (w)	µg/l			1.76	<0.01	93	59	34	0.01	0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total PAH 16MS (w)	µg/l			12.6	<0.01	93	72	21	0.04	0.02	<0.01	0.16	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Semi-volatile organic compounds																			
2,4-Dinitrotoluene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,6-Dinitrotoluene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chloronaphthalene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Methylnaphthalene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Bromophenyl phenyl ether	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-chloroethoxy)methane	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-chloroethyl)ether	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-chloroisopropyl)ether	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-ethylhexyl)phthalate	µg/l	8*		<100	<10	93	0	93	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Butylbenzyl phthalate	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbazole	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibenzofuran	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Diethyl phthalate	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dimethyl phthalate	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobenzene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

									Lab sample ID	24/07735/2	24/08195/1	24/08993/4	24/09465/3	24/09921/4	24/11222/4	24/01702/1	24/05884/5	24/06729/3	24/07236/3
									Client sample ID	RBH501	RBH501	RBH501	RBH501	RBH501	RBH501	RBH502	RBH502	RBH502	RBH502
									Depth to top	12.5	12.5	13	10	13	13	13.8	15.8	15.8	16
									Depth to bottom										
									Date sampled	07/08/2024	21/08/2024	17/09/2024	30/09/2024	14/10/2024	18/11/2024	19/02/2024	12/06/2024	09/07/2024	23/07/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects											
Polycyclic aromatic hydrocarbons (16)																			
Acenaphthene	µg/l			<1	<1	8	0	8						<1					
Acenaphthene (w)	µg/l			0.57	<0.01	93	48	45	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	µg/l			<1	<1	8	0	8						<1					
Acenaphthylene (w)	µg/l			<0.1	<0.01	93	17	76	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Anthracene	µg/l			<1	<1	8	0	8						<1					
Anthracene (w)	µg/l			0.23	<0.01	93	49	44	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)anthracene	µg/l			<1	<1	8	0	8						<1					
Benzo(a)anthracene (w)	µg/l			1.11	<0.01	93	20	73	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)pyrene	µg/l	0.01		<1	<1	8	0	8						<1					
Benzo(a)pyrene (w)	µg/l	0.01		1.2	<0.01	93	20	73	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	µg/l	0.1		<1	<1	8	0	8						<1					
Benzo(b)fluoranthene (w)	µg/l	0.1		1.52	<0.01	93	22	71	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)perylene	µg/l	0.1		<1	<1	8	0	8						<1					
Benzo(ghi)perylene (w)	µg/l	0.1		0.87	<0.01	93	13	80	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	µg/l	0.1		<1	<1	8	0	8						<1					
Benzo(k)fluoranthene (w)	µg/l	0.1		0.54	<0.01	93	11	82	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	µg/l			<1	<1	8	0	8						<1					
Chrysene (w)	µg/l			1.18	<0.01	93	20	73	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenzo(ah)anthracene	µg/l			<1	<1	8	0	8						<1					
Dibenzo(ah)anthracene (w)	µg/l			0.18	<0.01	93	6	87	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoranthene	µg/l			<1	<1	8	0	8						<1					
Fluoranthene (w)	µg/l			1.81	<0.01	93	52	41	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
Fluorene	µg/l			<1	<1	8	0	8						<1					
Fluorene (w)	µg/l			0.39	<0.01	93	28	65	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.1		<1	<1	8	0	8						<1					
Indeno(123-cd)pyrene (w)	µg/l	0.1		0.86	<0.01	93	13	80	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Naphthalene	µg/l			<1	<1	8	0	8						<1					
Naphthalene (w)	µg/l			0.49	<0.01	93	47	46	0.02	0.02	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Perylene	µg/l			<10	<1	93	1	92	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenanthrene	µg/l			<1	<1	8	0	8						<1					
Phenanthrene (w)	µg/l			1.48	<0.01	93	40	53	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Pyrene	µg/l			<1	<1	8	0	8						<1					
Pyrene (w)	µg/l			1.76	<0.01	93	59	34	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
Total PAH 16MS (w)	µg/l			12.6	<0.01	93	72	21	0.02	0.02	0.03	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02
Semi-volatile organic compounds																			
2,4-Dinitrotoluene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,6-Dinitrotoluene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chloronaphthalene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Methylnaphthalene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Bromophenyl phenyl ether	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-chloroethoxy)methane	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-chloroethyl)ether	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-chloroisopropyl)ether	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-ethylhexyl)phthalate	µg/l	8*		<100	<10	93	0	93	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Butylbenzyl phthalate	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbazole	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibenzofuran	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Diethyl phthalate	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dimethyl phthalate	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobenzene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

									Lab sample ID	24/07735/4	24/08195/3	24/08993/5	24/09465/1	24/09921/5	24/11222/5	24/06349/7	24/04818/1	24/01702/5	24/04877/3
									Client sample ID	RBH502	RBH502	RBH502	RBH502	RBH502	RBH502	RBH502	RBH502 S	RBH503	RBH503
									Depth to top	16	16	16.3	13	16.3	16.3	16	13.8	8.5	
									Depth to bottom										
									Date sampled	07/08/2024	21/08/2024	17/09/2024	30/09/2024	14/10/2024	18/11/2024	26/06/2024	15/05/2024	20/02/2024	16/05/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects											
Polycyclic aromatic hydrocarbons (16)																			
Acenaphthene	µg/l			<1	<1	8	0	8						<1					
Acenaphthene (w)	µg/l			0.57	<0.01	93	48	45	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.1	0.09
Acenaphthylene	µg/l			<1	<1	8	0	8						<1					
Acenaphthylene (w)	µg/l			<0.1	<0.01	93	17	76	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.07	<0.01
Anthracene	µg/l			<1	<1	8	0	8						<1					
Anthracene (w)	µg/l			0.23	<0.01	93	49	44	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.23	0.02
Benzo(a)anthracene	µg/l			<1	<1	8	0	8						<1					
Benzo(a)anthracene (w)	µg/l			1.11	<0.01	93	20	73	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1.11	<0.01
Benzo(a)pyrene	µg/l	0.01		<1	<1	8	0	8						<1					
Benzo(a)pyrene (w)	µg/l	0.01		1.2	<0.01	93	20	73	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1.2	<0.01
Benzo(b)fluoranthene	µg/l	0.1		<1	<1	8	0	8						<1					
Benzo(b)fluoranthene (w)	µg/l	0.1		1.52	<0.01	93	22	71	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1.52	<0.01
Benzo(ghi)perylene	µg/l	0.1		<1	<1	8	0	8						<1					
Benzo(ghi)perylene (w)	µg/l	0.1		0.87	<0.01	93	13	80	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.87	<0.01
Benzo(k)fluoranthene	µg/l	0.1		<1	<1	8	0	8						<1					
Benzo(k)fluoranthene (w)	µg/l	0.1		0.54	<0.01	93	11	82	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.54	<0.01
Chrysene	µg/l			<1	<1	8	0	8						<1					
Chrysene (w)	µg/l			1.18	<0.01	93	20	73	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1.18	<0.01
Dibenzo(ah)anthracene	µg/l			<1	<1	8	0	8						<1					
Dibenzo(ah)anthracene (w)	µg/l			0.18	<0.01	93	6	87	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.18	<0.01
Fluoranthene	µg/l			<1	<1	8	0	8						<1					
Fluoranthene (w)	µg/l			1.81	<0.01	93	52	41	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1.81	0.02
Fluorene	µg/l			<1	<1	8	0	8						<1					
Fluorene (w)	µg/l			0.39	<0.01	93	28	65	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.11	0.02
Indeno(1,2,3-cd)pyrene	µg/l	0.1		<1	<1	8	0	8						<1					
Indeno(123-cd)pyrene (w)	µg/l	0.1		0.86	<0.01	93	13	80	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.86	<0.01
Naphthalene	µg/l			<1	<1	8	0	8						<1					
Naphthalene (w)	µg/l			0.49	<0.01	93	47	46	<0.01	<0.01	0.04	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.25	0.04
Perylene	µg/l			<10	<1	93	1	92	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1
Phenanthrene	µg/l			<1	<1	8	0	8						<1					
Phenanthrene (w)	µg/l			1.48	<0.01	93	40	53	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.83	0.02
Pyrene	µg/l			<1	<1	8	0	8						<1					
Pyrene (w)	µg/l			1.76	<0.01	93	59	34	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1.76	0.02
Total PAH 16MS (w)	µg/l			12.6	<0.01	93	72	21	<0.01	<0.01	0.04	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	12.6	0.23
Semi-volatile organic compounds																			
2,4-Dinitrotoluene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,6-Dinitrotoluene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chloronaphthalene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Methylnaphthalene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Bromophenyl phenyl ether	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-chloroethoxy)methane	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-chloroethyl)ether	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-chloroisopropyl)ether	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-ethylhexyl)phthalate	µg/l	8*		<100	<10	93	0	93	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Butylbenzyl phthalate	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbazole	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibenzofuran	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Diethyl phthalate	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dimethyl phthalate	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobenzene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

									Lab sample ID	24/05884/6	24/06349/2	24/06729/5	24/07236/5	24/07737/4	24/08164/2	24/08993/6	24/09465/4	24/09921/6	24/11222/6
									Client sample ID	RBH503	RBH503	RBH503	RBH503	RBH503	RBH503	RBH503	RBH503	RBH503	RBH503
									Depth to top	8.8	8	9	8	8	8	8.2	7	8.2	8.2
									Depth to bottom										
									Date sampled	12/06/2024	25/06/2024	09/07/2024	23/07/2024	06/08/2024	20/08/2024	17/09/2024	30/09/2024	14/10/2024	18/11/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects											
Polycyclic aromatic hydrocarbons (16)																			
Acenaphthene	µg/l			<1	<1	8	0	8										<1	
Acenaphthene (w)	µg/l			0.57	<0.01	93	48	45	0.13	0.11	0.24	0.12	0.17	0.09	0.25	0.14	0.22	0.29	
Acenaphthylene	µg/l			<1	<1	8	0	8										<1	
Acenaphthylene (w)	µg/l			<0.1	<0.01	93	17	76	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.02	0.01	<0.01	0.01	
Anthracene	µg/l			<1	<1	8	0	8										<1	
Anthracene (w)	µg/l			0.23	<0.01	93	49	44	0.04	0.05	0.08	0.03	0.06	0.05	0.14	0.05	0.05	0.08	
Benzo(a)anthracene	µg/l			<1	<1	8	0	8										<1	
Benzo(a)anthracene (w)	µg/l			1.11	<0.01	93	20	73	0.13	0.05	0.14	<0.01	0.05	0.05	0.35	0.06	<0.01	0.01	
Benzo(a)pyrene	µg/l	0.01		<1	<1	8	0	8										<1	
Benzo(a)pyrene (w)	µg/l	0.01		1.2	<0.01	93	20	73	0.17	0.06	0.16	<0.01	0.05	0.06	0.45	0.07	<0.01	0.01	
Benzo(b)fluoranthene	µg/l	0.1		<1	<1	8	0	8										<1	
Benzo(b)fluoranthene (w)	µg/l	0.1		1.52	<0.01	93	22	71	0.21	0.06	0.21	<0.01	0.07	0.06	0.63	0.08	<0.01	0.02	
Benzo(ghi)perylene	µg/l	0.1		<1	<1	8	0	8										<1	
Benzo(ghi)perylene (w)	µg/l	0.1		0.87	<0.01	93	13	80	0.1	0.04	0.14	<0.01	0.04	0.04	0.38	0.05	<0.01	<0.01	
Benzo(k)fluoranthene	µg/l	0.1		<1	<1	8	0	8										<1	
Benzo(k)fluoranthene (w)	µg/l	0.1		0.54	<0.01	93	11	82	0.07	0.03	0.08	<0.01	0.03	0.03	0.22	0.03	<0.01	<0.01	
Chrysene	µg/l			<1	<1	8	0	8										<1	
Chrysene (w)	µg/l			1.18	<0.01	93	20	73	0.15	0.06	0.18	<0.01	0.05	0.06	0.42	0.07	<0.01	0.02	
Dibenzo(ah)anthracene	µg/l			<1	<1	8	0	8										<1	
Dibenzo(ah)anthracene (w)	µg/l			0.18	<0.01	93	6	87	0.02	<0.01	0.02	<0.01	<0.01	<0.01	0.06	0.01	<0.01	<0.01	
Fluoranthene	µg/l			<1	<1	8	0	8										<1	
Fluoranthene (w)	µg/l			1.81	<0.01	93	52	41	0.28	0.13	0.4	0.04	0.15	0.15	0.91	0.15	0.02	0.05	
Fluorene	µg/l			<1	<1	8	0	8										<1	
Fluorene (w)	µg/l			0.39	<0.01	93	28	65	0.03	0.03	0.04	0.02	0.03	0.02	0.06	0.03	0.02	0.03	
Indeno(1,2,3-cd)pyrene	µg/l	0.1		<1	<1	8	0	8										<1	
Indeno(123-cd)pyrene (w)	µg/l	0.1		0.86	<0.01	93	13	80	0.09	0.04	0.13	<0.01	0.04	0.04	0.38	0.05	<0.01	<0.01	
Naphthalene	µg/l			<1	<1	8	0	8										<1	
Naphthalene (w)	µg/l			0.49	<0.01	93	47	46	0.05	0.03	0.06	0.05	0.07	0.04	0.1	0.04	0.03	0.04	
Perylene	µg/l			<10	<1	93	1	92	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Phenanthrene	µg/l			<1	<1	8	0	8										<1	
Phenanthrene (w)	µg/l			1.48	<0.01	93	40	53	0.13	0.06	0.17	0.04	0.07	0.06	0.36	0.07	0.02	0.03	
Pyrene	µg/l			<1	<1	8	0	8										<1	
Pyrene (w)	µg/l			1.76	<0.01	93	59	34	0.26	0.11	0.36	0.03	0.14	0.13	0.86	0.13	0.01	0.04	
Total PAH 16MS (w)	µg/l			12.6	<0.01	93	72	21	1.86	0.86	2.42	0.33	1.02	0.88	5.59	1.04	0.37	0.63	
Semi-volatile organic compounds																			
2,4-Dinitrotoluene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,6-Dinitrotoluene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chloronaphthalene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Methylnaphthalene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Bromophenyl phenyl ether	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-chloroethoxy)methane	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-chloroethyl)ether	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-chloroisopropyl)ether	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-ethylhexyl)phthalate	µg/l	8*		<100	<10	93	0	93	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Butylbenzyl phthalate	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbazole	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibenzofuran	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Diethyl phthalate	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dimethyl phthalate	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobenzene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

									Lab sample ID	24/01702/4	24/04818/3	24/05884/7	24/06349/5	24/06760/3	24/07236/4	24/07735/1	24/09465/6	24/09921/7	24/11222/7
									Client sample ID	RBH504	RBH504	RBH504	RBH504	RBH504	RBH504	RBH504	RBH504	RBH504	RBH504
									Depth to top	10.5	10.5	10.7	10.5	11	10.5	10.5	8.5	8.7	8.7
									Depth to bottom										
									Date sampled	19/02/2024	15/05/2024	12/06/2024	25/06/2024	10/07/2024	23/07/2024	07/08/2024	30/09/2024	14/10/2024	18/11/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects											
Polycyclic aromatic hydrocarbons (16)																			
Acenaphthene	µg/l			<1	<1	8	0	8										<1	
Acenaphthene (w)	µg/l			0.57	<0.01	93	48	45	<0.01	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	0.24	0.36	0.2
Acenaphthylene	µg/l			<1	<1	8	0	8										<1	
Acenaphthylene (w)	µg/l			<0.1	<0.01	93	17	76	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Anthracene	µg/l			<1	<1	8	0	8										<1	
Anthracene (w)	µg/l			0.23	<0.01	93	49	44	0.05	0.03	0.04	0.03	0.04	0.03	0.06	0.06	0.06	0.1	0.08
Benzo(a)anthracene	µg/l			<1	<1	8	0	8										<1	
Benzo(a)anthracene (w)	µg/l			1.11	<0.01	93	20	73	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)pyrene	µg/l	0.01		<1	<1	8	0	8										<1	
Benzo(a)pyrene (w)	µg/l	0.01		1.2	<0.01	93	20	73	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	µg/l	0.1		<1	<1	8	0	8										<1	
Benzo(b)fluoranthene (w)	µg/l	0.1		1.52	<0.01	93	22	71	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)perylene	µg/l	0.1		<1	<1	8	0	8										<1	
Benzo(ghi)perylene (w)	µg/l	0.1		0.87	<0.01	93	13	80	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	µg/l	0.1		<1	<1	8	0	8										<1	
Benzo(k)fluoranthene (w)	µg/l	0.1		0.54	<0.01	93	11	82	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	µg/l			<1	<1	8	0	8										<1	
Chrysene (w)	µg/l			1.18	<0.01	93	20	73	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenzo(ah)anthracene	µg/l			<1	<1	8	0	8										<1	
Dibenzo(ah)anthracene (w)	µg/l			0.18	<0.01	93	6	87	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoranthene	µg/l			<1	<1	8	0	8										<1	
Fluoranthene (w)	µg/l			1.81	<0.01	93	52	41	0.06	0.02	0.02	0.01	0.01	<0.01	0.01	0.05	0.09	0.06	0.06
Fluorene	µg/l			<1	<1	8	0	8										<1	
Fluorene (w)	µg/l			0.39	<0.01	93	28	65	<0.01	0.02	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.11	0.23	0.14
Indeno(1,2,3-cd)pyrene	µg/l	0.1		<1	<1	8	0	8										<1	
Indeno(123-cd)pyrene (w)	µg/l	0.1		0.86	<0.01	93	13	80	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Naphthalene	µg/l			<1	<1	8	0	8										<1	
Naphthalene (w)	µg/l			0.49	<0.01	93	47	46	0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.29	0.49	0.21
Perylene	µg/l			<10	<1	93	1	92	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenanthrene	µg/l			<1	<1	8	0	8										<1	
Phenanthrene (w)	µg/l			1.48	<0.01	93	40	53	0.03	0.02	0.01	0.01	0.01	0.01	<0.01	<0.01	0.07	0.3	0.14
Pyrene	µg/l			<1	<1	8	0	8										<1	
Pyrene (w)	µg/l			1.76	<0.01	93	59	34	0.07	0.02	0.03	0.01	0.01	<0.01	0.02	0.05	0.07	0.07	0.06
Total PAH 16MS (w)	µg/l			12.6	<0.01	93	72	21	0.43	0.14	0.14	0.14	0.06	0.07	0.03	0.11	0.87	1.64	0.89
Semi-volatile organic compounds																			
2,4-Dinitrotoluene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,6-Dinitrotoluene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chloronaphthalene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Methylnaphthalene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Bromophenyl phenyl ether	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-chloroethoxy)methane	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-chloroethyl)ether	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-chloroisopropyl)ether	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-ethylhexyl)phthalate	µg/l	8*		<100	<10	93	0	93	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Butylbenzyl phthalate	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbazole	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibenzofuran	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Diethyl phthalate	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dimethyl phthalate	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobenzene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

									Lab sample ID	24/01702/6	24/05884/8	24/06349/3	24/06729/2	24/07236/6	24/07737/1	24/08993/7	24/09465/7	24/09921/8	24/11222/8
									Client sample ID	RBH505	RBH505	RBH505	RBH505	RBH505	RBH505	RBH505	RBH505	RBH505	RBH505
									Depth to top	11.1	11.2	10.5	11.2	10.5	10.5	10.9	10	10.9	10.9
									Depth to bottom										
									Date sampled	20/02/2024	12/06/2024	25/06/2024	09/07/2024	23/07/2024	06/08/2024	17/09/2024	30/09/2024	14/10/2024	18/11/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects											
Polycyclic aromatic hydrocarbons (16)																			
Acenaphthene	µg/l			<1	<1	8	0	8										<1	
Acenaphthene (w)	µg/l			0.57	<0.01	93	48	45	0.14	0.18	0.15	0.21	0.13	0.15	0.13	0.04	0.13	0.18	
Acenaphthylene	µg/l			<1	<1	8	0	8										<1	
Acenaphthylene (w)	µg/l			<0.1	<0.01	93	17	76	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	
Anthracene	µg/l			<1	<1	8	0	8										<1	
Anthracene (w)	µg/l			0.23	<0.01	93	49	44	0.03	0.04	0.03	0.05	0.03	0.04	0.04	<0.01	<0.01	0.05	
Benzo(a)anthracene	µg/l			<1	<1	8	0	8										<1	
Benzo(a)anthracene (w)	µg/l			1.11	<0.01	93	20	73	<0.01	0.01	<0.01	0.01	<0.01	<0.01	0.01	0.01	<0.01	<0.01	
Benzo(a)pyrene	µg/l	0.01		<1	<1	8	0	8										<1	
Benzo(a)pyrene (w)	µg/l	0.01		1.2	<0.01	93	20	73	<0.01	0.01	<0.01	0.02	<0.01	<0.01	0.01	0.01	<0.01	<0.01	
Benzo(b)fluoranthene	µg/l	0.1		<1	<1	8	0	8										<1	
Benzo(b)fluoranthene (w)	µg/l	0.1		1.52	<0.01	93	22	71	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	0.02	0.02	<0.01	<0.01	
Benzo(ghi)perylene	µg/l	0.1		<1	<1	8	0	8										<1	
Benzo(ghi)perylene (w)	µg/l	0.1		0.87	<0.01	93	13	80	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Benzo(k)fluoranthene	µg/l	0.1		<1	<1	8	0	8										<1	
Benzo(k)fluoranthene (w)	µg/l	0.1		0.54	<0.01	93	11	82	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Chrysene	µg/l			<1	<1	8	0	8										<1	
Chrysene (w)	µg/l			1.18	<0.01	93	20	73	<0.01	0.02	<0.01	0.01	<0.01	<0.01	0.02	0.01	<0.01	<0.01	
Dibenzo(ah)anthracene	µg/l			<1	<1	8	0	8										<1	
Dibenzo(ah)anthracene (w)	µg/l			0.18	<0.01	93	6	87	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Fluoranthene	µg/l			<1	<1	8	0	8										<1	
Fluoranthene (w)	µg/l			1.81	<0.01	93	52	41	<0.01	0.03	0.01	0.03	<0.01	0.01	0.03	0.02	<0.01	<0.01	
Fluorene	µg/l			<1	<1	8	0	8										<1	
Fluorene (w)	µg/l			0.39	<0.01	93	28	65	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.01	
Indeno(1,2,3-cd)pyrene	µg/l	0.1		<1	<1	8	0	8										<1	
Indeno(123-cd)pyrene (w)	µg/l	0.1		0.86	<0.01	93	13	80	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Naphthalene	µg/l			<1	<1	8	0	8										<1	
Naphthalene (w)	µg/l			0.49	<0.01	93	47	46	0.03	0.01	<0.01	0.02	<0.01	0.04	0.04	<0.01	0.02	0.01	
Perylene	µg/l			<10	<1	93	1	92	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Phenanthrene	µg/l			<1	<1	8	0	8										<1	
Phenanthrene (w)	µg/l			1.48	<0.01	93	40	53	0.01	0.03	0.02	0.03	<0.01	0.01	0.02	<0.01	0.01	0.02	
Pyrene	µg/l			<1	<1	8	0	8										<1	
Pyrene (w)	µg/l			1.76	<0.01	93	59	34	0.02	0.05	0.03	0.06	0.02	0.04	0.06	0.02	0.02	0.04	
Total PAH 16MS (w)	µg/l			12.6	<0.01	93	72	21	0.23	0.39	0.24	0.47	0.18	0.29	0.38	0.13	0.19	0.32	
Semi-volatile organic compounds																			
2,4-Dinitrotoluene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,6-Dinitrotoluene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chloronaphthalene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Methylnaphthalene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Bromophenyl phenyl ether	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-chloroethoxy)methane	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-chloroethyl)ether	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-chloroisopropyl)ether	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-ethylhexyl)phthalate	µg/l	8*		<100	<10	93	0	93	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Butylbenzyl phthalate	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbazole	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibenzofuran	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Diethyl phthalate	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dimethyl phthalate	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobenzene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

									Lab sample ID	24/04877/2	24/08164/4	24/07224/1	24/12118/1	24/12118/7	24/12118/8	24/12118/2	24/12118/3	24/12118/4	24/12118/5
									Client sample ID	RBH505	RBH505	RBH 305	LKBH01	RBH203	RBH305	RBH501	RBH502	RBH503	RBH504
									Depth to top	11.1	10.5	7	13.5	4.5	7	10	14	8	8.5
									Depth to bottom										
									Date sampled	16/05/2024	20/08/2024	24/07/2024	11/12/2024	11/12/2024	12/12/2024	11/12/2024	11/12/2024	12/12/2024	12/12/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects											
Polycyclic aromatic hydrocarbons (16)																			
Acenaphthene	µg/l			<1	<1	8	0	8					<0.01	0.24	<0.01	<0.01	<0.01	0.22	0.2
Acenaphthene (w)	µg/l			0.57	<0.01	93	48	45	0.13	0.09	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	µg/l			<1	<1	8	0	8					<0.01	0.03	<0.01	<0.01	<0.01	0.02	0.06
Acenaphthylene (w)	µg/l			<0.1	<0.01	93	17	76	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Anthracene	µg/l			<1	<1	8	0	8					0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Anthracene (w)	µg/l			0.23	<0.01	93	49	44	0.03	0.03	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)anthracene	µg/l			<1	<1	8	0	8					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)anthracene (w)	µg/l			1.11	<0.01	93	20	73	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)pyrene	µg/l	0.01		<1	<1	8	0	8					0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)pyrene (w)	µg/l	0.01		1.2	<0.01	93	20	73	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	µg/l	0.1		<1	<1	8	0	8					0.02	0.07	<0.01	<0.01	<0.01	0.02	0.02
Benzo(b)fluoranthene (w)	µg/l	0.1		1.52	<0.01	93	22	71	<0.01	<0.01	0.01	<0.01	0.15	<0.01	<0.01	<0.01	<0.01	0.02	0.13
Benzo(ghi)perylene	µg/l	0.1		<1	<1	8	0	8					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)perylene (w)	µg/l	0.1		0.87	<0.01	93	13	80	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	0.06	0.26
Benzo(k)fluoranthene	µg/l	0.1		<1	<1	8	0	8					<1	<1	<1	<1	<1	<1	<1
Benzo(k)fluoranthene (w)	µg/l	0.1		0.54	<0.01	93	11	82	<0.01	<0.01	<0.01	0.01	0.17	<0.01	<0.01	<0.01	<0.01	0.03	0.14
Chrysene	µg/l			<1	<1	8	0	8					0.02	0.07	<0.01	<0.01	<0.01	0.02	0.02
Chrysene (w)	µg/l			1.18	<0.01	93	20	73	<0.01	<0.01	<0.01	0.11	0.73	<0.02	<0.01	<0.01	<0.01	0.39	0.83
Dibenzo(ah)anthracene	µg/l			<1	<1	8	0	8					0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenzo(ah)anthracene (w)	µg/l			0.18	<0.01	93	6	87	<0.01	<0.01	<0.01								
Fluoranthene	µg/l			<1	<1	8	0	8					<1	<1	<1	<1	<1	<1	<1
Fluoranthene (w)	µg/l			1.81	<0.01	93	52	41	<0.01	<0.01	0.02	<1	<1	<1	<1	<1	<1	<1	<1
Fluorene	µg/l			<1	<1	8	0	8					<1	<1	<1	<1	<1	<1	<1
Fluorene (w)	µg/l			0.39	<0.01	93	28	65	<0.01	<0.01	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
Indeno(1,2,3-cd)pyrene	µg/l	0.1		<1	<1	8	0	8					<1	<1	<1	<1	<1	<1	<1
Indeno(123-cd)pyrene (w)	µg/l	0.1		0.86	<0.01	93	13	80	<0.01	<0.01	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene	µg/l			<1	<1	8	0	8					<1	<1	<1	<1	<1	<1	<1
Naphthalene (w)	µg/l			0.49	<0.01	93	47	46	0.01	0.03	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
Perylene	µg/l			<10	<1	93	1	92	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<10
Phenanthrene	µg/l			<1	<1	8	0	8					<1	<1	<1	<1	<1	<1	<1
Phenanthrene (w)	µg/l			1.48	<0.01	93	40	53	<0.01	<0.01	<0.01	<1	<1	<1	<1	<1	<1	<1	<1
Pyrene	µg/l			<1	<1	8	0	8					<1	<1	<1	<1	<1	<1	<1
Pyrene (w)	µg/l			1.76	<0.01	93	59	34	0.02	0.03	0.02	<1	<1	<1	<1	<1	<1	<1	<1
Total PAH 16MS (w)	µg/l			12.6	<0.01	93	72	21	0.19	0.18	0.05	<1	<1	<1	<1	<1	<1	<1	<1
Semi-volatile organic compounds													<1	<1	<1	<1	<1	<1	<1
2,4-Dinitrotoluene	µg/l			<10	<1	93	0	93	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
2,6-Dinitrotoluene	µg/l			<10	<1	93	0	93	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
2-Chloronaphthalene	µg/l			<10	<1	93	0	93	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
2-Methylnaphthalene	µg/l			<10	<1	93	0	93	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Bromophenyl phenyl ether	µg/l			<10	<1	93	0	93	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-chloroethoxy)methane	µg/l			<10	<1	93	0	93	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-chloroethyl)ether	µg/l			<10	<1	93	0	93	<1	<1	<10								
Bis(2-chloroisopropyl)ether	µg/l			<10	<1	93	0	93	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
Bis(2-ethylhexyl)phthalate	µg/l	8*		<100	<10	93	0	93	<10	<10	<100	<1	<1	<1	<1	<1	<1	<1	<1
Butylbenzyl phthalate	µg/l			<10	<1	93	0	93	<1	<1	<10	<5	<5	<5	<5	<5	<5	<5	<5
Carbazole	µg/l			<10	<1	93	0	93	<1	<1	<10	<5	<5	<5	<5	<5	<5	<5	<5
Dibenzofuran	µg/l			<10	<1	93	0	93	<1	<1	<10	<5	<5	<5	<5	<5	<5	<5	<5
Diethyl phthalate	µg/l			<10	<1	93	0	93	<1	<1	<10	<5	<5	<5	<5	<5	<5	<5	<5
Dimethyl phthalate	µg/l			<10	<1	93	0	93	<1	<1	<10	<5	<5	<5	<5	<5	<5	12	<5
Hexachlorobenzene	µg/l			<10	<1	93	0	93	<1	<1	<10	<5	<5	<5	<5	<5	<5	<5	<5

						Lab sample ID	24/12118/6		
						Client sample ID	RBH505		
						Depth to top	11		
						Depth to bottom			
						Date sampled	11/12/2024		
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects	
Polycyclic aromatic hydrocarbons (16)									
Acenaphthene	µg/l			<1	<1	8	0	8	<0.01
Acenaphthene (w)	µg/l			0.57	<0.01	93	48	45	<0.01
Acenaphthylene	µg/l			<1	<1	8	0	8	<0.01
Acenaphthylene (w)	µg/l			<0.1	<0.01	93	17	76	<0.01
Anthracene	µg/l			<1	<1	8	0	8	<0.01
Anthracene (w)	µg/l			0.23	<0.01	93	49	44	<0.01
Benzo(a)anthracene	µg/l			<1	<1	8	0	8	<0.01
Benzo(a)anthracene (w)	µg/l			1.11	<0.01	93	20	73	<0.01
Benzo(a)pyrene	µg/l	0.01		<1	<1	8	0	8	<0.01
Benzo(a)pyrene (w)	µg/l	0.01		1.2	<0.01	93	20	73	<0.01
Benzo(b)fluoranthene	µg/l	0.1		<1	<1	8	0	8	<0.01
Benzo(b)fluoranthene (w)	µg/l	0.1		1.52	<0.01	93	22	71	<0.01
Benzo(ghi)perylene	µg/l	0.1		<1	<1	8	0	8	<0.01
Benzo(ghi)perylene (w)	µg/l	0.1		0.87	<0.01	93	13	80	<0.01
Benzo(k)fluoranthene	µg/l	0.1		<1	<1	8	0	8	<1
Benzo(k)fluoranthene (w)	µg/l	0.1		0.54	<0.01	93	11	82	<0.01
Chrysene	µg/l			<1	<1	8	0	8	<0.01
Chrysene (w)	µg/l			1.18	<0.01	93	20	73	<0.01
Dibenzo(ah)anthracene	µg/l			<1	<1	8	0	8	<0.01
Dibenzo(ah)anthracene (w)	µg/l			0.18	<0.01	93	6	87	
Fluoranthene	µg/l			<1	<1	8	0	8	<1
Fluoranthene (w)	µg/l			1.81	<0.01	93	52	41	<1
Fluorene	µg/l			<1	<1	8	0	8	<1
Fluorene (w)	µg/l			0.39	<0.01	93	28	65	<1
Indeno(1,2,3-cd)pyrene	µg/l	0.1		<1	<1	8	0	8	<1
Indeno(123-cd)pyrene (w)	µg/l	0.1		0.86	<0.01	93	13	80	<1
Naphthalene	µg/l			<1	<1	8	0	8	<1
Naphthalene (w)	µg/l			0.49	<0.01	93	47	46	<1
Perylene	µg/l			<10	<1	93	1	92	<10
Phenanthrene	µg/l			<1	<1	8	0	8	<1
Phenanthrene (w)	µg/l			1.48	<0.01	93	40	53	<1
Pyrene	µg/l			<1	<1	8	0	8	<1
Pyrene (w)	µg/l			1.76	<0.01	93	59	34	<1
Total PAH 16MS (w)	µg/l			12.6	<0.01	93	72	21	<1
Semi-volatile organic compounds									<1
2,4-Dinitrotoluene	µg/l			<10	<1	93	0	93	<1
2,6-Dinitrotoluene	µg/l			<10	<1	93	0	93	<1
2-Chloronaphthalene	µg/l			<10	<1	93	0	93	<1
2-Methylnaphthalene	µg/l			<10	<1	93	0	93	<10
4-Bromophenyl phenyl ether	µg/l			<10	<1	93	0	93	<1
Bis(2-chloroethoxy)methane	µg/l			<10	<1	93	0	93	<1
Bis(2-chloroethyl)ether	µg/l			<10	<1	93	0	93	
Bis(2-chloroisopropyl)ether	µg/l			<10	<1	93	0	93	<1
Bis(2-ethylhexyl)phthalate	µg/l	8*		<100	<10	93	0	93	<1
Butylbenzyl phthalate	µg/l			<10	<1	93	0	93	<5
Carbazole	µg/l			<10	<1	93	0	93	<5
Dibenzofuran	µg/l			<10	<1	93	0	93	<5
Diethyl phthalate	µg/l			<10	<1	93	0	93	<5
Dimethyl phthalate	µg/l			<10	<1	93	0	93	<5
Hexachlorobenzene	µg/l			<10	<1	93	0	93	<5

										Lab sample ID	24/01702/7	24/04877/4	24/05884/1	24/06349/1	24/06729/1	24/07236/7	24/07737/2	24/08164/3	24/08993/1	24/09465/8
										Client sample ID	LKBH01	LKBH01	LKBH01	LKBH01	LKBH01	LKBH01	LKBH01	LKBH01	LKBH01	LKBH01
										Depth to top	13.5	13.5	13.2	13	13.2	13.5	13	13	13.2	13
										Depth to bottom										
										Date sampled	20/02/2024	16/05/2024	12/06/2024	25/06/2024	09/07/2024	23/07/2024	06/08/2024	20/08/2024	17/09/2024	30/09/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects												
Hexachloroethane	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
Isophorone	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
n-Dibutylphthalate	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
n-Dioctylphthalate	µg/l			<100	<10	93	0	93	<10	<10	<10	<10	<10	<10	<10	<100	<10	<10	<100	<10
Nitrobenzene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
n-Nitroso-n-dipropylamine	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
Petroleum hydrocarbons																				
Ali >C5-C6 (w)	µg/l	15000*		<5	<1	93	0	93	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
Ali >C6-C8 (w)	µg/l	15000*		<5	<1	93	3	90	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<5	<1
Ali >C8-C10 (w)	µg/l	300*		<50	<5	93	4	89	<5	6	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5
Ali >C10-C12 (w)	µg/l	300*		74	<5	93	5	88	<5	18	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5
Ali >C12-C16 (w)	µg/l	300*		233	<5	93	5	88	<5	28	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5
Ali >C16-C21 (w)	µg/l			<50	<5	93	1	92	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5
Ali >C21-C35 (w)	µg/l			<50	<5	93	3	90	<5	<5	<5	<5	<5		17	<5	<5	<5	<50	30
Ali >C35-C44 (w)	µg/l			<50	<5	86	1	85		<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5
Total Aliphatics (w)	µg/l			<5	<5	7	0	7	<5											
Total Aliphatics (w)	µg/l			417	<5	86	7	79		52	<5	<5		17	<5	<5	<5	<5	<50	30
Aro >C5-C7 (w)	µg/l	1		416	<1	93	26	67	349	174	34	89	257	73	109	129	46		1	
Aro >C7-C8 (w)	µg/l	700*		<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
Aro >C8-C10 (w)	µg/l			<50	<5	93	9	84	6	12	<10	<5	<5	<5	<5	<5	<5	9	<50	<5
Aro >C10-C12 (w)	µg/l	90*		<50	<5	93	7	86	7	10	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5
Aro >C12-C16 (w)	µg/l	90*		58	<5	93	25	68	11	19	8	6	8	7	8	9	9	9	<50	5
Aro >C16-C21 (w)	µg/l	90*		60	<5	93	42	51	13	10	9	7	10	9	10	10	10	10	56	10
Aro >C21-C35 (w)	µg/l	90*		<100	<10	93	8	85	11	<10	<10	<10	<10	<10	<10	<10	<10	<10	<100	<10
Aro >C35-C44 (w)	µg/l			<50	<5	86	2	84		<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5
Total Aromatics (w)	µg/l			397	<10	7	5	2	397											
Total Aromatics (w)	µg/l			421	<10	86	34	52		225	51	102	275	89	127	157	102		16	
TPH (Ali & Aro >C5-C35) (w)	µg/l			397	<10	7	5	2	397											
TPH (Ali & Aro >C5-C44) (w)	µg/l			473	<10	86	34	52		277	51	102	292	89	127	158	102		46	
Benzene	µg/l	1		590	<1	87	26	61	439	144	20	163	287	63	109	143	155		1	
BTEX - Benzene (w)	µg/l	1		416	<1	93	26	67	349	174	34	89	257	73	109	129	46		1	
Toluene	µg/l	700*		<5	<1	87	1	86	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
BTEX - Toluene (w)	µg/l	700*		<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
Ethylbenzene	µg/l	300*		<5	<1	87	0	87	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
BTEX - Ethyl Benzene (w)	µg/l	300*		<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
m & p Xylene	µg/l			<5	<1	87	0	87	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
BTEX - m & p Xylene (w)	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
o-Xylene	µg/l			<5	<1	87	0	87	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
BTEX - o Xylene (w)	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
SUM - xylenes (BTEX o plus m&p)	µg/l	500*		<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
SUM - xylenes (o plus m&p)	µg/l	500*		<5	<1	87	0	87	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
Fuel Oxygenates																				
MTBE (w)	µg/l	15*		<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
Phenols																				
2,4,5-Trichlorophenol	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
2,4,6-Trichlorophenol (w)	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
2,4-Dichlorophenol	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
2,4-Dimethylphenol	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
2-Chlorophenol	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
2-Methylphenol	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
2-Nitrophenol	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1

										Lab sample ID	24/09921/1	24/11222/1	24/01702/2	24/04818/2	24/05884/2	24/06349/8	24/06760/1	24/07236/1	24/07735/3	24/08195/2
										Client sample ID	LKBH01	LKBH01	RBH203	RBH203	RBH203	RBH203	RBH203	RBH203	RBH203	RBH203
										Depth to top	13.2	13.2	15	15	14.9	14.5	15	14.5	14.5	14.5
										Depth to bottom										
										Date sampled	14/10/2024	18/11/2024	19/02/2024	15/05/2024	12/06/2024	26/06/2024	10/07/2024	23/07/2024	07/08/2024	21/08/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects												
Hexachloroethane	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isophorone	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Dibutylphthalate	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Dioctylphthalate	µg/l			<100	<10	93	0	93		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Nitrobenzene	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Nitroso-n-dipropylamine	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Petroleum hydrocarbons																				
Ali >C5-C6 (w)	µg/l	15000*		<5	<1	93	0	93		<1	<1	<1	<2	<1	<1	<1	<1	<5	<1	<1
Ali >C6-C8 (w)	µg/l	15000*		<5	<1	93	3	90		<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1
Ali >C8-C10 (w)	µg/l	300*		<50	<5	93	4	89		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C10-C12 (w)	µg/l	300*		74	<5	93	5	88		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C12-C16 (w)	µg/l	300*		233	<5	93	5	88		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C16-C21 (w)	µg/l			<50	<5	93	1	92		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C21-C35 (w)	µg/l			<50	<5	93	3	90		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C35-C44 (w)	µg/l			<50	<5	86	1	85		<5	<5		<5	<5	<5	<5	<5	<5	<5	<5
Total Aliphatics (w)	µg/l			<5	<5	7	0	7				<5								
Total Aliphatics (w)	µg/l			417	<5	86	7	79		<5	<5		<5	<5	<5	<5	<5	<5	<5	<5
Aro >C5-C7 (w)	µg/l	1		416	<1	93	26	67		416	239		<1	<1	<1	<1	<1	<5	<1	<1
Aro >C7-C8 (w)	µg/l	700*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1
Aro >C8-C10 (w)	µg/l			<50	<5	93	9	84		<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5
Aro >C10-C12 (w)	µg/l	90*		<50	<5	93	7	86		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aro >C12-C16 (w)	µg/l	90*		58	<5	93	25	68		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aro >C16-C21 (w)	µg/l	90*		60	<5	93	42	51		5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aro >C21-C35 (w)	µg/l	90*		<100	<10	93	8	85		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aro >C35-C44 (w)	µg/l			<50	<5	86	2	84		<5	<5		<5	<5	<5	<5	<5	<5	<5	<5
Total Aromatics (w)	µg/l			397	<10	7	5	2				<10								
Total Aromatics (w)	µg/l			421	<10	86	34	52		421	239		<10	<10	<10	<10	<10	<10	<10	<10
TPH (Ali & Aro >C5-C35) (w)	µg/l			397	<10	7	5	2				<10								
TPH (Ali & Aro >C5-C44) (w)	µg/l			473	<10	86	34	52		421	239		<10	<10	<10	<10	<10	<10	<10	<10
Benzene	µg/l	1		590	<1	87	26	61		590	300		<1	<1	<1	<1	<1	<1	<1	<1
BTEX - Benzene (w)	µg/l	1		416	<1	93	26	67		416	239		<1	<1	<1	<1	<1	<5	<1	<1
Toluene	µg/l	700*		<5	<1	87	1	86		1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - Toluene (w)	µg/l	700*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1
Ethylbenzene	µg/l	300*		<5	<1	87	0	87		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - Ethyl Benzene (w)	µg/l	300*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1
m & p Xylene	µg/l			<5	<1	87	0	87		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - m & p Xylene (w)	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1
o-Xylene	µg/l			<5	<1	87	0	87		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - o Xylene (w)	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1
SUM - xylenes (BTEX o plus m&p)	µg/l	500*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1
SUM - xylenes (o plus m&p)	µg/l	500*		<5	<1	87	0	87		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Fuel Oxygenates																				
MTBE (w)	µg/l	15*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1
Phenols																				
2,4,5-Trichlorophenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4,6-Trichlorophenol (w)	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dichlorophenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dimethylphenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorophenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Methylphenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Nitrophenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

										Lab sample ID	24/08993/2	24/09465/2	24/09921/2	24/11222/2	24/04877/1	24/05884/3	24/06349/4	24/06729/4	24/07737/3	24/08164/1
										Client sample ID	RBH203	RBH203	RBH203	RBH203	RBH305	RBH305	RBH305	RBH305	RBH305	RBH305
										Depth to top	14.8	13	14.8	14.8	7.1	7	7	7	7	7
										Depth to bottom										
										Date sampled	17/09/2024	30/09/2024	14/10/2024	18/11/2024	16/05/2024	12/06/2024	25/06/2024	09/07/2024	06/08/2024	20/08/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects												
Hexachloroethane	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isophorone	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Dibutylphthalate	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Dioctylphthalate	µg/l			<100	<10	93	0	93		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Nitrobenzene	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Nitroso-n-dipropylamine	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Petroleum hydrocarbons																				
Ali >C5-C6 (w)	µg/l	15000*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1
Ali >C6-C8 (w)	µg/l	15000*		<5	<1	93	3	90		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ali >C8-C10 (w)	µg/l	300*		<50	<5	93	4	89		<5	<5	<5	<5	<5	14	<5	<5	<5	<5	<5
Ali >C10-C12 (w)	µg/l	300*		74	<5	93	5	88		<5	<5	<5	<5	<5	74	<5	<5	<5	<5	<5
Ali >C12-C16 (w)	µg/l	300*		233	<5	93	5	88		<5	<5	<5	<5	<5	103	<5	<5	<5	<5	<5
Ali >C16-C21 (w)	µg/l			<50	<5	93	1	92		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C21-C35 (w)	µg/l			<50	<5	93	3	90		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C35-C44 (w)	µg/l			<50	<5	86	1	85		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Total Aliphatics (w)	µg/l			<5	<5	7	0	7												
Total Aliphatics (w)	µg/l			417	<5	86	7	79		<5	<5	<5	<5	<5	191	<5	<5	<5	<5	<5
Aro >C5-C7 (w)	µg/l	1		416	<1	93	26	67		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Aro >C7-C8 (w)	µg/l	700*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Aro >C8-C10 (w)	µg/l			<50	<5	93	9	84		<5	<5	<5	<5	<5	19	<10	<5	<5	<5	<5
Aro >C10-C12 (w)	µg/l	90*		<50	<5	93	7	86		<5	<5	<5	<5	<5	30	<5	<5	<5	<5	<5
Aro >C12-C16 (w)	µg/l	90*		58	<5	93	25	68		<5	<5	<5	<5	<5	58	<5	<5	<5	<5	<5
Aro >C16-C21 (w)	µg/l	90*		60	<5	93	42	51		<5	9	<5	<5	<5	8	<5	<5	<5	<5	<5
Aro >C21-C35 (w)	µg/l	90*		<100	<10	93	8	85		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aro >C35-C44 (w)	µg/l			<50	<5	86	2	84		<5	<5	<5	<5	<5	<5	5	<5	<5	<5	<5
Total Aromatics (w)	µg/l			397	<10	7	5	2												
Total Aromatics (w)	µg/l			421	<10	86	34	52		<10	<10	<10	<10	<10	115	<10	<10	<10	<10	<10
TPH (Ali & Aro >C5-C35) (w)	µg/l			397	<10	7	5	2												
TPH (Ali & Aro >C5-C44) (w)	µg/l			473	<10	86	34	52		<10	<10	<10	<10	<10	306	<10	<10	<10	<10	<10
Benzene	µg/l	1		590	<1	87	26	61		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - Benzene (w)	µg/l	1		416	<1	93	26	67		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	µg/l	700*		<5	<1	87	1	86		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - Toluene (w)	µg/l	700*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	µg/l	300*		<5	<1	87	0	87		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - Ethyl Benzene (w)	µg/l	300*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m & p Xylene	µg/l			<5	<1	87	0	87		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - m & p Xylene (w)	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	µg/l			<5	<1	87	0	87		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - o Xylene (w)	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SUM - xylenes (BTEX o plus m&p)	µg/l	500*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SUM - xylenes (o plus m&p)	µg/l	500*		<5	<1	87	0	87		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Fuel Oxygenates																				
MTBE (w)	µg/l	15*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenols																				
2,4,5-Trichlorophenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4,6-Trichlorophenol (w)	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dichlorophenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dimethylphenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorophenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Methylphenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Nitrophenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

										Lab sample ID	24/08993/3	24/09465/5	24/09921/3	24/11222/3	24/01702/3	24/04818/4	24/05884/4	24/06349/6	24/06760/2	24/07236/2
										Client sample ID	RBH305	RBH305	RBH305	RBH305	RBH501	RBH501	RBH501	RBH501	RBH501	RBH501
										Depth to top	7.2	7	7.2	7.2	13	13	13.7	12.5	13.75	12.5
										Depth to bottom										
										Date sampled	17/09/2024	30/09/2024	14/10/2024	18/11/2024	19/02/2024	15/05/2024	12/06/2024	26/06/2024	10/07/2024	23/07/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects												
Hexachloroethane	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isophorone	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Dibutylphthalate	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Dioctylphthalate	µg/l			<100	<10	93	0	93		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Nitrobenzene	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Nitroso-n-dipropylamine	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Petroleum hydrocarbons																				
Ali >C5-C6 (w)	µg/l	15000*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ali >C6-C8 (w)	µg/l	15000*		<5	<1	93	3	90		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ali >C8-C10 (w)	µg/l	300*		<50	<5	93	4	89		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C10-C12 (w)	µg/l	300*		74	<5	93	5	88		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C12-C16 (w)	µg/l	300*		233	<5	93	5	88		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C16-C21 (w)	µg/l			<50	<5	93	1	92		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C21-C35 (w)	µg/l			<50	<5	93	3	90		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C35-C44 (w)	µg/l			<50	<5	86	1	85		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Total Aliphatics (w)	µg/l			<5	<5	7	0	7						<5						
Total Aliphatics (w)	µg/l			417	<5	86	7	79		<5	<5	<5	<5		<5	<5	<5	<5	<5	<5
Aro >C5-C7 (w)	µg/l	1		416	<1	93	26	67		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Aro >C7-C8 (w)	µg/l	700*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Aro >C8-C10 (w)	µg/l			<50	<5	93	9	84		<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5
Aro >C10-C12 (w)	µg/l	90*		<50	<5	93	7	86		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aro >C12-C16 (w)	µg/l	90*		58	<5	93	25	68		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	7
Aro >C16-C21 (w)	µg/l	90*		60	<5	93	42	51		<5	<5	<5	<5	<5	11	<5	5	<5	<5	23
Aro >C21-C35 (w)	µg/l	90*		<100	<10	93	8	85		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	15
Aro >C35-C44 (w)	µg/l			<50	<5	86	2	84		<5	<5	<5	<5	<5		<5	<5	<5	<5	<5
Total Aromatics (w)	µg/l			397	<10	7	5	2							11					
Total Aromatics (w)	µg/l			421	<10	86	34	52		<10	<10	<10	<10	<10		<10	<10	<10	<10	45
TPH (Ali & Aro >C5-C35) (w)	µg/l			397	<10	7	5	2							11					
TPH (Ali & Aro >C5-C44) (w)	µg/l			473	<10	86	34	52		<10	<10	<10	<10	<10		<10	<10	<10	<10	45
Benzene	µg/l	1		590	<1	87	26	61		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - Benzene (w)	µg/l	1		416	<1	93	26	67		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	µg/l	700*		<5	<1	87	1	86		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - Toluene (w)	µg/l	700*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	µg/l	300*		<5	<1	87	0	87		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - Ethyl Benzene (w)	µg/l	300*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m & p Xylene	µg/l			<5	<1	87	0	87		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - m & p Xylene (w)	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	µg/l			<5	<1	87	0	87		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - o Xylene (w)	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SUM - xylenes (BTEX o plus m&p)	µg/l	500*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SUM - xylenes (o plus m&p)	µg/l	500*		<5	<1	87	0	87		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Fuel Oxygenates																				
MTBE (w)	µg/l	15*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenols																				
2,4,5-Trichlorophenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4,6-Trichlorophenol (w)	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dichlorophenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dimethylphenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorophenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Methylphenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Nitrophenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

										Lab sample ID	24/07735/2	24/08195/1	24/08993/4	24/09465/3	24/09921/4	24/11222/4	24/01702/1	24/05884/5	24/06729/3	24/07236/3
										Client sample ID	RBH501	RBH501	RBH501	RBH501	RBH501	RBH501	RBH502	RBH502	RBH502	RBH502
										Depth to top	12.5	12.5	13	10	13	13	13.8	15.8	15.8	16
										Depth to bottom										
										Date sampled	07/08/2024	21/08/2024	17/09/2024	30/09/2024	14/10/2024	18/11/2024	19/02/2024	12/06/2024	09/07/2024	23/07/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects												
Hexachloroethane	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isophorone	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Dibutylphthalate	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Dioctylphthalate	µg/l			<100	<10	93	0	93		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Nitrobenzene	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Nitroso-n-dipropylamine	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Petroleum hydrocarbons																				
Ali >C5-C6 (w)	µg/l	15000*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ali >C6-C8 (w)	µg/l	15000*		<5	<1	93	3	90		<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1
Ali >C8-C10 (w)	µg/l	300*		<50	<5	93	4	89		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C10-C12 (w)	µg/l	300*		74	<5	93	5	88		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C12-C16 (w)	µg/l	300*		233	<5	93	5	88		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C16-C21 (w)	µg/l			<50	<5	93	1	92		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C21-C35 (w)	µg/l			<50	<5	93	3	90		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C35-C44 (w)	µg/l			<50	<5	86	1	85		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Total Aliphatics (w)	µg/l			<5	<5	7	0	7								<5				
Total Aliphatics (w)	µg/l			417	<5	86	7	79		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aro >C5-C7 (w)	µg/l	1		416	<1	93	26	67		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Aro >C7-C8 (w)	µg/l	700*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Aro >C8-C10 (w)	µg/l			<50	<5	93	9	84		<5	<5	<5	6	<5	<5	<5	<10	<5	<5	<5
Aro >C10-C12 (w)	µg/l	90*		<50	<5	93	7	86		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aro >C12-C16 (w)	µg/l	90*		58	<5	93	25	68		7	<5	12	20	17	5	12	<5	<5	<5	<5
Aro >C16-C21 (w)	µg/l	90*		60	<5	93	42	51		19	7	36	60	60	17	19	6	<5	6	6
Aro >C21-C35 (w)	µg/l	90*		<100	<10	93	8	85		15	<10	17	27	39	<10	<10	<10	<10	<10	<10
Aro >C35-C44 (w)	µg/l			<50	<5	86	2	84		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Total Aromatics (w)	µg/l			397	<10	7	5	2								31				
Total Aromatics (w)	µg/l			421	<10	86	34	52		41	<10	65	113	116	22		<10	<10	<10	<10
TPH (Ali & Aro >C5-C35) (w)	µg/l			397	<10	7	5	2								31				
TPH (Ali & Aro >C5-C44) (w)	µg/l			473	<10	86	34	52		41	<10	65	114	116	22		<10	<10	<10	<10
Benzene	µg/l	1		590	<1	87	26	61		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - Benzene (w)	µg/l	1		416	<1	93	26	67		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	µg/l	700*		<5	<1	87	1	86		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - Toluene (w)	µg/l	700*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	µg/l	300*		<5	<1	87	0	87		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - Ethyl Benzene (w)	µg/l	300*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m & p Xylene	µg/l			<5	<1	87	0	87		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - m & p Xylene (w)	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	µg/l			<5	<1	87	0	87		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - o Xylene (w)	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SUM - xylenes (BTEX o plus m&p)	µg/l	500*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SUM - xylenes (o plus m&p)	µg/l	500*		<5	<1	87	0	87		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Fuel Oxygenates																				
MTBE (w)	µg/l	15*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenols																				
2,4,5-Trichlorophenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4,6-Trichlorophenol (w)	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dichlorophenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dimethylphenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorophenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Methylphenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Nitrophenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

										Lab sample ID	24/07735/4	24/08195/3	24/08993/5	24/09465/1	24/09921/5	24/11222/5	24/06349/7	24/04818/1	24/01702/5	24/04877/3
										Client sample ID	RBH502	RBH502	RBH502	RBH502	RBH502	RBH502	RBH502	RBH502 S	RBH503	RBH503
										Depth to top	16	16	16.3	13	16.3	16.3	16	13.8	8.5	
										Depth to bottom										
										Date sampled	07/08/2024	21/08/2024	17/09/2024	30/09/2024	14/10/2024	18/11/2024	26/06/2024	15/05/2024	20/02/2024	16/05/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects												
Hexachloroethane	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isophorone	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Dibutylphthalate	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Dioctylphthalate	µg/l			<100	<10	93	0	93		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Nitrobenzene	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Nitroso-n-dipropylamine	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Petroleum hydrocarbons																				
Ali >C5-C6 (w)	µg/l	15000*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2
Ali >C6-C8 (w)	µg/l	15000*		<5	<1	93	3	90		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ali >C8-C10 (w)	µg/l	300*		<50	<5	93	4	89		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C10-C12 (w)	µg/l	300*		74	<5	93	5	88		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	20
Ali >C12-C16 (w)	µg/l	300*		233	<5	93	5	88		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	26
Ali >C16-C21 (w)	µg/l			<50	<5	93	1	92		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C21-C35 (w)	µg/l			<50	<5	93	3	90		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C35-C44 (w)	µg/l			<50	<5	86	1	85		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Total Aliphatics (w)	µg/l			<5	<5	7	0	7											<5	
Total Aliphatics (w)	µg/l			417	<5	86	7	79		<5	<5	<5	<5	<5	<5	<5	<5	<5		46
Aro >C5-C7 (w)	µg/l	1		416	<1	93	26	67		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	24
Aro >C7-C8 (w)	µg/l	700*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Aro >C8-C10 (w)	µg/l			<50	<5	93	9	84		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	7
Aro >C10-C12 (w)	µg/l	90*		<50	<5	93	7	86		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	9
Aro >C12-C16 (w)	µg/l	90*		58	<5	93	25	68		<5	<5	<5	<5	<5	<5	<5	<5	<5	6	17
Aro >C16-C21 (w)	µg/l	90*		60	<5	93	42	51		<5	<5	<5	<5	<5	<5	<5	<5	<5	12	5
Aro >C21-C35 (w)	µg/l	90*		<100	<10	93	8	85		<10	<10	<10	<10	<10	<10	<10	<10	<10	18	<10
Aro >C35-C44 (w)	µg/l			<50	<5	86	2	84		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Total Aromatics (w)	µg/l			397	<10	7	5	2											36	
Total Aromatics (w)	µg/l			421	<10	86	34	52		<10	<10	<10	<10	<10	<10	<10	<10	<10		62
TPH (Ali & Aro >C5-C35) (w)	µg/l			397	<10	7	5	2											36	
TPH (Ali & Aro >C5-C44) (w)	µg/l			473	<10	86	34	52		<10	<10	<10	<10	<10	<10	<10	<10	<10		108
Benzene	µg/l	1		590	<1	87	26	61		<1			<1	<1	<1	<1	<1	<1	<1	25
BTEX - Benzene (w)	µg/l	1		416	<1	93	26	67		<1	<1		<1	<1	<1	<1	<1	<1	<1	24
Toluene	µg/l	700*		<5	<1	87	1	86		<1			<1	<1	<1	<1	<1	<1	<1	<1
BTEX - Toluene (w)	µg/l	700*		<5	<1	93	0	93		<1	<1		<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	µg/l	300*		<5	<1	87	0	87		<1			<1	<1	<1	<1	<1	<1	<1	<1
BTEX - Ethyl Benzene (w)	µg/l	300*		<5	<1	93	0	93		<1	<1		<1	<1	<1	<1	<1	<1	<1	<1
m & p Xylene	µg/l			<5	<1	87	0	87		<1			<1	<1	<1	<1	<1	<1	<1	<1
BTEX - m & p Xylene (w)	µg/l			<5	<1	93	0	93		<1	<1		<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	µg/l			<5	<1	87	0	87		<1			<1	<1	<1	<1	<1	<1	<1	<1
BTEX - o Xylene (w)	µg/l			<5	<1	93	0	93		<1	<1		<1	<1	<1	<1	<1	<1	<1	<1
SUM - xylenes (BTEX o plus m&p)	µg/l	500*		<5	<1	93	0	93		<1	<1		<1	<1	<1	<1	<1	<1	<1	<1
SUM - xylenes (o plus m&p)	µg/l	500*		<5	<1	87	0	87		<1			<1	<1	<1	<1	<1	<1	<1	<1
Fuel Oxygenates																				
MTBE (w)	µg/l	15*		<5	<1	93	0	93		<1	<1		<1	<1	<1	<1	<1	<1	<1	<1
Phenols																				
2,4,5-Trichlorophenol	µg/l			<10	<1	93	0	93		<1	<1		<1	<1	<1	<1	<1	<1	<1	<1
2,4,6-Trichlorophenol (w)	µg/l			<10	<1	93	0	93		<1	<1		<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dichlorophenol	µg/l			<10	<1	93	0	93		<1	<1		<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dimethylphenol	µg/l			<10	<1	93	0	93		<1	<1		<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorophenol	µg/l			<10	<1	93	0	93		<1	<1		<1	<1	<1	<1	<1	<1	<1	<1
2-Methylphenol	µg/l			<10	<1	93	0	93		<1	<1		<1	<1	<1	<1	<1	<1	<1	<1
2-Nitrophenol	µg/l			<10	<1	93	0	93		<1	<1		<1	<1	<1	<1	<1	<1	<1	<1

									Lab sample ID	24/05884/6	24/06349/2	24/06729/5	24/07236/5	24/07737/4	24/08164/2	24/08993/6	24/09465/4	24/09921/6	24/11222/6
									Client sample ID	RBH503	RBH503	RBH503	RBH503	RBH503	RBH503	RBH503	RBH503	RBH503	RBH503
									Depth to top	8.8	8	9	8	8	8	8.2	7	8.2	8.2
									Depth to bottom										
									Date sampled	12/06/2024	25/06/2024	09/07/2024	23/07/2024	06/08/2024	20/08/2024	17/09/2024	30/09/2024	14/10/2024	18/11/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects											
Hexachloroethane	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isophorone	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Dibutylphthalate	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Dioctylphthalate	µg/l			<100	<10	93	0	93	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Nitrobenzene	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Nitroso-n-dipropylamine	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Petroleum hydrocarbons																			
Ali >C5-C6 (w)	µg/l	15000*		<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ali >C6-C8 (w)	µg/l	15000*		<5	<1	93	3	90	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ali >C8-C10 (w)	µg/l	300*		<50	<5	93	4	89	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C10-C12 (w)	µg/l	300*		74	<5	93	5	88	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C12-C16 (w)	µg/l	300*		233	<5	93	5	88	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C16-C21 (w)	µg/l			<50	<5	93	1	92	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C21-C35 (w)	µg/l			<50	<5	93	3	90	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C35-C44 (w)	µg/l			<50	<5	86	1	85	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Total Aliphatics (w)	µg/l			<5	<5	7	0	7											
Total Aliphatics (w)	µg/l			417	<5	86	7	79	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aro >C5-C7 (w)	µg/l	1		416	<1	93	26	67	22	21	22	15	17	26	27	22	8	10	10
Aro >C7-C8 (w)	µg/l	700*		<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Aro >C8-C10 (w)	µg/l			<50	<5	93	9	84	<10	<5	<5	<5	<5	6	<5	<5	<5	<5	<5
Aro >C10-C12 (w)	µg/l	90*		<50	<5	93	7	86	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aro >C12-C16 (w)	µg/l	90*		58	<5	93	25	68	<5	<5	<5	<5	<5	7	<5	<5	<5	<5	<5
Aro >C16-C21 (w)	µg/l	90*		60	<5	93	42	51	5	<5	<7	<5	<5	8	7	<5	<5	<5	<5
Aro >C21-C35 (w)	µg/l	90*		<100	<10	93	8	85	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aro >C35-C44 (w)	µg/l			<50	<5	86	2	84	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Total Aromatics (w)	µg/l			397	<10	7	5	2											
Total Aromatics (w)	µg/l			421	<10	86	34	52	27	21	22	15	17	47	34	22	<10	10	10
TPH (Ali & Aro >C5-C35) (w)	µg/l			397	<10	7	5	2											
TPH (Ali & Aro >C5-C44) (w)	µg/l			473	<10	86	34	52	27	21	22	15	17	47	34	22	<10	10	10
Benzene	µg/l	1		590	<1	87	26	61	14	24	24	13	17	24	28	21	13	15	15
BTEX - Benzene (w)	µg/l	1		416	<1	93	26	67	22	21	22	15	17	26	27	22	8	10	10
Toluene	µg/l	700*		<5	<1	87	1	86	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - Toluene (w)	µg/l	700*		<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	µg/l	300*		<5	<1	87	0	87	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - Ethyl Benzene (w)	µg/l	300*		<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m & p Xylene	µg/l			<5	<1	87	0	87	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - m & p Xylene (w)	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	µg/l			<5	<1	87	0	87	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - o Xylene (w)	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SUM - xylenes (BTEX o plus m&p)	µg/l	500*		<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SUM - xylenes (o plus m&p)	µg/l	500*		<5	<1	87	0	87	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Fuel Oxygenates																			
MTBE (w)	µg/l	15*		<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenols																			
2,4,5-Trichlorophenol	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4,6-Trichlorophenol (w)	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dichlorophenol	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dimethylphenol	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorophenol	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Methylphenol	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Nitrophenol	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

										Lab sample ID	24/01702/4	24/04818/3	24/05884/7	24/06349/5	24/06760/3	24/07236/4	24/07735/1	24/09465/6	24/09921/7	24/11222/7
										Client sample ID	RBH504	RBH504	RBH504	RBH504	RBH504	RBH504	RBH504	RBH504	RBH504	RBH504
										Depth to top	10.5	10.5	10.7	10.5	11	10.5	10.5	8.5	8.7	8.7
										Depth to bottom										
										Date sampled	19/02/2024	15/05/2024	12/06/2024	25/06/2024	10/07/2024	23/07/2024	07/08/2024	30/09/2024	14/10/2024	18/11/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects												
Hexachloroethane	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isophorone	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Dibutylphthalate	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Dioctylphthalate	µg/l			<100	<10	93	0	93		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Nitrobenzene	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Nitroso-n-dipropylamine	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Petroleum hydrocarbons																				
Ali >C5-C6 (w)	µg/l	15000*		<5	<1	93	0	93		<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ali >C6-C8 (w)	µg/l	15000*		<5	<1	93	3	90		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ali >C8-C10 (w)	µg/l	300*		<50	<5	93	4	89		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C10-C12 (w)	µg/l	300*		74	<5	93	5	88		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C12-C16 (w)	µg/l	300*		233	<5	93	5	88		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C16-C21 (w)	µg/l			<50	<5	93	1	92		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C21-C35 (w)	µg/l			<50	<5	93	3	90		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C35-C44 (w)	µg/l			<50	<5	86	1	85			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Total Aliphatics (w)	µg/l			<5	<5	7	0	7		<5										
Total Aliphatics (w)	µg/l			417	<5	86	7	79			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aro >C5-C7 (w)	µg/l	1		416	<1	93	26	67		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Aro >C7-C8 (w)	µg/l	700*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Aro >C8-C10 (w)	µg/l			<50	<5	93	9	84		<5	<5	<10	<5	14	<5	<5	<5	<5	<5	<5
Aro >C10-C12 (w)	µg/l	90*		<50	<5	93	7	86		<5	<5	<5	<5	5	<5	<5	<5	<5	<5	<5
Aro >C12-C16 (w)	µg/l	90*		58	<5	93	25	68		8	<5	<5	<5	<5	<5	<5	7	<5	<5	<5
Aro >C16-C21 (w)	µg/l	90*		60	<5	93	42	51		18	<5	11	7	<5	7	8	13	7	<5	<5
Aro >C21-C35 (w)	µg/l	90*		<100	<10	93	8	85		12	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aro >C35-C44 (w)	µg/l			<50	<5	86	2	84			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Total Aromatics (w)	µg/l			397	<10	7	5	2		38										
Total Aromatics (w)	µg/l			421	<10	86	34	52			<10	11	<10	19	<10	<10	20	<10	<10	<10
TPH (Ali & Aro >C5-C35) (w)	µg/l			397	<10	7	5	2		38										
TPH (Ali & Aro >C5-C44) (w)	µg/l			473	<10	86	34	52			<10	11	<10	19	<10	<10	20	<10	<10	<10
Benzene	µg/l	1		590	<1	87	26	61		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - Benzene (w)	µg/l	1		416	<1	93	26	67		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	µg/l	700*		<5	<1	87	1	86		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - Toluene (w)	µg/l	700*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	µg/l	300*		<5	<1	87	0	87		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - Ethyl Benzene (w)	µg/l	300*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m & p Xylene	µg/l			<5	<1	87	0	87		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - m & p Xylene (w)	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	µg/l			<5	<1	87	0	87		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - o Xylene (w)	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SUM - xylenes (BTEX o plus m&p)	µg/l	500*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SUM - xylenes (o plus m&p)	µg/l	500*		<5	<1	87	0	87		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Fuel Oxygenates																				
MTBE (w)	µg/l	15*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenols																				
2,4,5-Trichlorophenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4,6-Trichlorophenol (w)	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dichlorophenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dimethylphenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorophenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Methylphenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Nitrophenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

										Lab sample ID	24/01702/6	24/05884/8	24/06349/3	24/06729/2	24/07236/6	24/07737/1	24/08993/7	24/09465/7	24/09921/8	24/11222/8
										Client sample ID	RBH505	RBH505	RBH505	RBH505	RBH505	RBH505	RBH505	RBH505	RBH505	RBH505
										Depth to top	11.1	11.2	10.5	11.2	10.5	10.5	10.9	10	10.9	10.9
										Depth to bottom										
										Date sampled	20/02/2024	12/06/2024	25/06/2024	09/07/2024	23/07/2024	06/08/2024	17/09/2024	30/09/2024	14/10/2024	18/11/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects												
Hexachloroethane	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isophorone	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Dibutylphthalate	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Dioctylphthalate	µg/l			<100	<10	93	0	93		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Nitrobenzene	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Nitroso-n-dipropylamine	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Petroleum hydrocarbons																				
Ali >C5-C6 (w)	µg/l	15000*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ali >C6-C8 (w)	µg/l	15000*		<5	<1	93	3	90		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ali >C8-C10 (w)	µg/l	300*		<50	<5	93	4	89		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C10-C12 (w)	µg/l	300*		74	<5	93	5	88		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C12-C16 (w)	µg/l	300*		233	<5	93	5	88		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C16-C21 (w)	µg/l			<50	<5	93	1	92		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C21-C35 (w)	µg/l			<50	<5	93	3	90		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C35-C44 (w)	µg/l			<50	<5	86	1	85			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Total Aliphatics (w)	µg/l			<5	<5	7	0	7		<5										
Total Aliphatics (w)	µg/l			417	<5	86	7	79			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aro >C5-C7 (w)	µg/l	1		416	<1	93	26	67		<1	1	<1	2	<1	<1	3	<1	<1	<1	<1
Aro >C7-C8 (w)	µg/l	700*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Aro >C8-C10 (w)	µg/l			<50	<5	93	9	84		<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aro >C10-C12 (w)	µg/l	90*		<50	<5	93	7	86		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aro >C12-C16 (w)	µg/l	90*		58	<5	93	25	68		<5	5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aro >C16-C21 (w)	µg/l	90*		60	<5	93	42	51		6	6	<5	<6	<5	<5	5	<5	<5	<5	<5
Aro >C21-C35 (w)	µg/l	90*		<100	<10	93	8	85		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aro >C35-C44 (w)	µg/l			<50	<5	86	2	84			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Total Aromatics (w)	µg/l			397	<10	7	5	2		<10										
Total Aromatics (w)	µg/l			421	<10	86	34	52			12	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (Ali & Aro >C5-C35) (w)	µg/l			397	<10	7	5	2		<10										
TPH (Ali & Aro >C5-C44) (w)	µg/l			473	<10	86	34	52			12	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	µg/l	1		590	<1	87	26	61		<1	<1	<1	2	<1	<1	3	<1	1	<1	<1
BTEX - Benzene (w)	µg/l	1		416	<1	93	26	67		<1	1	<1	2	<1	<1	3	<1	<1	<1	<1
Toluene	µg/l	700*		<5	<1	87	1	86		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - Toluene (w)	µg/l	700*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	µg/l	300*		<5	<1	87	0	87		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - Ethyl Benzene (w)	µg/l	300*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m & p Xylene	µg/l			<5	<1	87	0	87		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - m & p Xylene (w)	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	µg/l			<5	<1	87	0	87		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - o Xylene (w)	µg/l			<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SUM - xylenes (BTEX o plus m&p)	µg/l	500*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SUM - xylenes (o plus m&p)	µg/l	500*		<5	<1	87	0	87		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Fuel Oxygenates																				
MTBE (w)	µg/l	15*		<5	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenols																				
2,4,5-Trichlorophenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4,6-Trichlorophenol (w)	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dichlorophenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dimethylphenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorophenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Methylphenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Nitrophenol	µg/l			<10	<1	93	0	93		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

										Lab sample ID	24/04877/2	24/08164/4	24/07224/1	24/12118/1	24/12118/7	24/12118/8	24/12118/2	24/12118/3	24/12118/4	24/12118/5
										Client sample ID	RBH505	RBH505	RBH 305	LKBH01	RBH203	RBH305	RBH501	RBH502	RBH503	RBH504
										Depth to top	11.1	10.5	7	13.5	4.5	7	10	14	8	8.5
										Depth to bottom										
										Date sampled	16/05/2024	20/08/2024	24/07/2024	11/12/2024	11/12/2024	12/12/2024	11/12/2024	11/12/2024	12/12/2024	12/12/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects												
Hexachloroethane	µg/l			<10	<1	93	0	93	<1	<1	<10	<5	<5	<5	<5	<5	<5	12	<5	<5
Isophorone	µg/l			<10	<1	93	0	93	<1	<1	<10		<1	<1	<1	<1	<1	3	<1	<1
n-Dibutylphthalate	µg/l			<10	<1	93	0	93	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Dioctylphthalate	µg/l			<100	<10	93	0	93	<10	<10	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nitrobenzene	µg/l			<10	<1	93	0	93	<1	<1	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5
n-Nitroso-n-dipropylamine	µg/l			<10	<1	93	0	93	<1	<1	<10	<5	6	<5	6	7	9	8		
Petroleum hydrocarbons											8	8	<5	14	13	15	16			
Ali >C5-C6 (w)	µg/l	15000*		<5	<1	93	0	93	<2	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ali >C6-C8 (w)	µg/l	15000*		<5	<1	93	3	90	<1	2	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ali >C8-C10 (w)	µg/l	300*		<50	<5	93	4	89	6	<5	10	12	14	<10	20	20	27	24		
Ali >C10-C12 (w)	µg/l	300*		74	<5	93	5	88	24	<5	60	12	14	<10	20	20	39	24		
Ali >C12-C16 (w)	µg/l	300*		233	<5	93	5	88	33	<5	233	4	<1	<1	<1	<1	3	<1		
Ali >C16-C21 (w)	µg/l			<50	<5	93	1	92	<5	<5	49	4	<1	<1	<1	<1	3	<1		
Ali >C21-C35 (w)	µg/l			<50	<5	93	3	90	<5	<5	46	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ali >C35-C44 (w)	µg/l			<50	<5	86	1	85	<5	<5	19	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Aliphatics (w)	µg/l			<5	<5	7	0	7				<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Aliphatics (w)	µg/l			417	<5	86	7	79	63	<5	417	<1	<1	<1	<1	<1	<1	<1	<1	<1
Aro >C5-C7 (w)	µg/l	1		416	<1	93	26	67	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Aro >C7-C8 (w)	µg/l	700*		<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Aro >C8-C10 (w)	µg/l			<50	<5	93	9	84	10	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Aro >C10-C12 (w)	µg/l	90*		<50	<5	93	7	86	10	<5	10	<1	<1	<1	<1	<1	<1	<1	<1	<1
Aro >C12-C16 (w)	µg/l	90*		58	<5	93	25	68	21	<5	25	<1	<1	<1	<1	<1	<1	<1	<1	<1
Aro >C16-C21 (w)	µg/l	90*		60	<5	93	42	51	8	<5	16	<1	<1	<1	<1	<1	<1	<1	<1	<1
Aro >C21-C35 (w)	µg/l	90*		<100	<10	93	8	85	<10	<10	<10									
Aro >C35-C44 (w)	µg/l			<50	<5	86	2	84	<5	<5	5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Aromatics (w)	µg/l			397	<10	7	5	2												
Total Aromatics (w)	µg/l			421	<10	86	34	52	49	<10	56	<1	<1	<1	<1	<1	<1	<1	<1	<1
TPH (Ali & Aro >C5-C35) (w)	µg/l			397	<10	7	5	2				<1	<1	<1	<1	<1	<1	<1	<1	<1
TPH (Ali & Aro >C5-C44) (w)	µg/l			473	<10	86	34	52	112	<10	473	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzene	µg/l	1		590	<1	87	26	61	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - Benzene (w)	µg/l	1		416	<1	93	26	67	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	µg/l	700*		<5	<1	87	1	86	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - Toluene (w)	µg/l	700*		<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	µg/l	300*		<5	<1	87	0	87	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - Ethyl Benzene (w)	µg/l	300*		<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m & p Xylene	µg/l			<5	<1	87	0	87	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - m & p Xylene (w)	µg/l			<5	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	µg/l			<5	<1	87	0	87	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX - o Xylene (w)	µg/l			<5	<1	93	0	93	<1	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<10
SUM - xylenes (BTEX o plus m&p)	µg/l	500*		<5	<1	93	0	93	<1	<1	<1									
SUM - xylenes (o plus m&p)	µg/l	500*		<5	<1	87	0	87	<1	<1	<1	9	<1	3	<1	<1	<1	<1	<1	<1
Fuel Oxygenates																				
MTBE (w)	µg/l	15*		<5	<1	93	0	93	<1	<1	<1									
Phenols																				
2,4,5-Trichlorophenol	µg/l			<10	<1	93	0	93	<1	<1	<10									
2,4,6-Trichlorophenol (w)	µg/l			<10	<1	93	0	93	<1	<1	<10									
2,4-Dichlorophenol	µg/l			<10	<1	93	0	93	<1	<1	<10									
2,4-Dimethylphenol	µg/l			<10	<1	93	0	93	<1	<1	<10									
2-Chlorophenol	µg/l			<10	<1	93	0	93	<1	<1	<10									
2-Methylphenol	µg/l			<10	<1	93	0	93	<1	<1	<10									
2-Nitrophenol	µg/l			<10	<1	93	0	93	<1	<1	<10									

							Lab sample ID	24/12118/6	
							Client sample ID	RBH505	
							Depth to top	11	
							Depth to bottom		
							Date sampled	11/12/2024	
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects	
Hexachloroethane	µg/l			<10	<1	93	0	93	<5
Isophorone	µg/l			<10	<1	93	0	93	<1
n-Dibutylphthalate	µg/l			<10	<1	93	0	93	<1
n-Dioctylphthalate	µg/l			<100	<10	93	0	93	<5
Nitrobenzene	µg/l			<10	<1	93	0	93	<5
n-Nitroso-n-dipropylamine	µg/l			<10	<1	93	0	93	<5
Petroleum hydrocarbons									6
Ali >C5-C6 (w)	µg/l	15000*		<5	<1	93	0	93	<10
Ali >C6-C8 (w)	µg/l	15000*		<5	<1	93	3	90	<5
Ali >C8-C10 (w)	µg/l	300*		<50	<5	93	4	89	<10
Ali >C10-C12 (w)	µg/l	300*		74	<5	93	5	88	<10
Ali >C12-C16 (w)	µg/l	300*		233	<5	93	5	88	<1
Ali >C16-C21 (w)	µg/l			<50	<5	93	1	92	<1
Ali >C21-C35 (w)	µg/l			<50	<5	93	3	90	<1
Ali >C35-C44 (w)	µg/l			<50	<5	86	1	85	<1
Total Aliphatics (w)	µg/l			<5	<5	7	0	7	<1
Total Aliphatics (w)	µg/l			417	<5	86	7	79	<1
Aro >C5-C7 (w)	µg/l	1		416	<1	93	26	67	<1
Aro >C7-C8 (w)	µg/l	700*		<5	<1	93	0	93	<1
Aro >C8-C10 (w)	µg/l			<50	<5	93	9	84	<1
Aro >C10-C12 (w)	µg/l	90*		<50	<5	93	7	86	<1
Aro >C12-C16 (w)	µg/l	90*		58	<5	93	25	68	<1
Aro >C16-C21 (w)	µg/l	90*		60	<5	93	42	51	<1
Aro >C21-C35 (w)	µg/l	90*		<100	<10	93	8	85	
Aro >C35-C44 (w)	µg/l			<50	<5	86	2	84	<1
Total Aromatics (w)	µg/l			397	<10	7	5	2	
Total Aromatics (w)	µg/l			421	<10	86	34	52	<1
TPH (Ali & Aro >C5-C35) (w)	µg/l			397	<10	7	5	2	<1
TPH (Ali & Aro >C5-C44) (w)	µg/l			473	<10	86	34	52	<1
Benzene	µg/l	1		590	<1	87	26	61	<1
BTEX - Benzene (w)	µg/l	1		416	<1	93	26	67	<1
Toluene	µg/l	700*		<5	<1	87	1	86	<1
BTEX - Toluene (w)	µg/l	700*		<5	<1	93	0	93	<1
Ethylbenzene	µg/l	300*		<5	<1	87	0	87	<1
BTEX - Ethyl Benzene (w)	µg/l	300*		<5	<1	93	0	93	<1
m & p Xylene	µg/l			<5	<1	87	0	87	<1
BTEX - m & p Xylene (w)	µg/l			<5	<1	93	0	93	<1
o-Xylene	µg/l			<5	<1	87	0	87	<1
BTEX - o Xylene (w)	µg/l			<5	<1	93	0	93	<10
SUM - xylenes (BTEX o plus m&p)	µg/l	500*		<5	<1	93	0	93	
SUM - xylenes (o plus m&p)	µg/l	500*		<5	<1	87	0	87	5
Fuel Oxygenates									
MTBE (w)	µg/l	15*		<5	<1	93	0	93	
Phenols									
2,4,5-Trichlorophenol	µg/l			<10	<1	93	0	93	
2,4,6-Trichlorophenol (w)	µg/l			<10	<1	93	0	93	
2,4-Dichlorophenol	µg/l			<10	<1	93	0	93	
2,4-Dimethylphenol	µg/l			<10	<1	93	0	93	
2-Chlorophenol	µg/l			<10	<1	93	0	93	
2-Methylphenol	µg/l			<10	<1	93	0	93	
2-Nitrophenol	µg/l			<10	<1	93	0	93	

									Lab sample ID	24/01702/7	24/04877/4	24/05884/1	24/06349/1	24/06729/1	24/07236/7	24/07737/2	24/08164/3	24/08993/1	24/09465/8
									Client sample ID	LKBH01	LKBH01	LKBH01	LKBH01	LKBH01	LKBH01	LKBH01	LKBH01	LKBH01	LKBH01
									Depth to top	13.5	13.5	13.2	13	13.2	13.5	13	13	13.2	13
									Depth to bottom										
									Date sampled	20/02/2024	16/05/2024	12/06/2024	25/06/2024	09/07/2024	23/07/2024	06/08/2024	20/08/2024	17/09/2024	30/09/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects											
3+4-Methylphenol	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
4-Chloro-3-methylphenol	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
4-Nitrophenol	µg/l			<10	<1	93	1	92	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
Pentachlorophenol (SVOC)	µg/l	0.1		<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
Phenol	µg/l			17	<1	93	17	76	11	17	<1	8	17	<10	7	9	<10	<10	<1
Phenols - Total by HPLC (w)	µg/l			<100	<10	86	11	75		<100	10	80	20	<10	10	<100	20	<100	<10
Other analytes																			
Antimony (dissolved)	µg/l			10	<1	86	11	75		<1	<1	<1	<1	<1	<1	<1	<1	<1	5

									Lab sample ID	24/09921/1	24/11222/1	24/01702/2	24/04818/2	24/05884/2	24/06349/8	24/06760/1	24/07236/1	24/07735/3	24/08195/2
									Client sample ID	LKBH01	LKBH01	RBH203	RBH203	RBH203	RBH203	RBH203	RBH203	RBH203	RBH203
									Depth to top	13.2	13.2	15	15	14.9	14.5	15	14.5	14.5	14.5
									Depth to bottom										
									Date sampled	14/10/2024	18/11/2024	19/02/2024	15/05/2024	12/06/2024	26/06/2024	10/07/2024	23/07/2024	07/08/2024	21/08/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects											
3+4-Methylphenol	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chloro-3-methylphenol	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Nitrophenol	µg/l			<10	<1	93	1	92	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Pentachlorophenol (SVOC)	µg/l	0.1		<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenol	µg/l			17	<1	93	17	76	5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenols - Total by HPLC (w)	µg/l			<100	<10	86	11	75	20	20		<10	<10	<10	<10	<10	<10	<10	<10
Other analytes																			
Antimony (dissolved)	µg/l			10	<1	86	11	75	<1	<1		<1	<1	<1	<2	<1	<1	<1	<1

										Lab sample ID	24/08993/2	24/09465/2	24/09921/2	24/11222/2	24/04877/1	24/05884/3	24/06349/4	24/06729/4	24/07737/3	24/08164/1
										Client sample ID	RBH203	RBH203	RBH203	RBH203	RBH305	RBH305	RBH305	RBH305	RBH305	RBH305
										Depth to top	14.8	13	14.8	14.8	7.1	7	7	7	7	7
										Depth to bottom										
										Date sampled	17/09/2024	30/09/2024	14/10/2024	18/11/2024	16/05/2024	12/06/2024	25/06/2024	09/07/2024	06/08/2024	20/08/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects												
3+4-Methylphenol	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chloro-3-methylphenol	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Nitrophenol	µg/l			<10	<1	93	1	92	<1	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Pentachlorophenol (SVOC)	µg/l	0.1		<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenol	µg/l			17	<1	93	17	76	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenols - Total by HPLC (w)	µg/l			<100	<10	86	11	75	<10	<10	<10	<10	<10	<100	<10	<10	<10	<10	<10	<10
Other analytes																				
Antimony (dissolved)	µg/l			10	<1	86	11	75	<1	3	<1	<1	<1	1	<1	<1	<1	<1	2	1

									Lab sample ID	24/08993/3	24/09465/5	24/09921/3	24/11222/3	24/01702/3	24/04818/4	24/05884/4	24/06349/6	24/06760/2	24/07236/2
									Client sample ID	RBH305	RBH305	RBH305	RBH305	RBH501	RBH501	RBH501	RBH501	RBH501	RBH501
									Depth to top	7.2	7	7.2	7.2	13	13	13.7	12.5	13.75	12.5
									Depth to bottom										
									Date sampled	17/09/2024	30/09/2024	14/10/2024	18/11/2024	19/02/2024	15/05/2024	12/06/2024	26/06/2024	10/07/2024	23/07/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects											
3+4-Methylphenol	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chloro-3-methylphenol	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Nitrophenol	µg/l			<10	<1	93	1	92	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Pentachlorophenol (SVOC)	µg/l	0.1		<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenol	µg/l			17	<1	93	17	76	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenols - Total by HPLC (w)	µg/l			<100	<10	86	11	75	<10	<10	<10	<10		<10	<10	<10	<10	<10	<10
Other analytes																			
Antimony (dissolved)	µg/l			10	<1	86	11	75	3	3	3	3			<1	<1	<1	<2	<1

									Lab sample ID	24/07735/2	24/08195/1	24/08993/4	24/09465/3	24/09921/4	24/11222/4	24/01702/1	24/05884/5	24/06729/3	24/07236/3
									Client sample ID	RBH501	RBH501	RBH501	RBH501	RBH501	RBH501	RBH502	RBH502	RBH502	RBH502
									Depth to top	12.5	12.5	13	10	13	13	13.8	15.8	15.8	16
									Depth to bottom										
									Date sampled	07/08/2024	21/08/2024	17/09/2024	30/09/2024	14/10/2024	18/11/2024	19/02/2024	12/06/2024	09/07/2024	23/07/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects											
3+4-Methylphenol	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chloro-3-methylphenol	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Nitrophenol	µg/l			<10	<1	93	1	92	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Pentachlorophenol (SVOC)	µg/l	0.1		<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenol	µg/l			17	<1	93	17	76	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenols - Total by HPLC (w)	µg/l			<100	<10	86	11	75	<10	<10	<10	<10	<10	<10	<10		<10	<10	<10
Other analytes																			
Antimony (dissolved)	µg/l			10	<1	86	11	75	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1

										Lab sample ID	24/07735/4	24/08195/3	24/08993/5	24/09465/1	24/09921/5	24/11222/5	24/06349/7	24/04818/1	24/01702/5	24/04877/3
										Client sample ID	RBH502	RBH502	RBH502	RBH502	RBH502	RBH502	RBH502	RBH502 S	RBH503	RBH503
										Depth to top	16	16	16.3	13	16.3	16.3	16	13.8	8.5	
										Depth to bottom										
										Date sampled	07/08/2024	21/08/2024	17/09/2024	30/09/2024	14/10/2024	18/11/2024	26/06/2024	15/05/2024	20/02/2024	16/05/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects												
3+4-Methylphenol	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chloro-3-methylphenol	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Nitrophenol	µg/l			<10	<1	93	1	92	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Pentachlorophenol (SVOC)	µg/l	0.1		<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenol	µg/l			17	<1	93	17	76	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	4
Phenols - Total by HPLC (w)	µg/l			<100	<10	86	11	75	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		<100
Other analytes																				
Antimony (dissolved)	µg/l			10	<1	86	11	75	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1

									Lab sample ID	24/05884/6	24/06349/2	24/06729/5	24/07236/5	24/07737/4	24/08164/2	24/08993/6	24/09465/4	24/09921/6	24/11222/6
									Client sample ID	RBH503	RBH503	RBH503	RBH503	RBH503	RBH503	RBH503	RBH503	RBH503	RBH503
									Depth to top	8.8	8	9	8	8	8	8.2	7	8.2	8.2
									Depth to bottom										
									Date sampled	12/06/2024	25/06/2024	09/07/2024	23/07/2024	06/08/2024	20/08/2024	17/09/2024	30/09/2024	14/10/2024	18/11/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects											
3+4-Methylphenol	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chloro-3-methylphenol	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Nitrophenol	µg/l			<10	<1	93	1	92	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Pentachlorophenol (SVOC)	µg/l	0.1		<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenol	µg/l			17	<1	93	17	76	1	4	2	1	1	1	2	2	2	1	<1
Phenols - Total by HPLC (w)	µg/l			<100	<10	86	11	75	<10	<10	10	<10	<10	<10	<100	10	<10	10	<10
Other analytes																			
Antimony (dissolved)	µg/l			10	<1	86	11	75	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

										Lab sample ID	24/01702/4	24/04818/3	24/05884/7	24/06349/5	24/06760/3	24/07236/4	24/07735/1	24/09465/6	24/09921/7	24/11222/7
										Client sample ID	RBH504	RBH504	RBH504	RBH504	RBH504	RBH504	RBH504	RBH504	RBH504	RBH504
										Depth to top	10.5	10.5	10.7	10.5	11	10.5	10.5	8.5	8.7	8.7
										Depth to bottom										
										Date sampled	19/02/2024	15/05/2024	12/06/2024	25/06/2024	10/07/2024	23/07/2024	07/08/2024	30/09/2024	14/10/2024	18/11/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects												
3+4-Methylphenol	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chloro-3-methylphenol	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Nitrophenol	µg/l			<10	<1	93	1	92	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Pentachlorophenol (SVOC)	µg/l	0.1		<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenol	µg/l			17	<1	93	17	76	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenols - Total by HPLC (w)	µg/l			<100	<10	86	11	75		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Other analytes																				
Antimony (dissolved)	µg/l			10	<1	86	11	75		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

										Lab sample ID	24/01702/6	24/05884/8	24/06349/3	24/06729/2	24/07236/6	24/07737/1	24/08993/7	24/09465/7	24/09921/8	24/11222/8
										Client sample ID	RBH505	RBH505	RBH505	RBH505	RBH505	RBH505	RBH505	RBH505	RBH505	RBH505
										Depth to top	11.1	11.2	10.5	11.2	10.5	10.5	10.9	10	10.9	10.9
										Depth to bottom										
										Date sampled	20/02/2024	12/06/2024	25/06/2024	09/07/2024	23/07/2024	06/08/2024	17/09/2024	30/09/2024	14/10/2024	18/11/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects												
3+4-Methylphenol	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chloro-3-methylphenol	µg/l			<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Nitrophenol	µg/l			<10	<1	93	1	92	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Pentachlorophenol (SVOC)	µg/l	0.1		<10	<1	93	0	93	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenol	µg/l			17	<1	93	17	76	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenols - Total by HPLC (w)	µg/l			<100	<10	86	11	75		<10	<10	<20	<10	<10	<10	<10	<10	10	<10	<10
Other analytes																				
Antimony (dissolved)	µg/l			10	<1	86	11	75		<1	<1	<1	<1	<1	<1	<1	10	<1	<1	<1

									Lab sample ID	24/04877/2	24/08164/4	24/07224/1	24/12118/1	24/12118/7	24/12118/8	24/12118/2	24/12118/3	24/12118/4	24/12118/5
									Client sample ID	RBH505	RBH505	RBH 305	LKBH01	RBH203	RBH305	RBH501	RBH502	RBH503	RBH504
									Depth to top	11.1	10.5	7	13.5	4.5	7	10	14	8	8.5
									Depth to bottom										
									Date sampled	16/05/2024	20/08/2024	24/07/2024	11/12/2024	11/12/2024	12/12/2024	11/12/2024	11/12/2024	12/12/2024	12/12/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects											
3+4-Methylphenol	µg/l			<10	<1	93	0	93	<1	<1	<10								
4-Chloro-3-methylphenol	µg/l			<10	<1	93	0	93	<1	<1	<10								
4-Nitrophenol	µg/l			<10	<1	93	1	92	<1	<1	<10								
Pentachlorophenol (SVOC)	µg/l	0.1		<10	<1	93	0	93	<1	<1	<10								
Phenol	µg/l			17	<1	93	17	76	<1	<1	<10								
Phenols - Total by HPLC (w)	µg/l			<100	<10	86	11	75	<100	<100	<10								
Other analytes																			
Antimony (dissolved)	µg/l			10	<1	86	11	75	<1	<1	3								

Project code: 4328
Plots NT02-04

Interpretive Controlled Waters - DWS or best equivalent / RPV, England, Wales and Northern Ireland

								Lab sample ID	24/12118/6
								Client sample ID	RBH505
								Depth to top	11
								Depth to bottom	
								Date sampled	11/12/2024
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects	
3+4-Methylphenol	µg/l			<10	<1	93	0	93	
4-Chloro-3-methylphenol	µg/l			<10	<1	93	0	93	
4-Nitrophenol	µg/l			<10	<1	93	1	92	
Pentachlorophenol (SVOC)	µg/l	0.1		<10	<1	93	0	93	
Phenol	µg/l			17	<1	93	17	76	
Phenols - Total by HPLC (w)	µg/l			<100	<10	86	11	75	
Other analytes									
Antimony (dissolved)	µg/l			10	<1	86	11	75	



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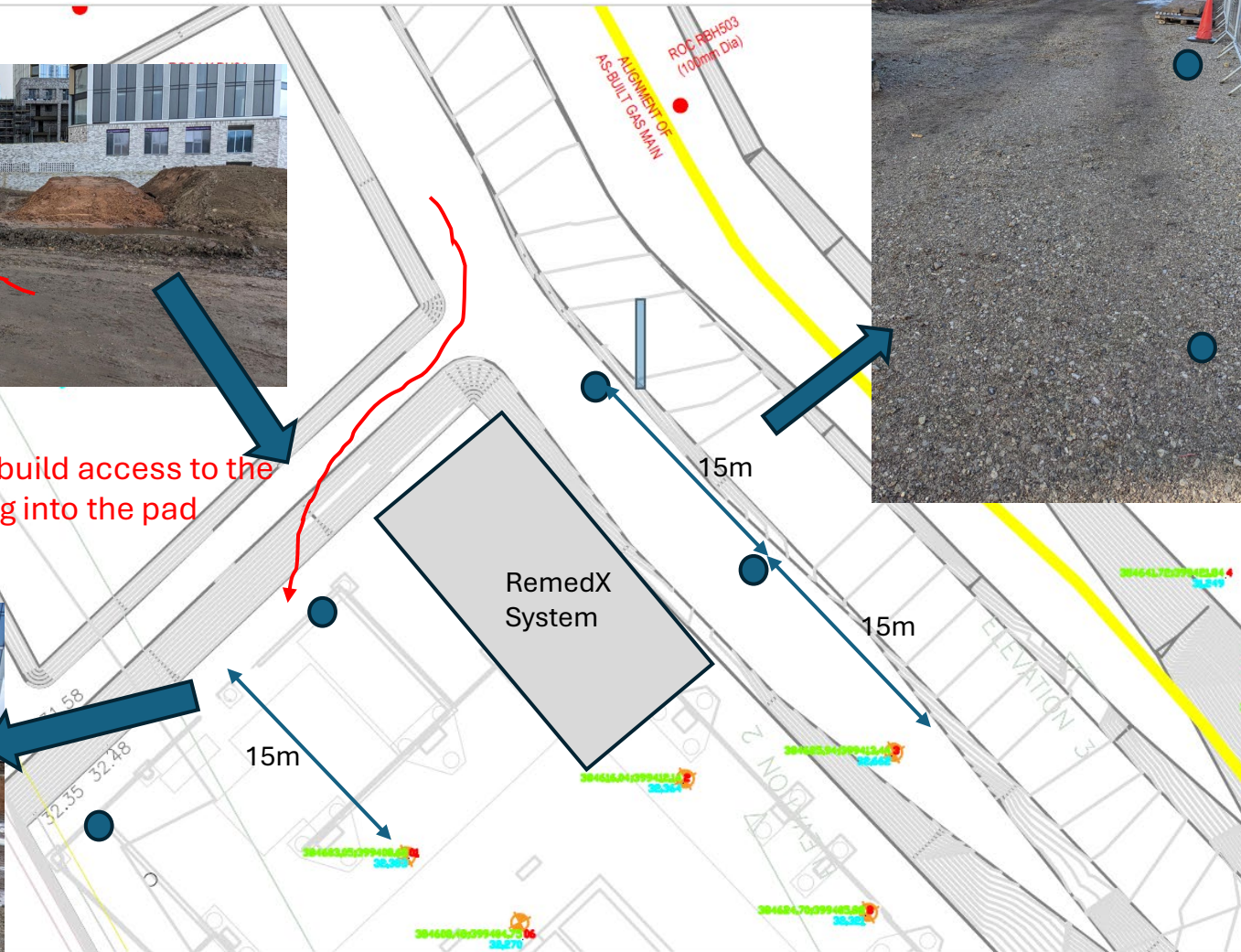


COMPLEX CHALLENGES ...
MADE SIMPLE

APPENDIX D - ADDITIONAL WELL LOCATIONS



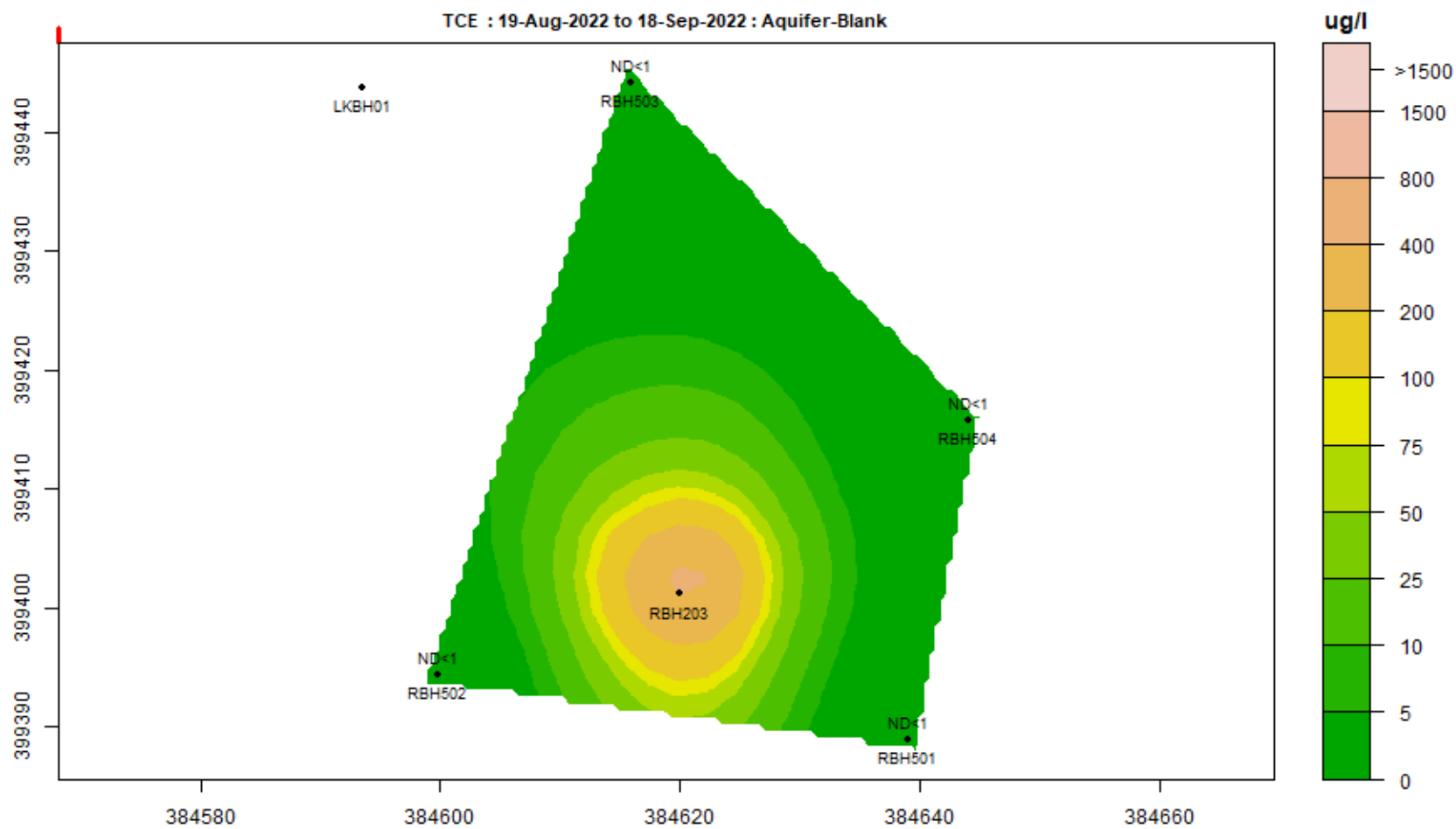
Need to build access to the drilling rig into the pad



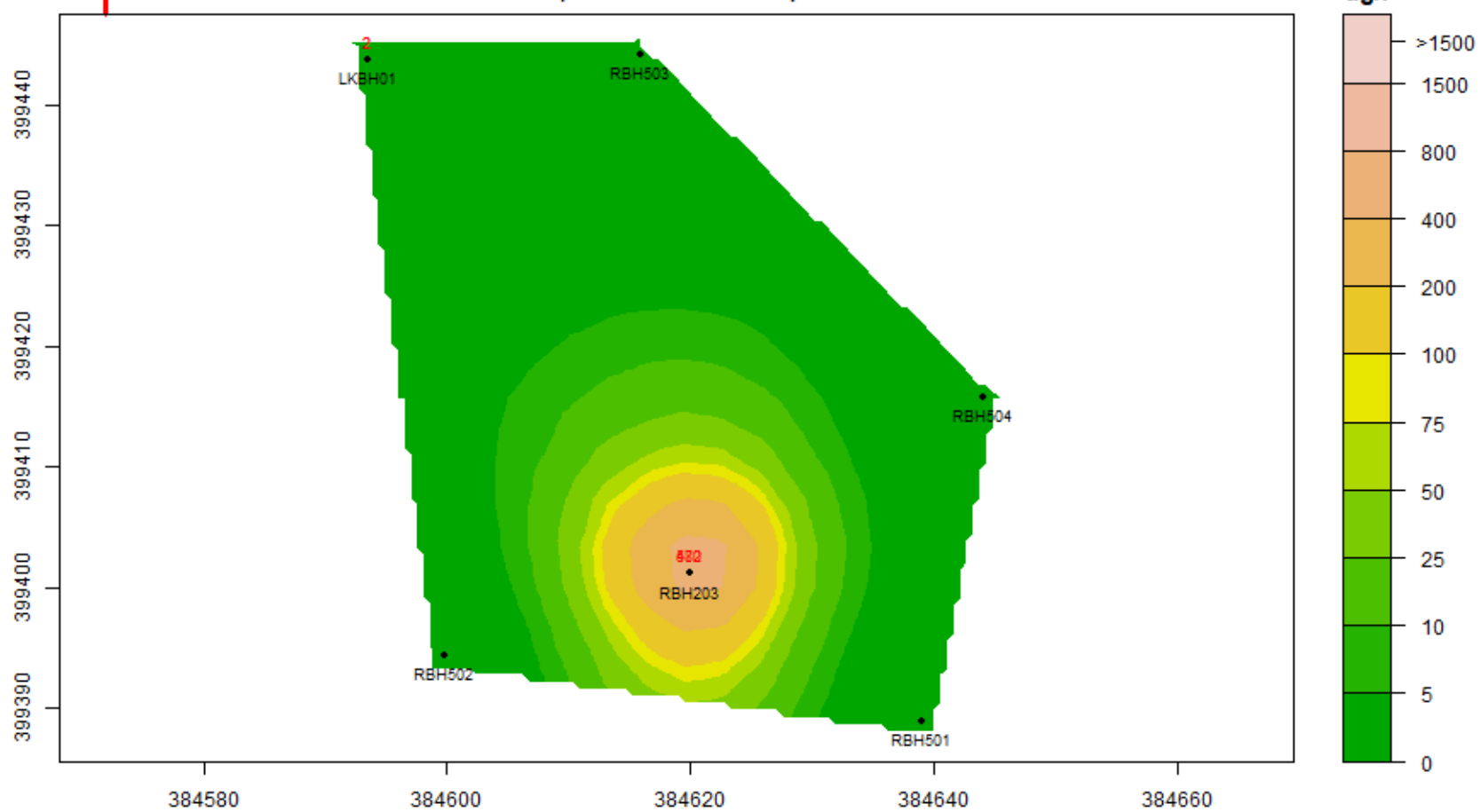


COMPLEX CHALLENGES ...
MADE SIMPLE

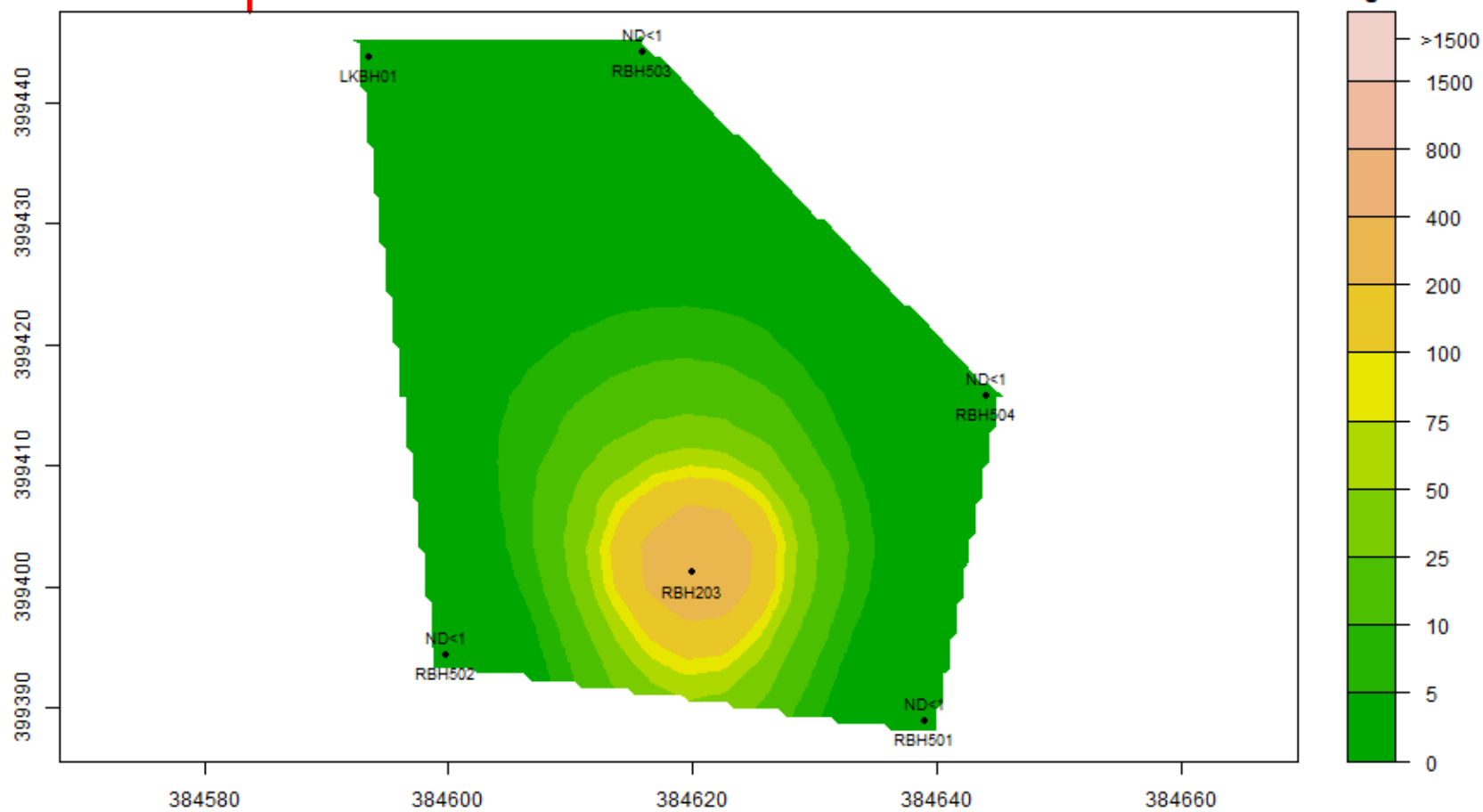
APPENDIX E - SAMPLE PLOTS FROM NEW WELLS



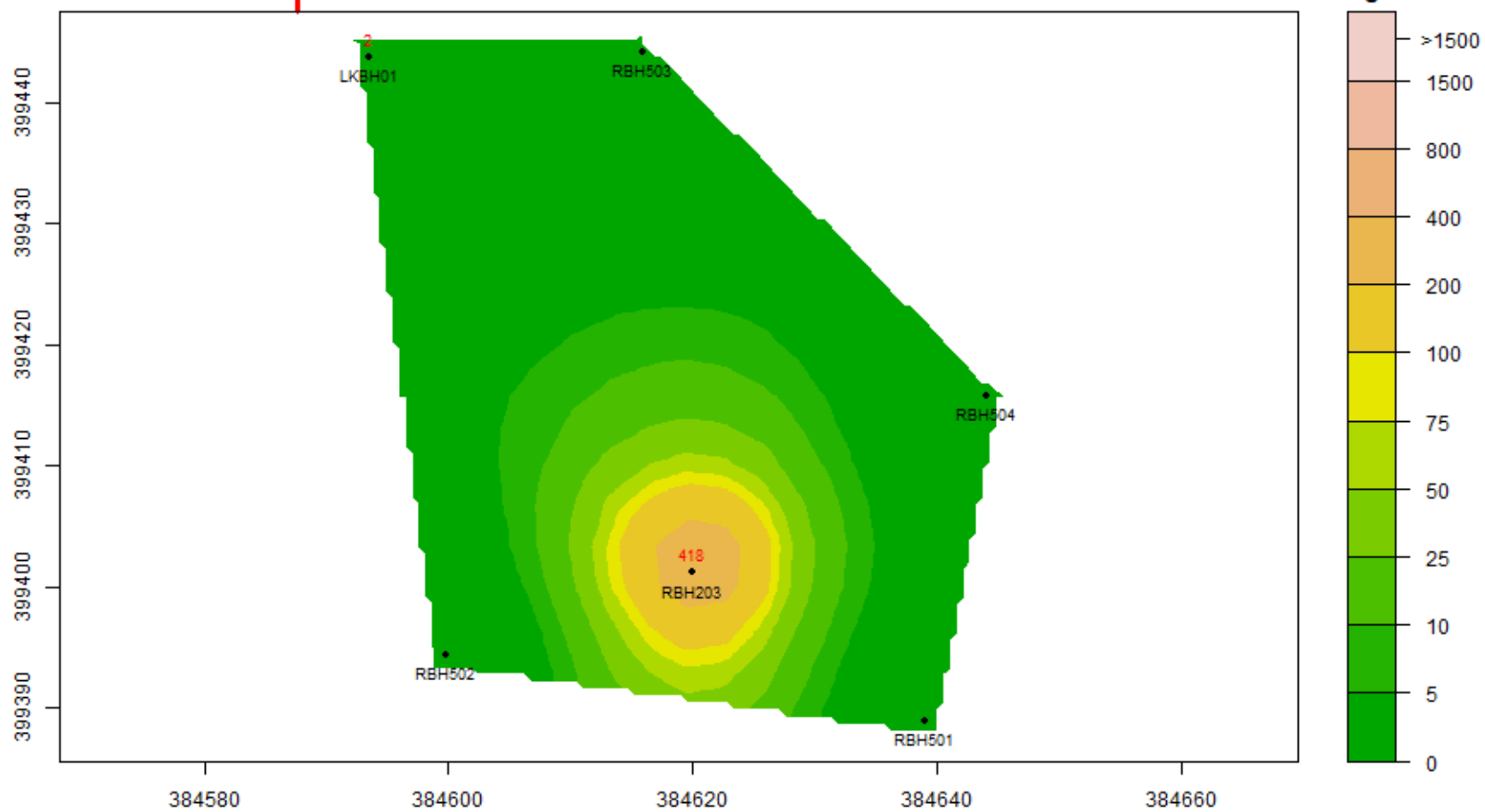
TCE : 19-Sep-2022 to 18-Oct-2022 : Aquifer-Blank

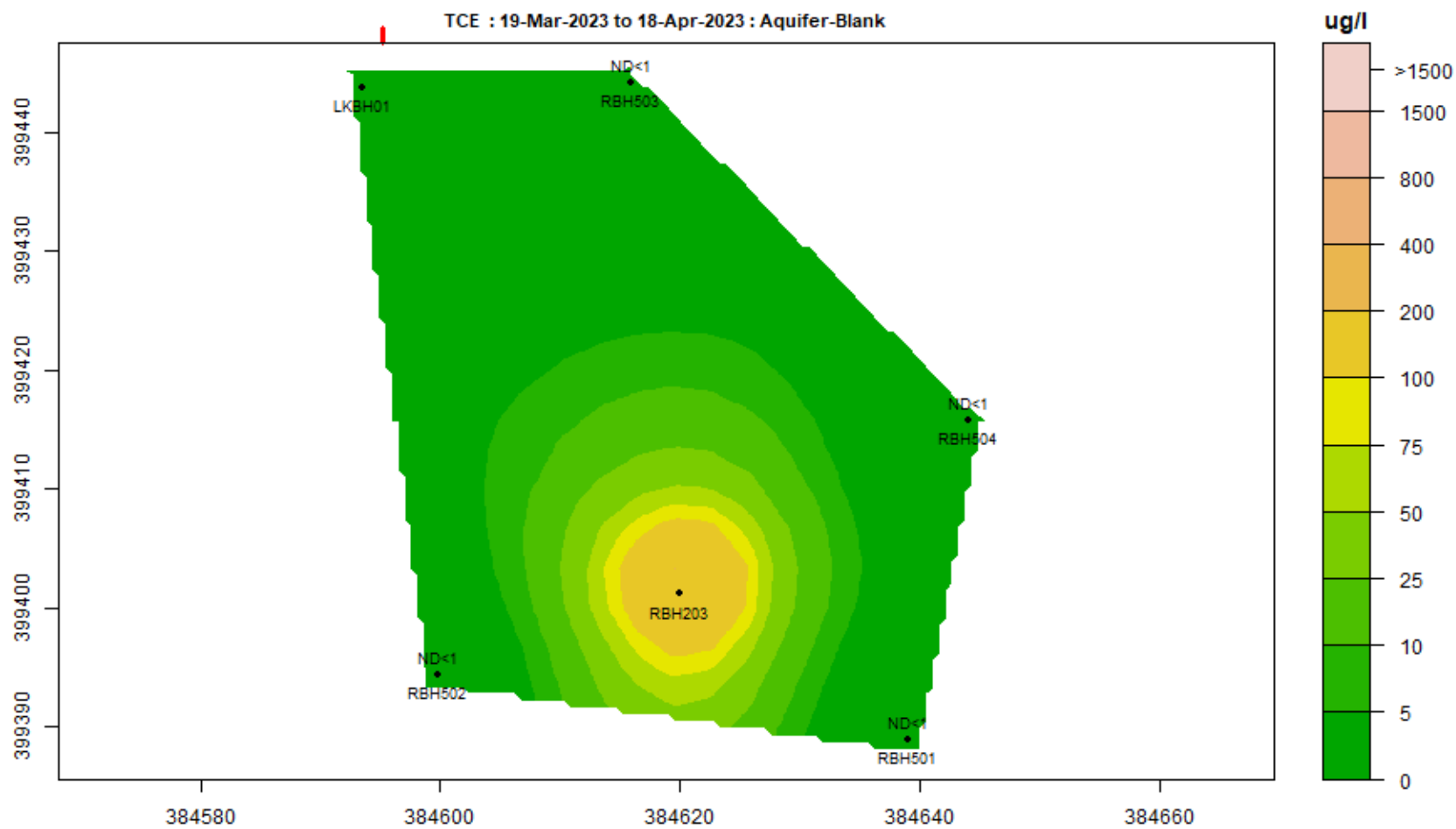


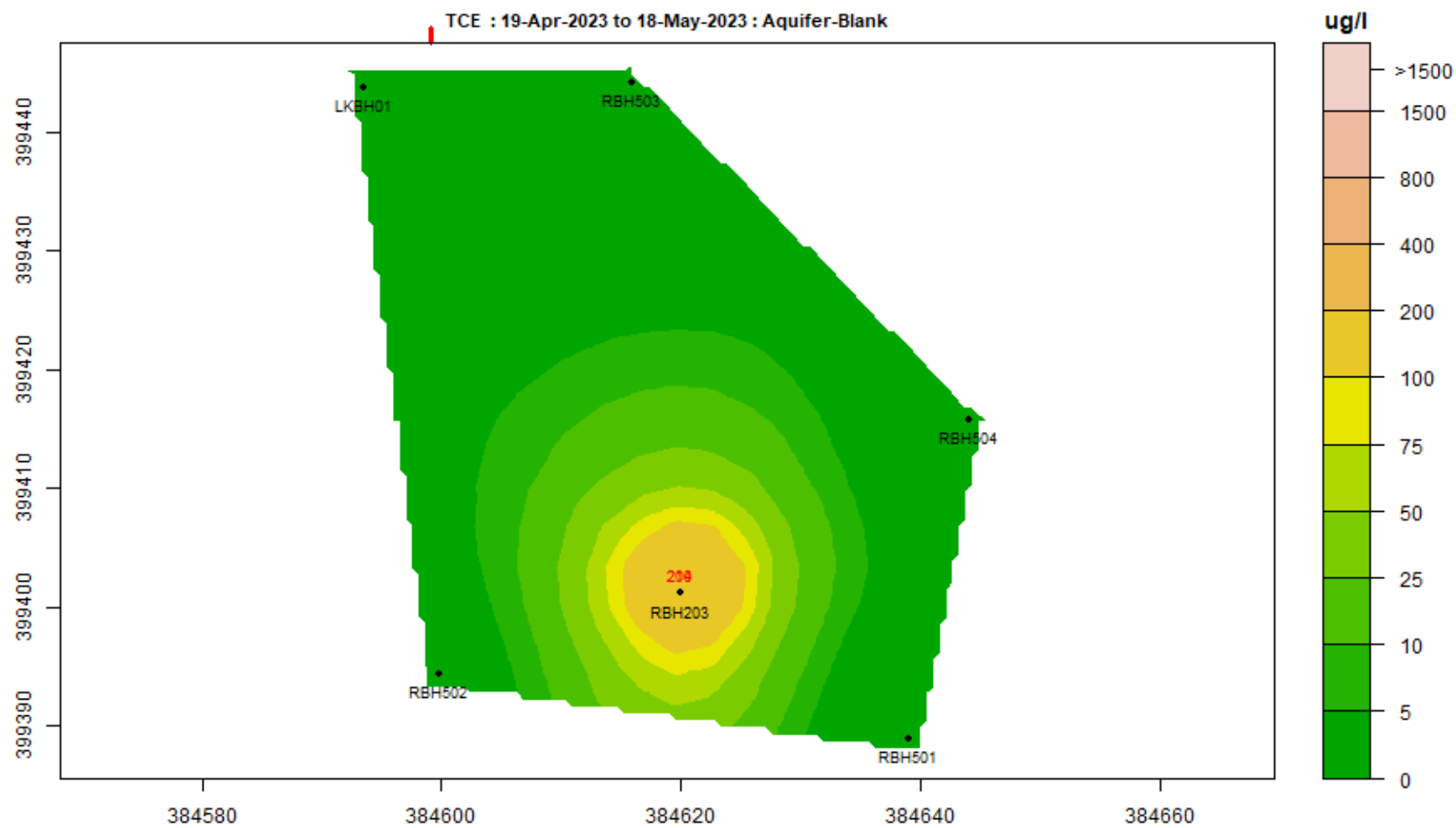
TCE : 19-Dec-2022 to 18-Jan-2023 : Aquifer-Blank



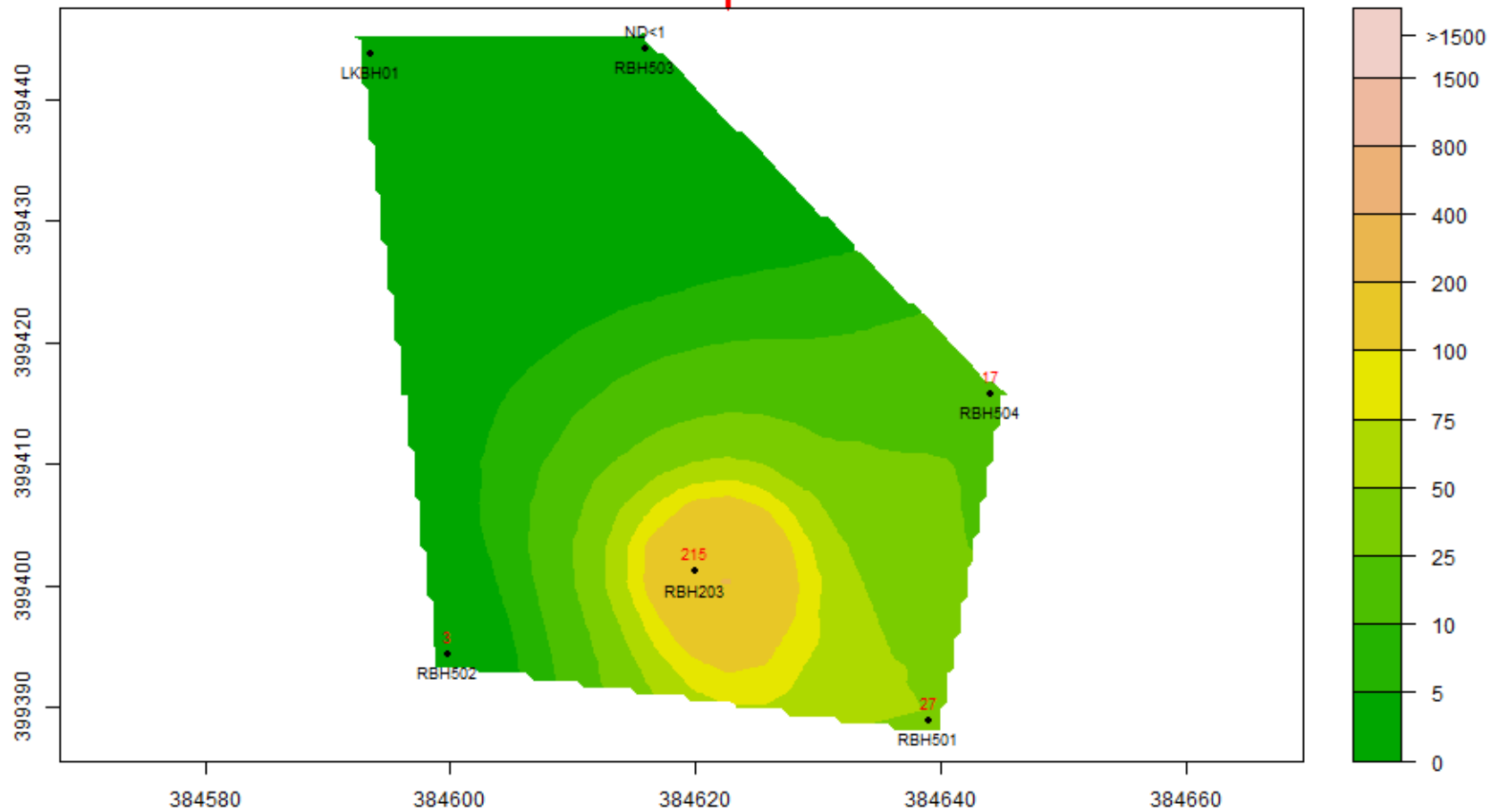
TCE : 19-Jan-2023 to 18-Feb-2023 : Aquifer-Blank

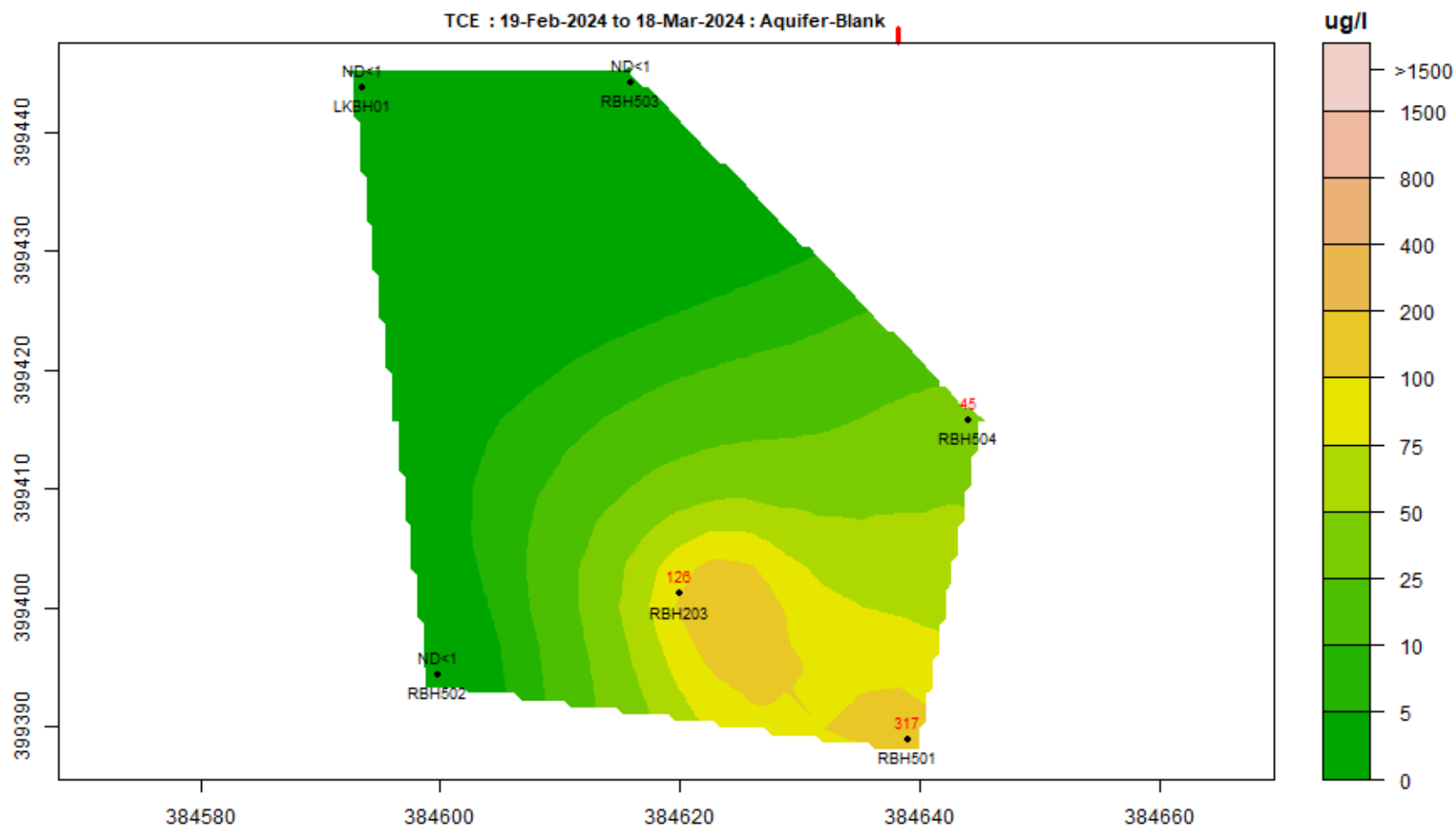




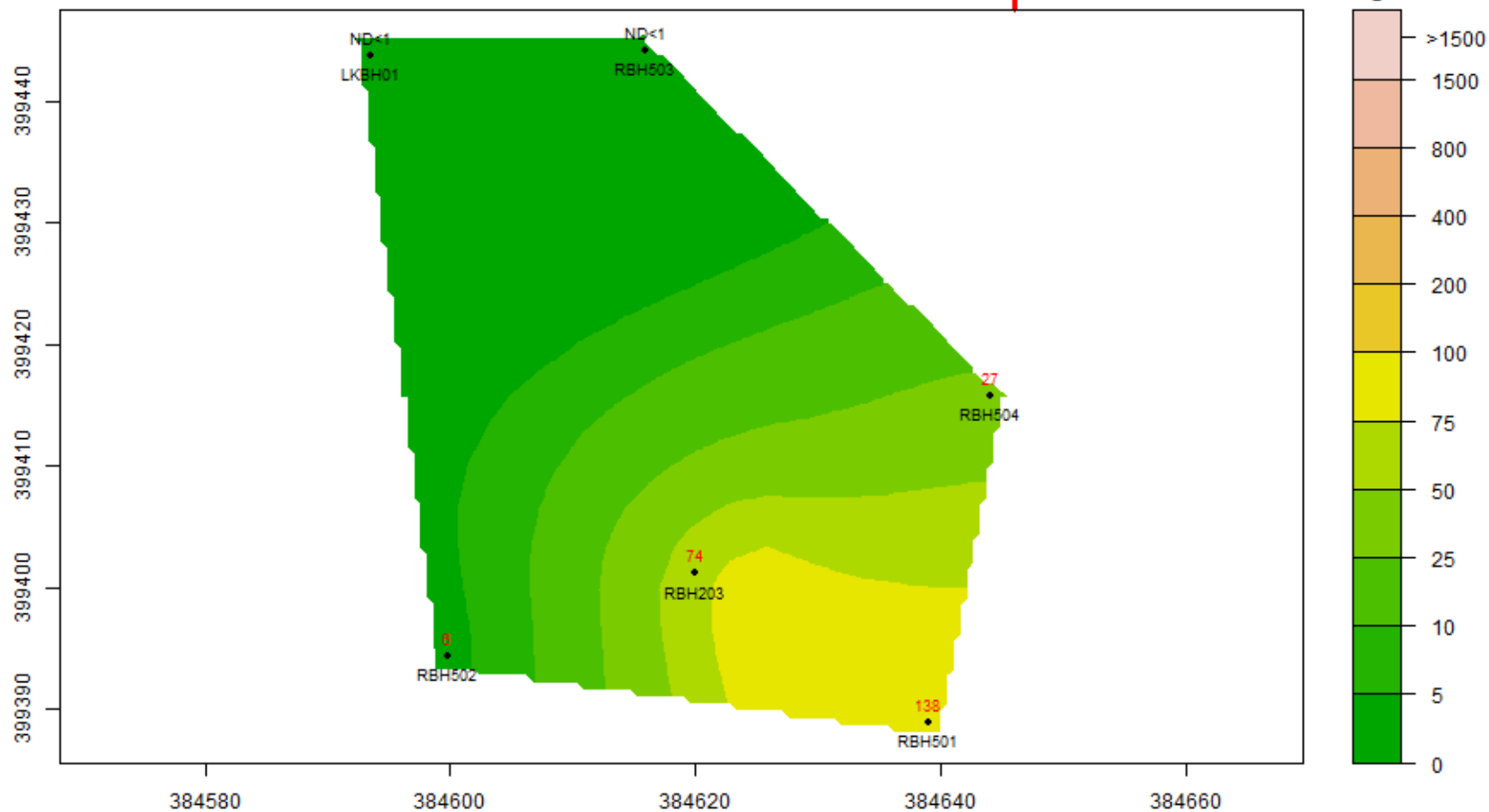


TCE : 19-Oct-2023 to 18-Nov-2023 : Aquifer-Blank

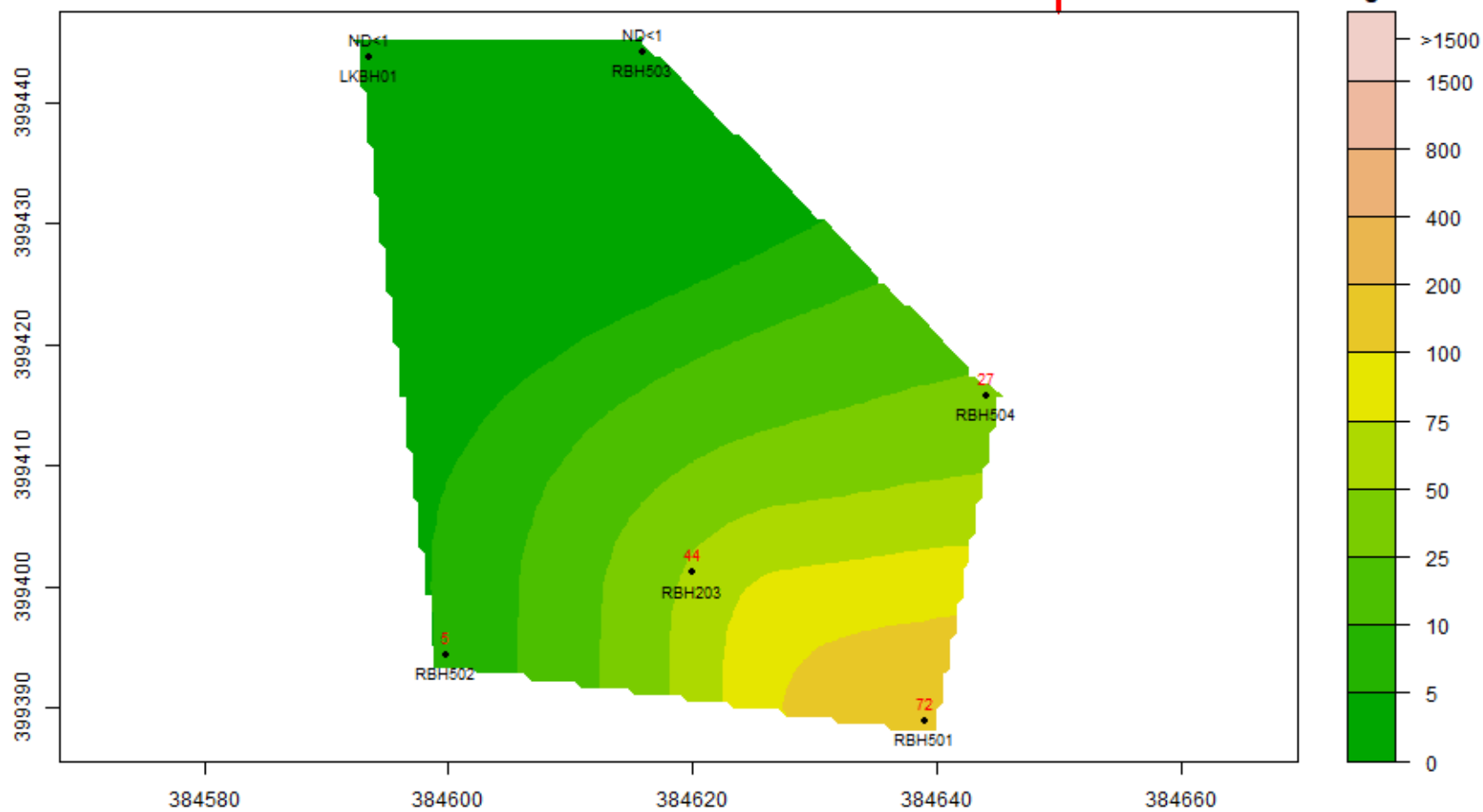




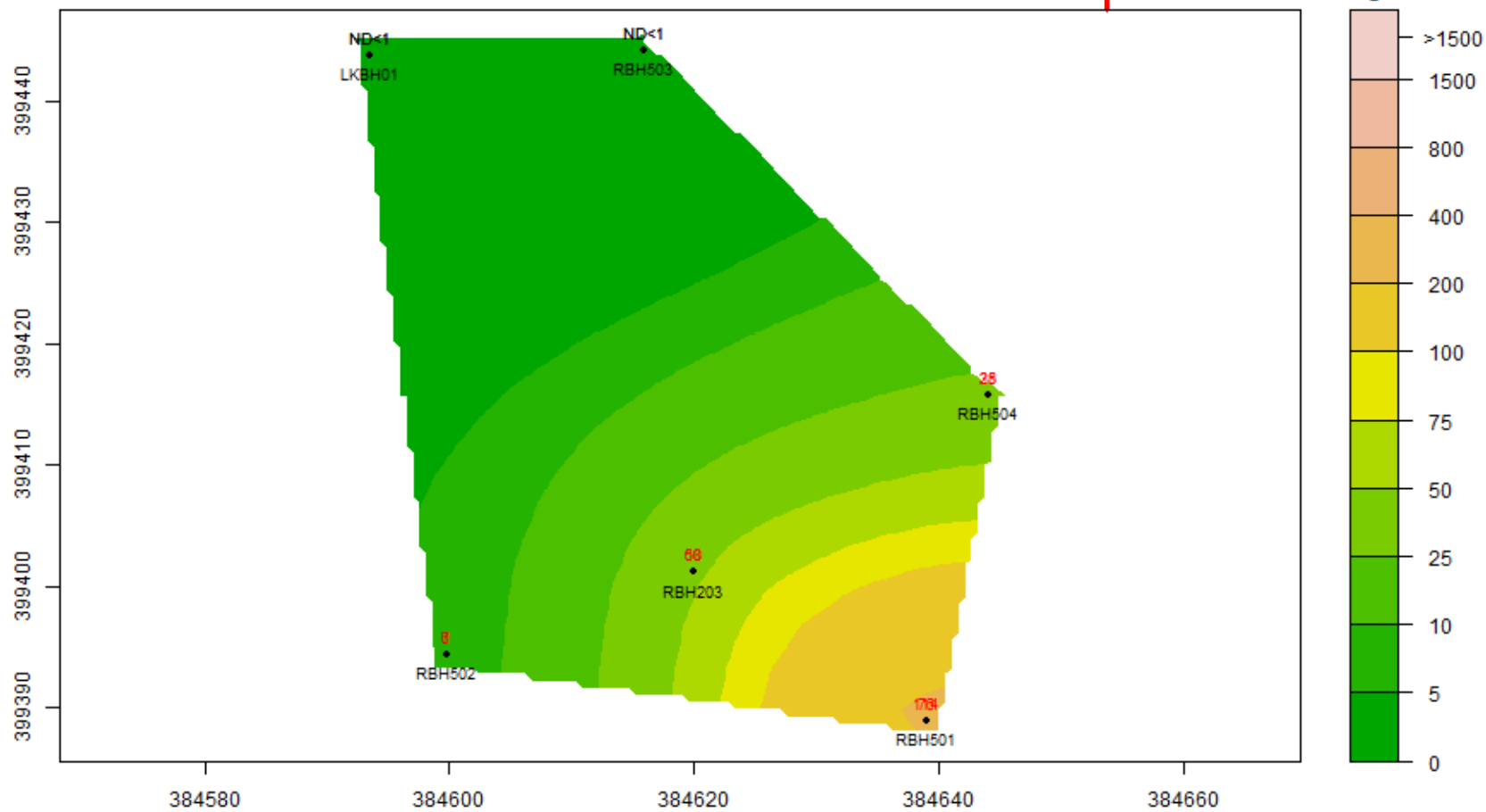
TCE : 19-Apr-2024 to 18-May-2024 : Aquifer-Blank



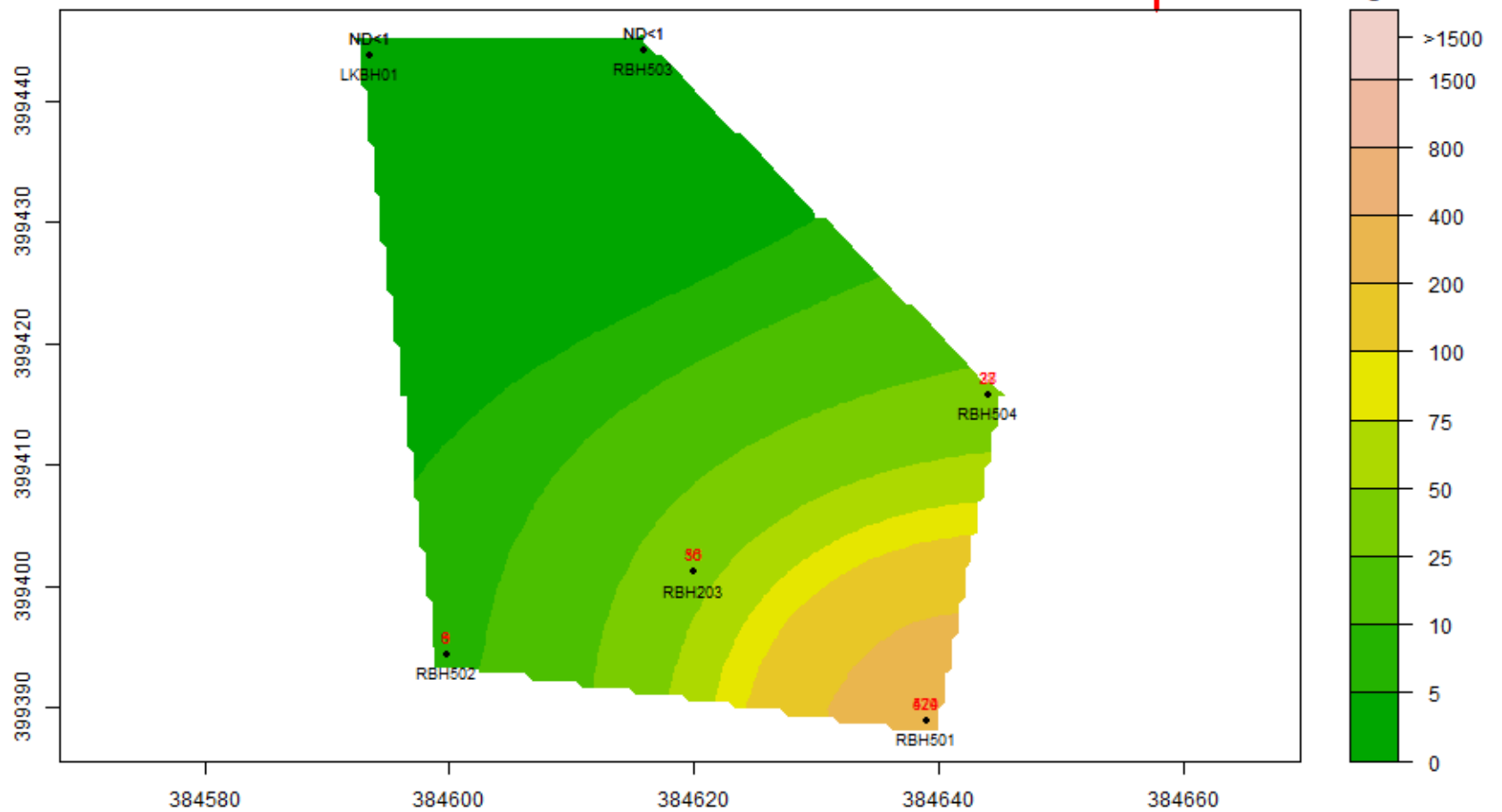
TCE : 19-May-2024 to 18-Jun-2024 : Aquifer-Blank



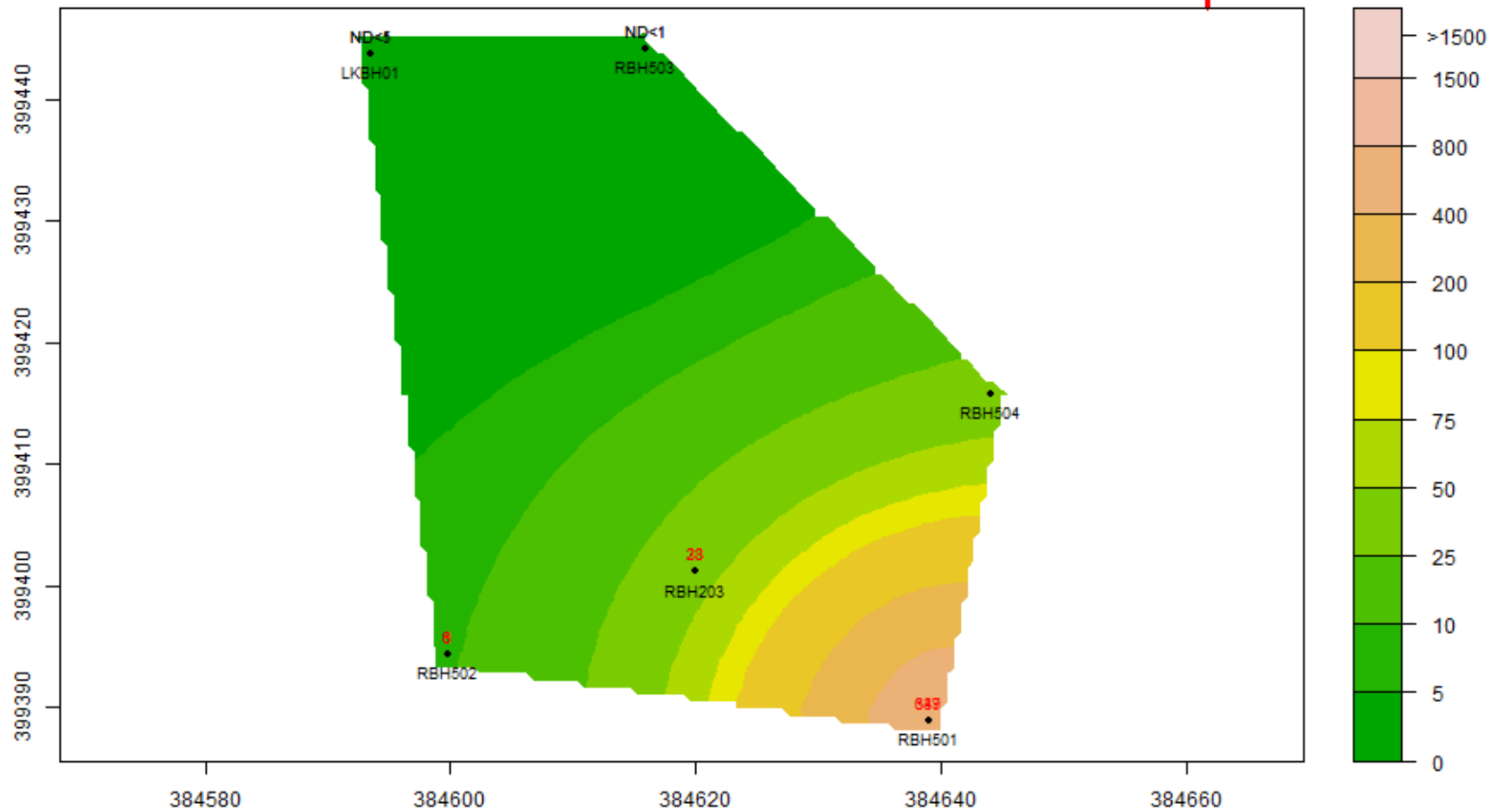
TCE : 19-Jun-2024 to 18-Jul-2024 : Aquifer-Blank



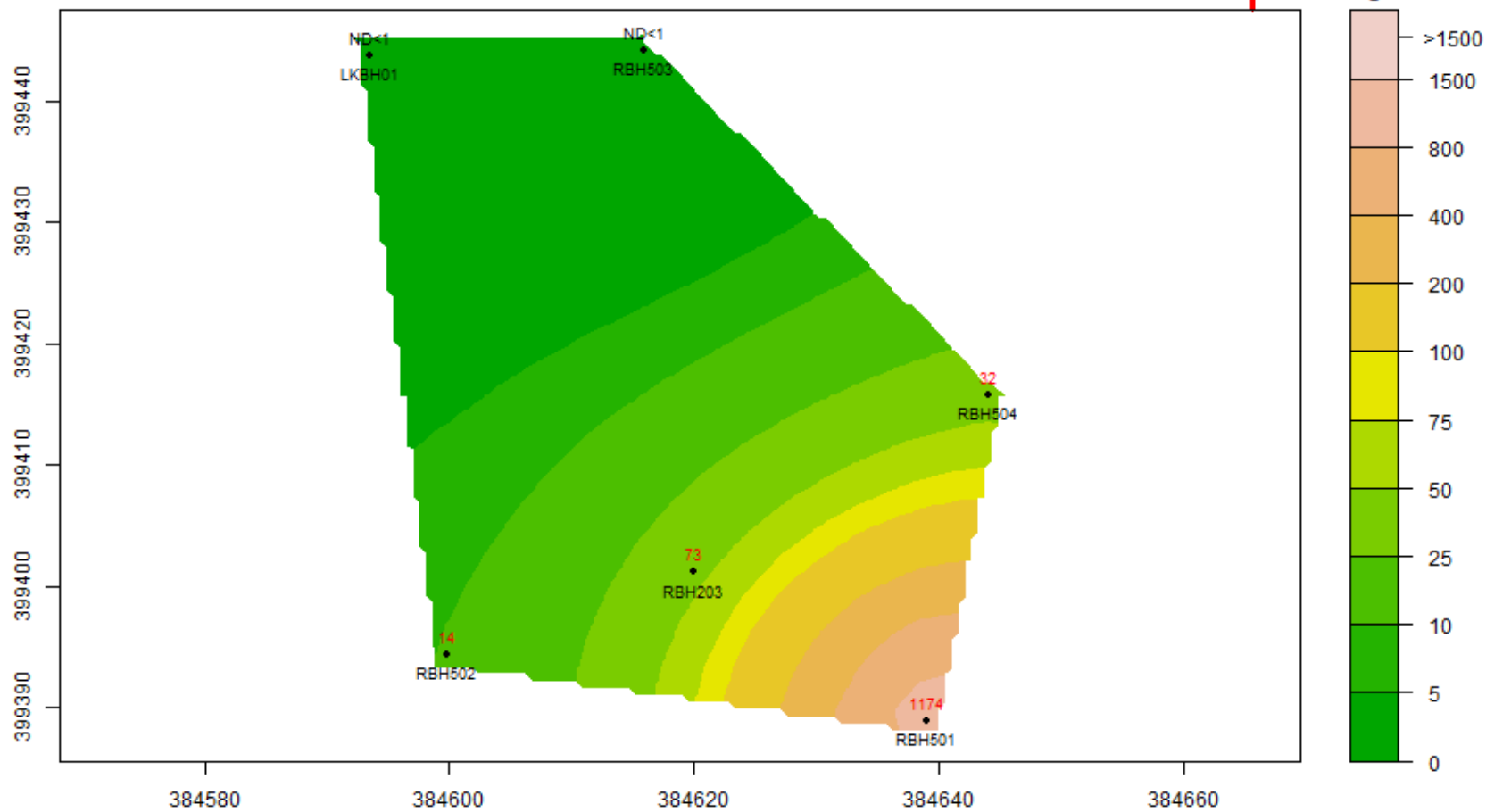
TCE : 19-Jul-2024 to 18-Aug-2024 : Aquifer-Blank



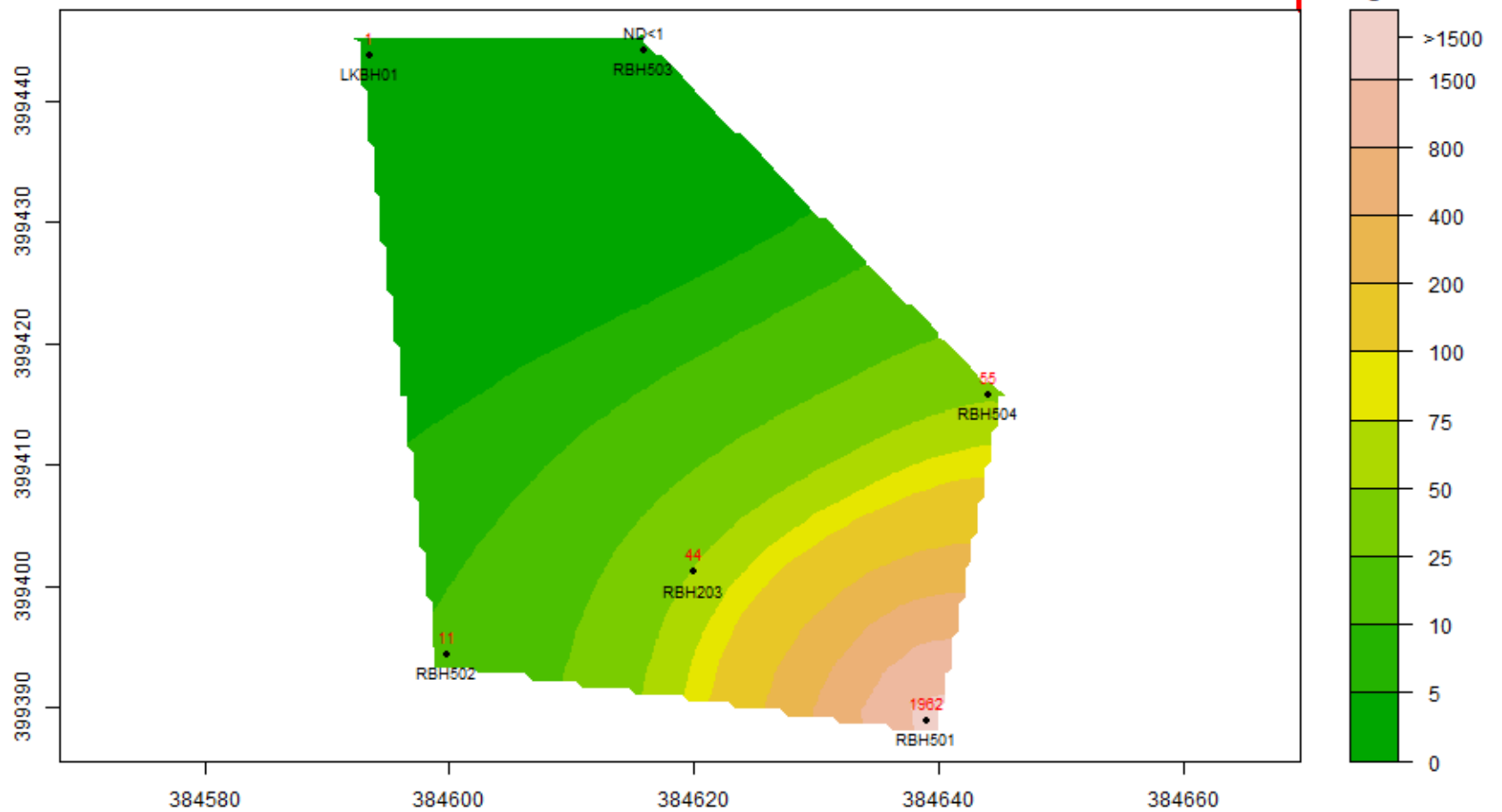
TCE : 19-Aug-2024 to 18-Sep-2024 : Aquifer-Blank



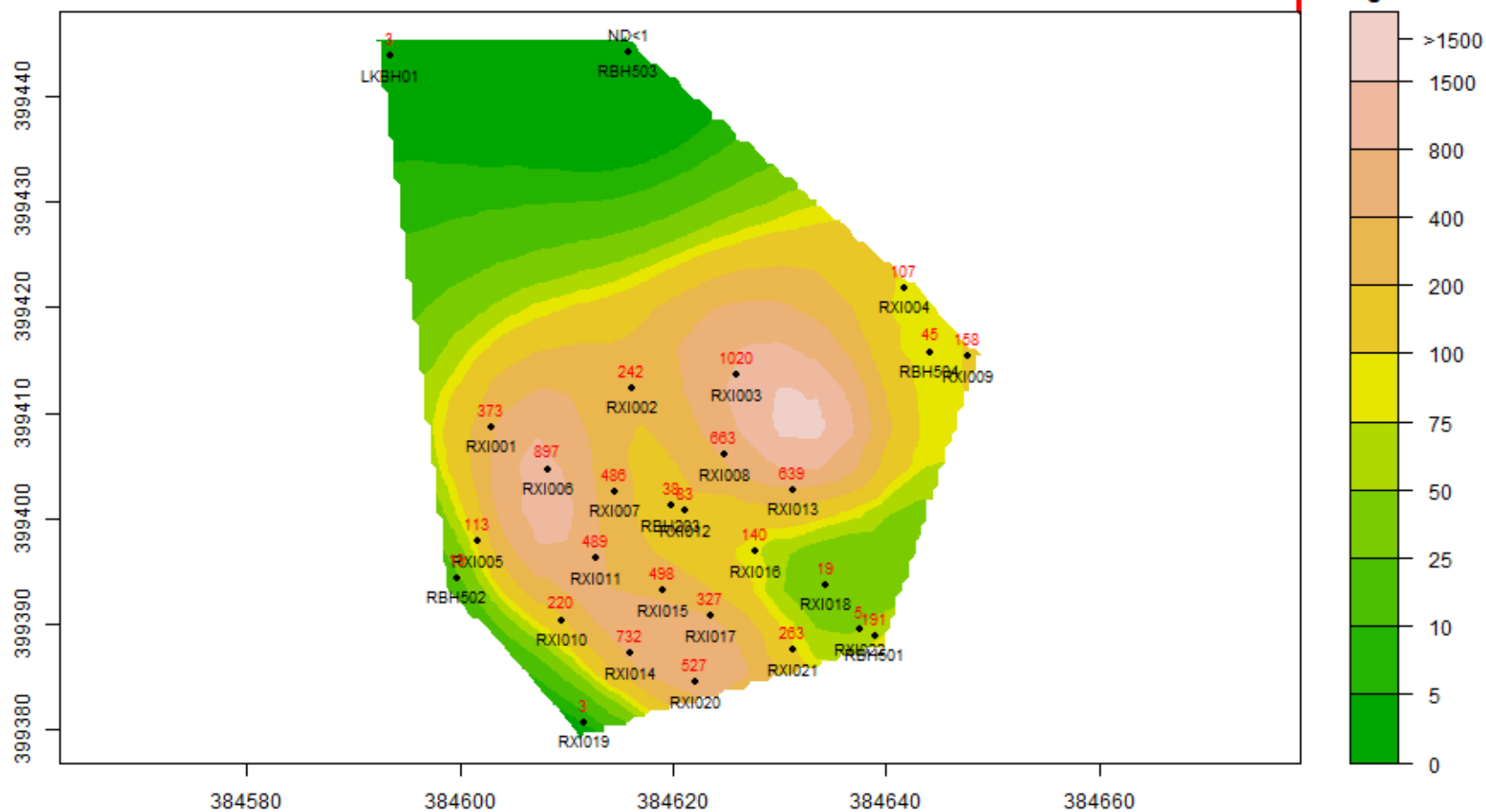
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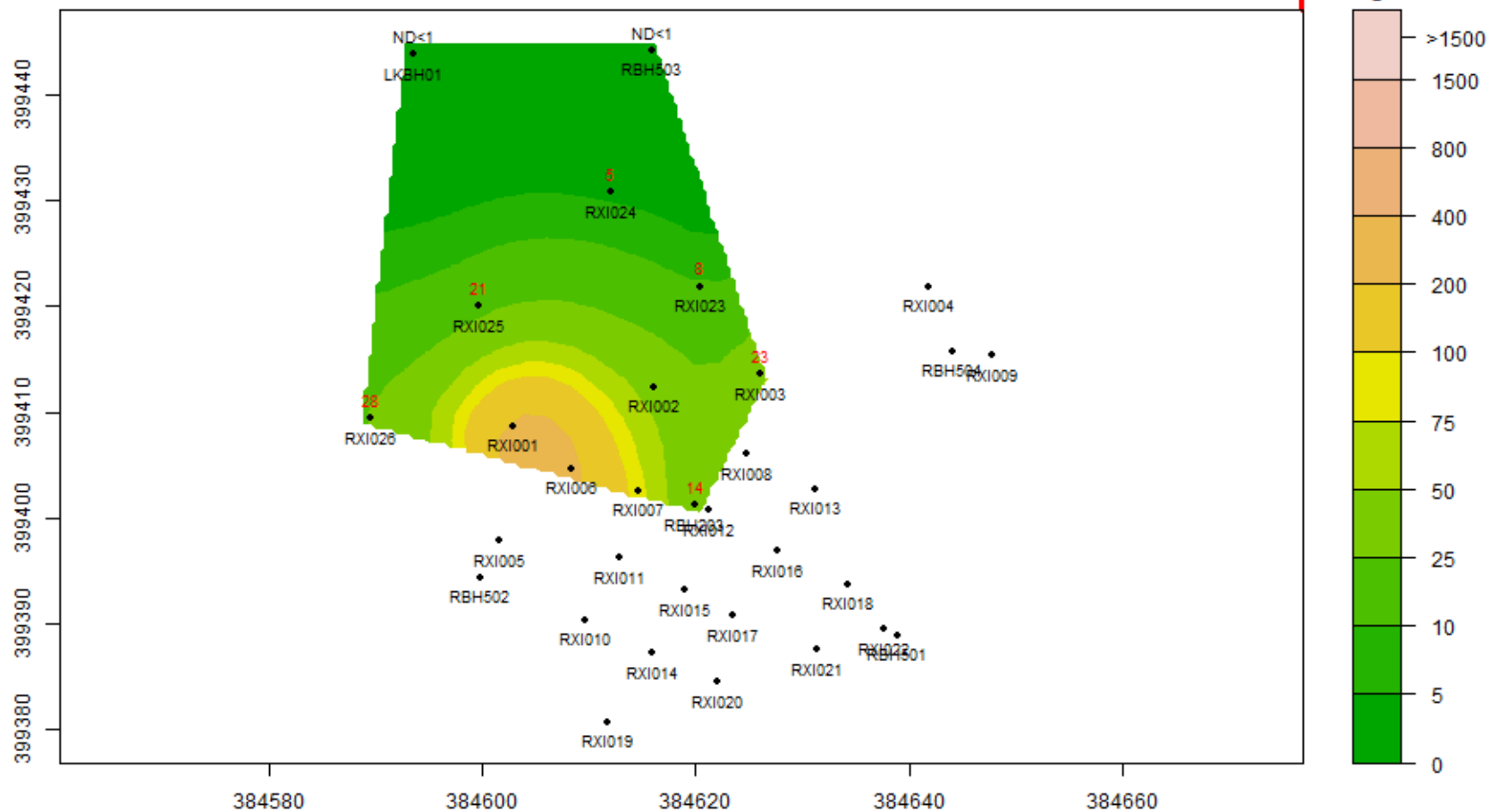
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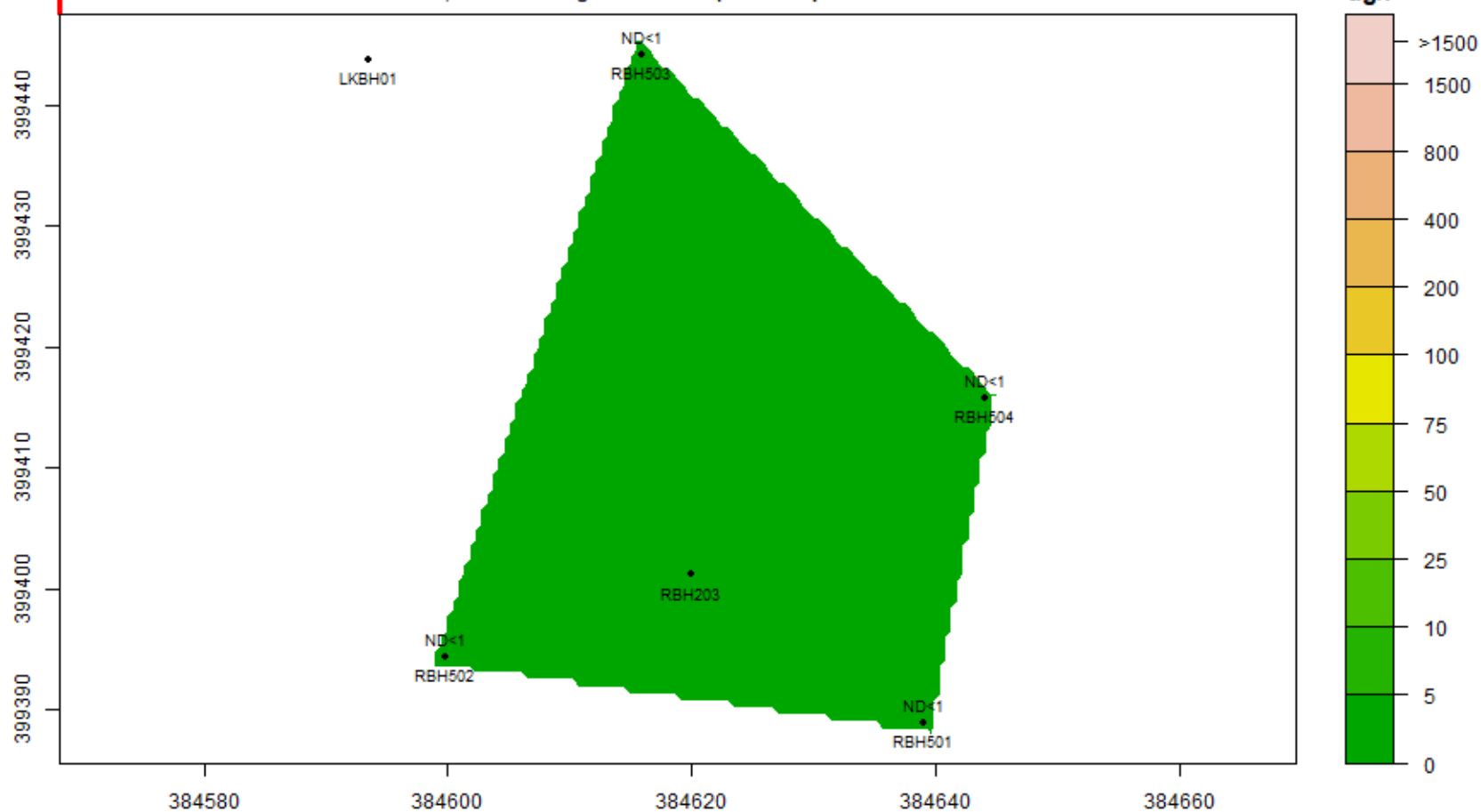
TCE : 25-Dec-2024 to 24-Jan-2025 : Aquifer-Blank



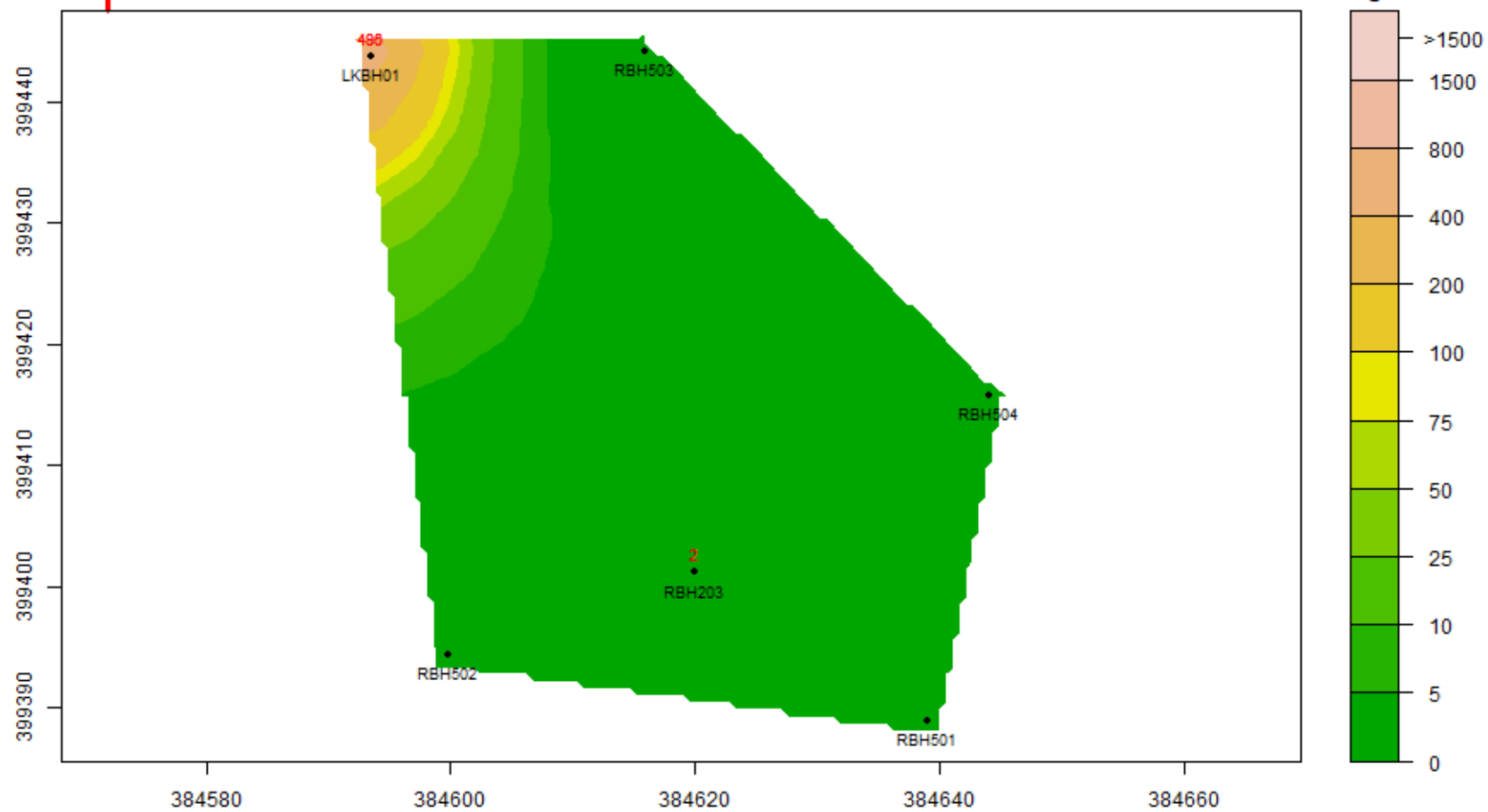
TCE : 11-Mar-2025 to 10-Apr-2025 : Aquifer-Blank

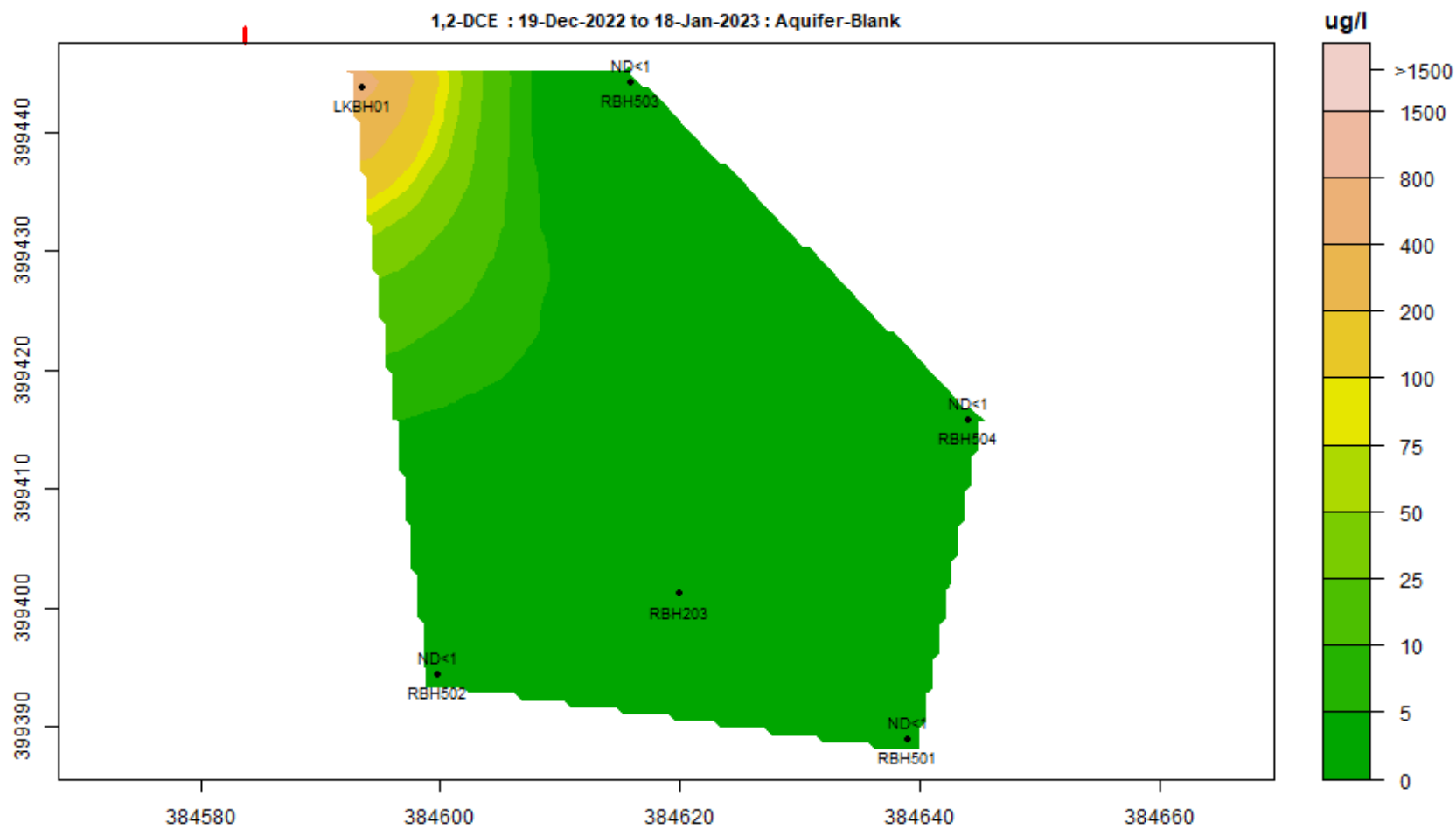


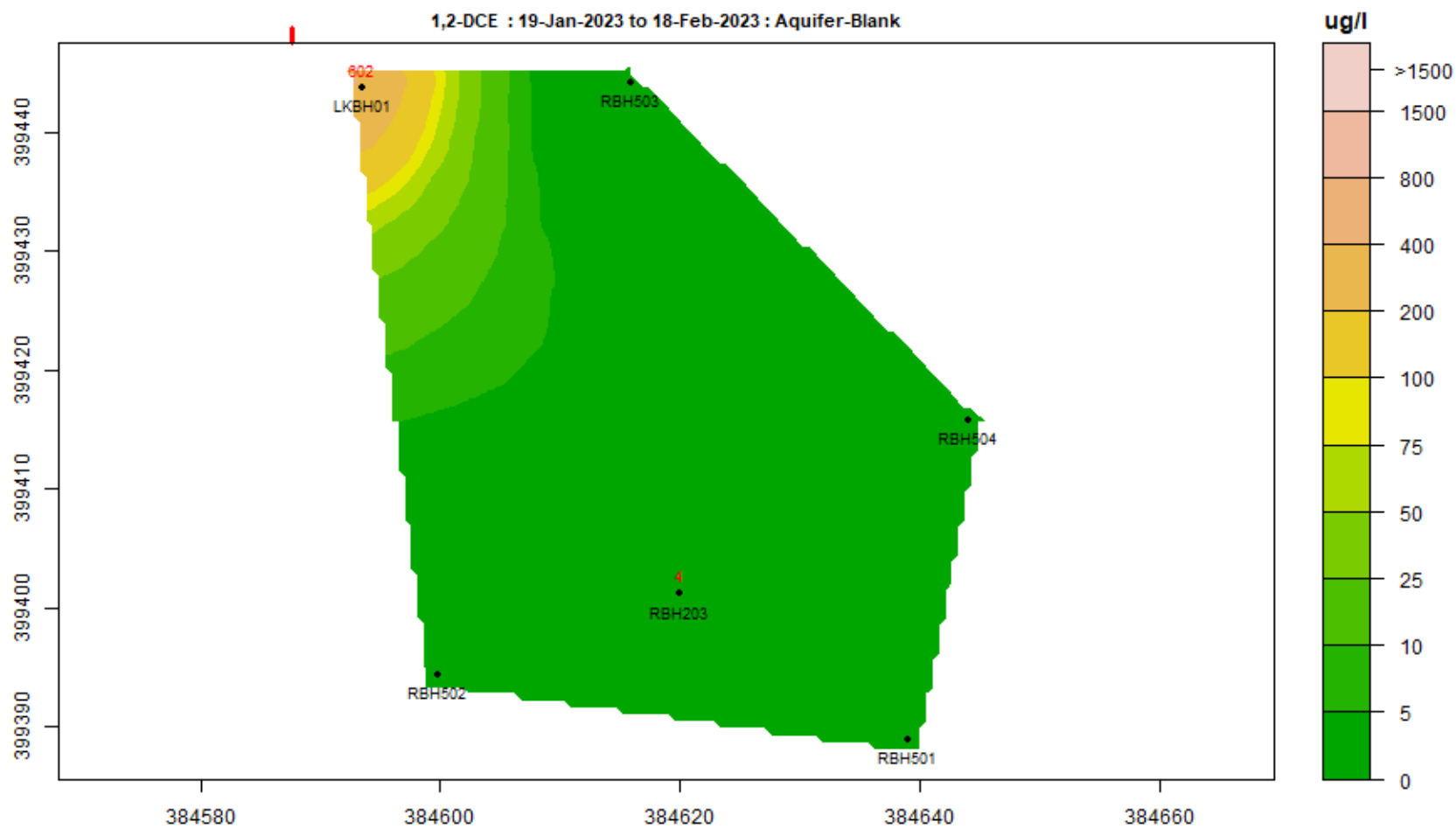
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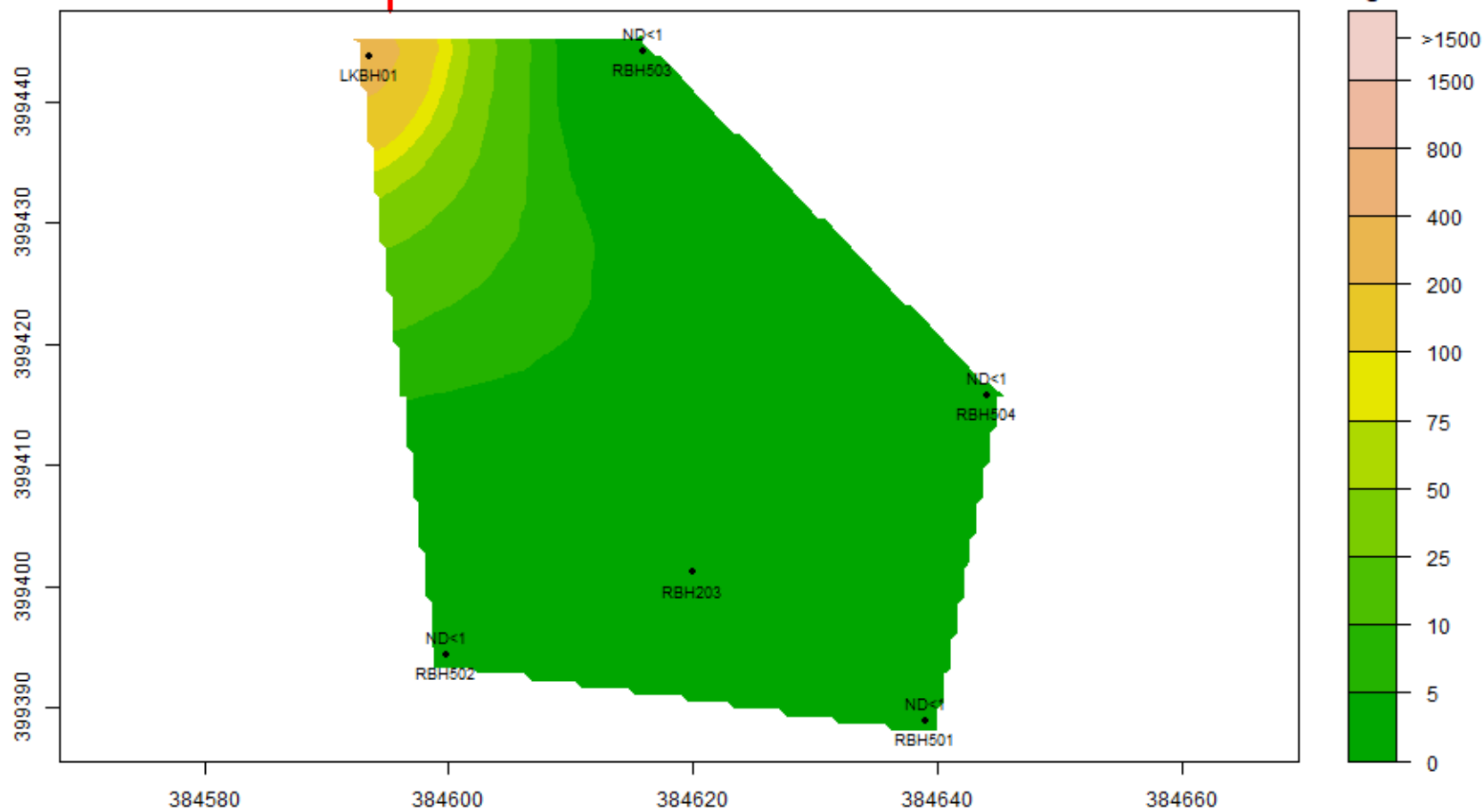
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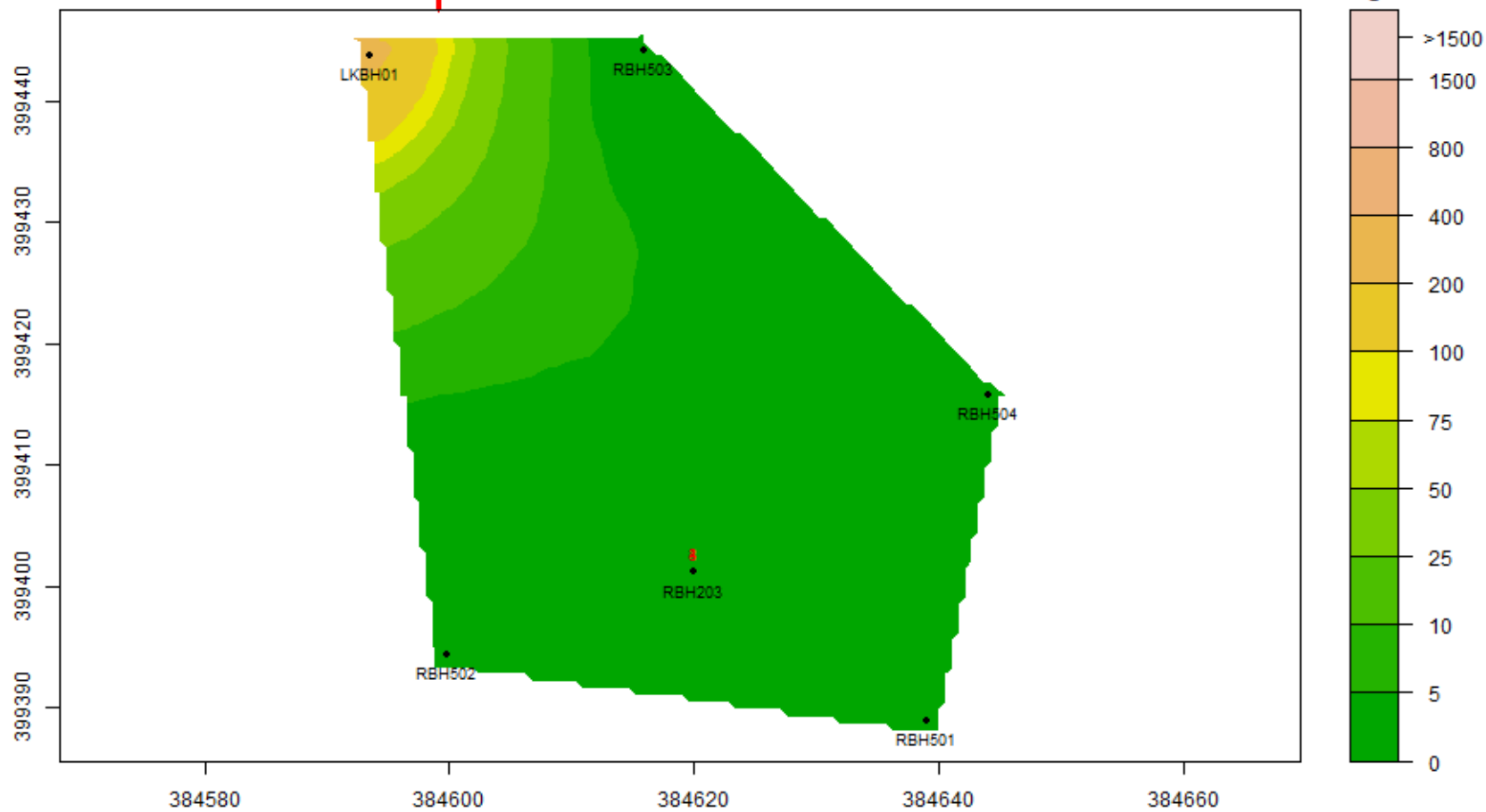




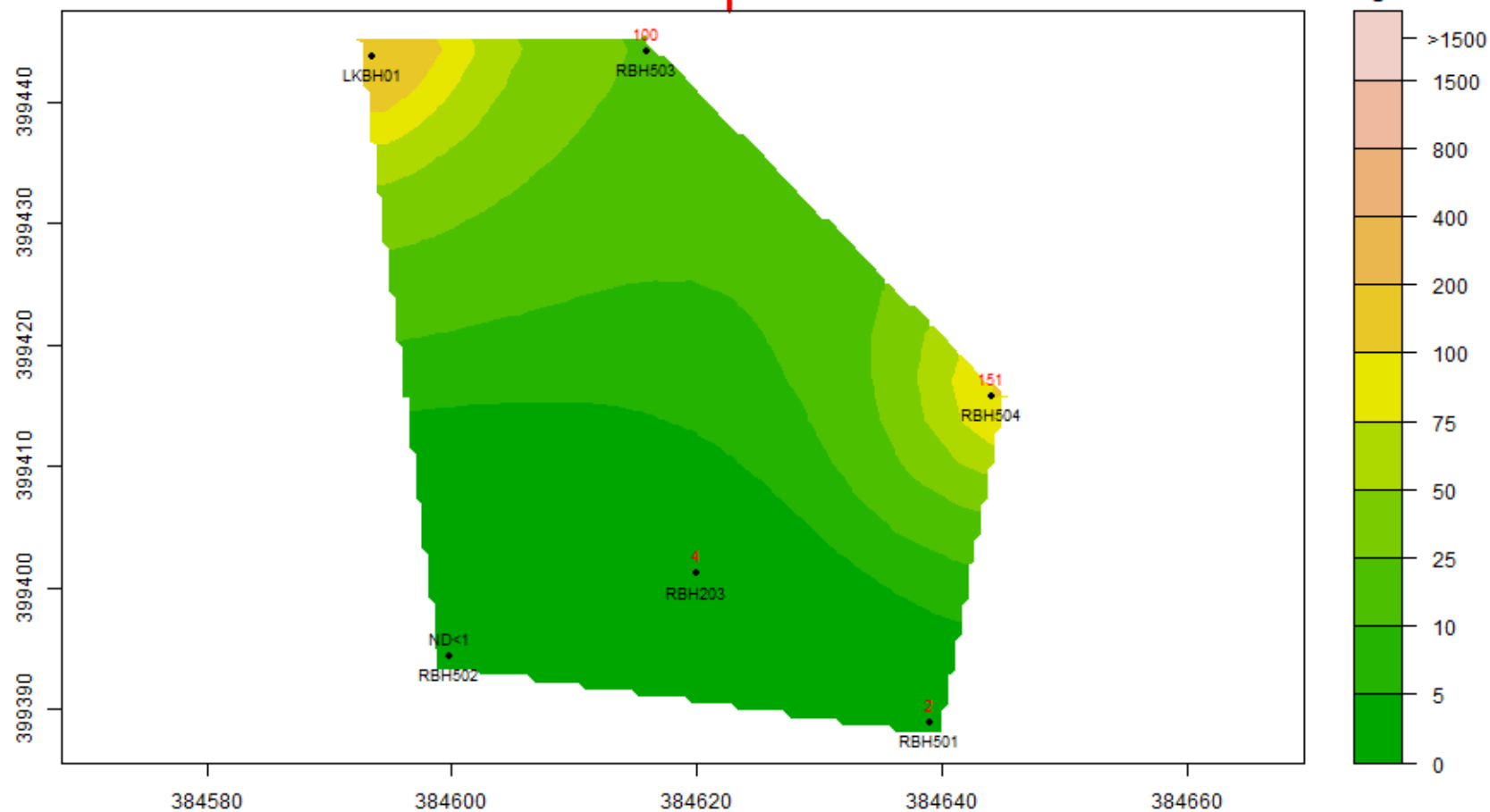
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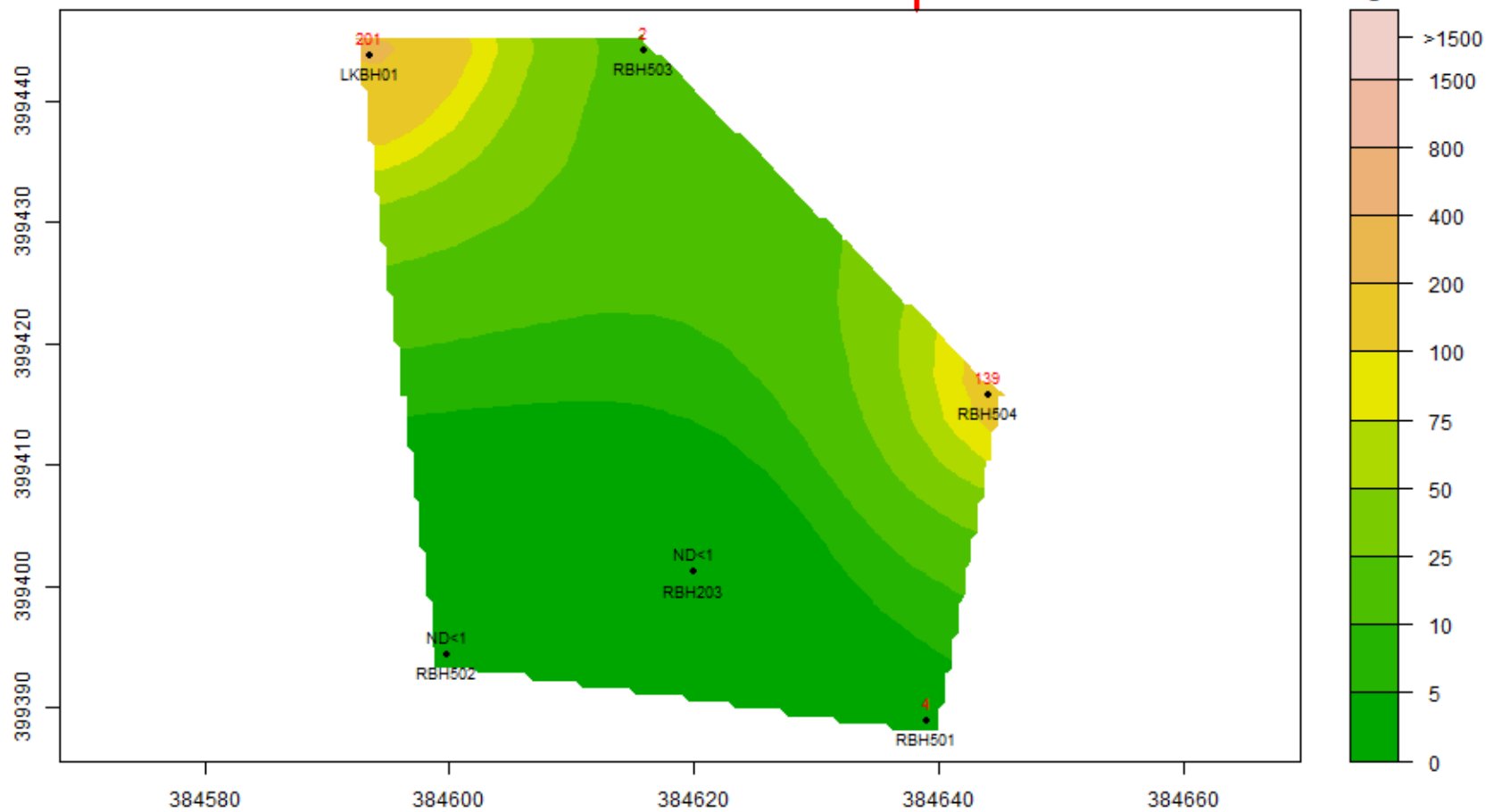
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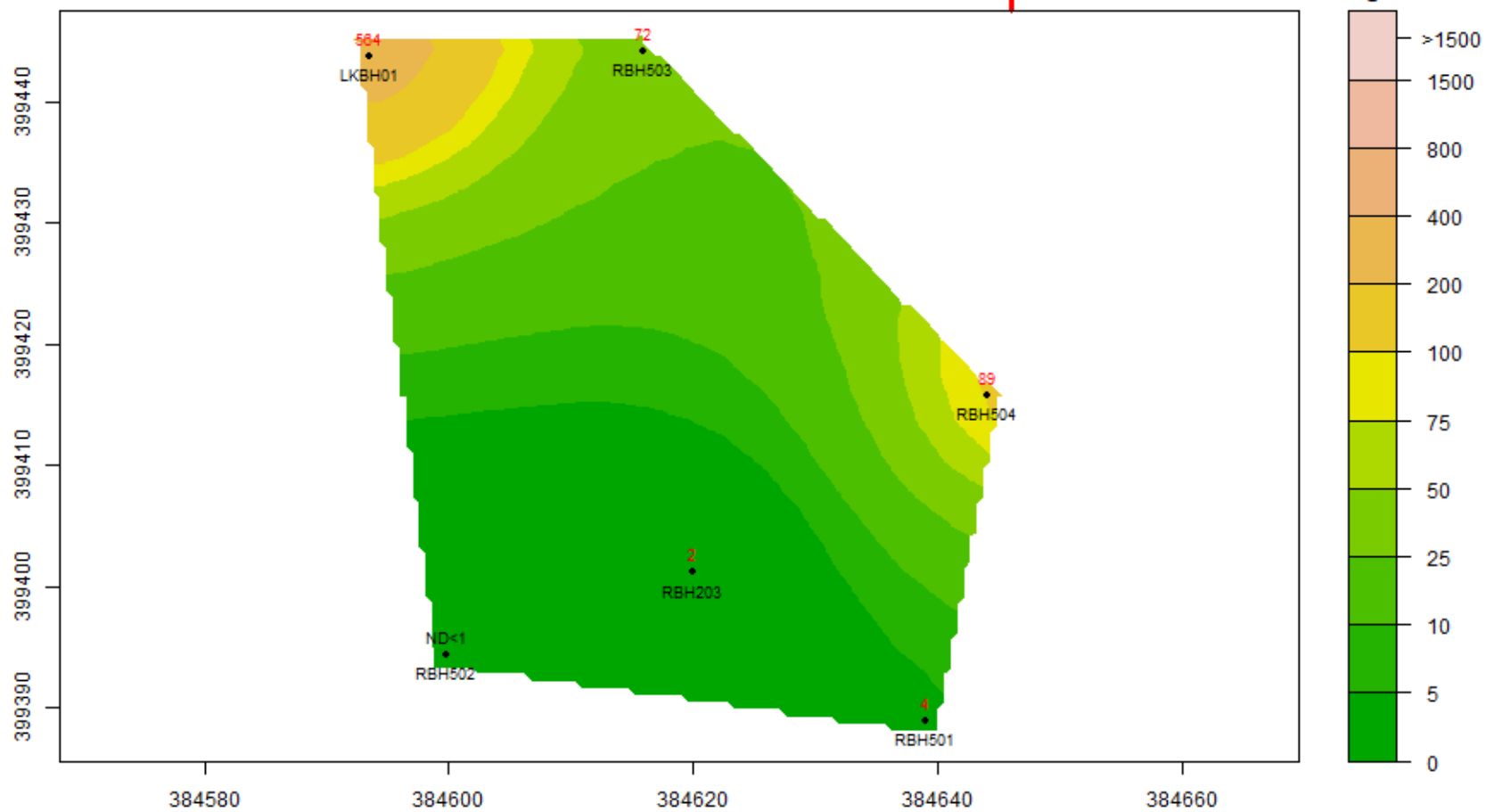
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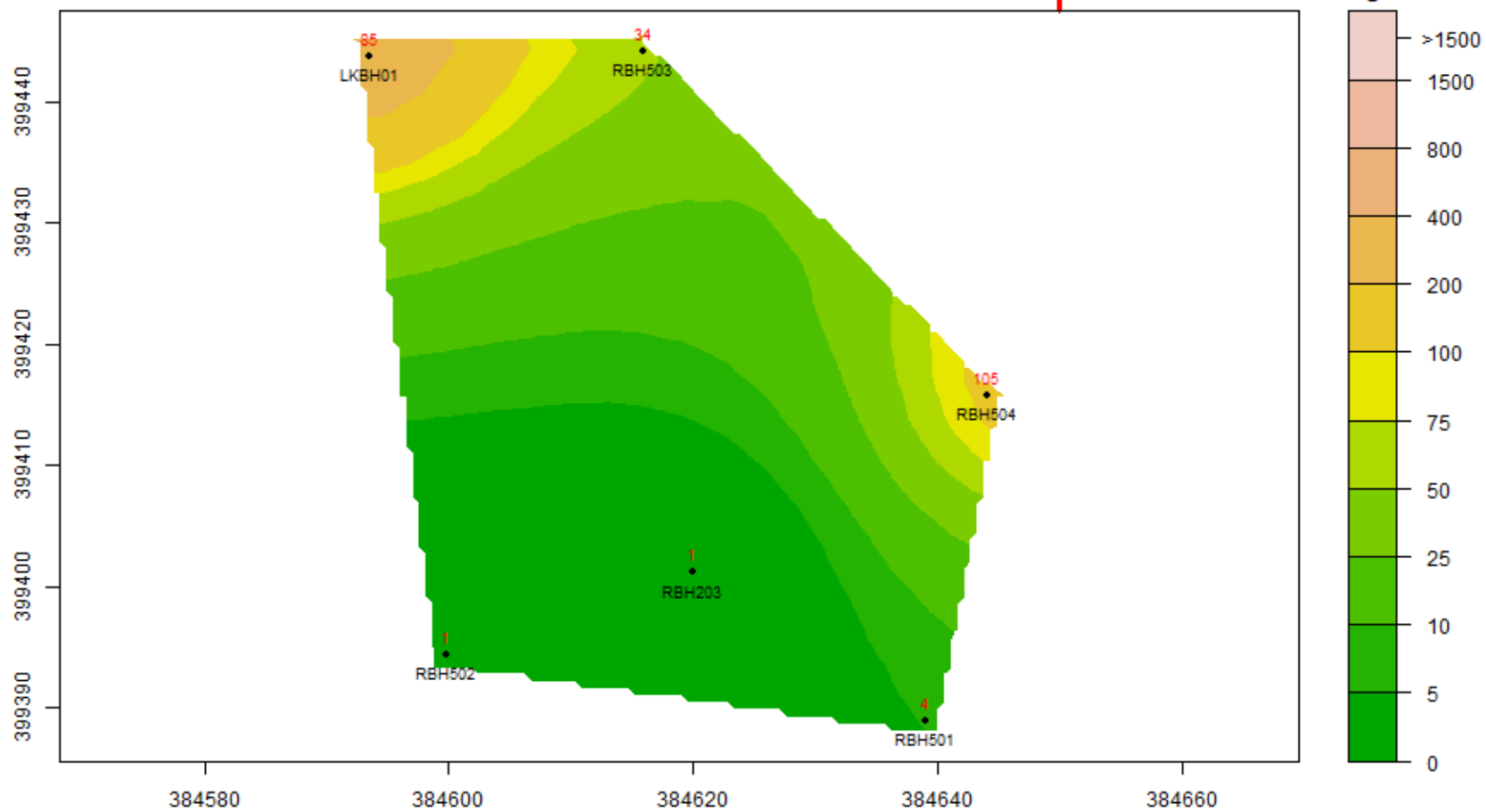
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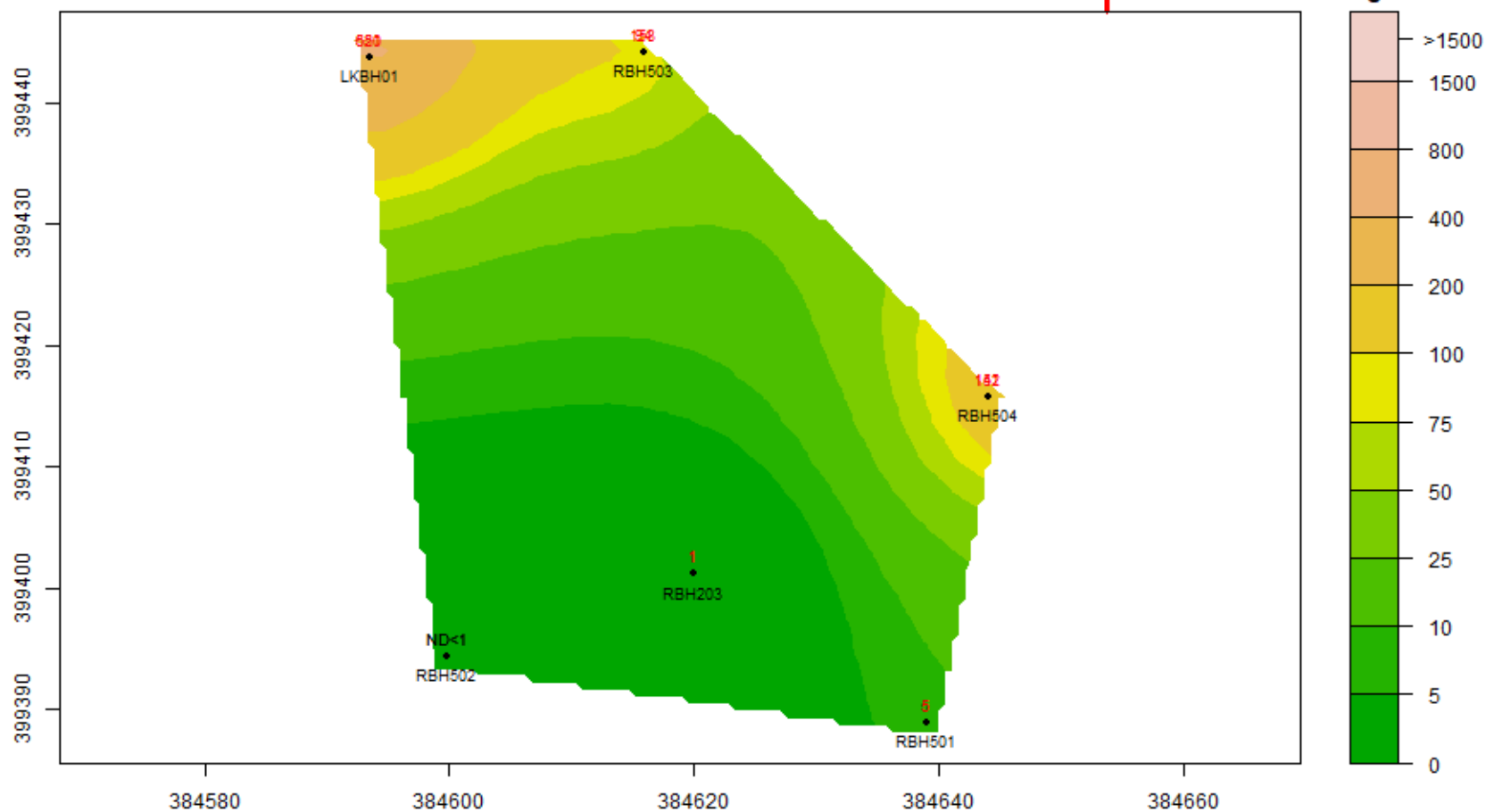
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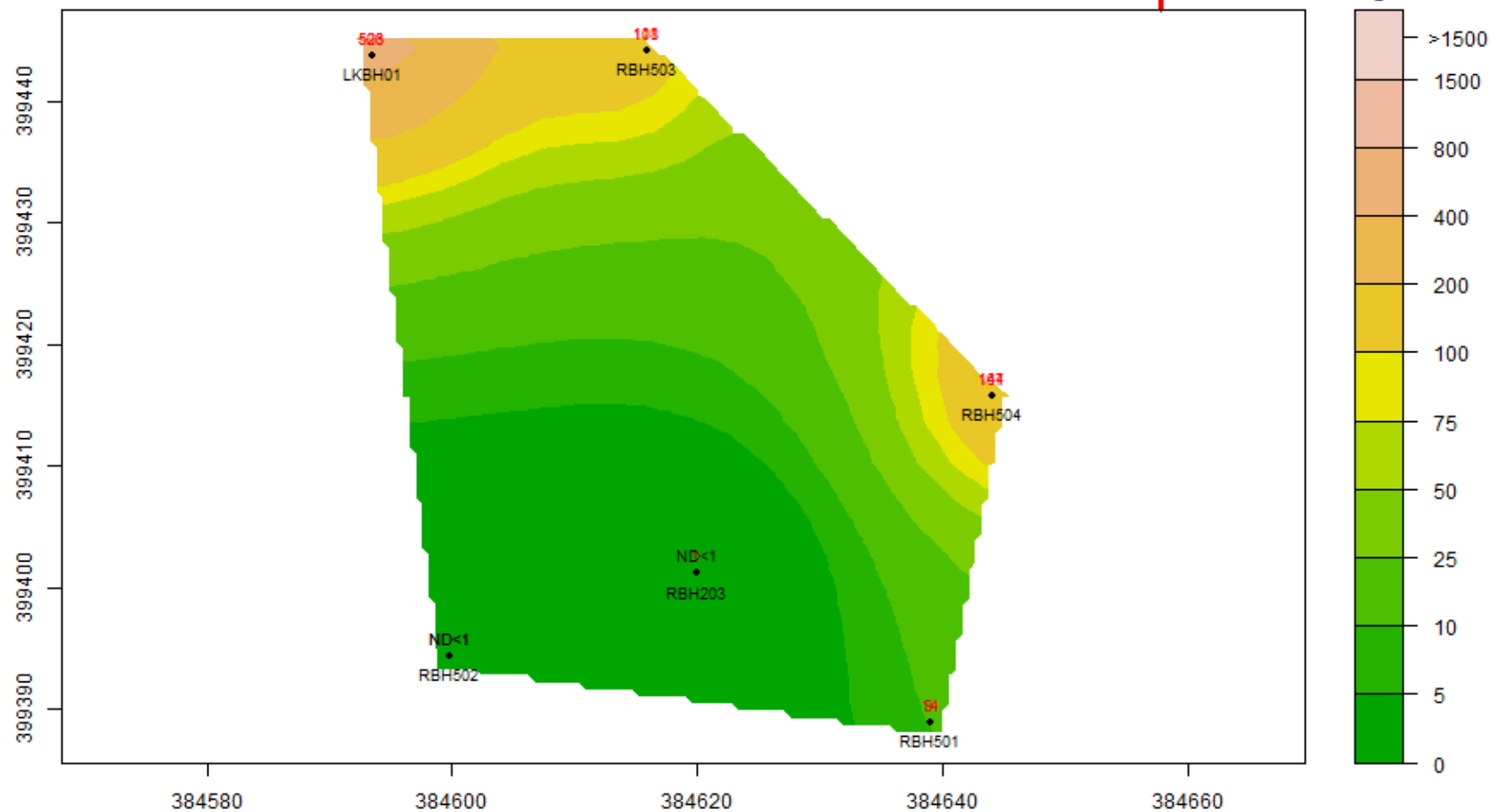
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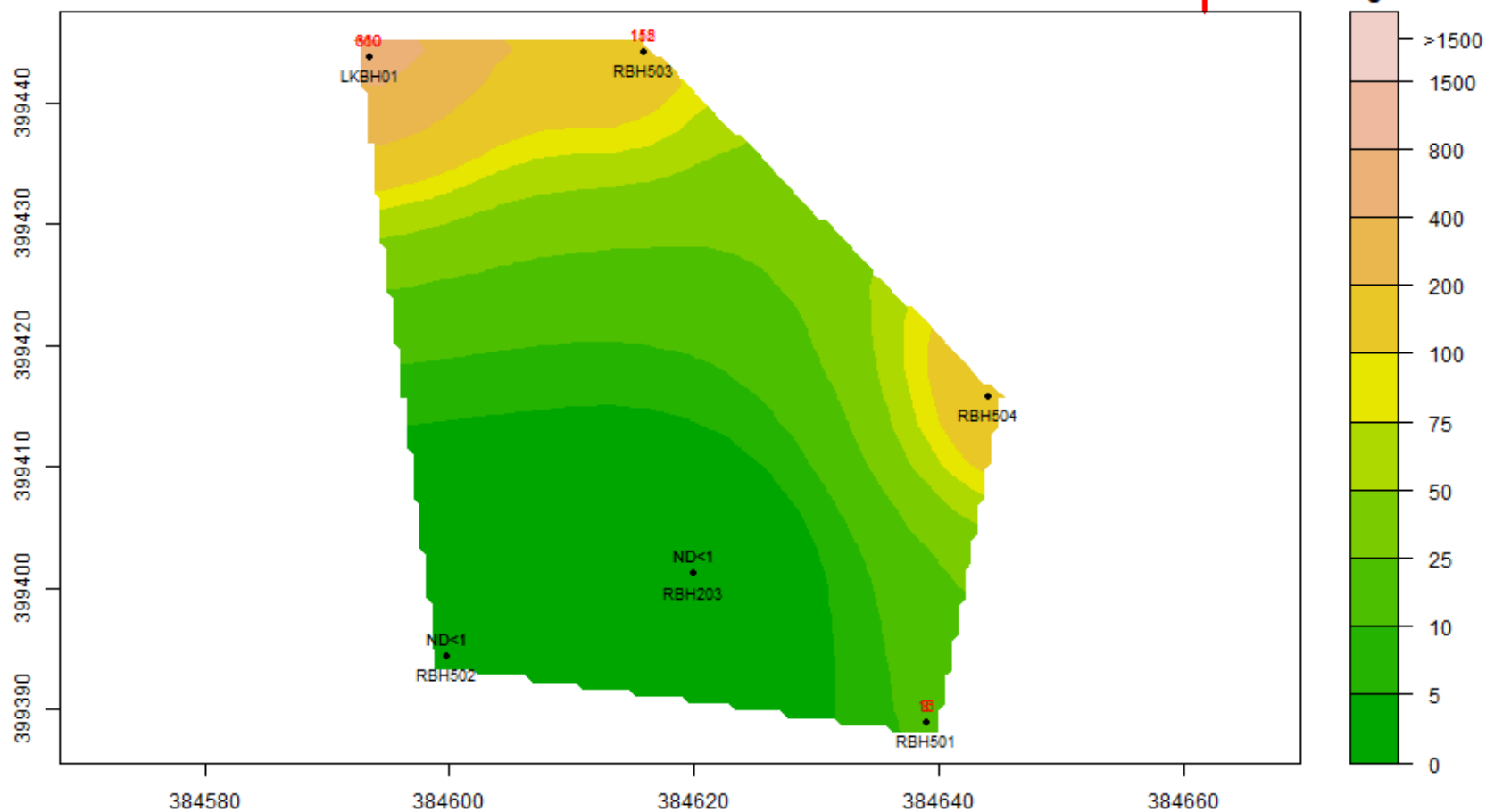
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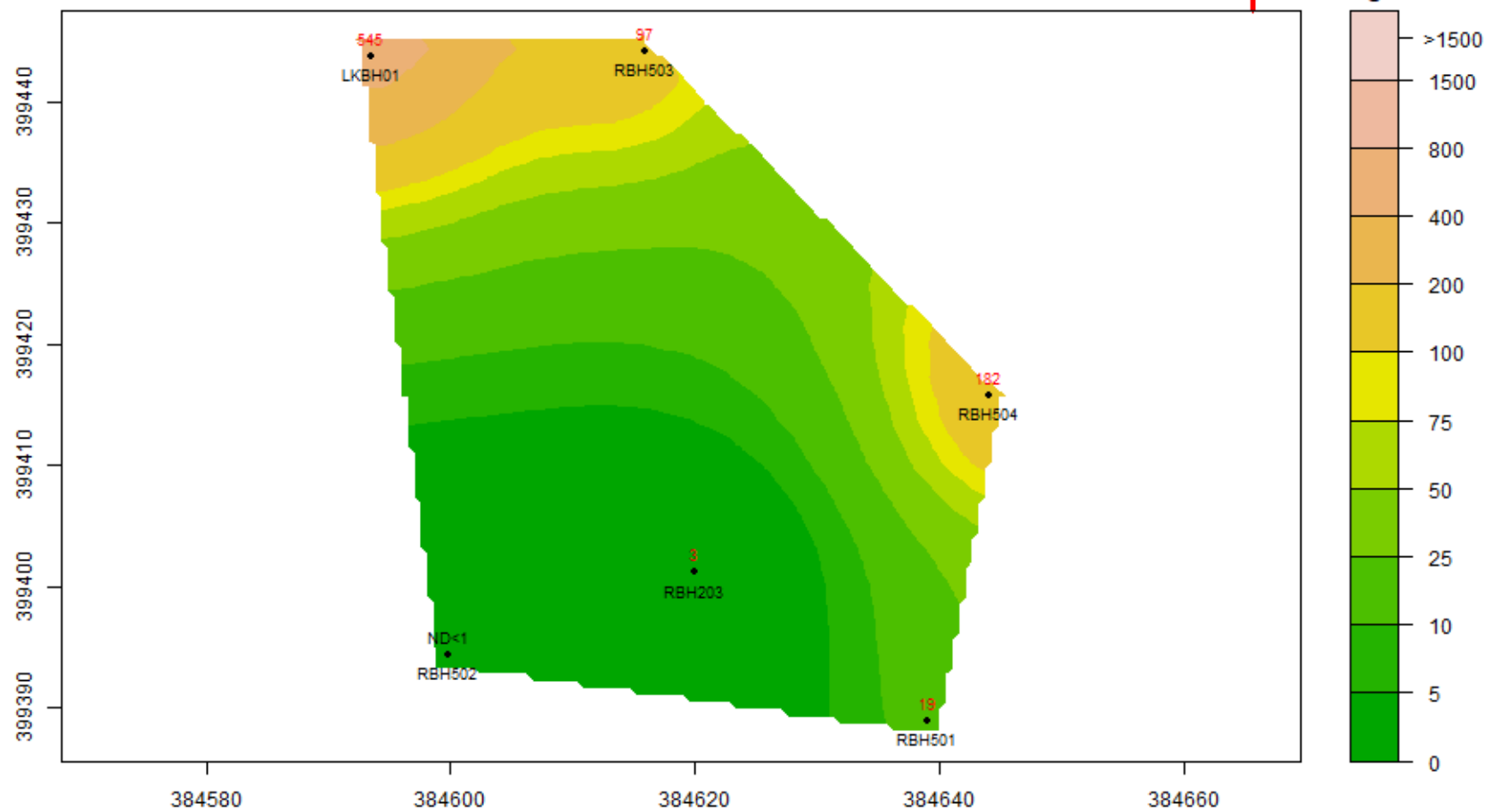
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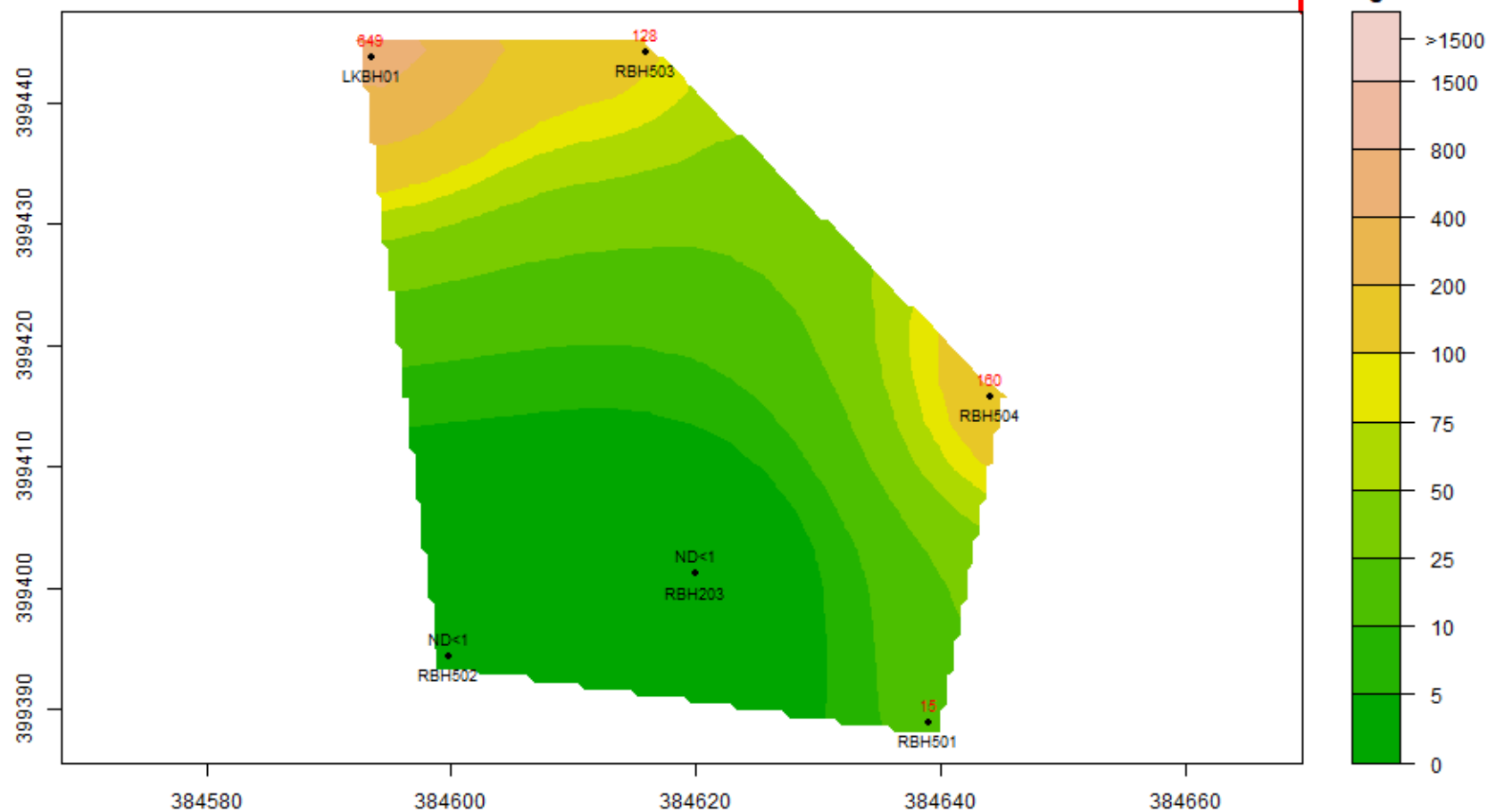
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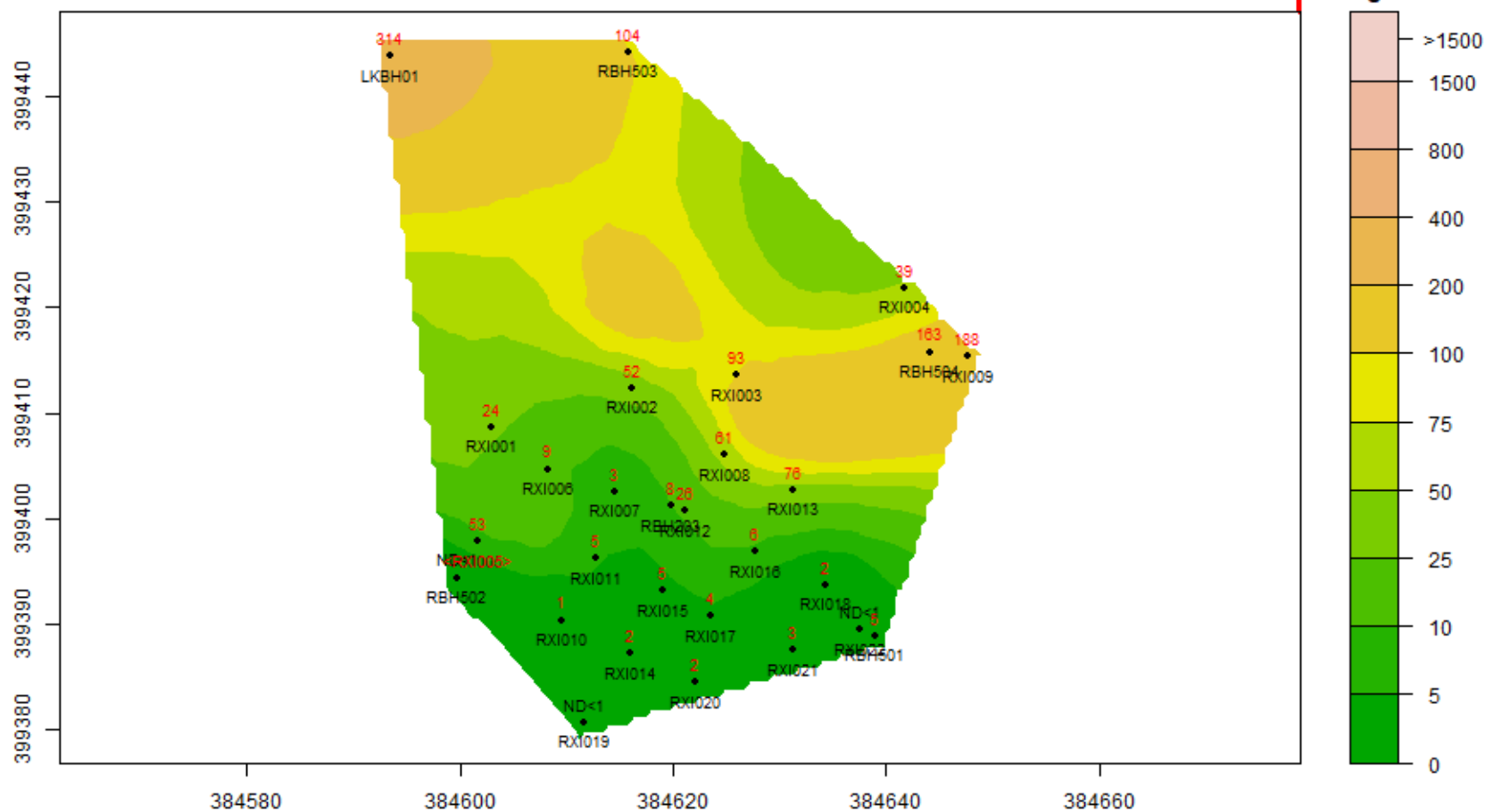
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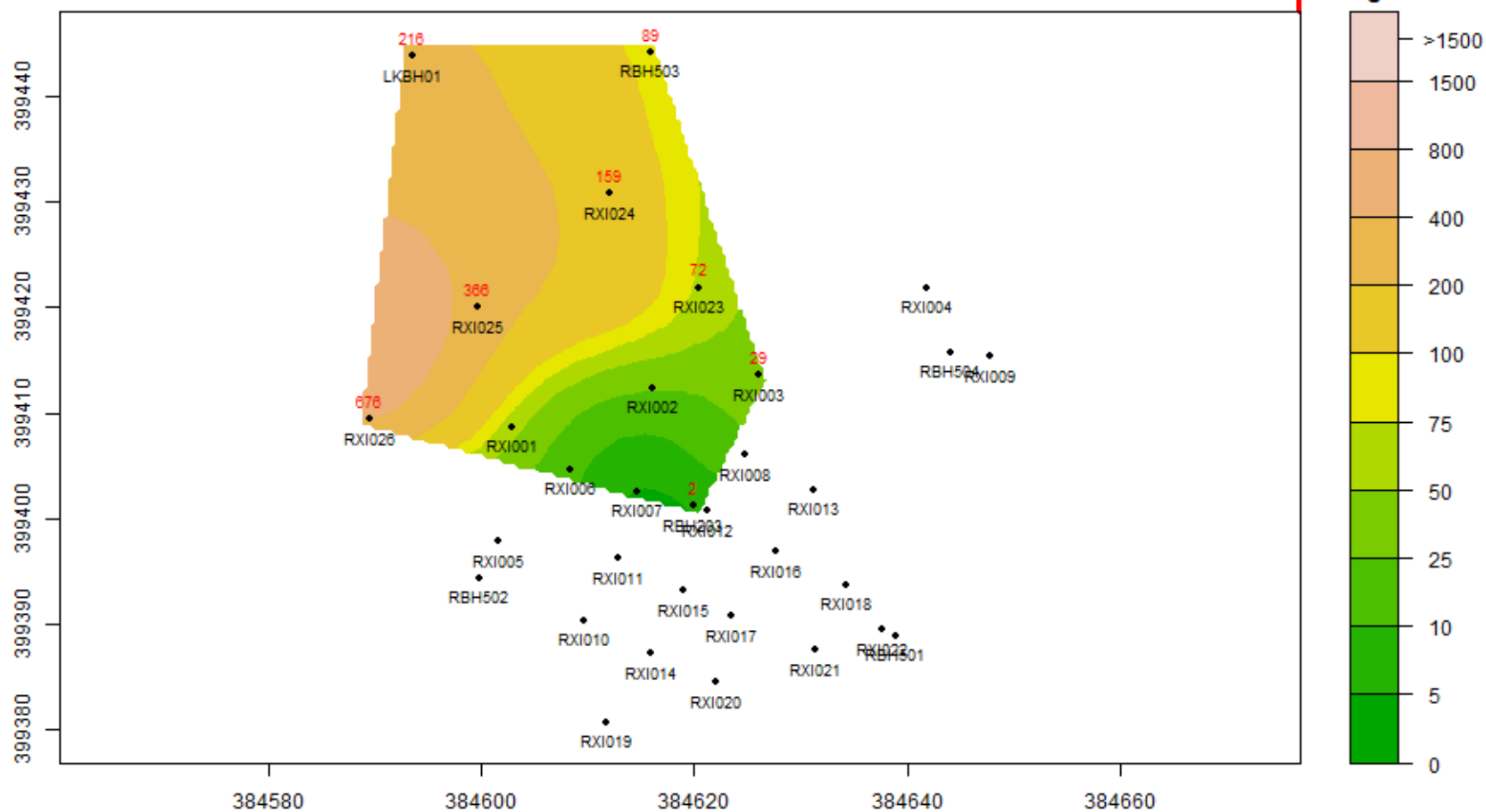
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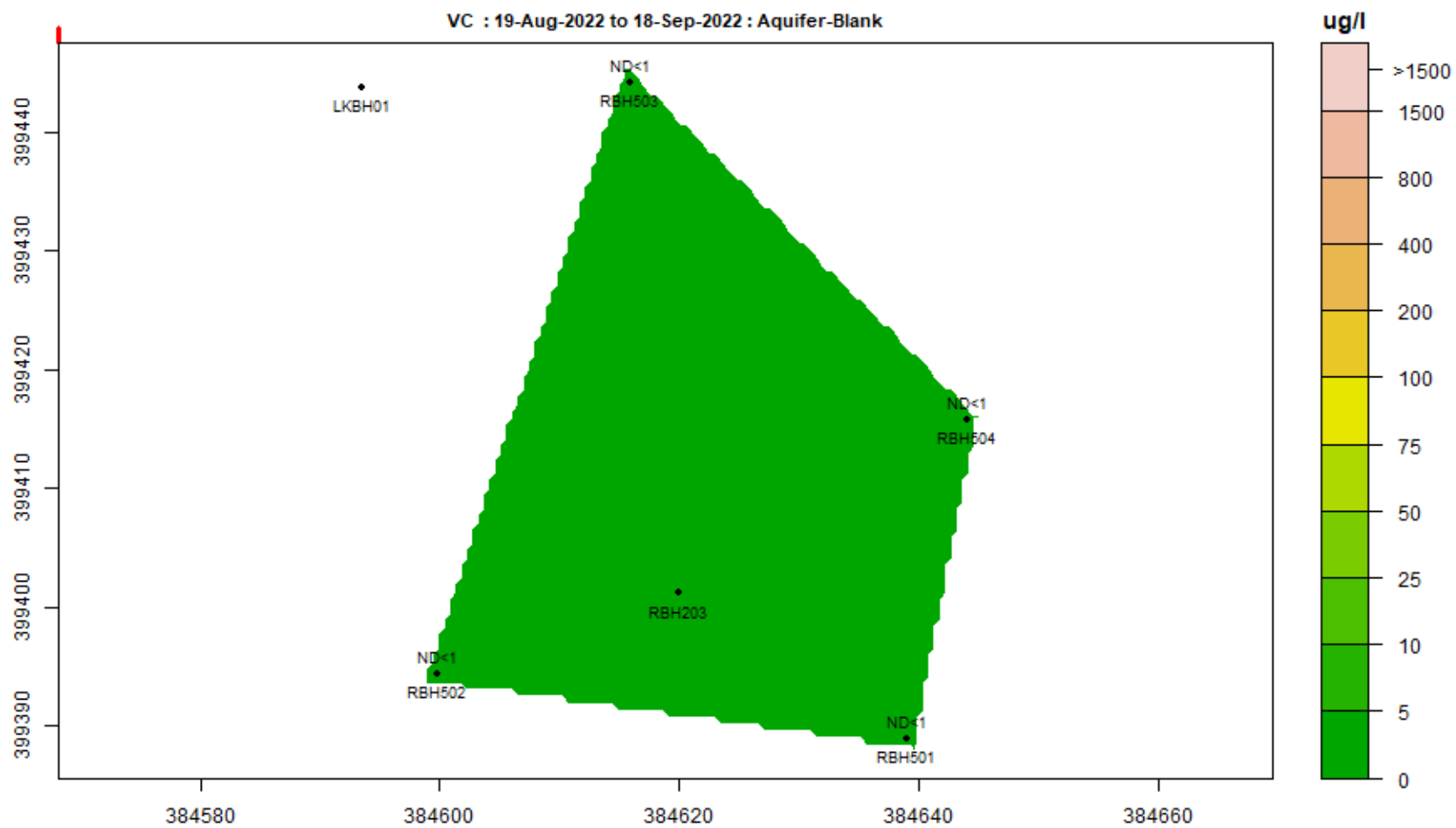


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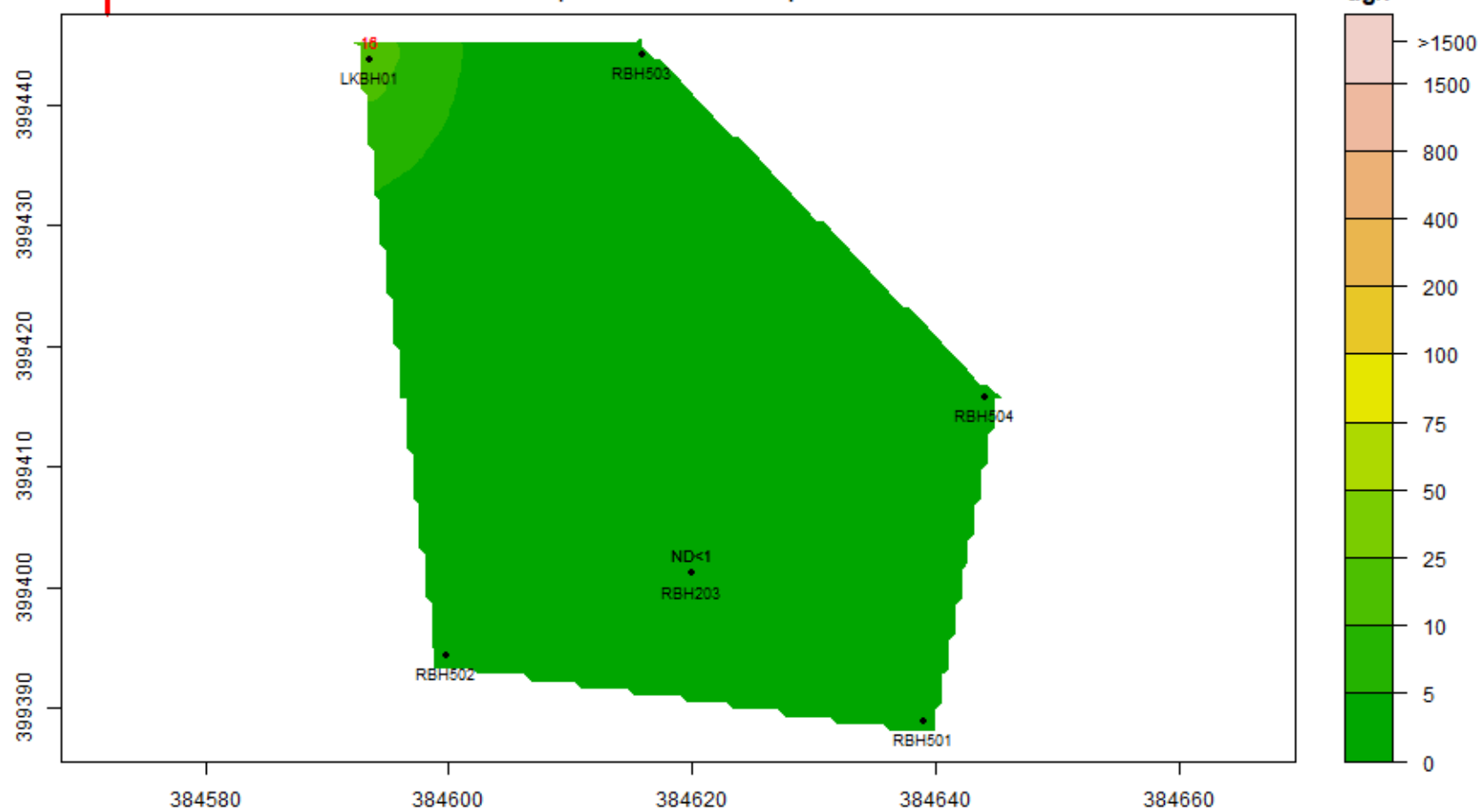


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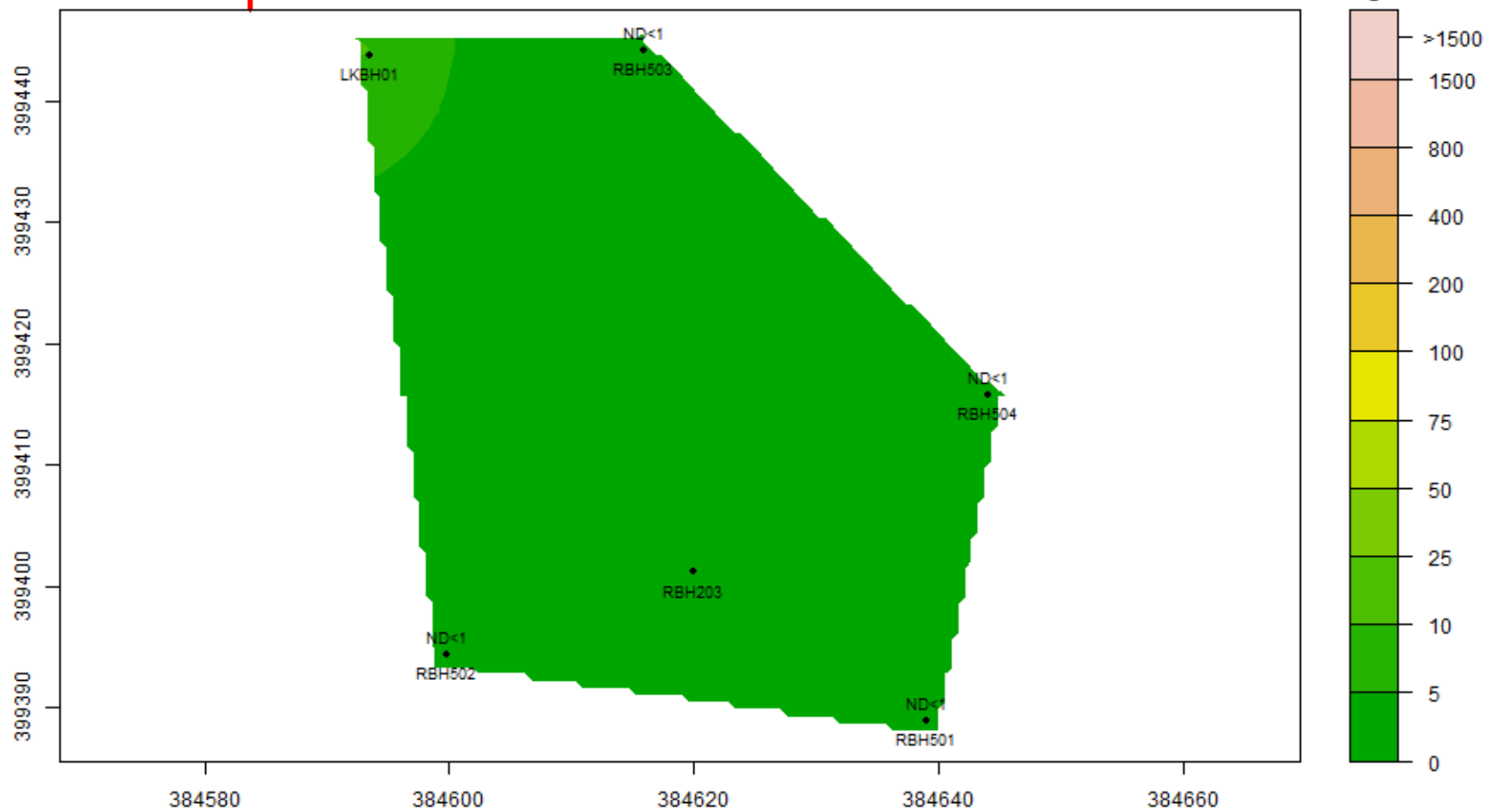


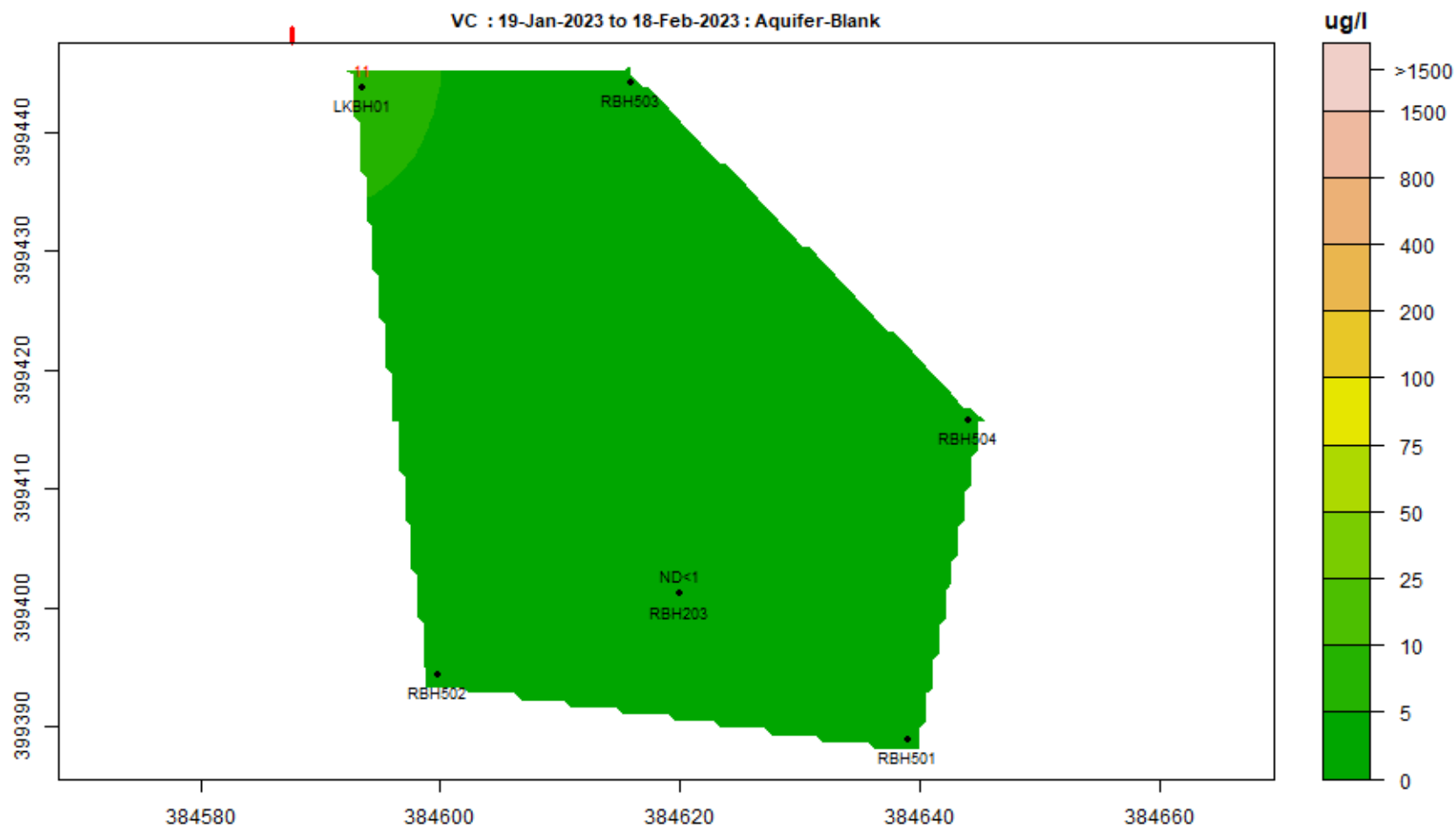


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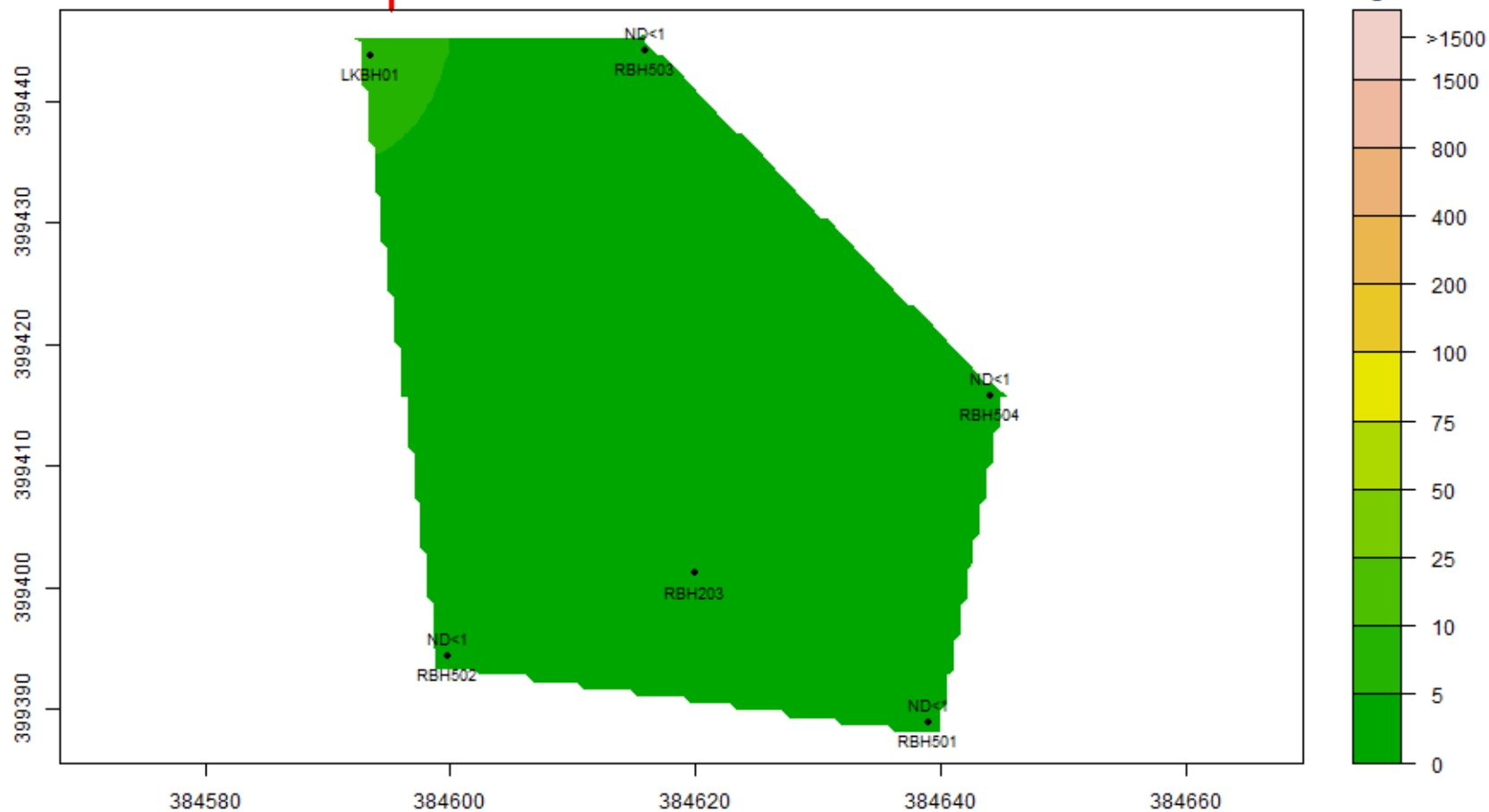


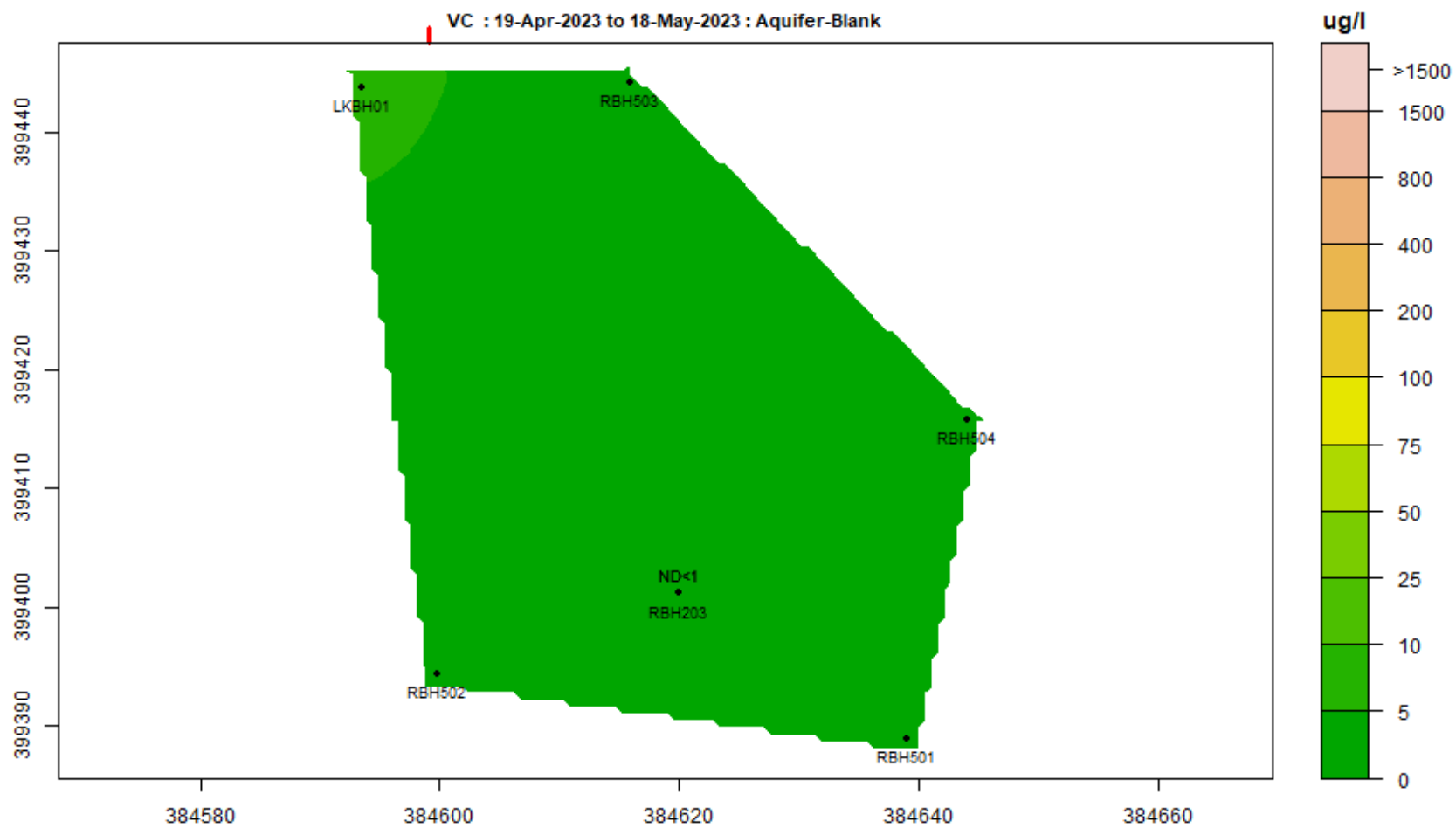
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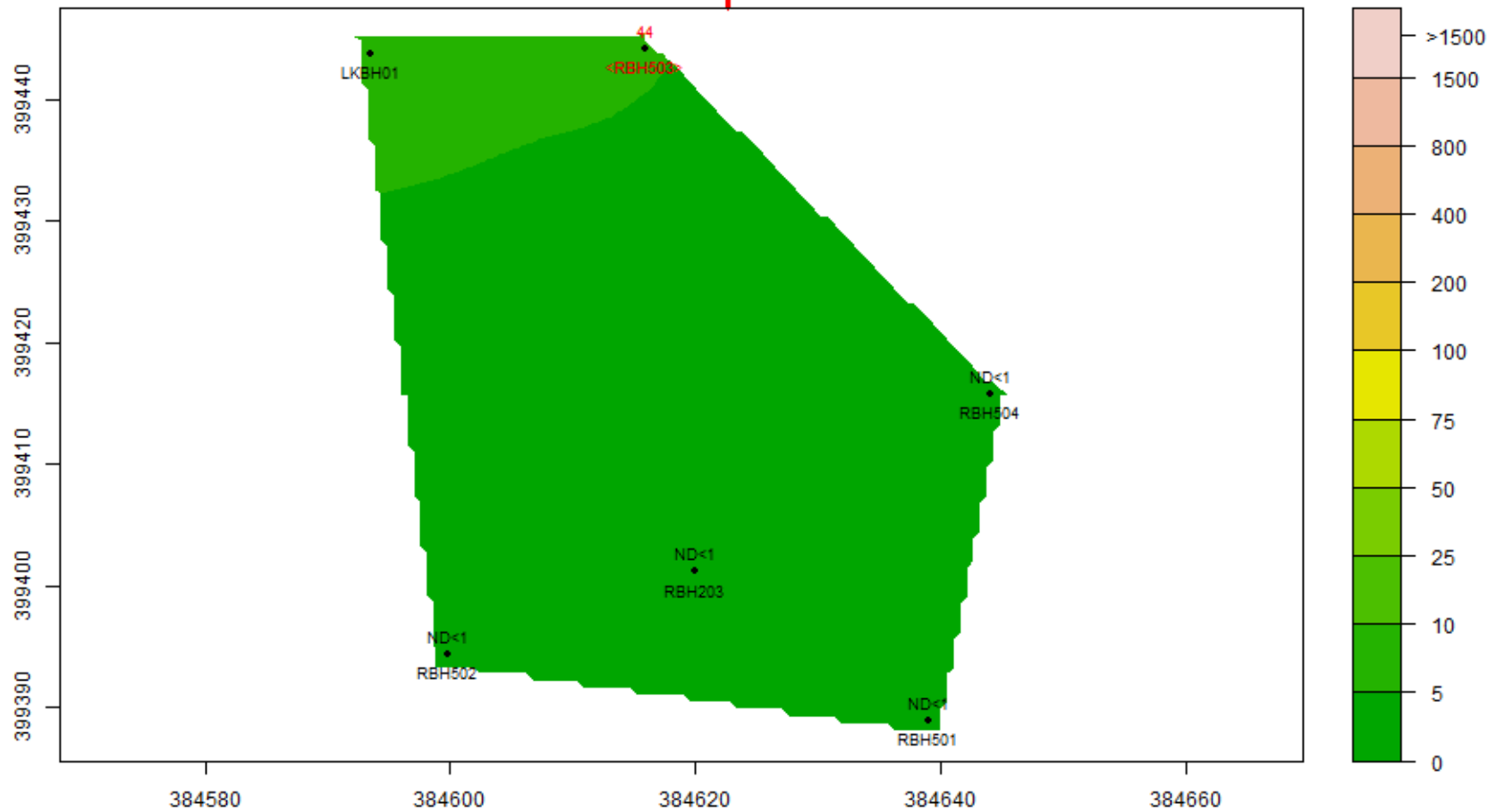


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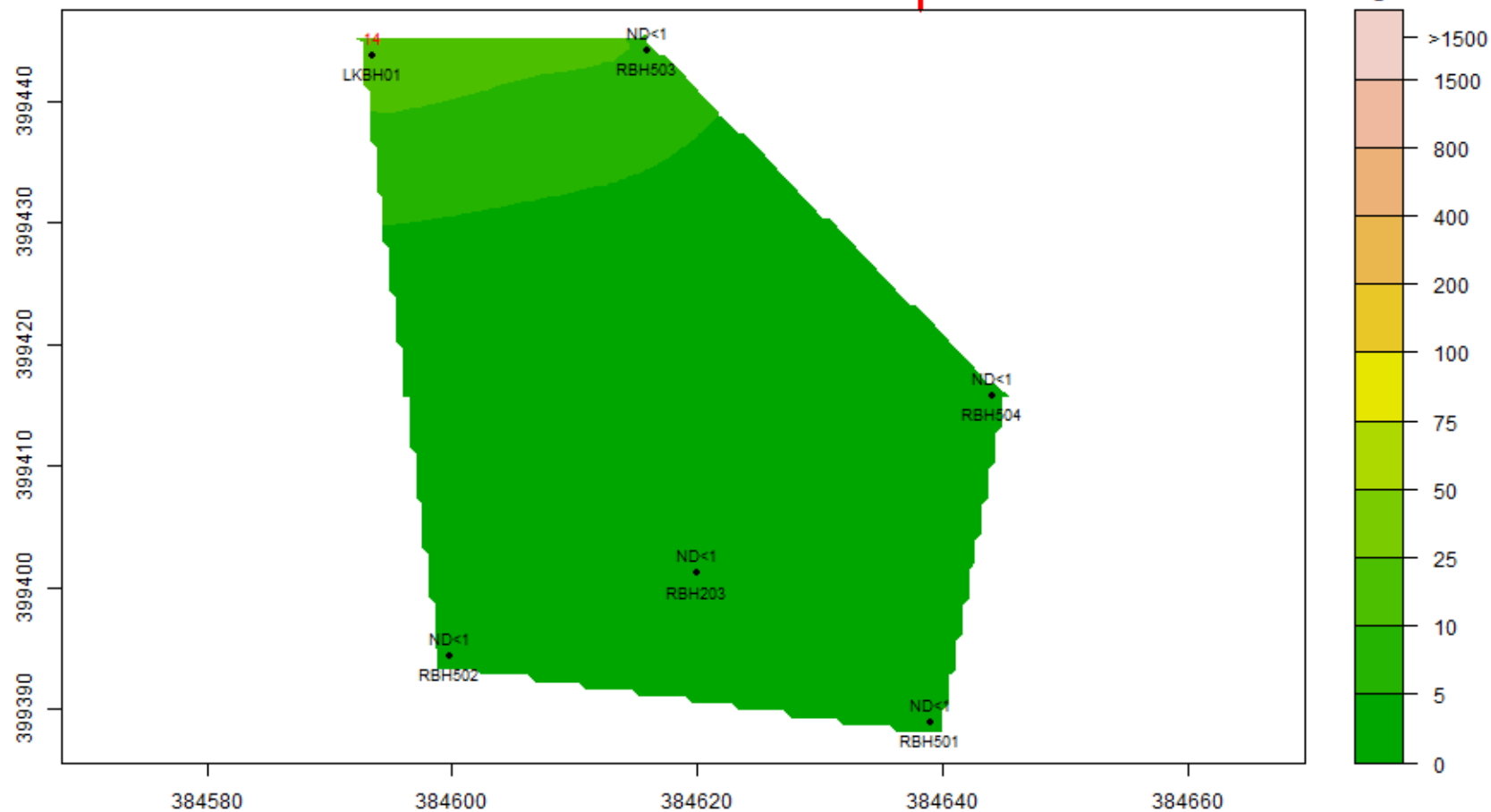




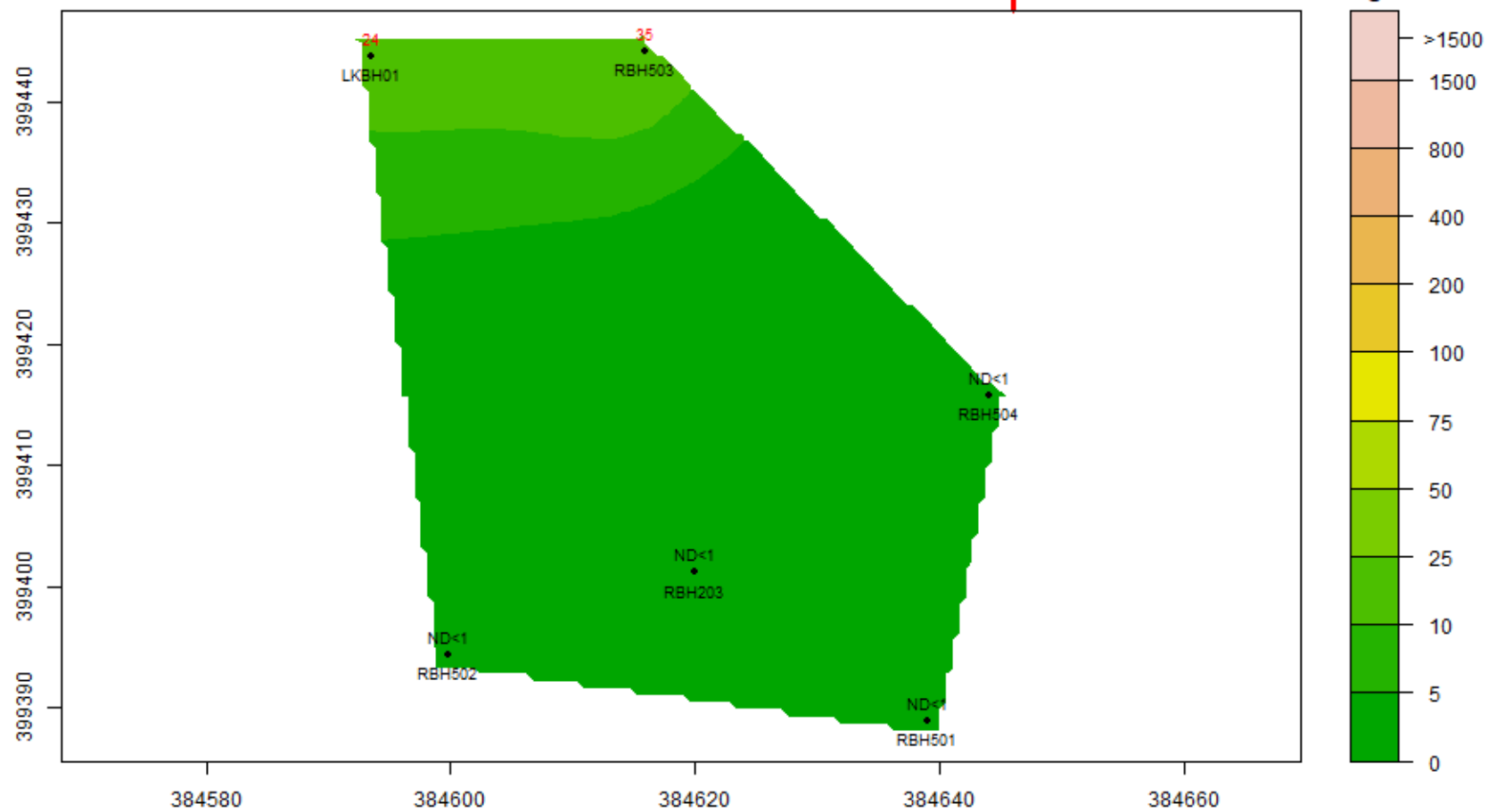
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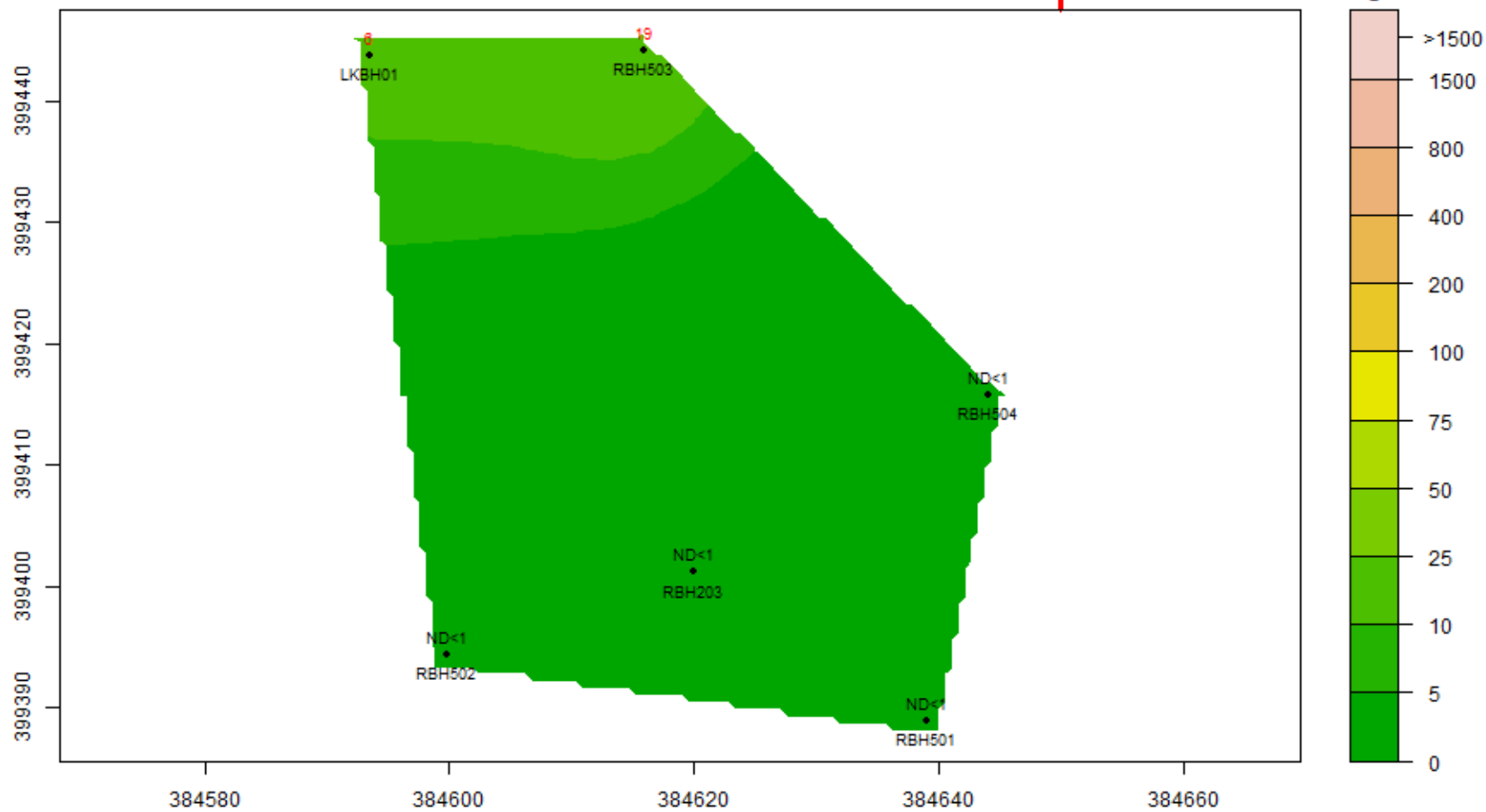
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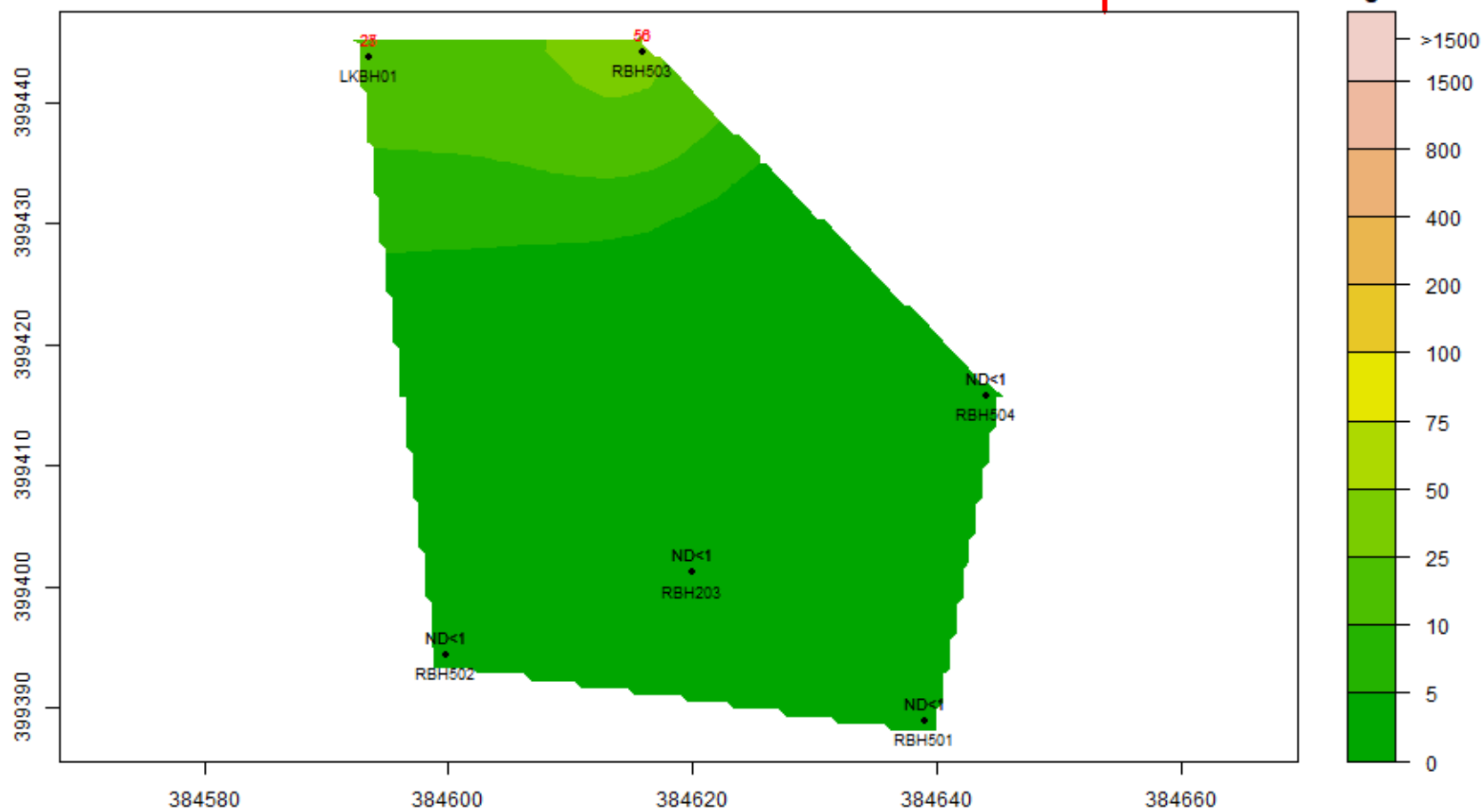
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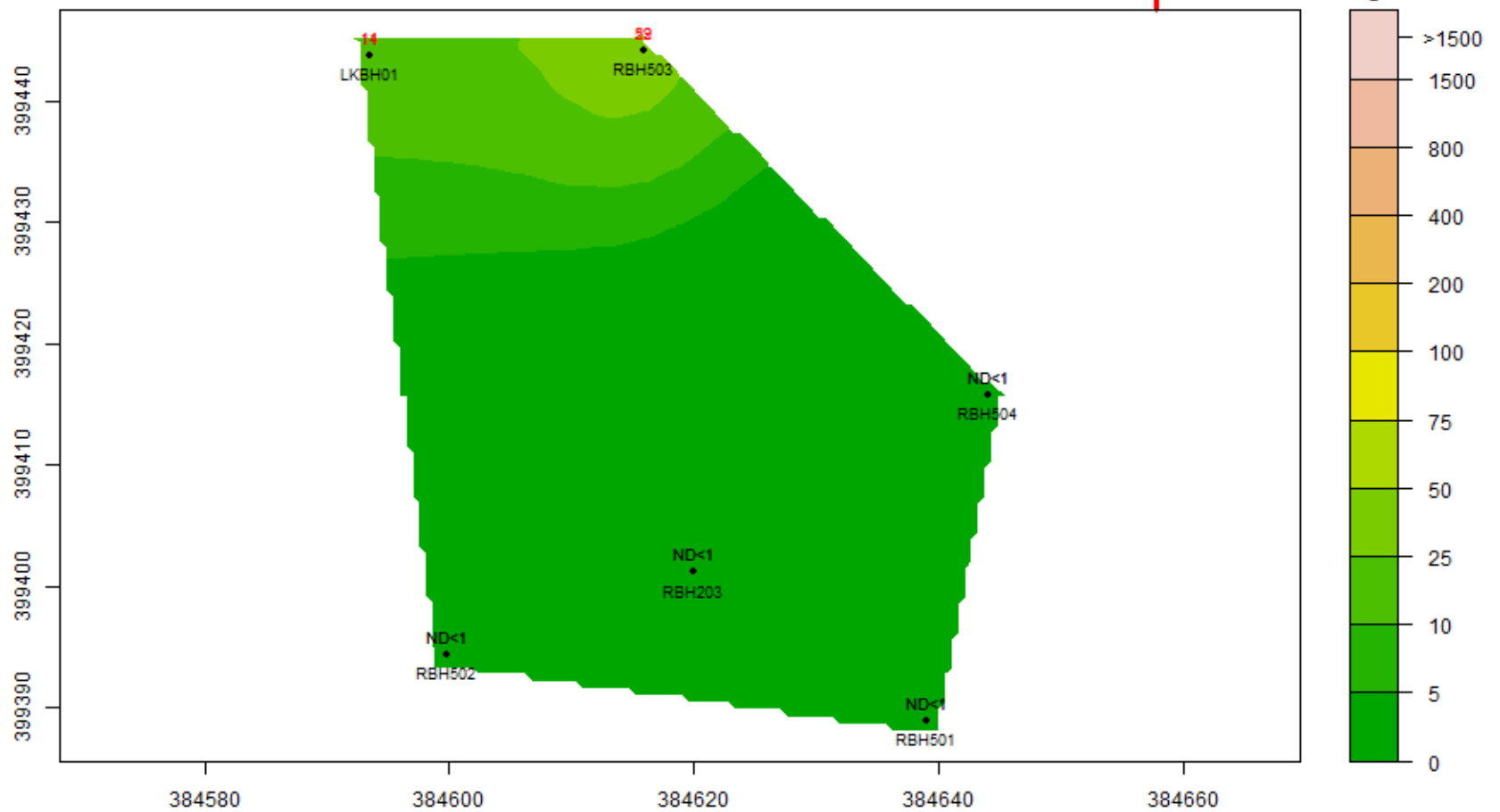
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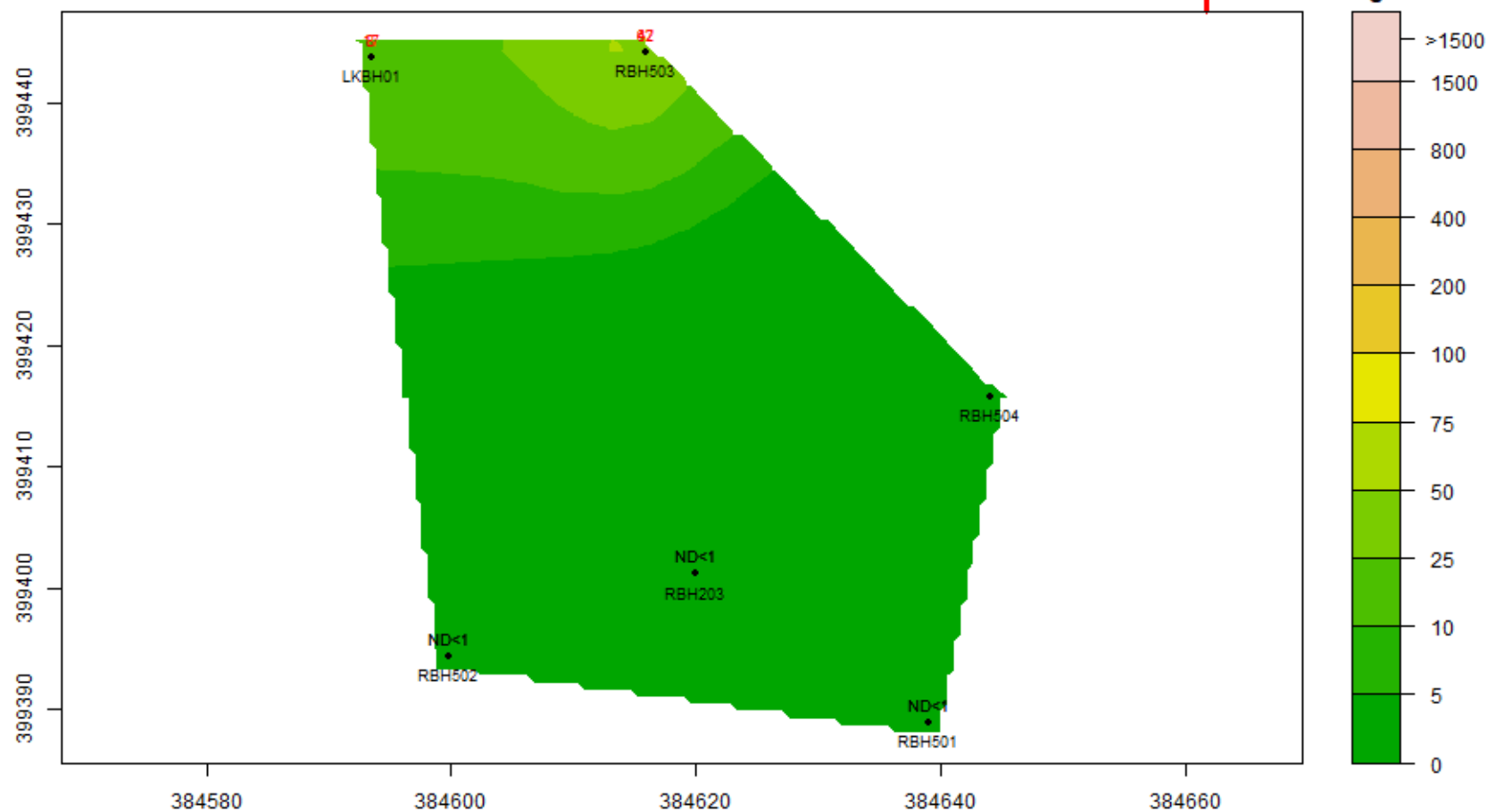
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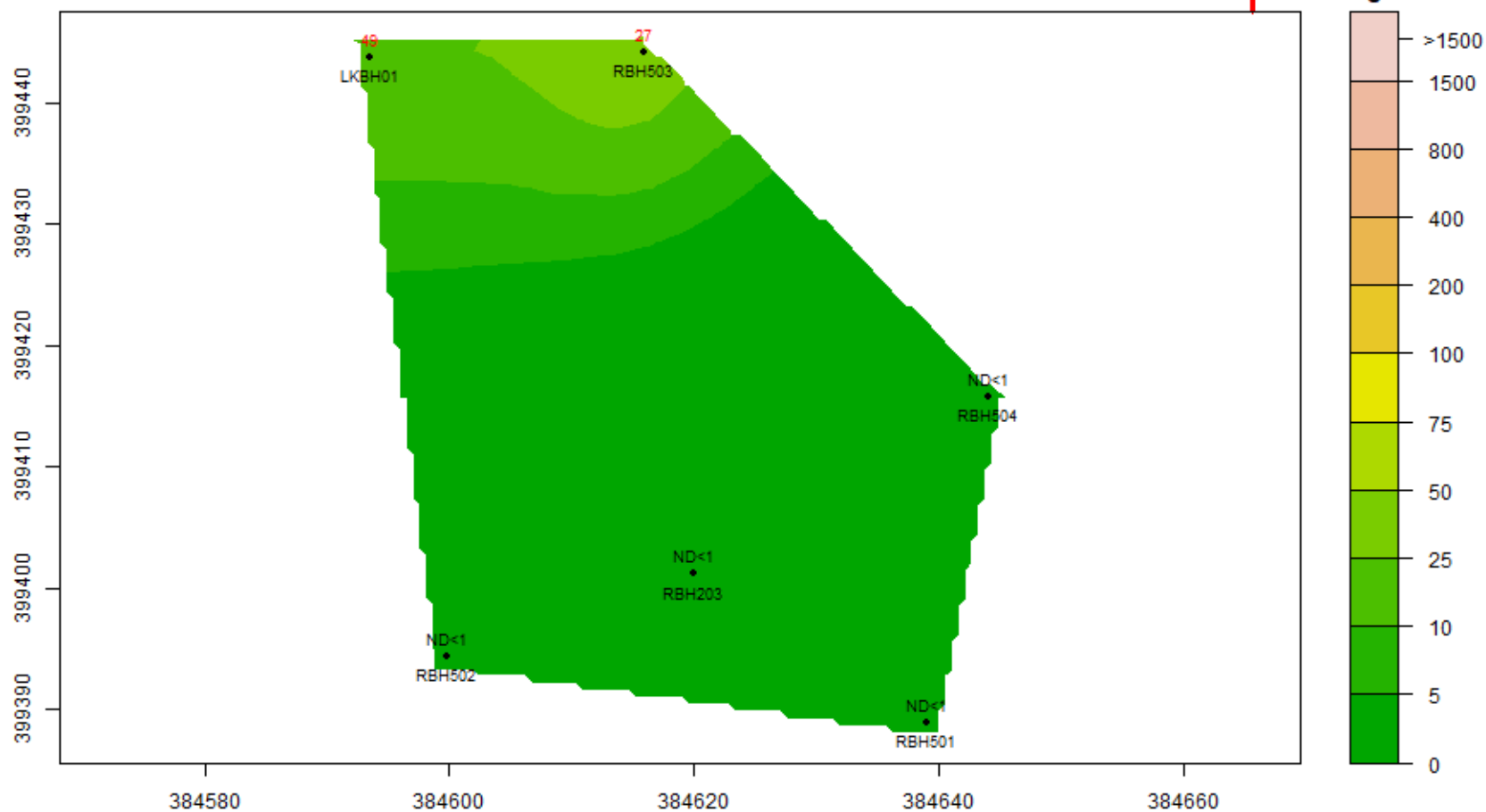
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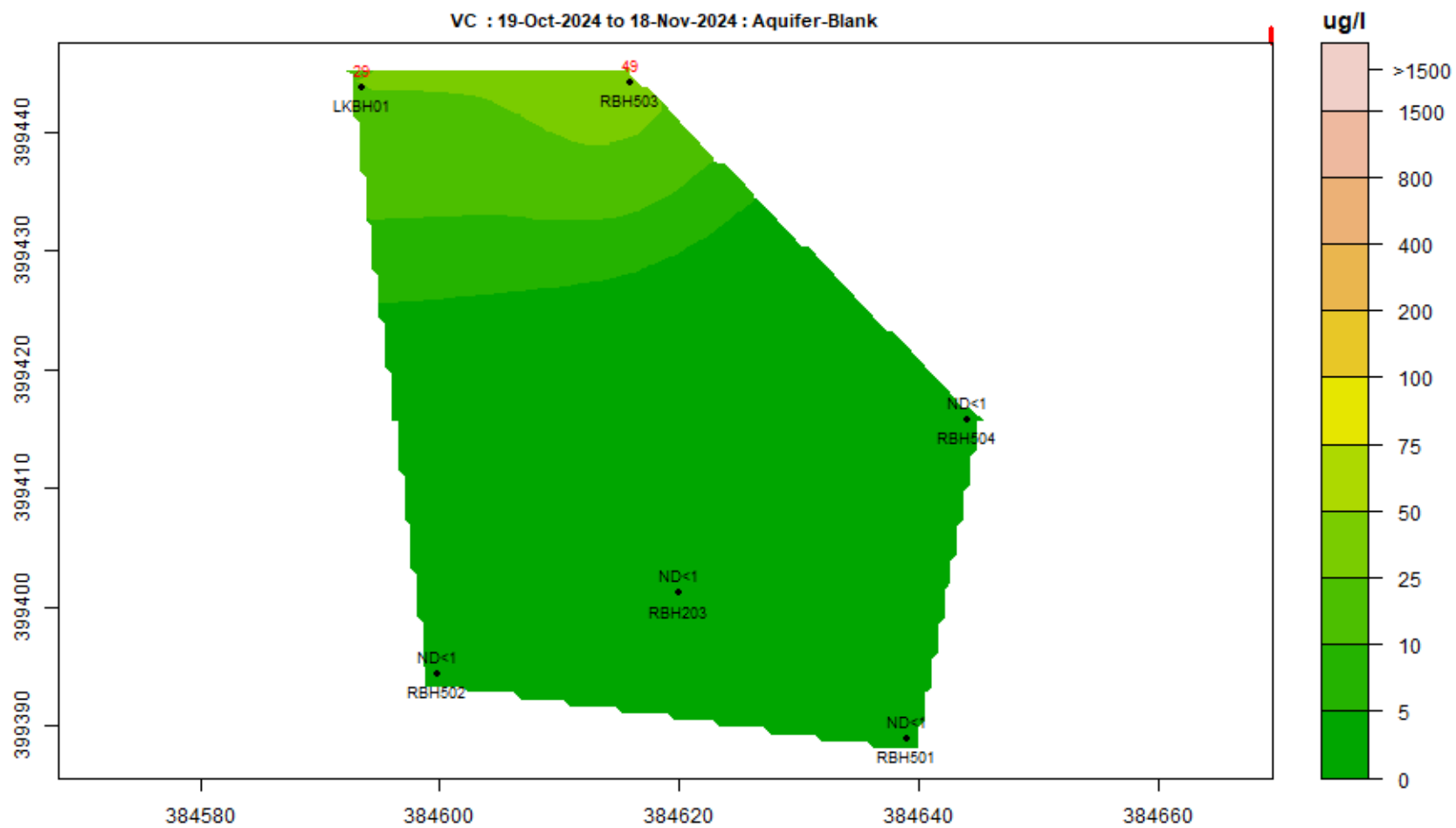
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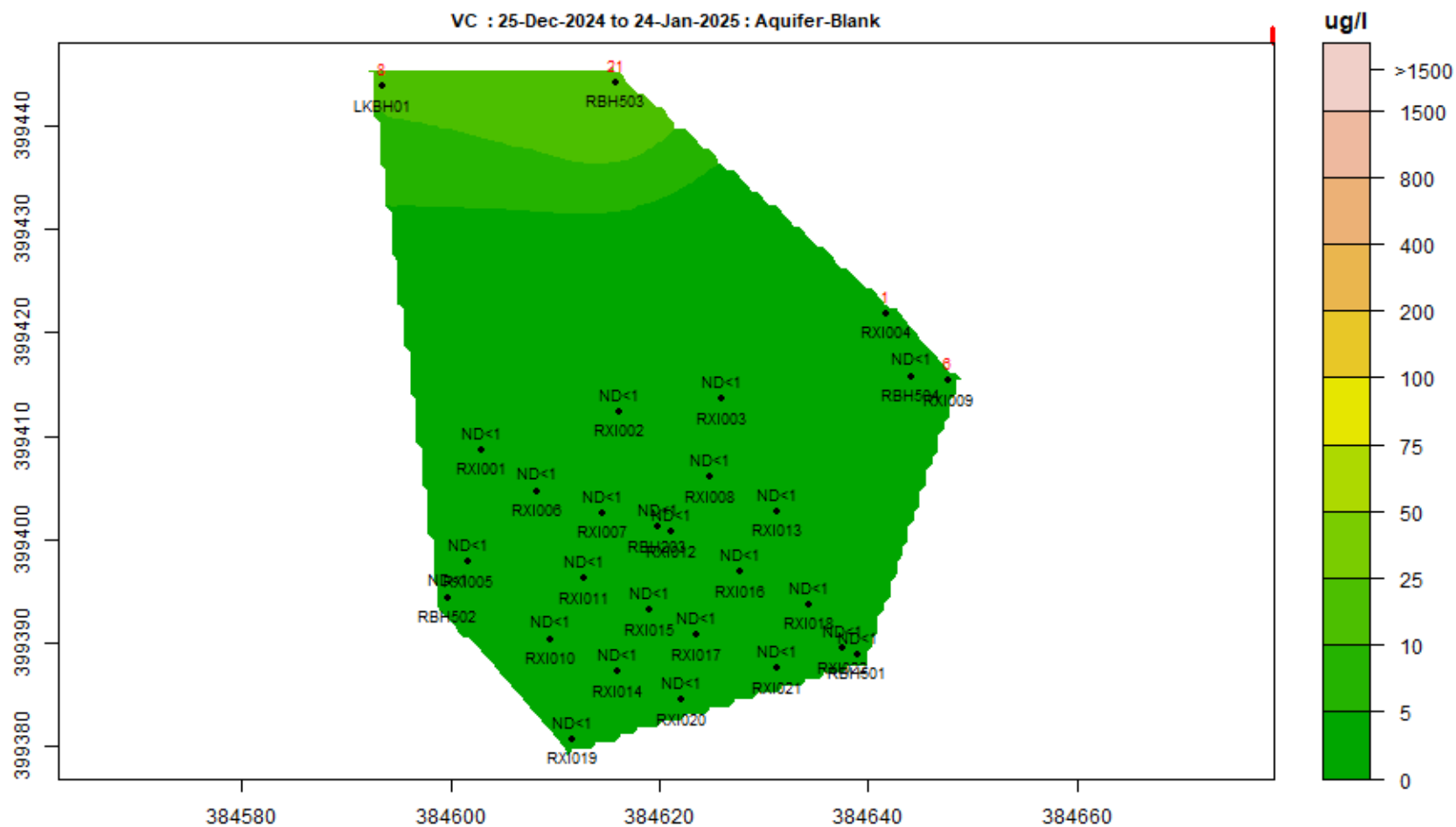


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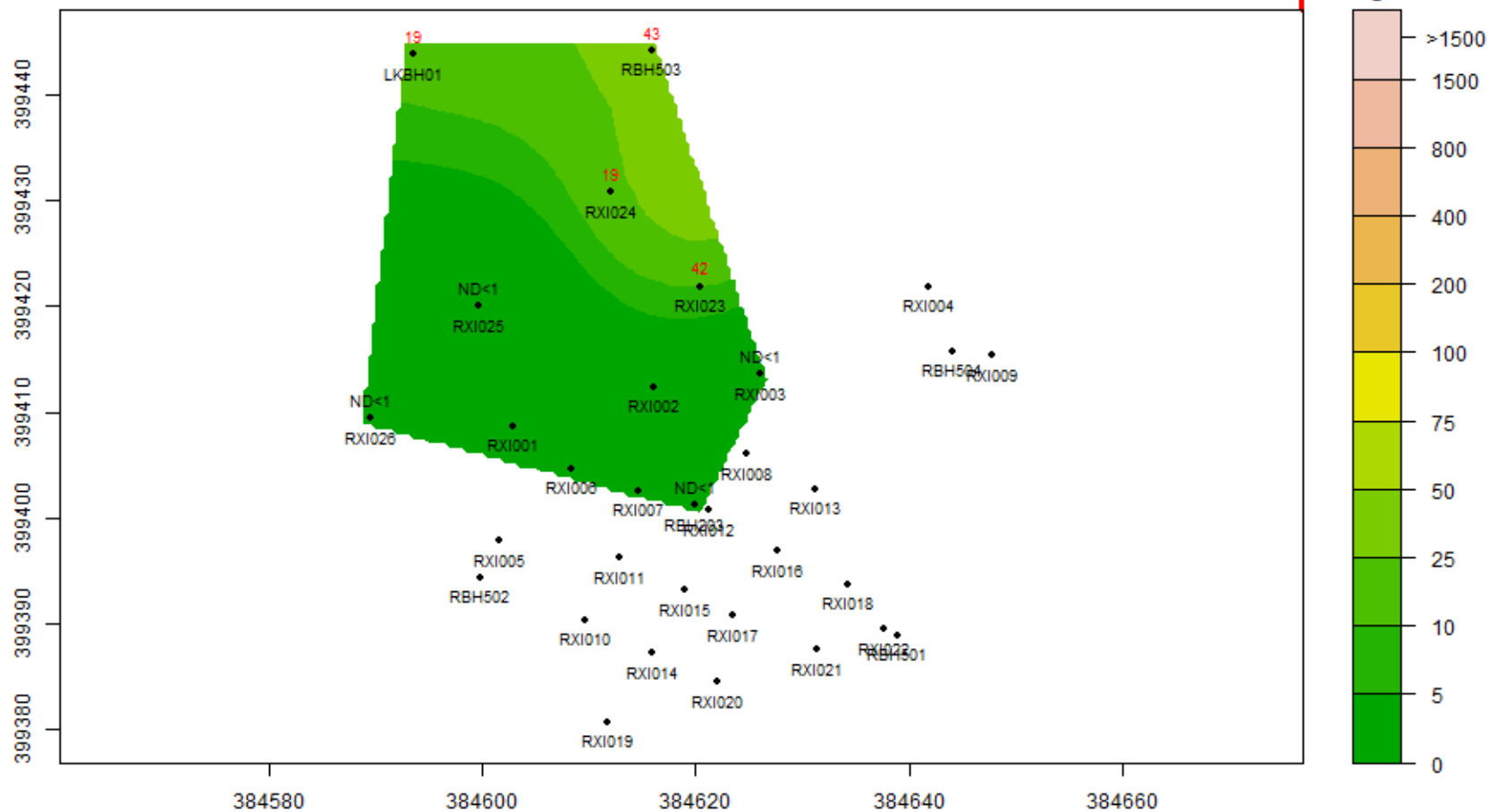


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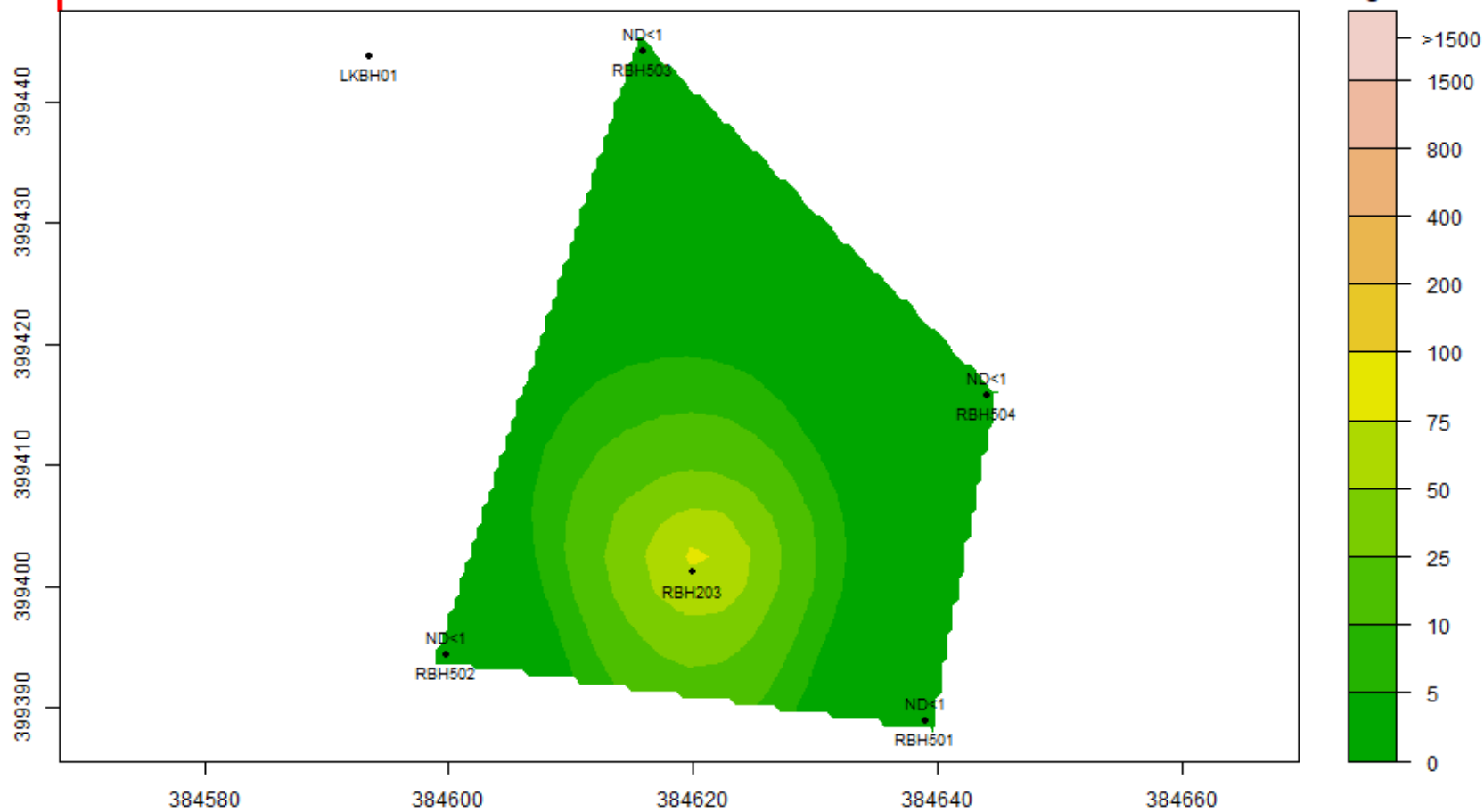




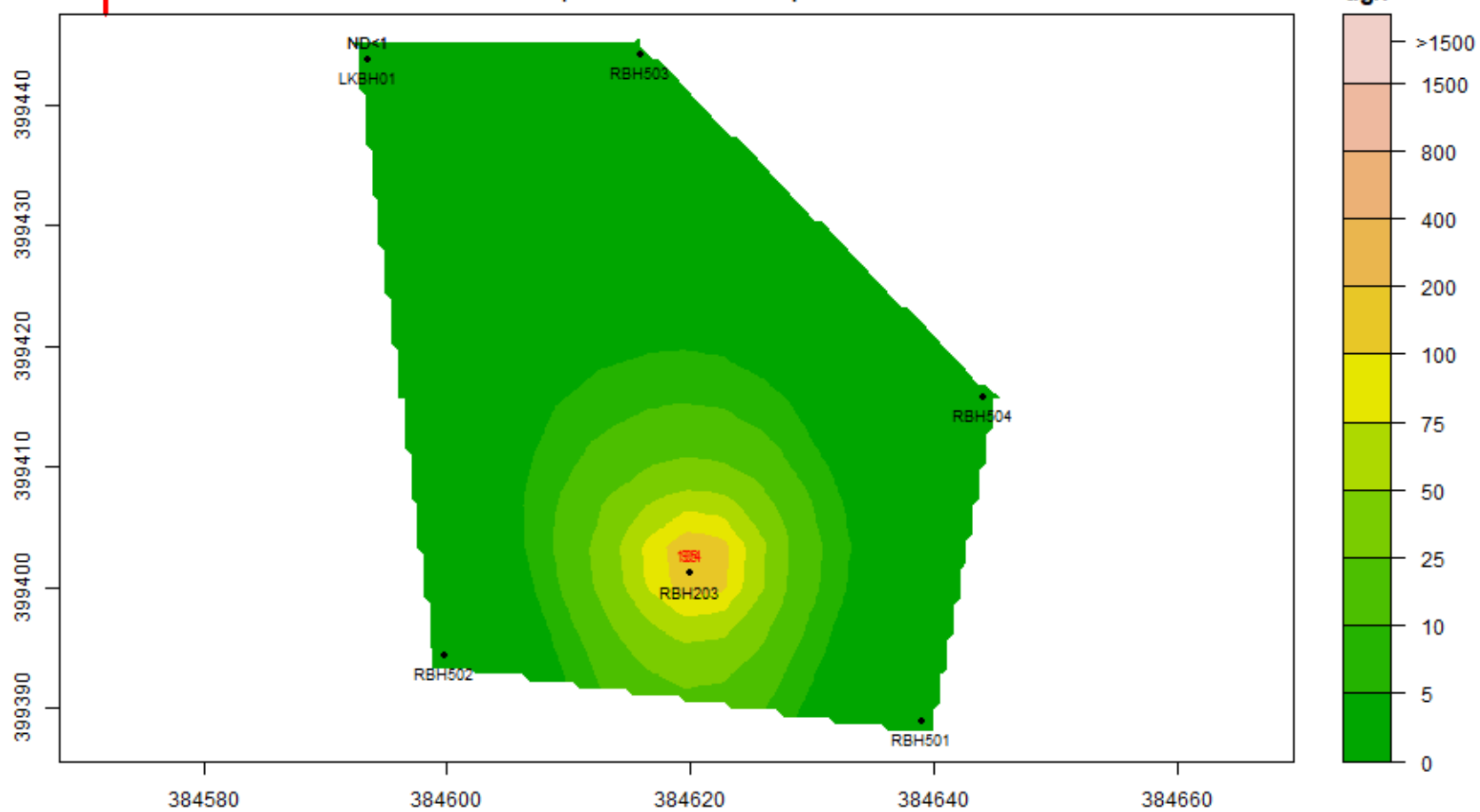
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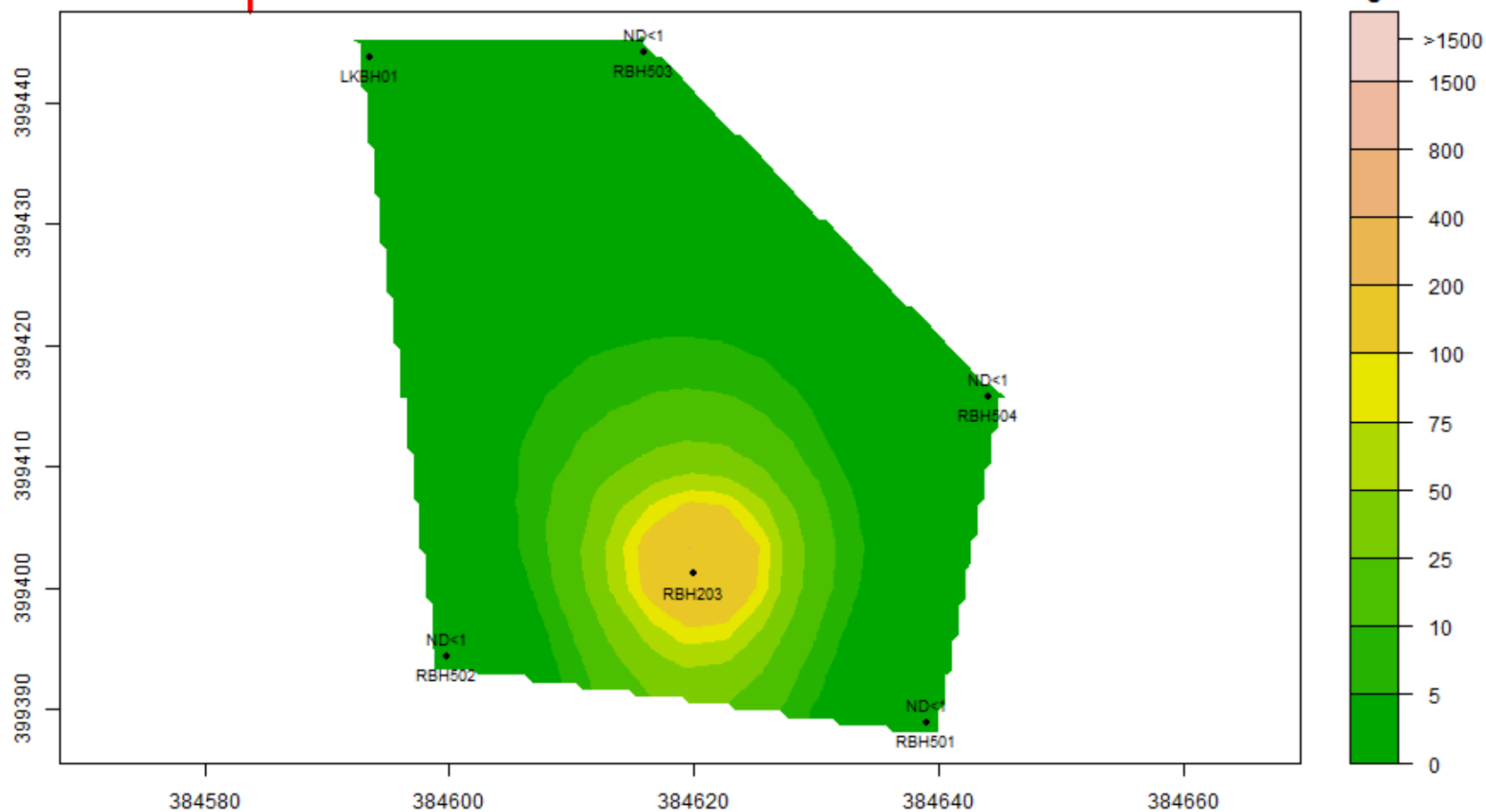
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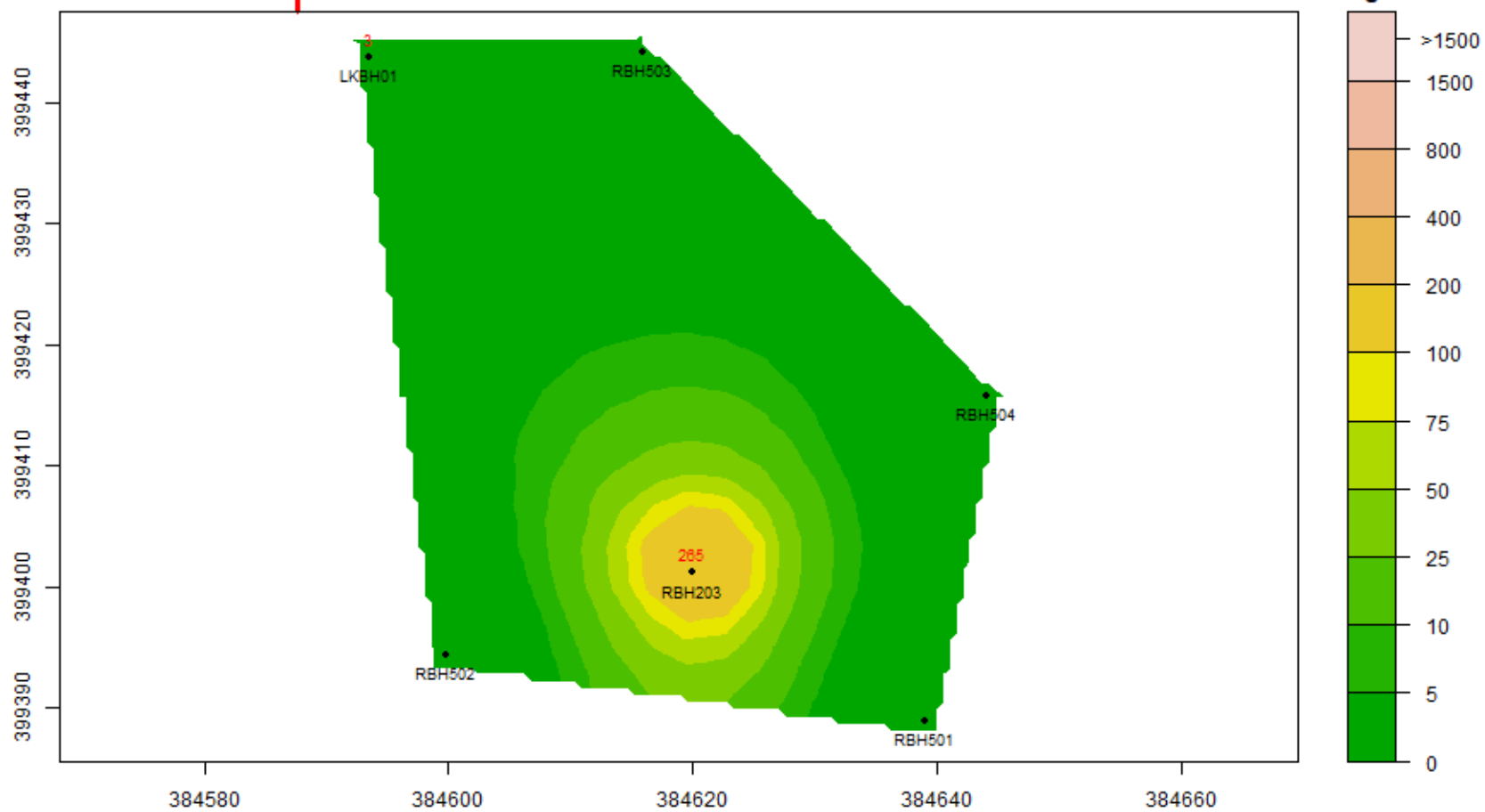
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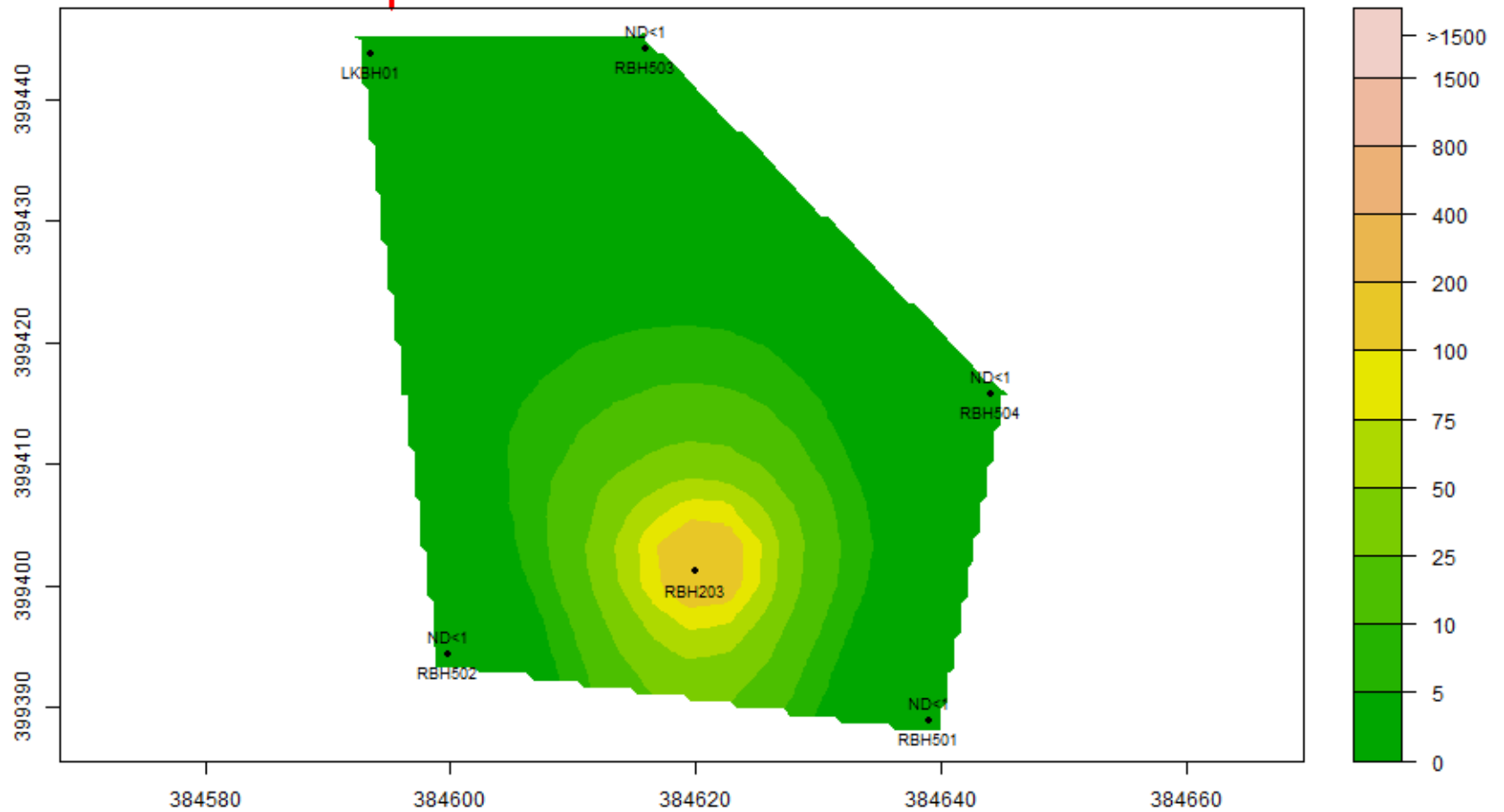
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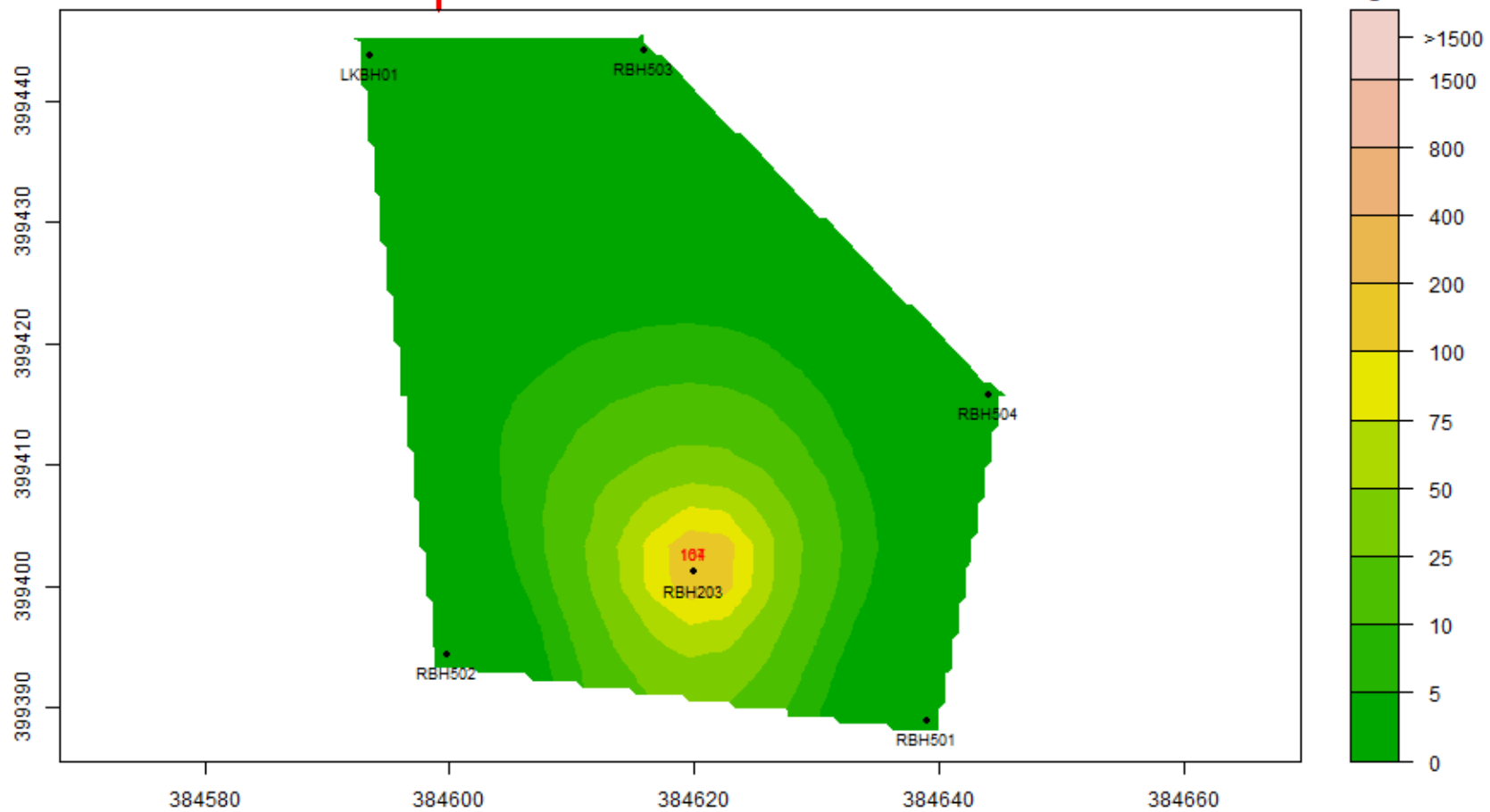
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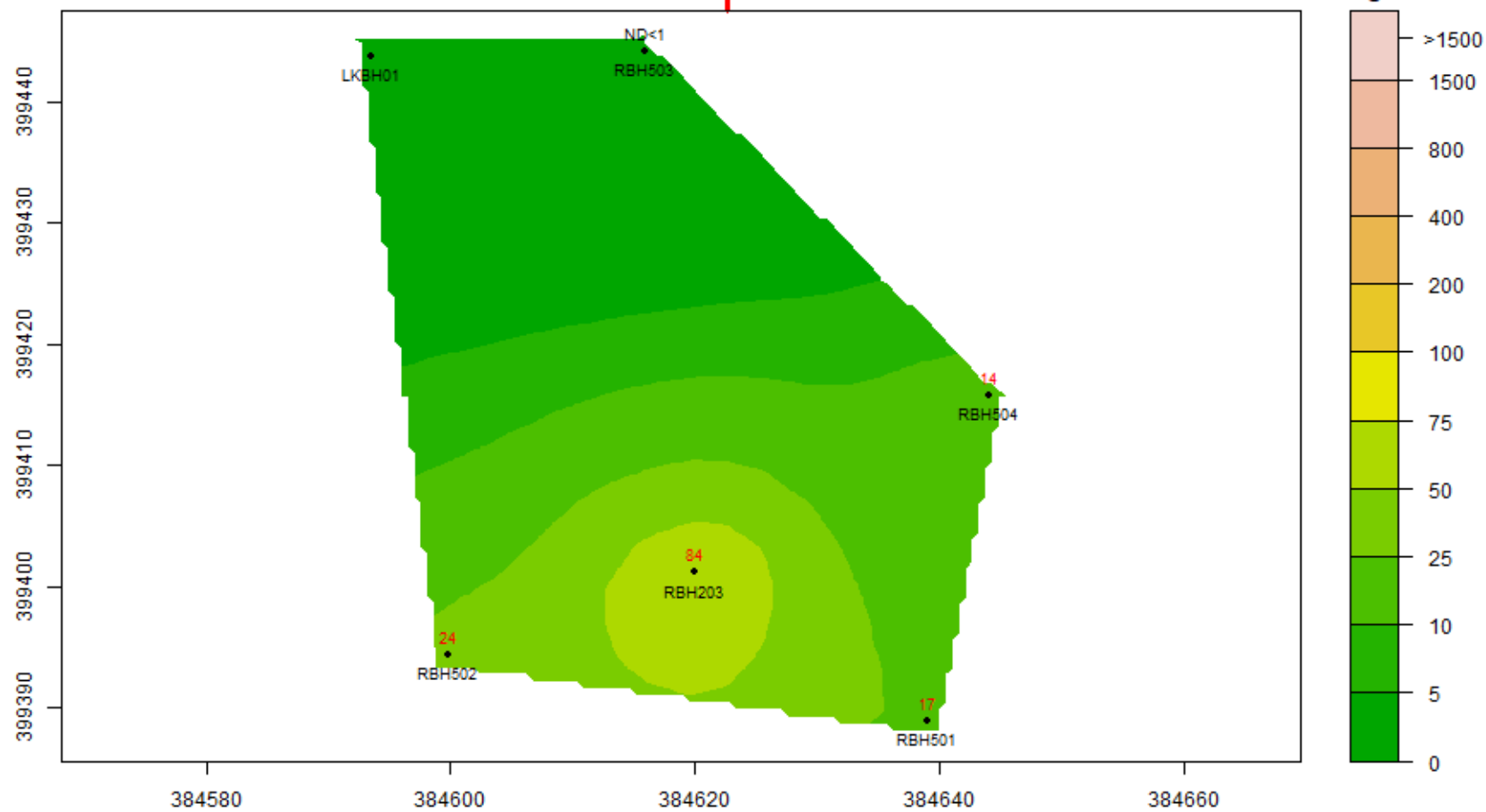
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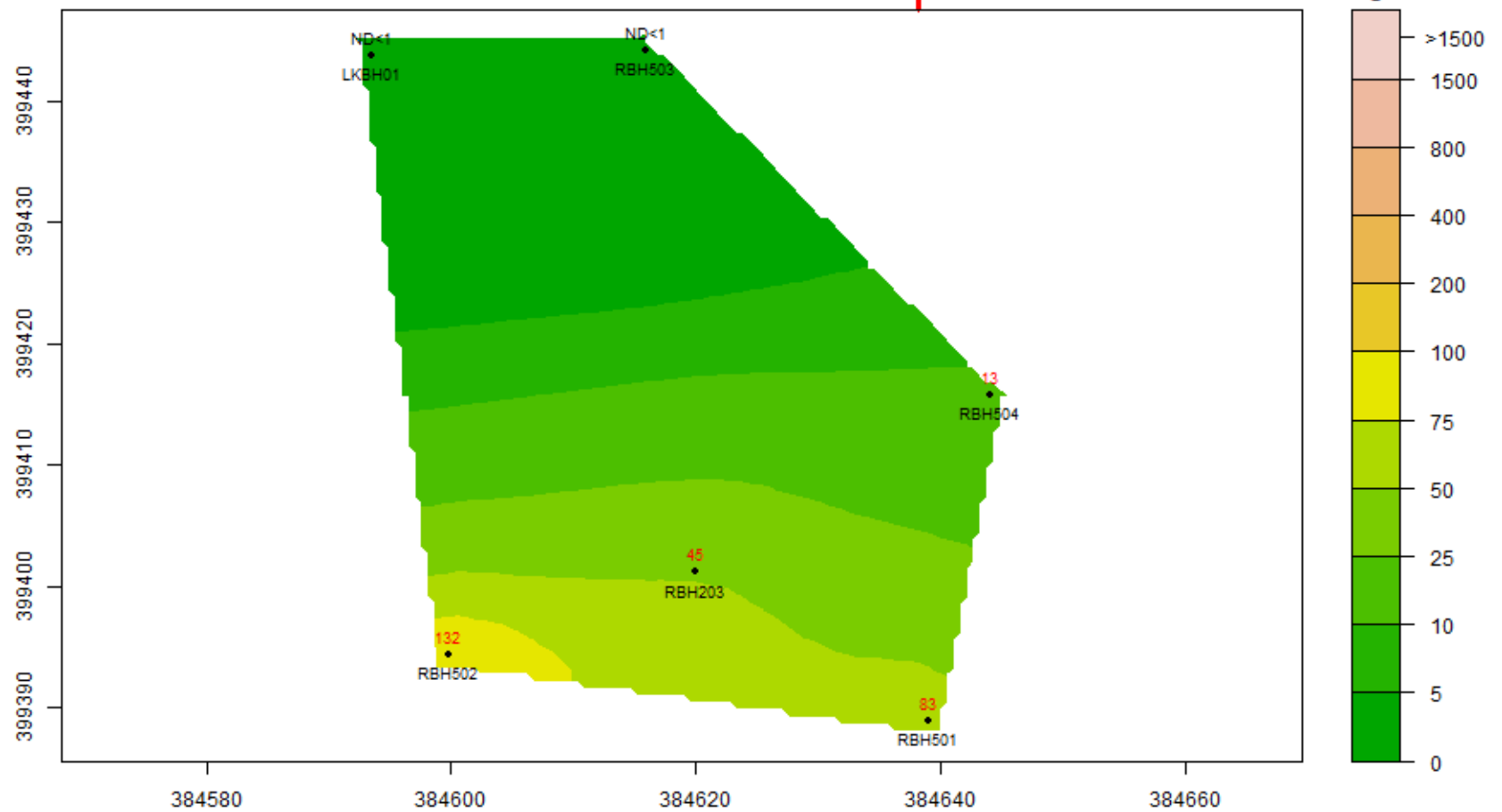
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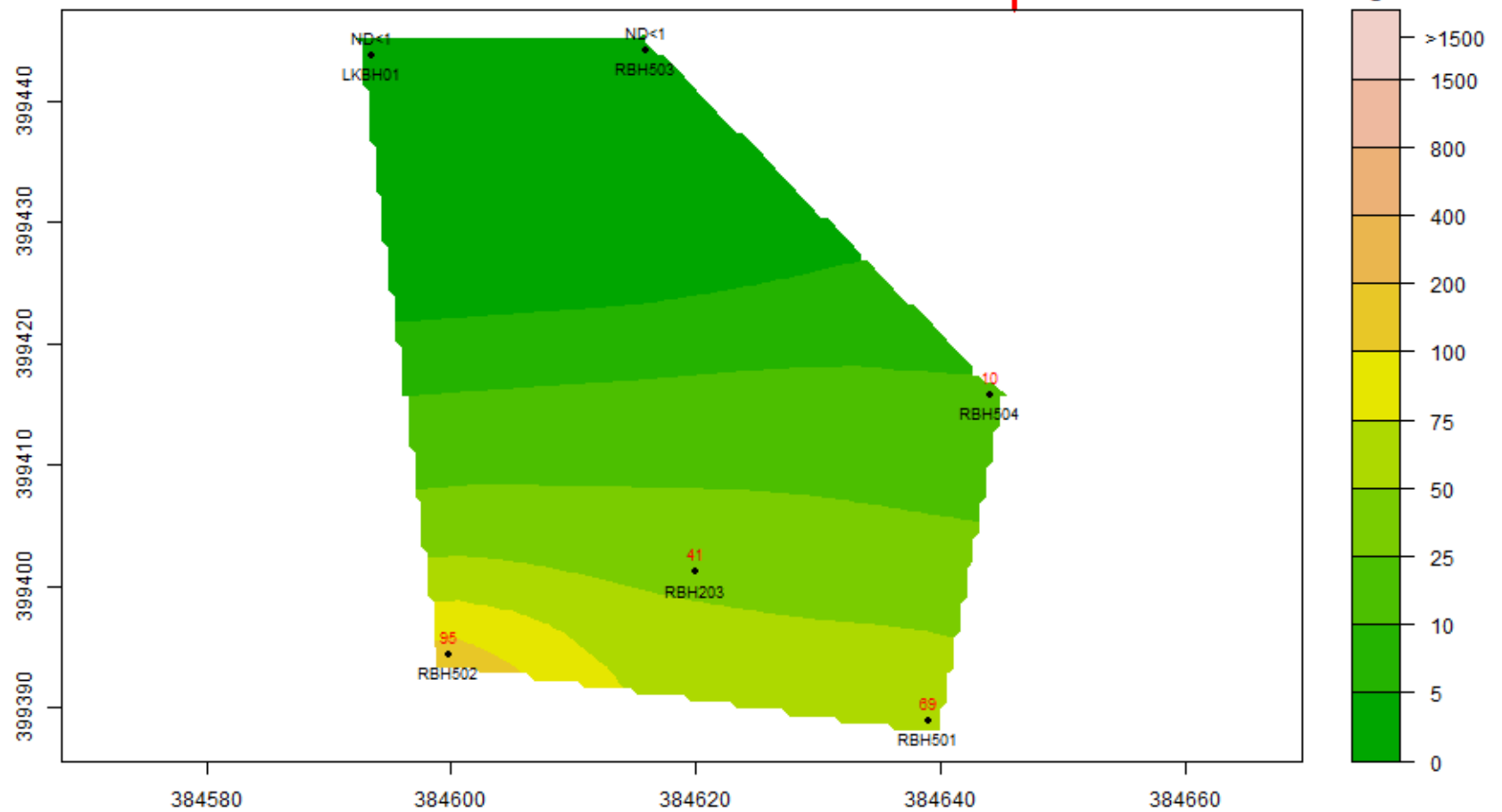
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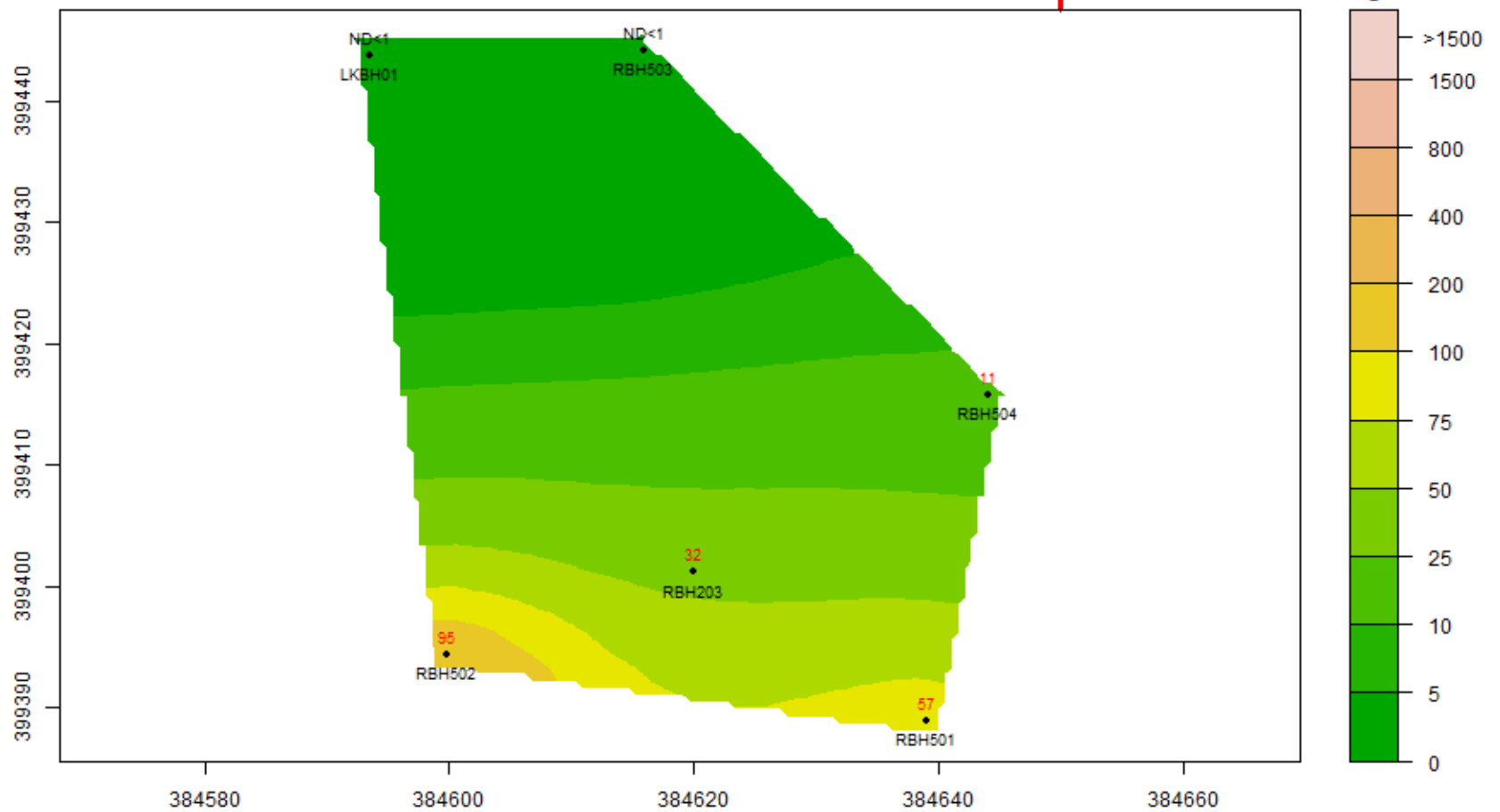
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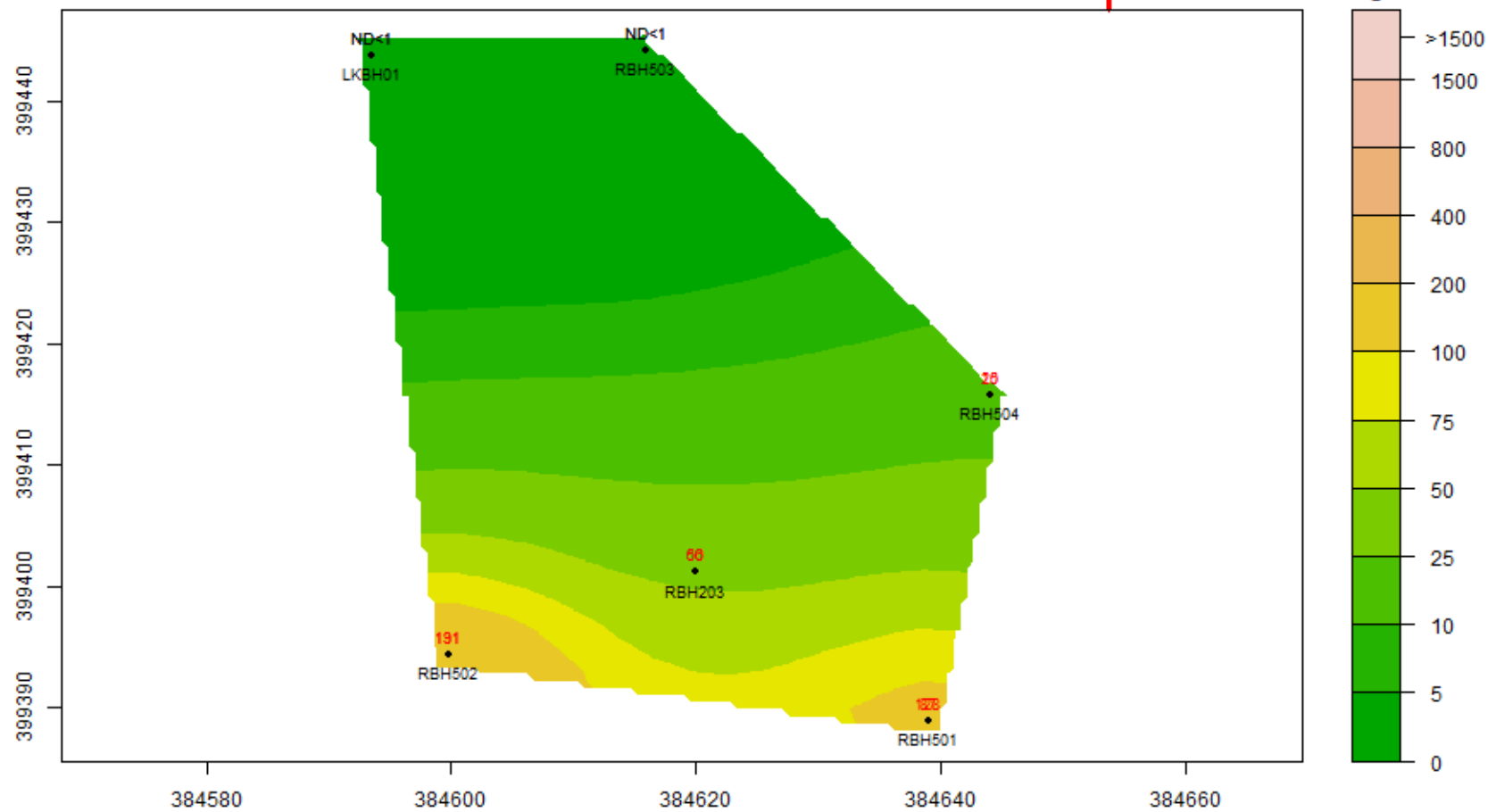
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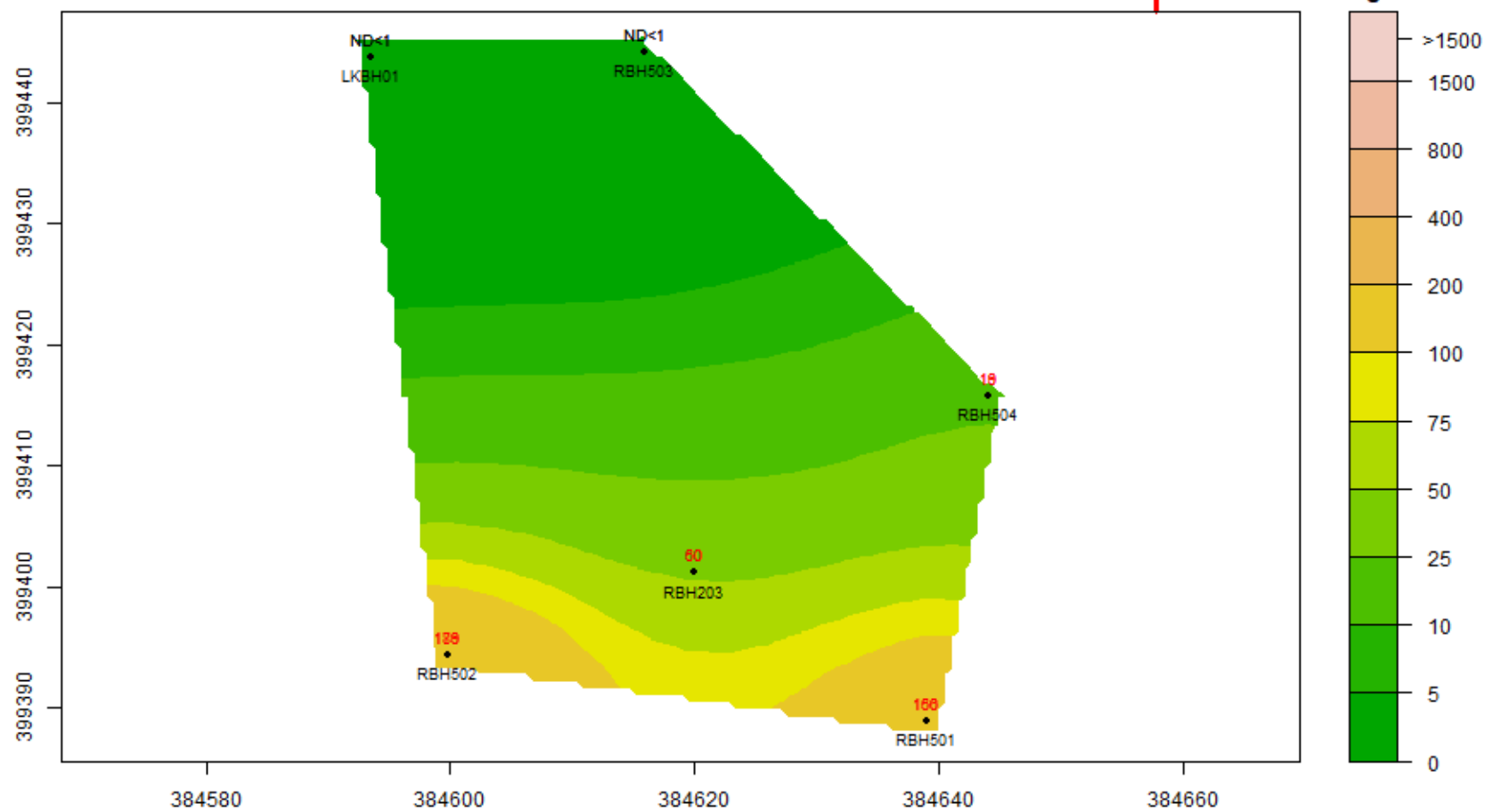
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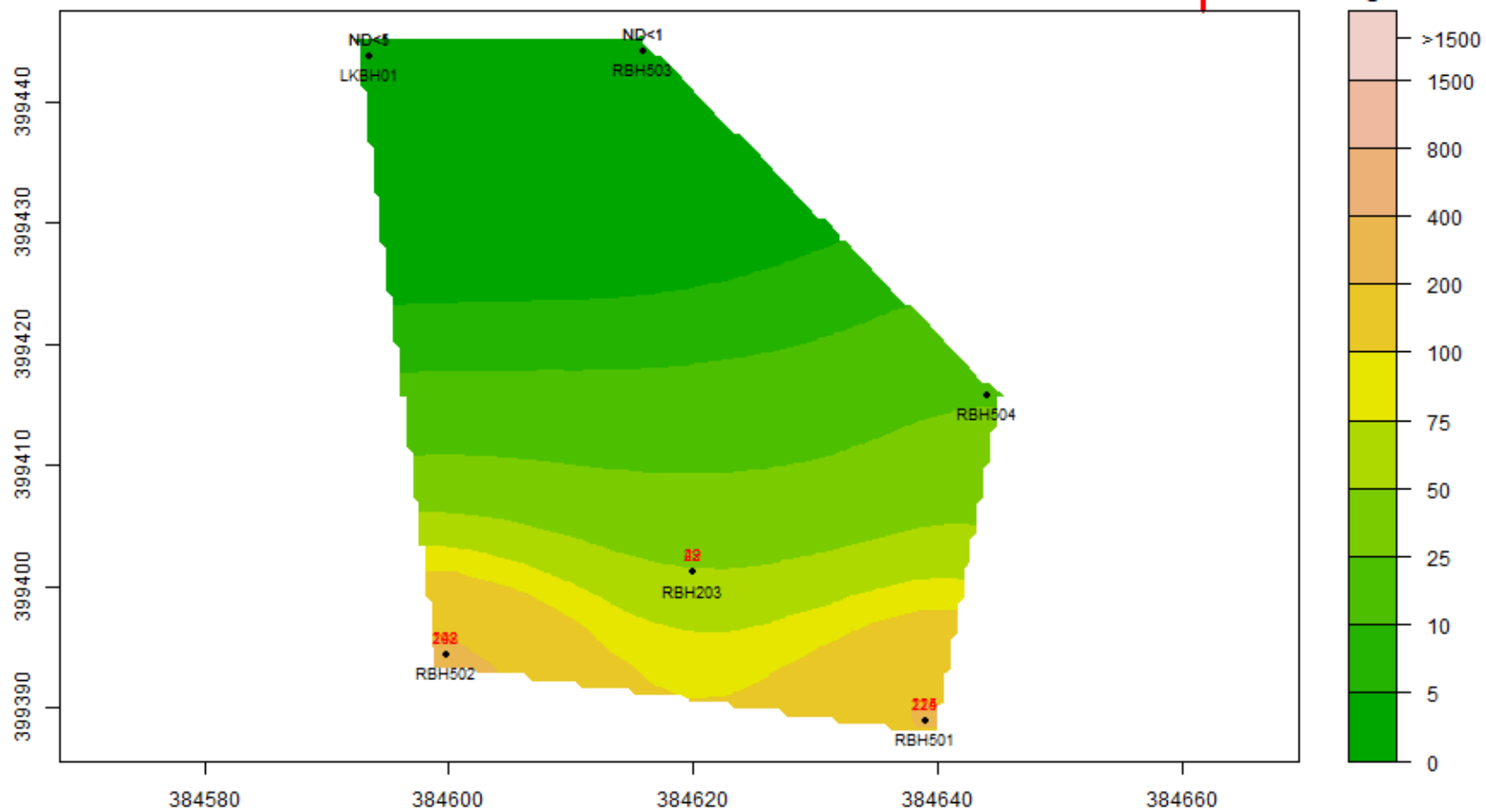
CTC : 19-Jun-2024 to 18-Jul-2024 : Aquifer-Blank



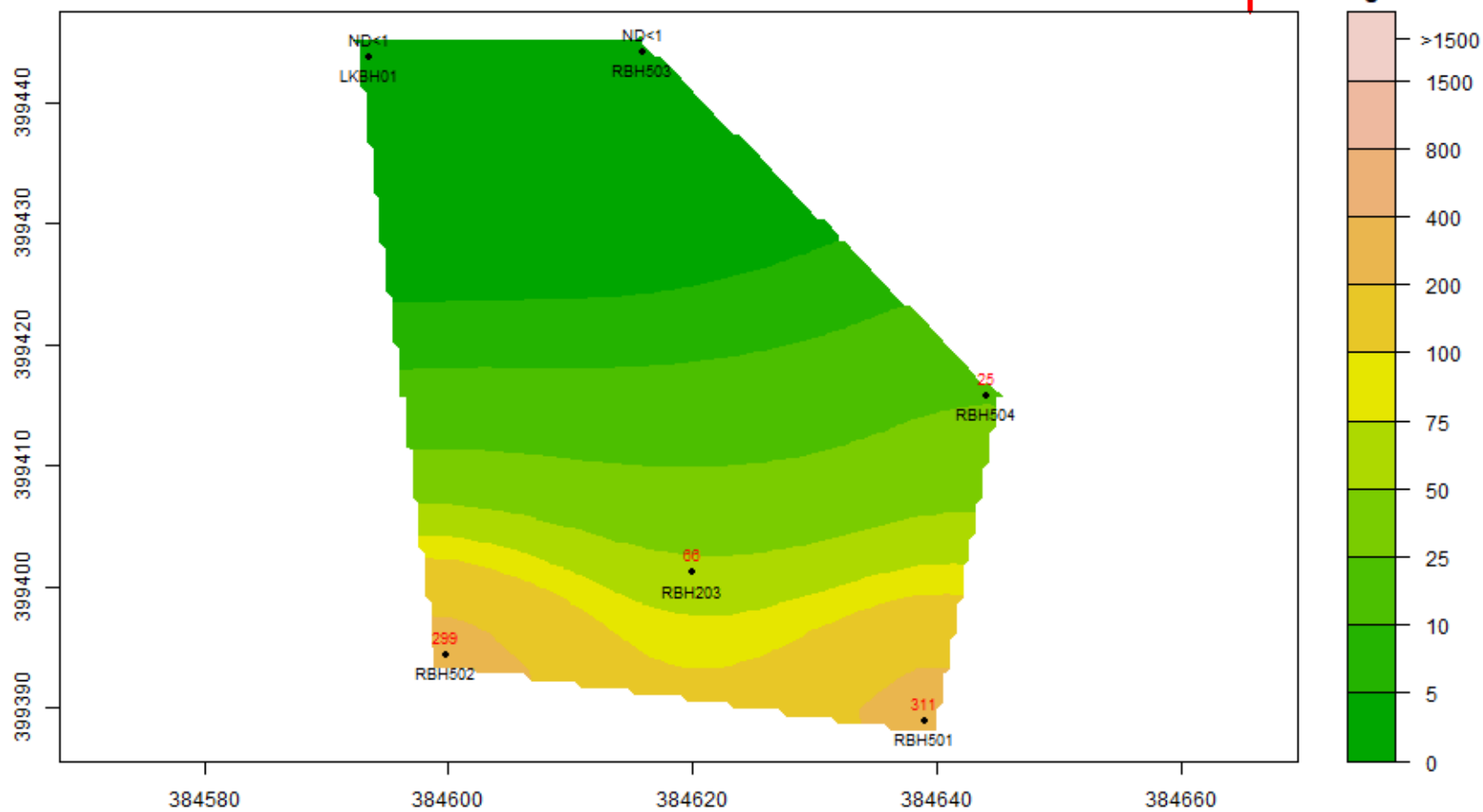
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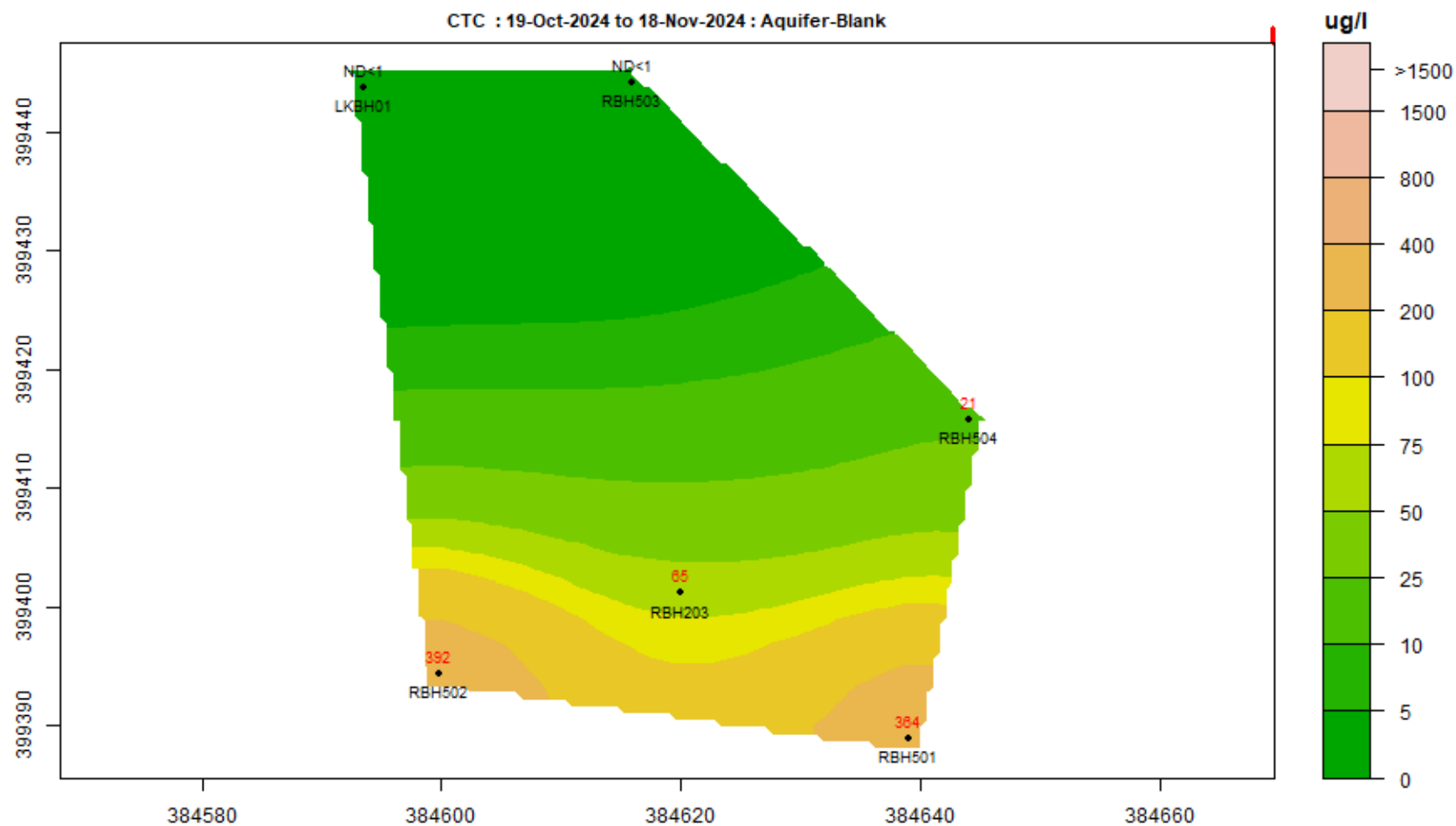
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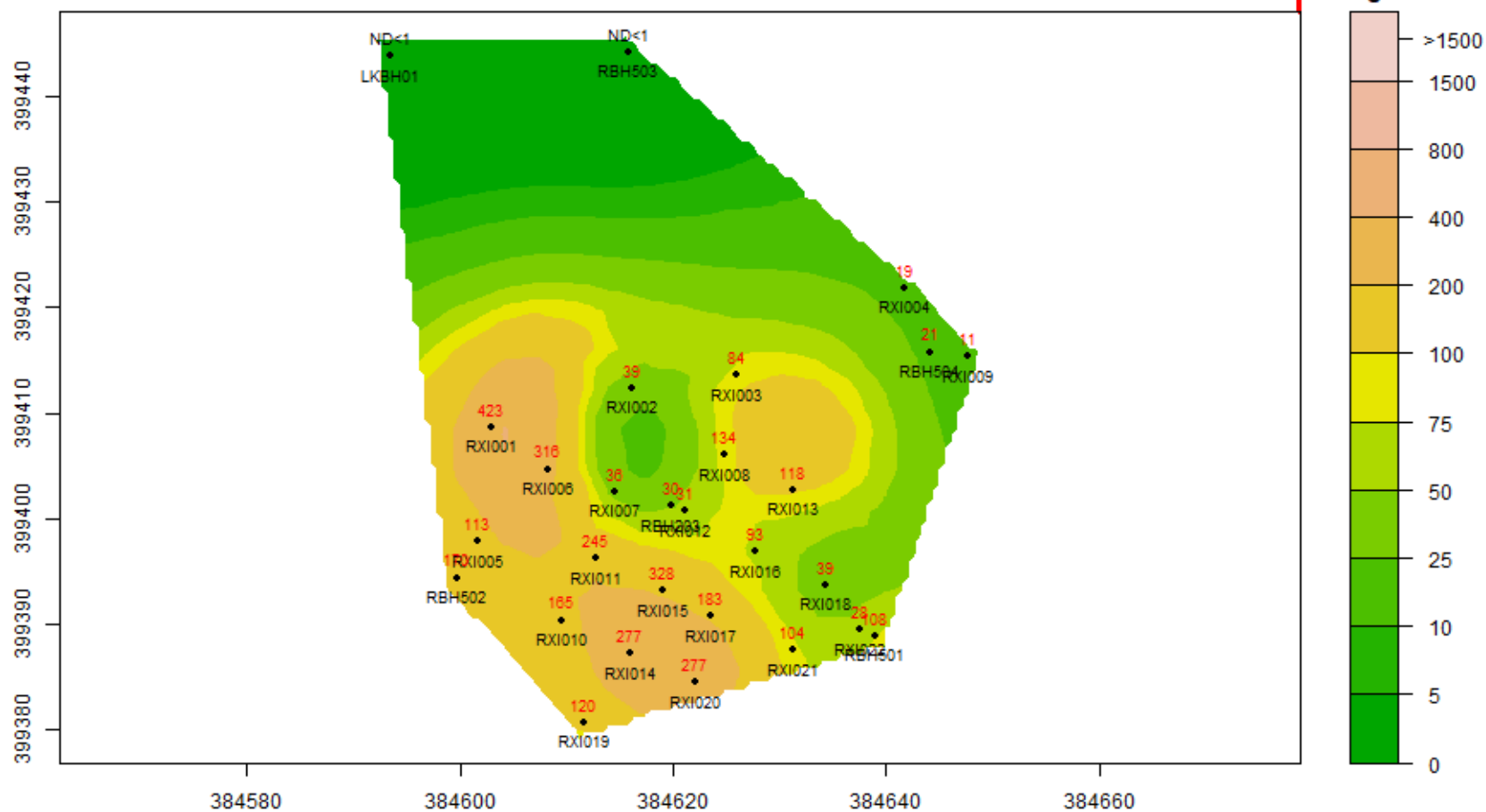
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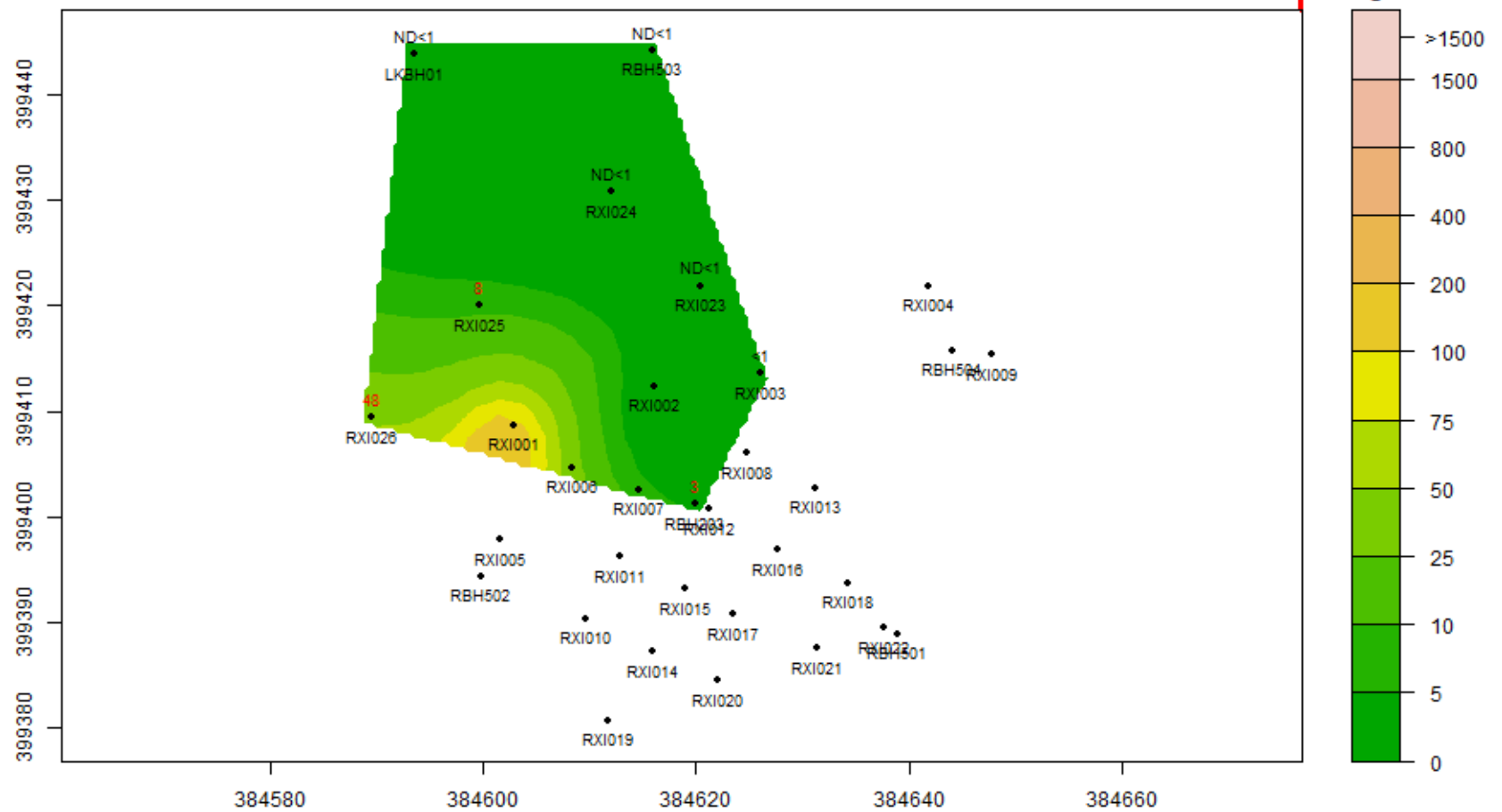
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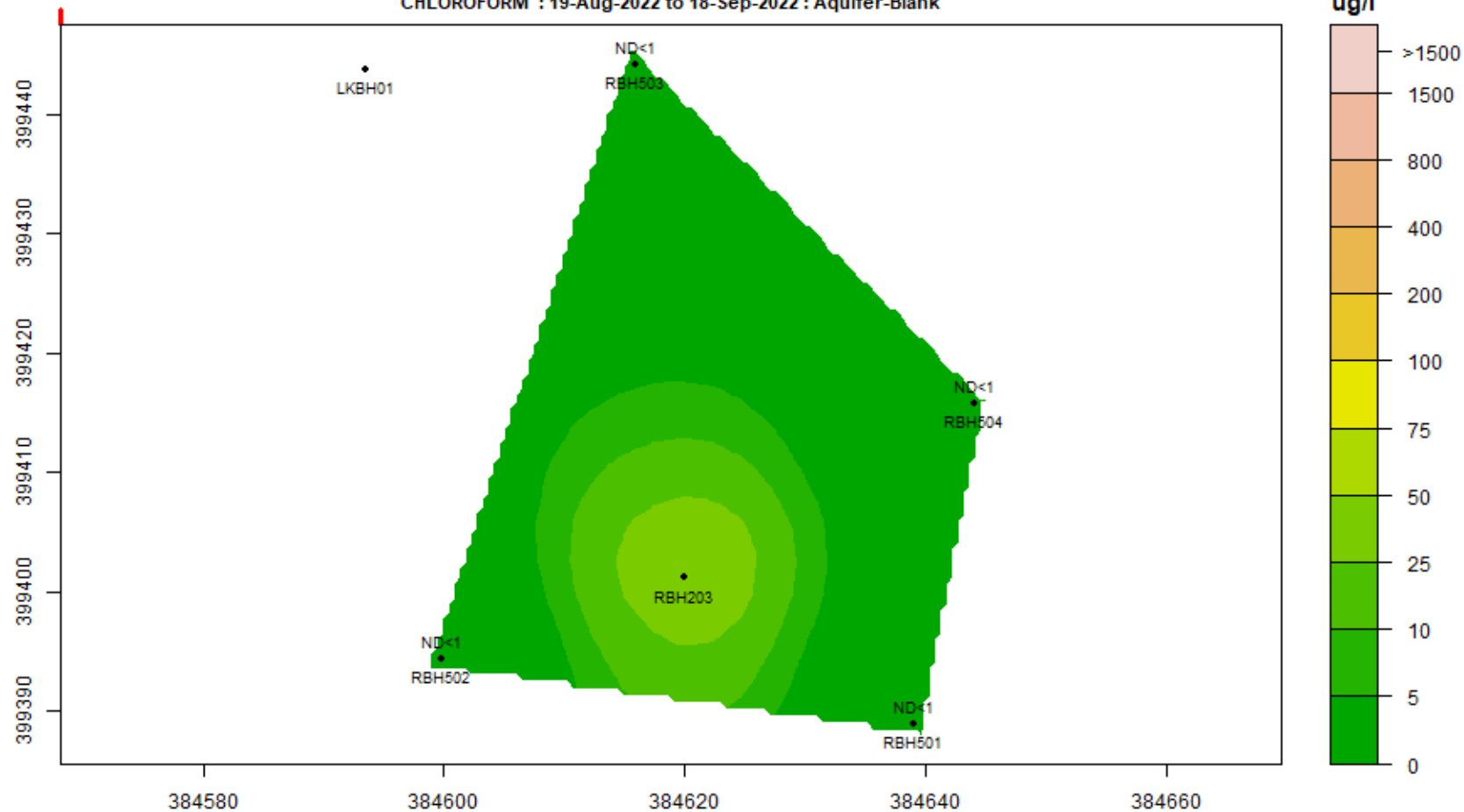
CTC : 25-Dec-2024 to 24-Jan-2025 : Aquifer-Blank



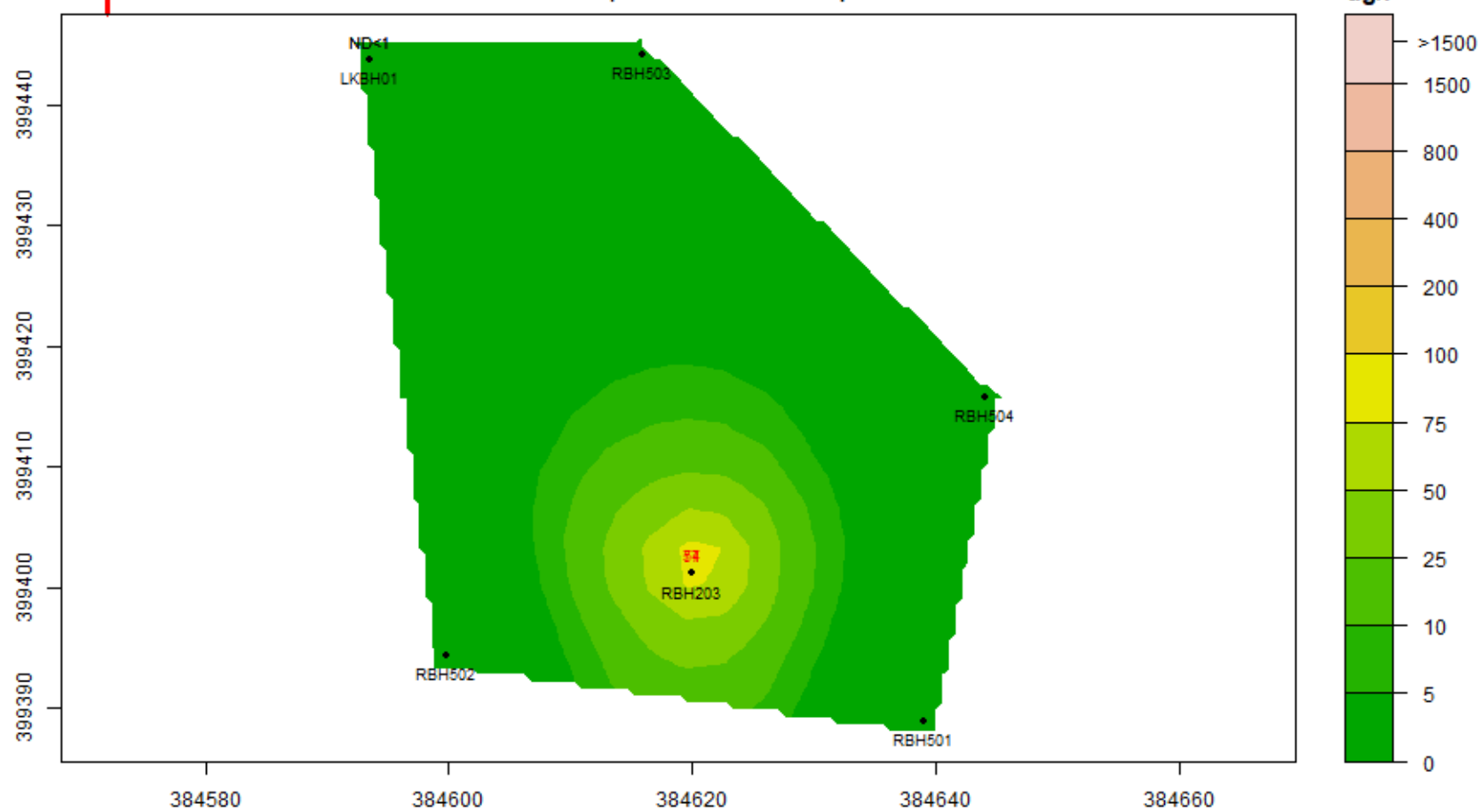
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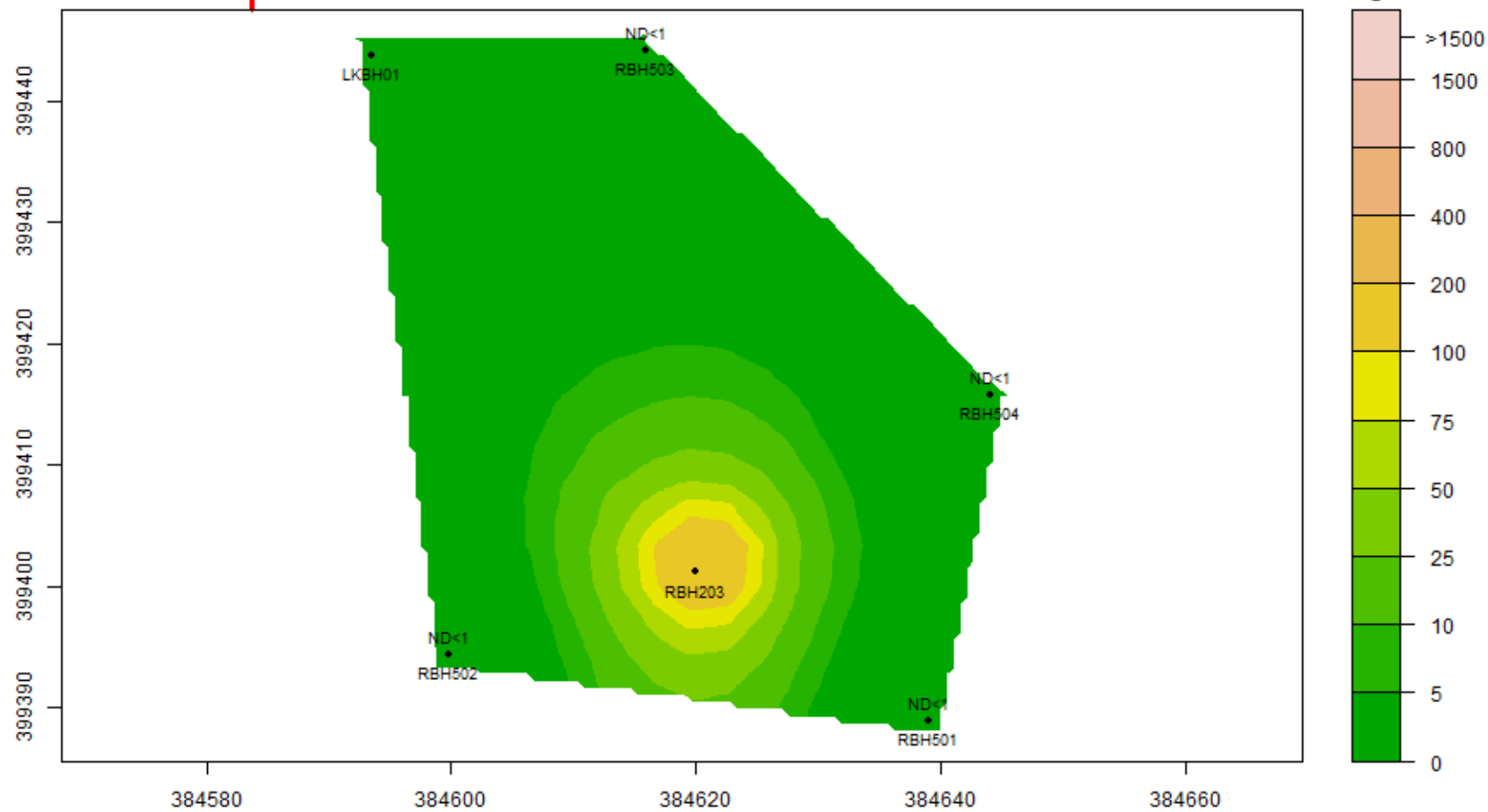
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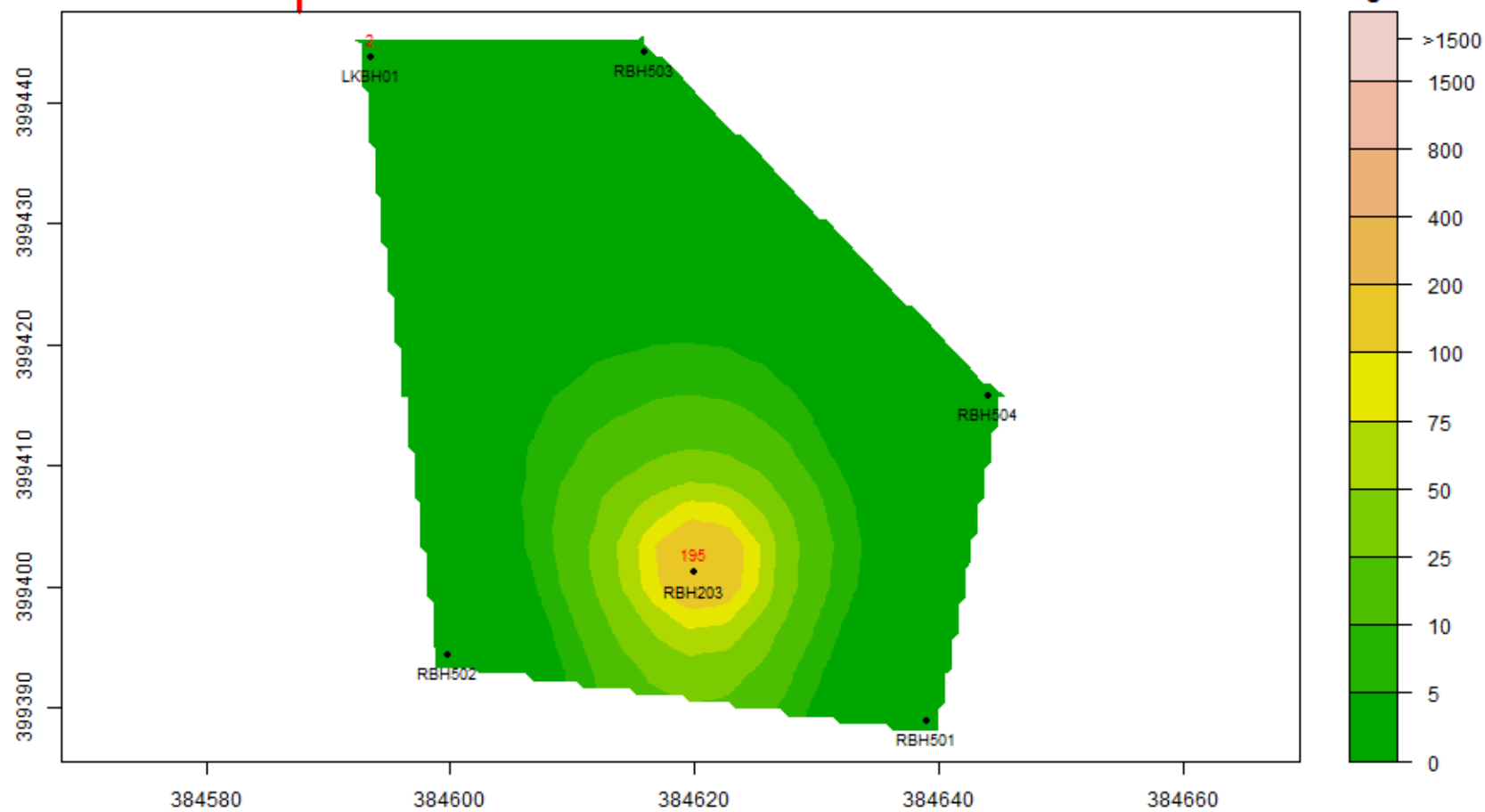
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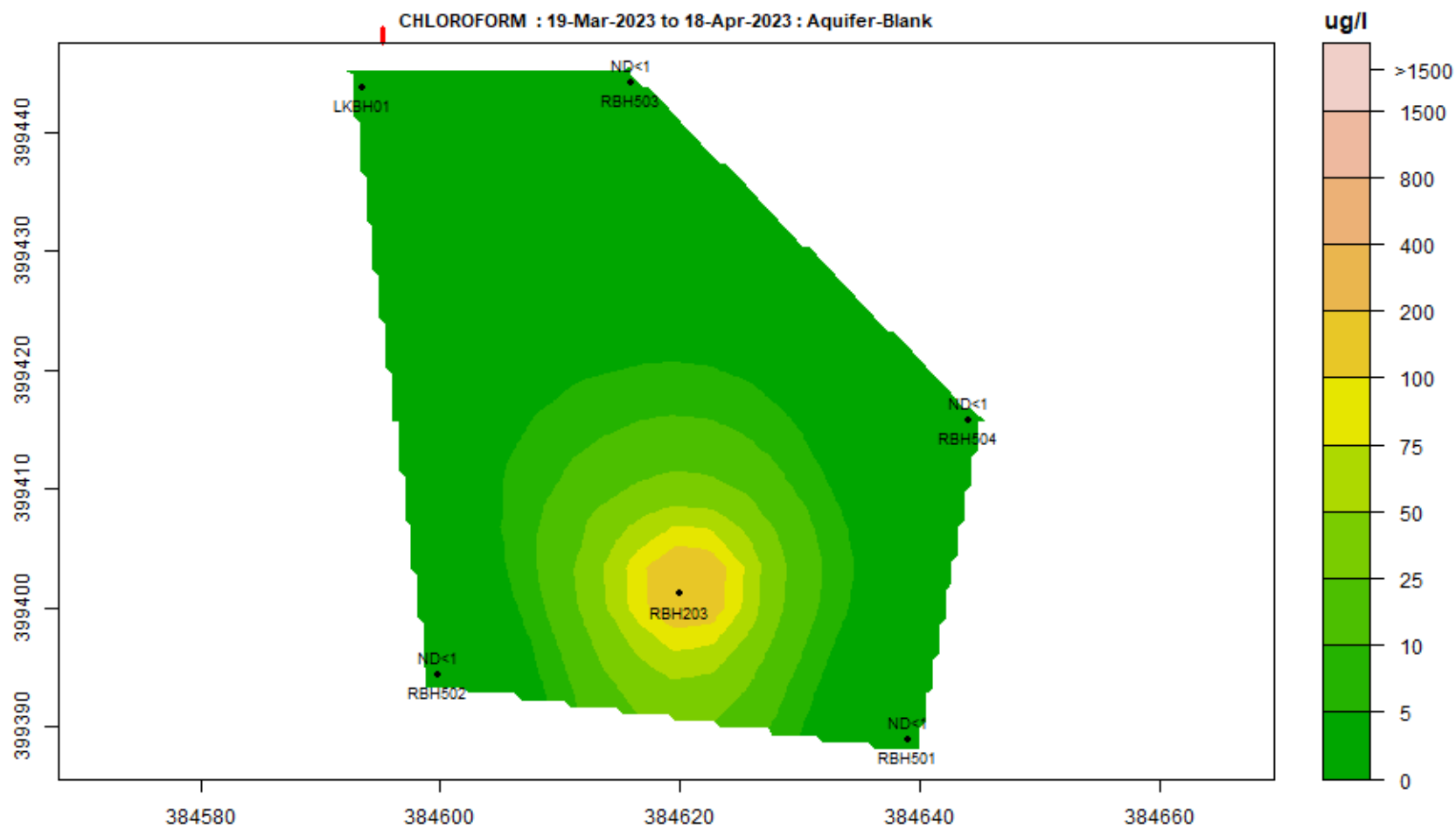


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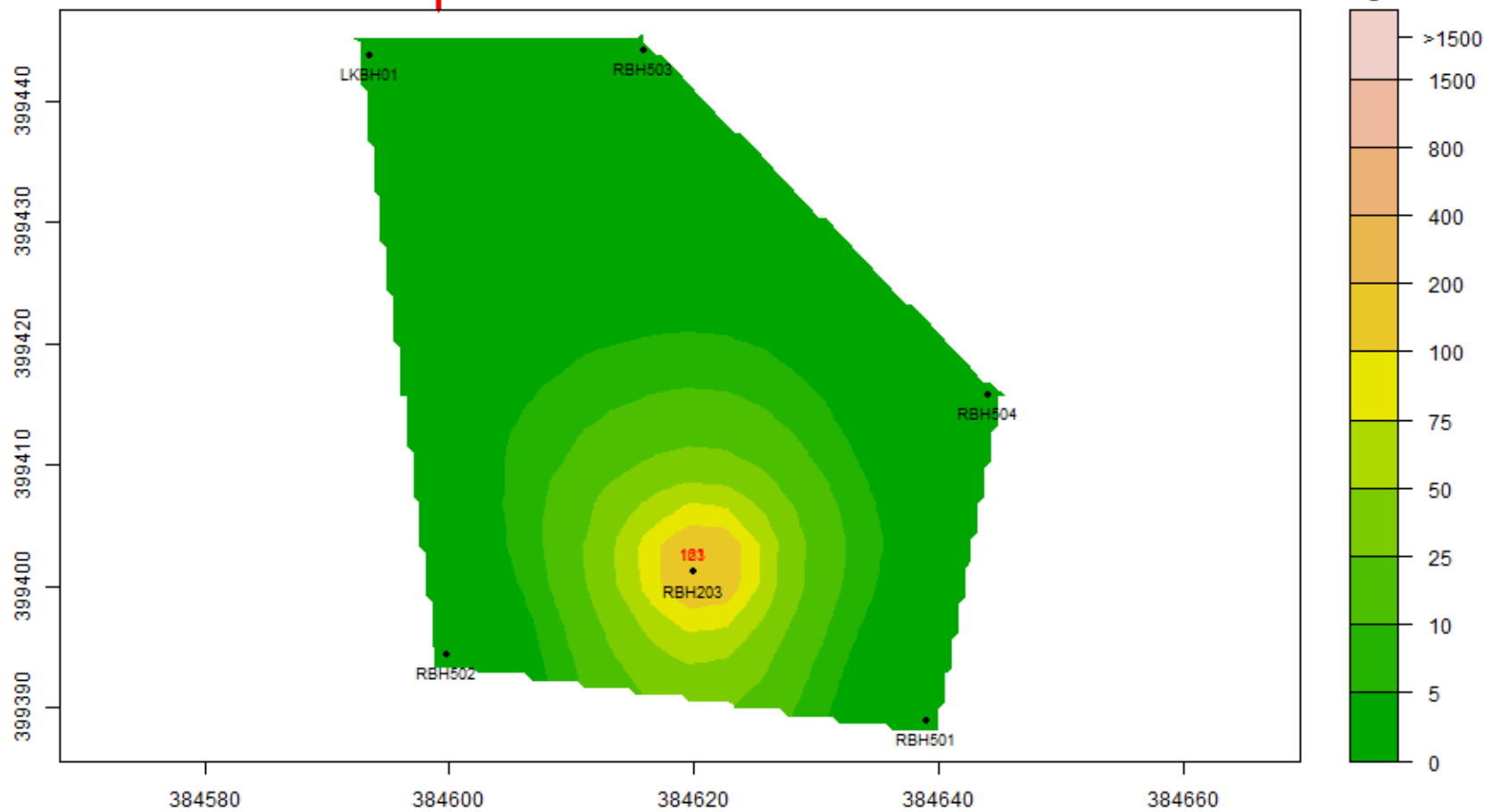


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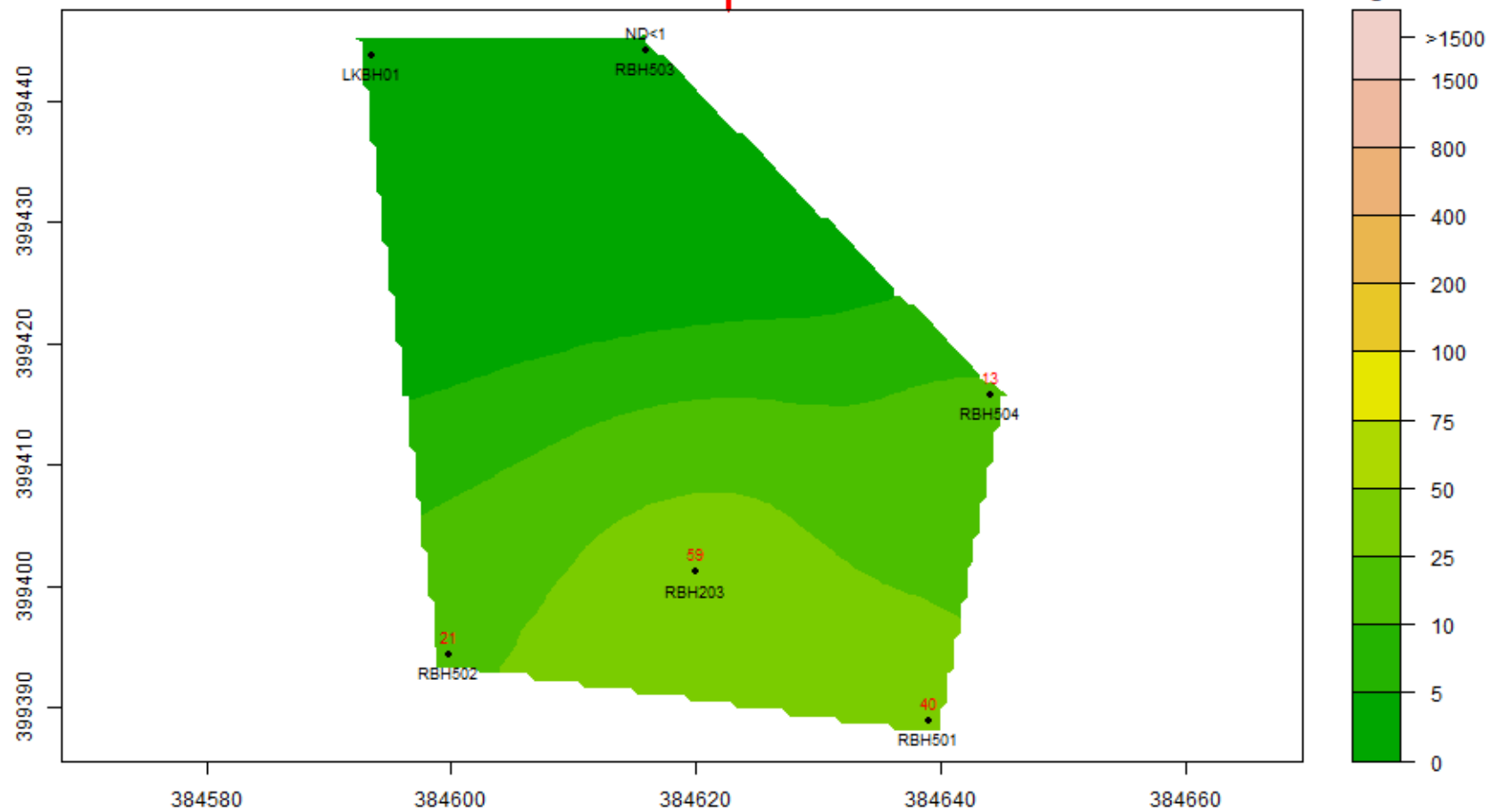




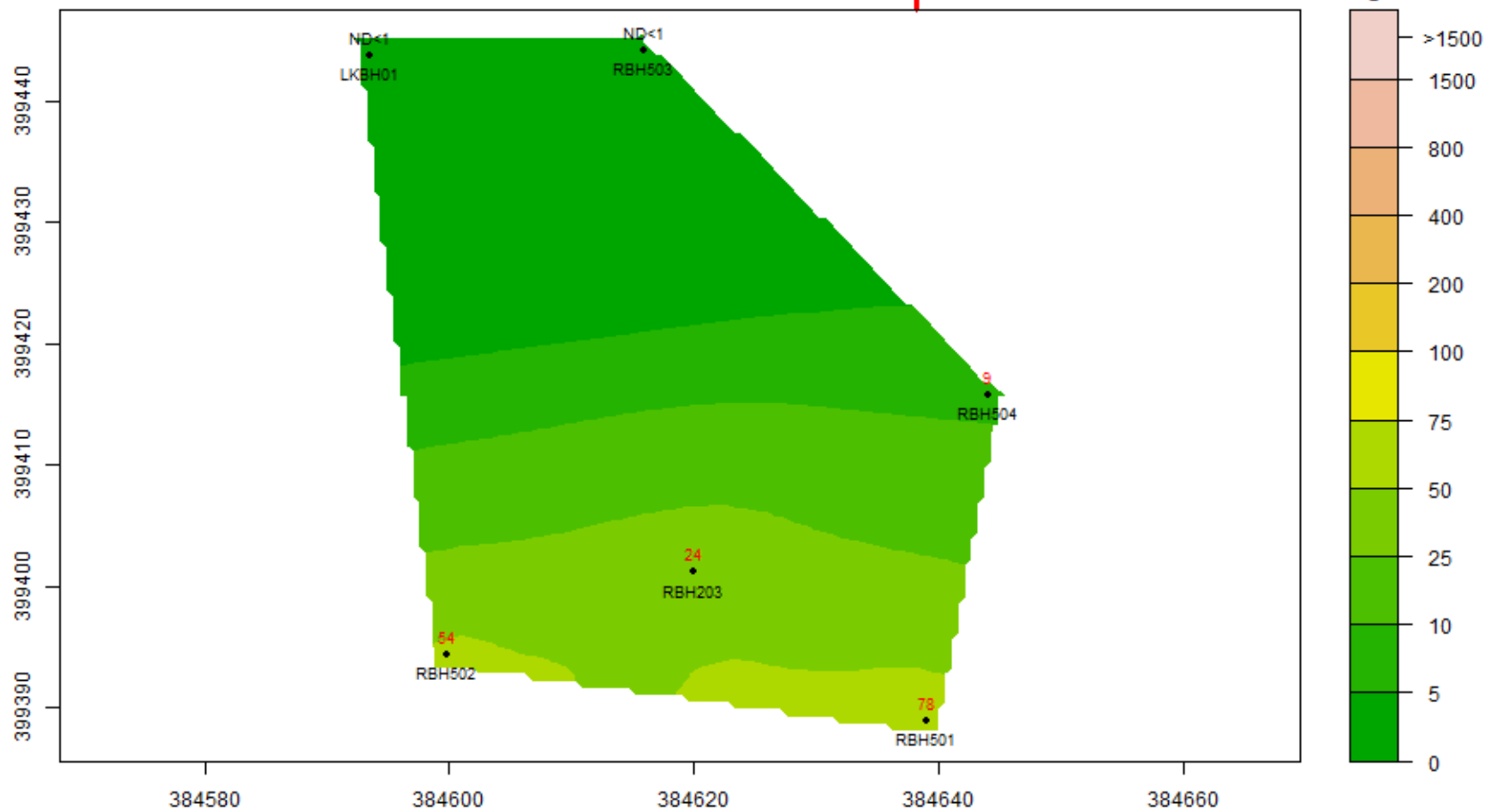
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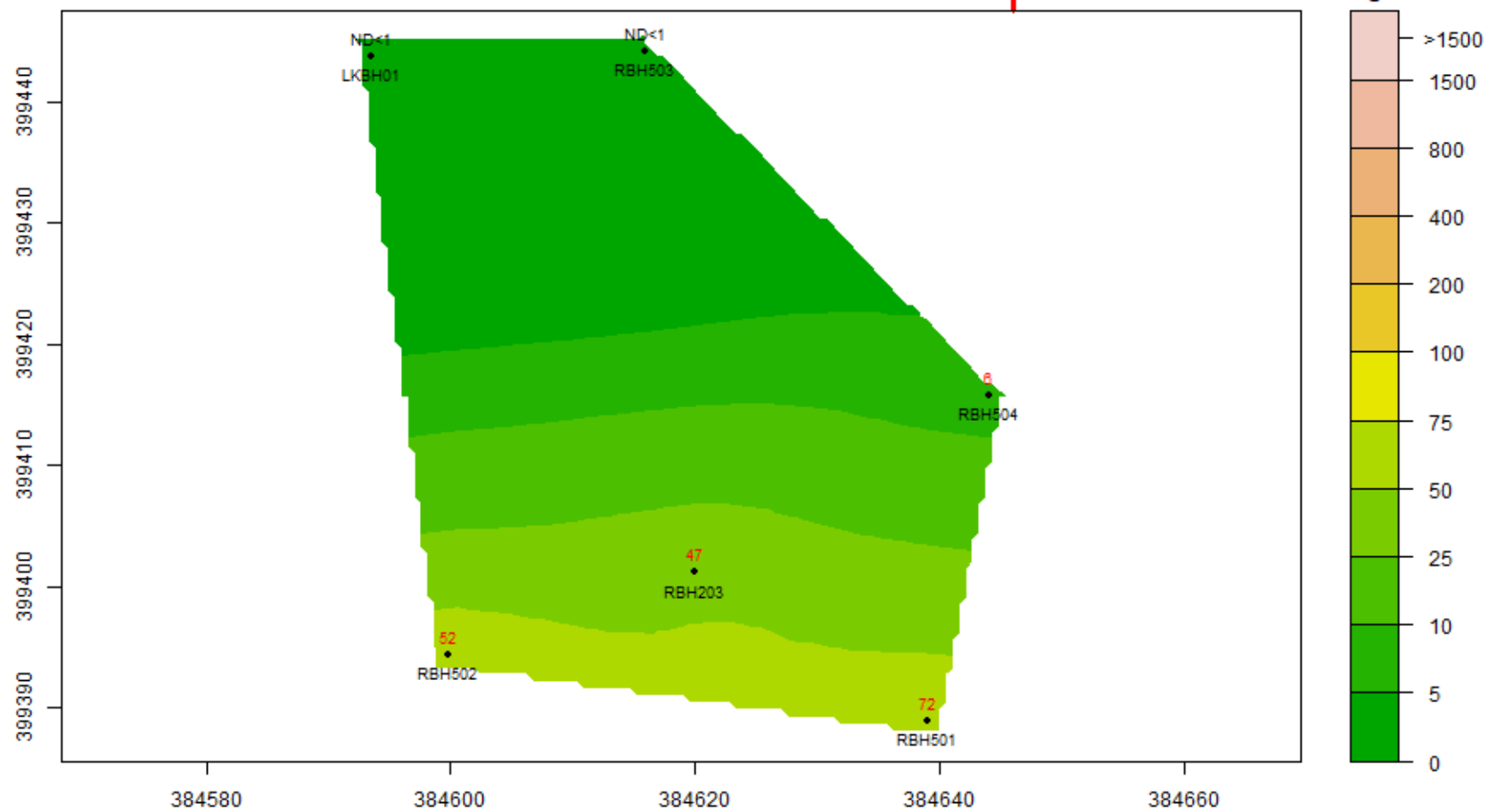
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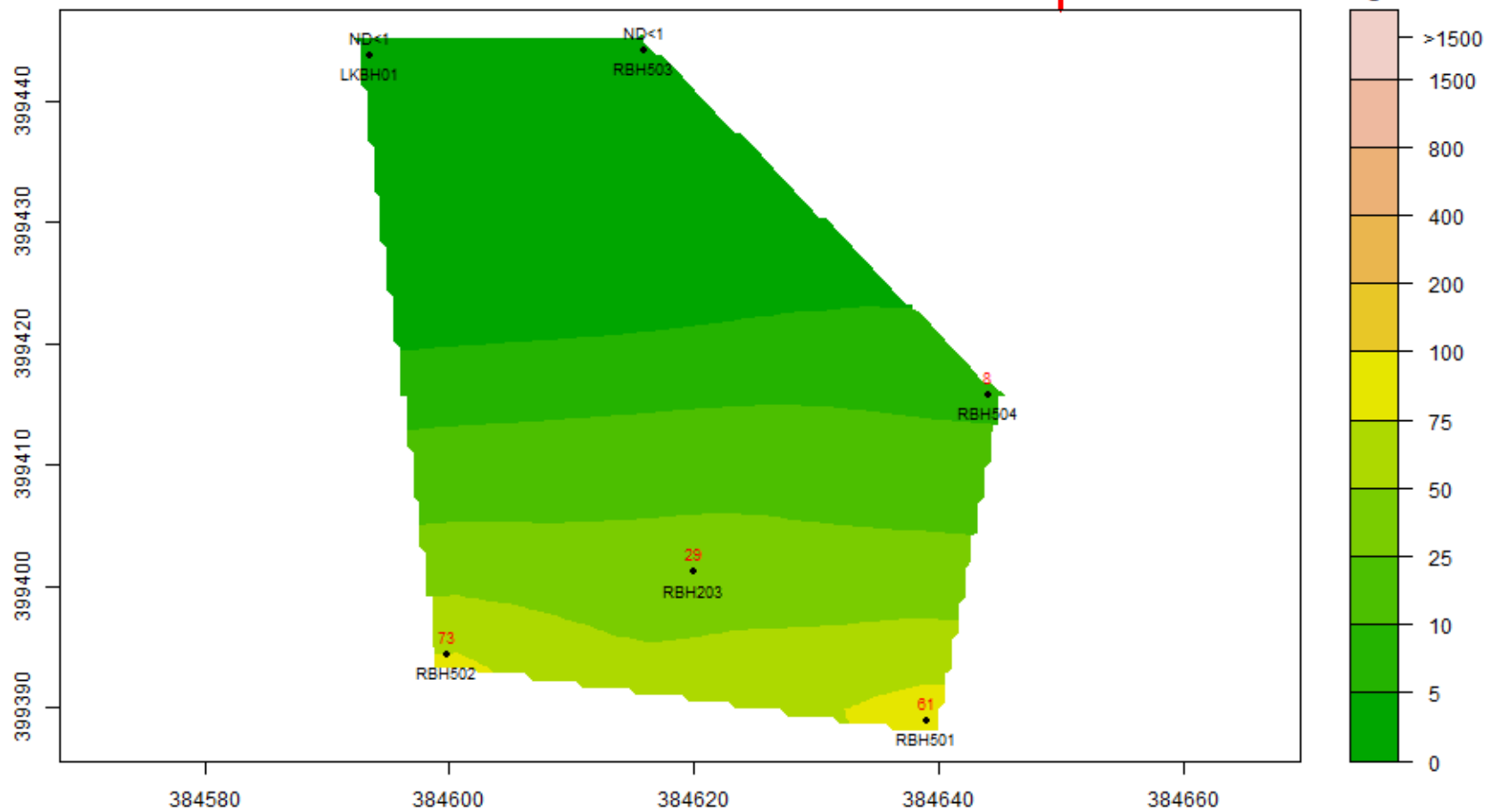
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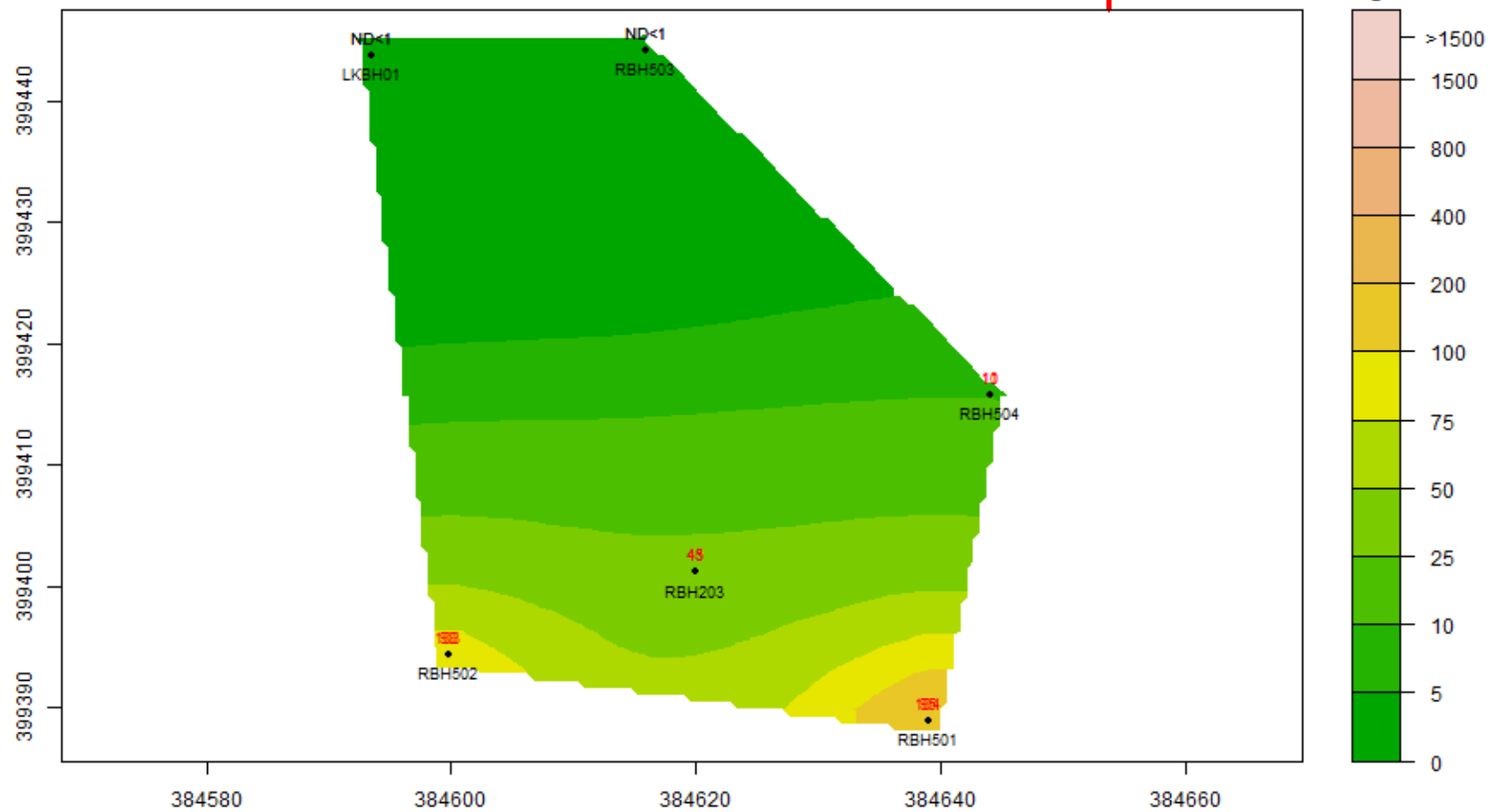
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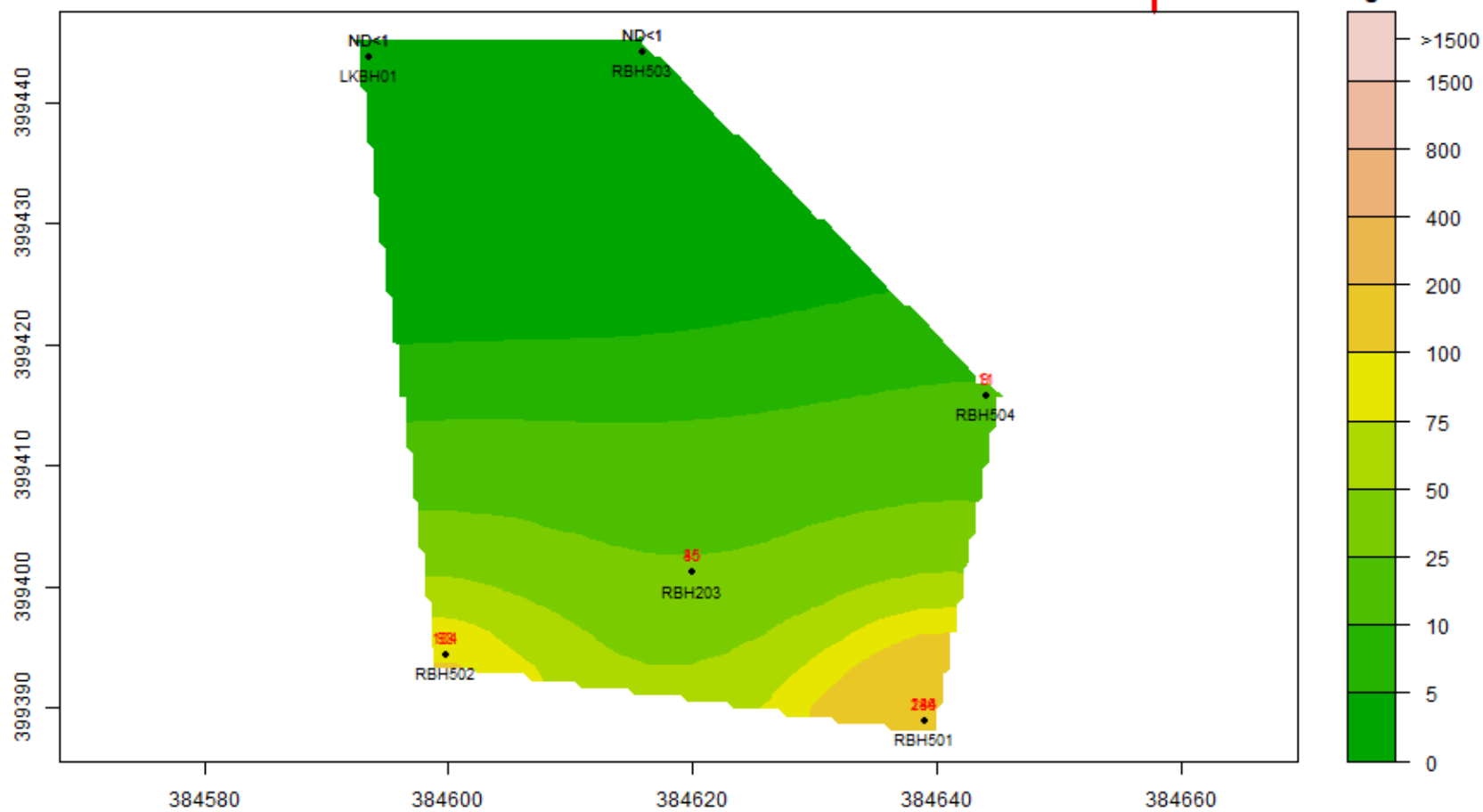
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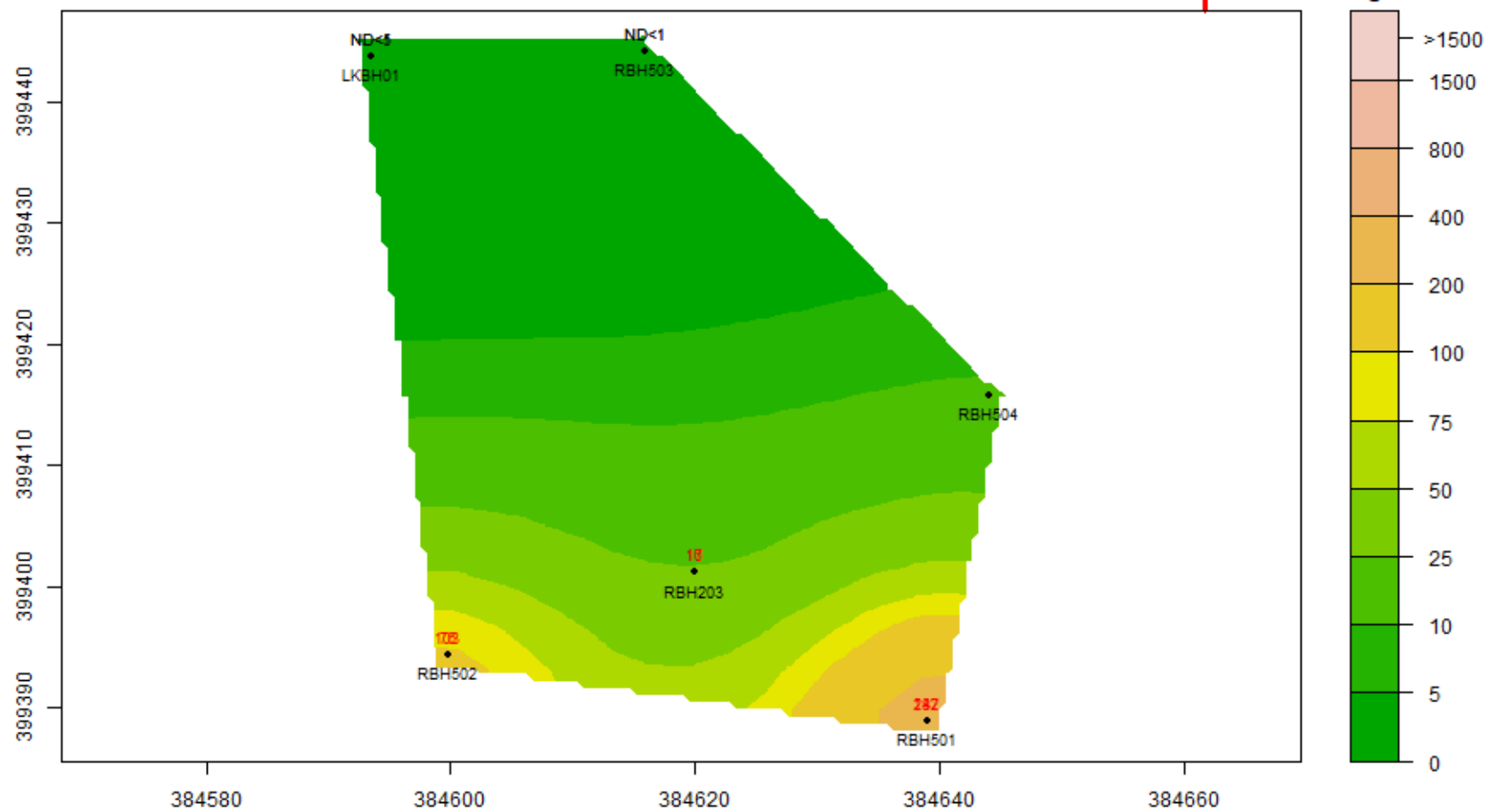
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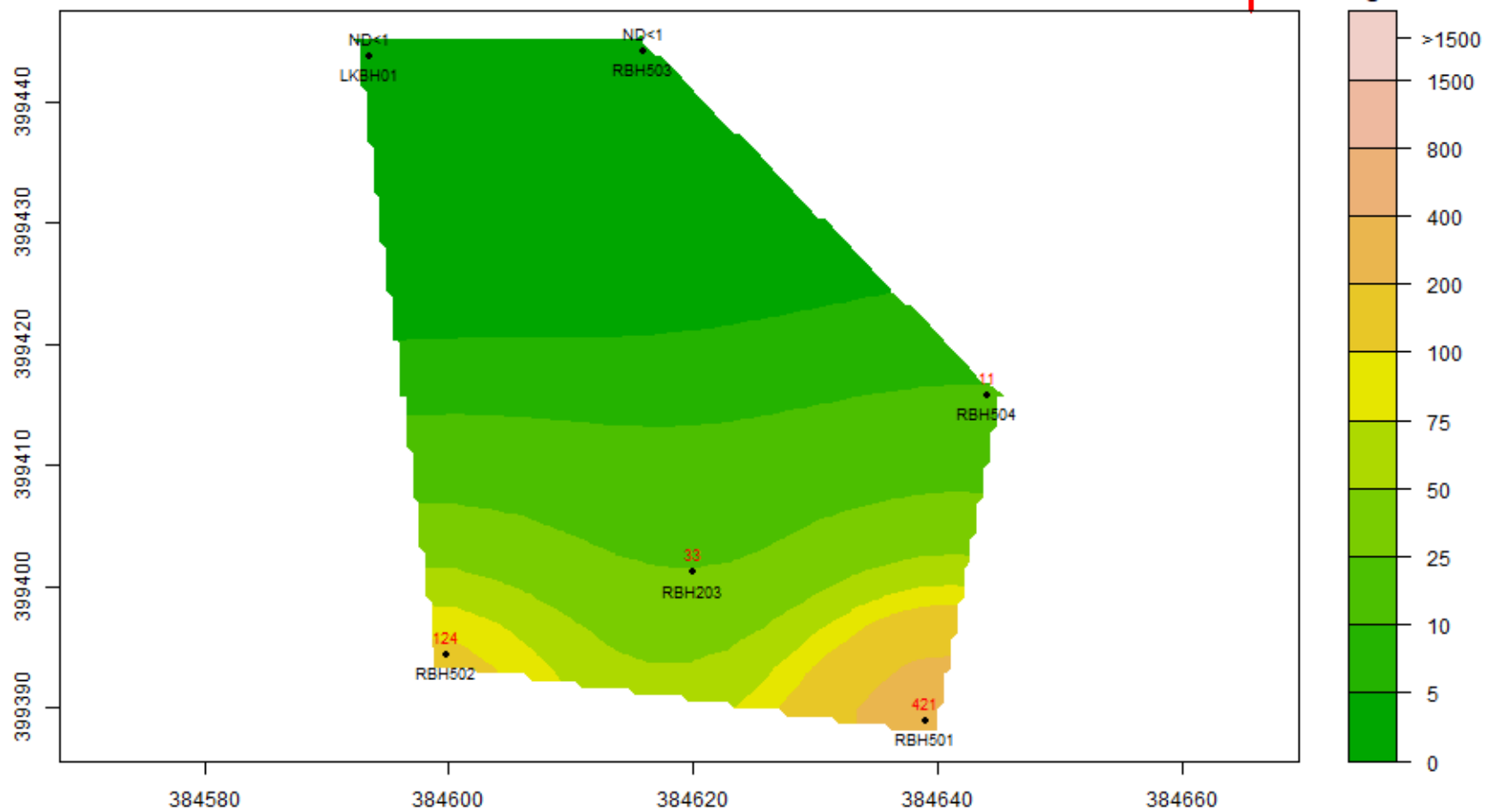
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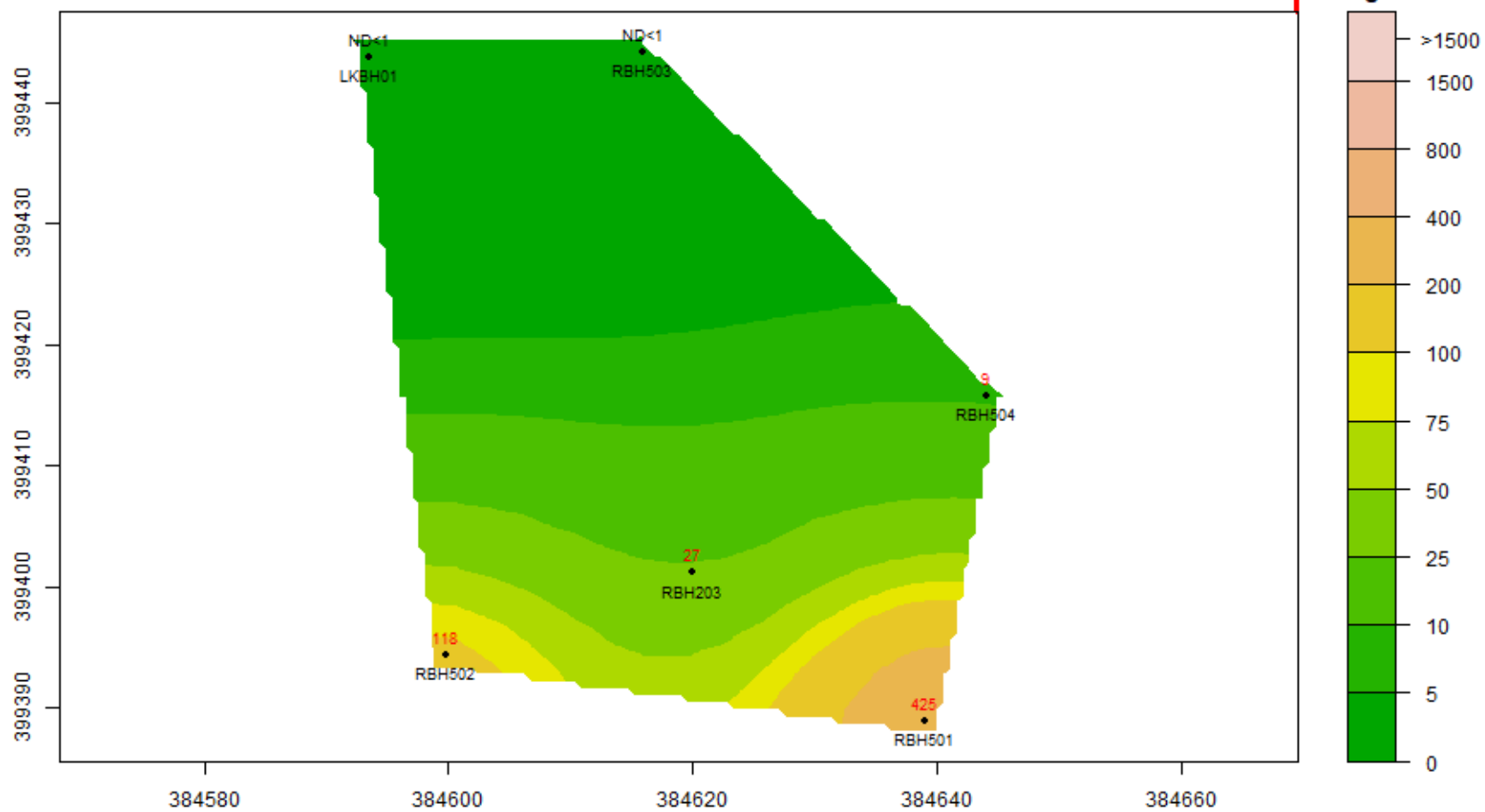
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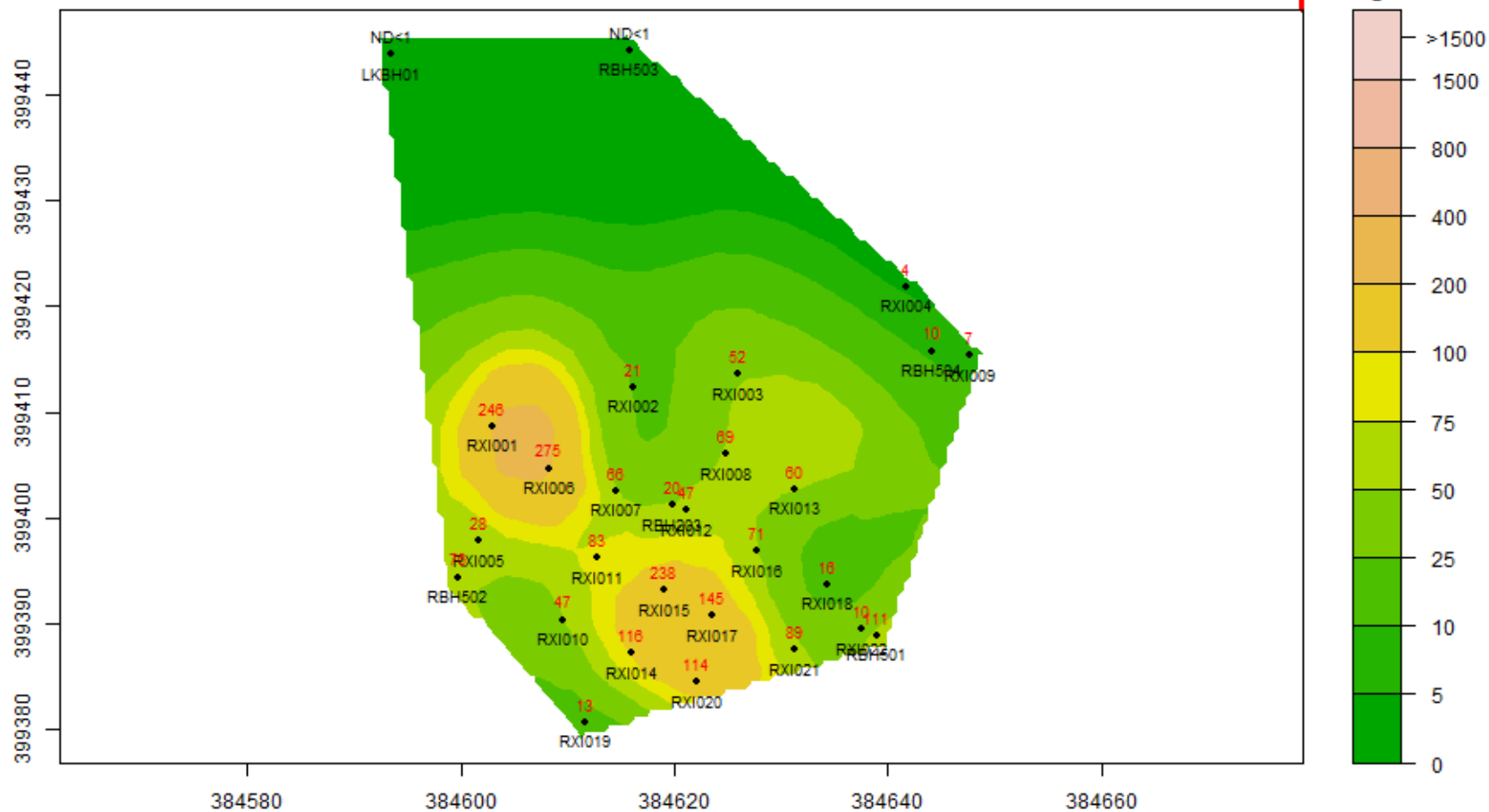
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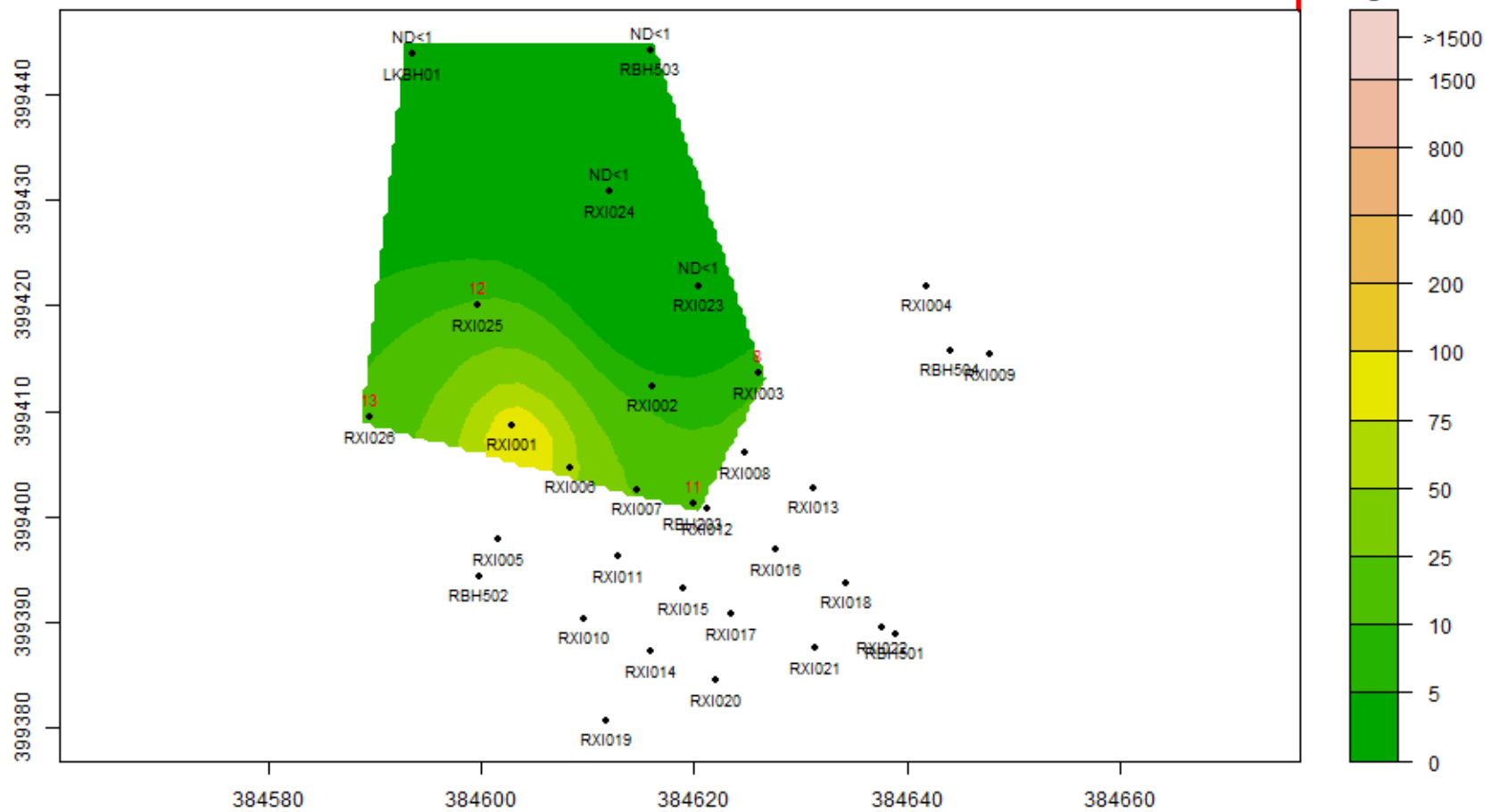
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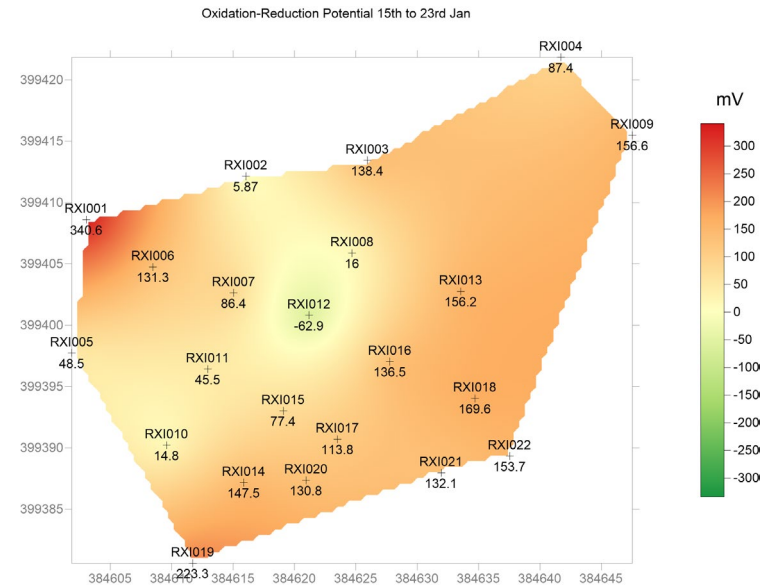
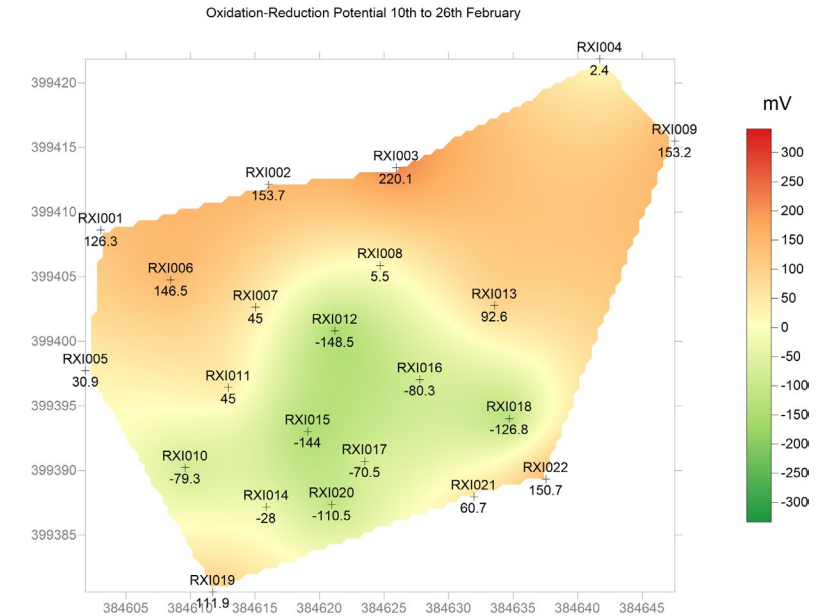
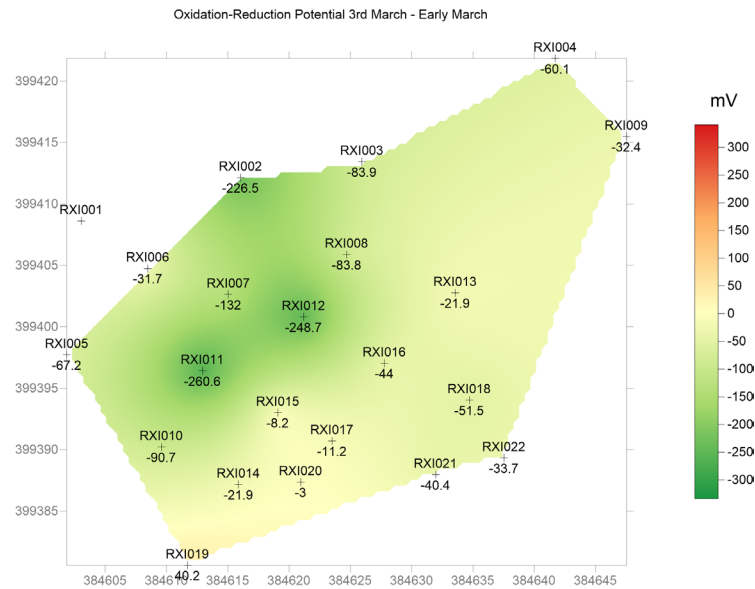
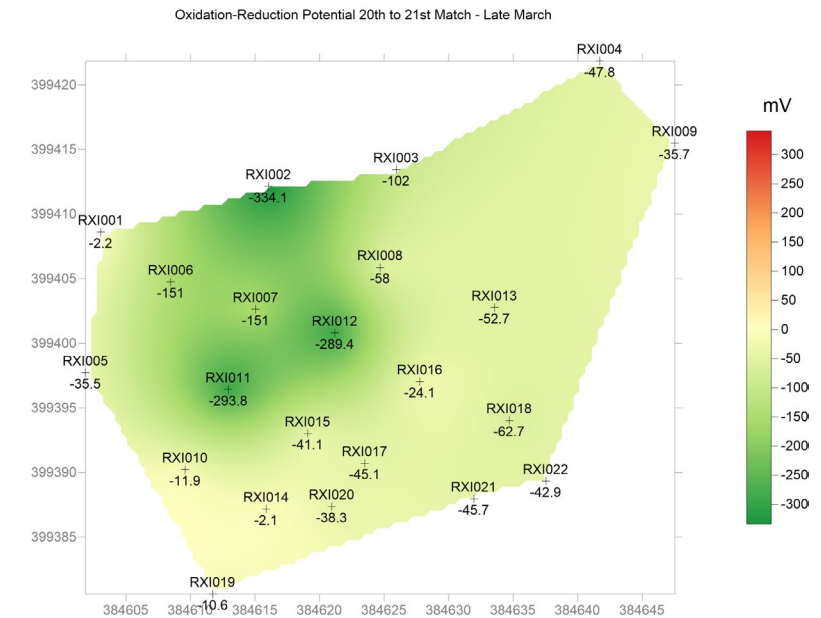
CHLOROFORM : 25-Dec-2024 to 24-Jan-2025 : Aquifer-Blank



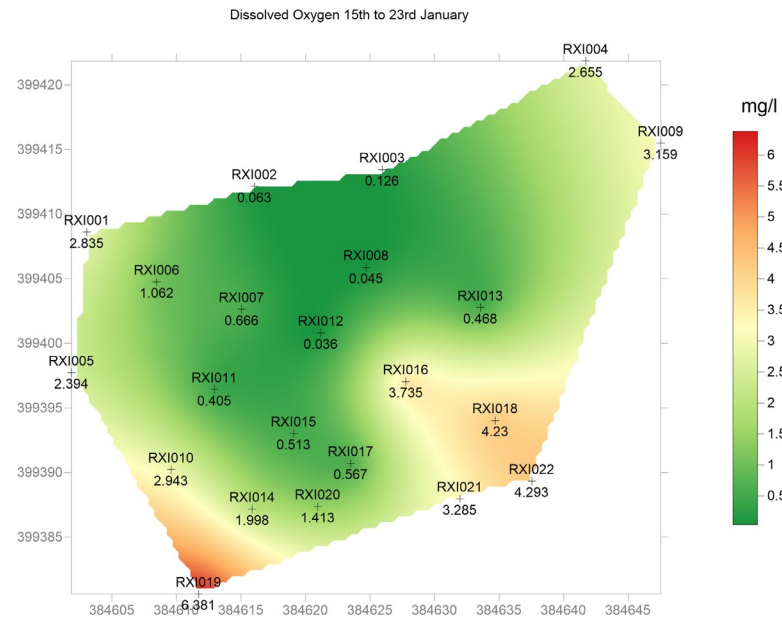
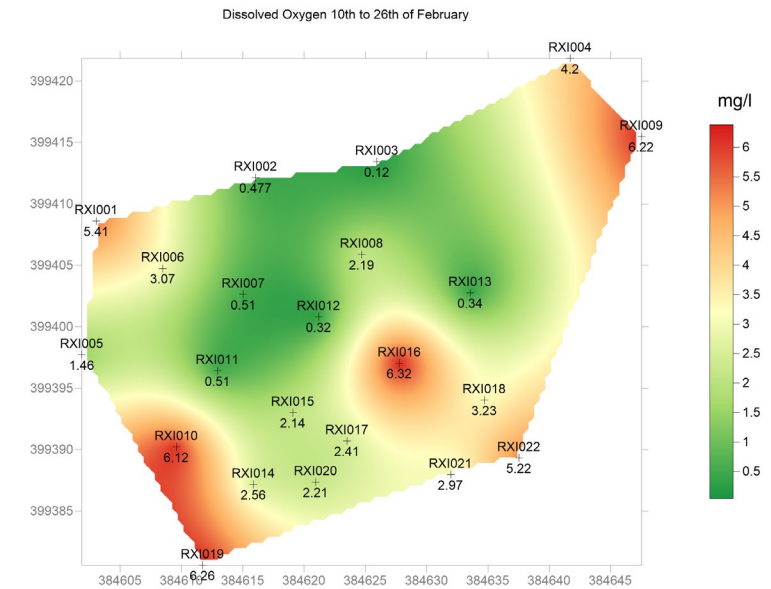
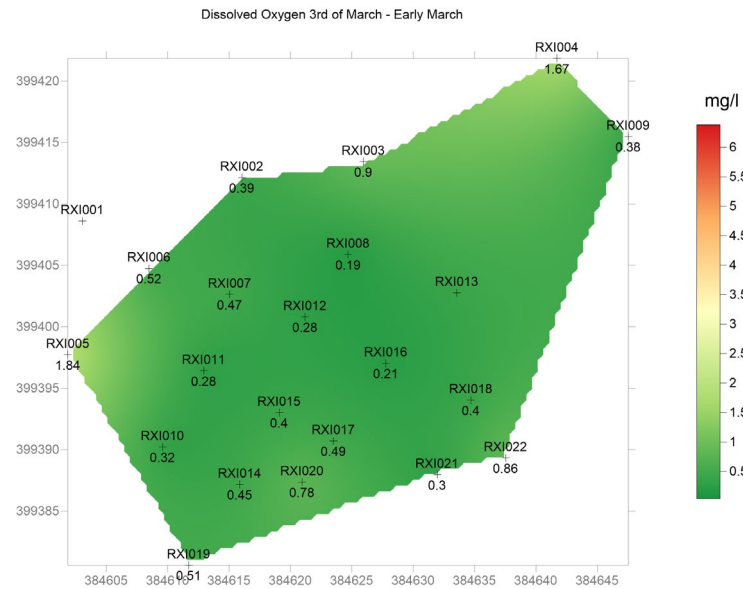
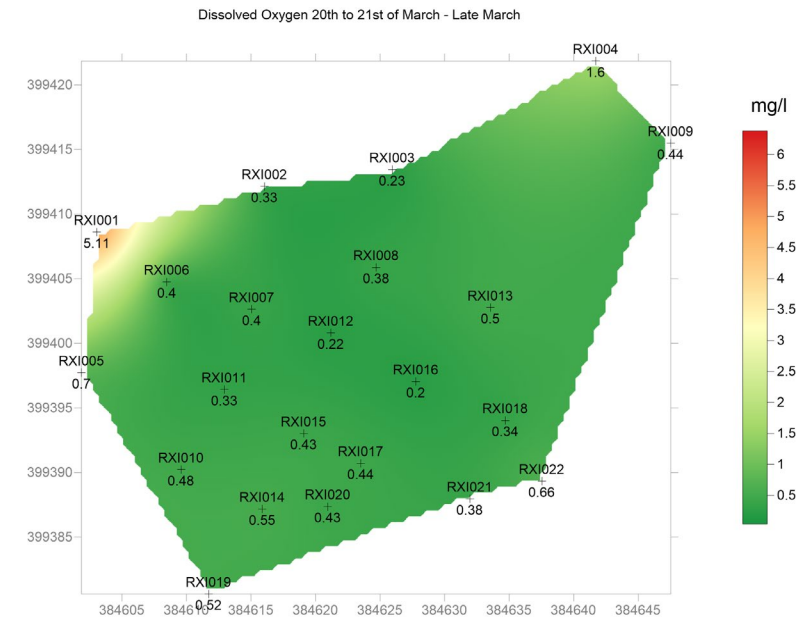
CHLOROFORM : 11-Mar-2025 to 10-Apr-2025 : Aquifer-Blank

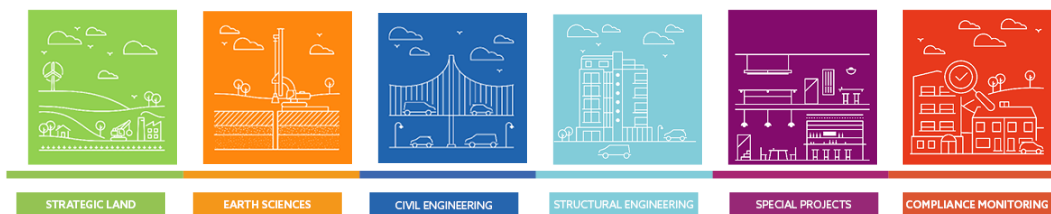


Victoria North – ISCR Remediation Works – ORP Readings



Victoria North – ISCR Remediation Works – DO Readings





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