

Ferns Group Wrotham Quarry Addington, Kent

Environmental Permit Application Buttressing of Quarry Faces Using Inert Materials Hydrogeological Risk Assessment

Version 3 16th June 2022

FERNS

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| | | | | | | | | | |

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BCL CONSULTANT HYDROGEOLOGISTS' EXPERIENCE & QUALIFICATIONS

BCL is an independent consultancy specialising in all aspects of hydrogeology and hydrology as they relate to minerals extraction, waste disposal, water supply and related industries.

Peter Simpson (the author of this report) holds an honours degree (B.Sc. Environmental Science) conferred by The University of Birmingham in 2005 and a Masters Degree (M.Sc. Hydrogeology), also conferred by The University of Birmingham, in 2011.

BCL has provided specialist services, advice and reporting to the extractive, waste and related industries since 1990. During this time a collective 100+ years of experienced has been earned from involvement with wide variety of assignments. BCL's work has included:

- Installation and management of information collection systems;
- Data interpretation;
- Conceptualisation of hydrogeological systems;
- Identification of potential impacts;
- Formulation of mitigation measures;
- Management and undertaking of operational impact monitoring and impact assessment;
- Review and auditing of contingency mitigation schemes;

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1 INTRODUCTION

1.1 Background

- ^{1.1.1} Wrotham Quarry, Addington, Kent (the Site) is operated by the Ferns Group (FG) for the extraction of Folkestone Sands, which are processed on-site to produce materials for the general civil engineering and specialist silica sand markets.
- ^{1.1.2} Operations at the Site are governed by the conditions of several permissions, recently including mineral permission ref. TM/14/4075, dated 11/09/15 (the 2015 Permission) authorising a satellite extension located to the north-east of the main quarry void, this extension to be restored by use of imported inert materials¹.
- ^{1.1.3} In March 2020, a planning application (the Planning Application) was submitted to Kent County Council (KCC), seeking permission for the buttressing of the western and northwestern faces of mineral extraction within the main quarry void (this being discrete from the satellite extension) using indigenous material supplemented with imported inert material (The Recovery Operation).
- Planning Permission for the Recovery Operation was granted by KCC in November 2020, ref: KCC/TM/0073/2020 (The Permission). Realisation of the Recovery Operation however additionally requires a consenting Environmental Permit (Waste Recovery Activity).
- BCL Consultant Hydrogeologists Limited (BCL) have thus been appointed by Quarryplan Limited, agents of FG, to undertake a Hydrogeological Risk Assessment (HRA) to support Environmental Permit (EP) Application (The Application) in this regard.

1.2 Aim of HRA

- ^{1.2.1} The HRA draws upon the findings of previous hydrological and hydrogeological baseline studies undertaken at the Site, this including the 2020 Hydrogeological and Hydrological Impact Assessment (The 2020 H&HIA²) as supporting the Planning Application, and its associated Site-Specific Flood Risk Assessment report (The 2020 FRA).
- ^{1.2.2} These baseline studies have informed quantitative assessment of the potential impacts of the Recovery Operation upon the water environment.

1.3 HRA Approach and Outcomes

- The collection and interpretation of baseline data, which has drawn upon the findings of previous assessment, has facilitated the formulation of a Conceptual Hydrogeological Model of the Site and its environs (the CHM).
- ^{1.2} The CHM describes the nature of, and interactions between, the groundwater and surface water systems operating at and around the Site.

¹ As authorised by extant Environment Agency Permit no. EPR/FB3003MP, determined 11th December 2017.

BCL, Planning Application for Buttressing of Quarry Faces Using Indigenous and Imported Inert Materials', Wrotham Quarry', 2020, QPL.FERNS.WROTHAM.H&HIA20.02

- ^{1.3} The CHM has been combined with the design of the Recovery Operation in the development of a Conceptual Site Model (CSM).
- ^{1.4} The CSM has been applied within a detailed quantitative HRA to assess the impact of the Recovery Operation upon the water environment.
- ^{1.5} The primary tool used to inform HRA with regards to the Recovery Operation has been Golder Associates' Landsim modelling software.
- ^{1.6} The results of HRA have informed the development of a groundwater monitoring programme to run concurrent with, and following completion of, the Recovery Operation.
- 1.7 The monitoring programme has been designed to:
 - Determine the effectiveness of measures adopted for the protection of the water environment, and;
 - Inform modification of those measures over time as appropriate.
- ^{1.8} This has included the derivation of groundwater quality Control Levels and Compliance Limits for incorporation into the Permit where required.

1.4 National Planning Policy & Technical Guidance

- ^{1.4.1} Where appropriate, the design of the Recovery Operation, methodology and scope of site-specific data-collection, formulation of the Conceptual Model, approach to impact assessment and selection of calculation methodologies have been informed by prevailing national guidance and industry standard procedures, including:
 - "National Planning Policy Framework" (NPPF), Department for Communities and Local Government (DCLG), February 2019.
 - "Planning Practice Guidance to the National Planning Policy Framework" (PPG: DCLG, March 2014.
 - "Flood Risk and Coastal Change, Planning Practice Guidance" (NPPG), DCLG / Department for the Environment Food and Rural Affairs (DEFRA), 6th March 2014.
 - "Development and Flood Risk: A Practice Guide Companion to PPS25" (PPS25pg), DCLG, February 2009.
 - "Groundwater Protection Position Statements", EA, March 2018.
 - Landfill Developments: Groundwater Risk Assessment for Leachate (https://www.gov.uk/guidance/landfill-developments-groundwater-risk-assessment-for-leachate).
 - "Additional guidance for hydrogeological risk assessments for landfills and the derivation of groundwater control levels and compliance limits", EA Horizontal Guidance Note H1 – Annex J3, Version 2.1, December 2011³.

³ Now withdrawn; referenced for specific technical guidance only.

- "Hydrogeological Risk Assessments for Landfills and the Derivation of Groundwater Control and Trigger Levels" (LFTGN01), EA, March 2003⁴.
- "Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water" (LFTGN02), EA, February 2003⁴.
- "Techniques for the Interpretation of Landfill Monitoring Data" (Guidance Notes), EA Final technical report P1-471, 2002.

1.5 Data Sources

^{1.5.1} Published and site-specific data sources, together with assessment and calculation methodologies referenced by HRA are listed at *appendix 1*.

1.6 Report Structure

- ^{1.6.1} Baseline characterisation of the topography, geology, hydrology and hydrogeology of the Site area, is presented at *section 2*, concluding with a CHM of the extant water environment, as presented at *section 3*.
- 1.6.2 An account of the Recovery Operation design, including working methods, depths, and elevations to apply during infilling, is given at *section 4*.
- ^{1.6.3} The Conceptual Site Model (CSM), derived in accordance with the Source, Pathway, Receptor (SPR) risk assessment methodology for the Recovery Operation is presented at *section 5*.
- ^{1.6.4} Parameter selection, numerical assessment results and sensitivity analysis are described and discussed for the Recovery Operation at *section 6*.
- ^{1.6.5} Control and compliance values are discussed and derived at *section 7*, together with specifications for frequency and scope of groundwater quality monitoring and contingency actions to apply concurrent with the operation and restoration of the Recovery Operation.
- 1.6.6 Report conclusions are presented at *section 8*.

⁴ No longer referenced by current guidance. Referred to here for details of specific technical methodologies where current guidance provides no alternatives.

2 THE SITE

2.1 Site Location

The Site location is shown at *figure 1*.

- ^{2.1.2} The National Grid Reference (NGR) for the approximate centre of the Site is ⁵6491, ¹5932, as situated c.1.3 kilometres (km) north-east of the village of Wrotham Heath, between the village of Addington to the south west and Trottiscliffe to the north.
- ^{2.1.3} The southern boundary of the main quarry void immediately abuts the M20 Motorway close to its junction with the M26.

2.2 Land Use and Topography

- The district is semi-rural, with numerous small towns and villages in close proximity set within a broader landscape of pastoral and arable agriculture.
- Areas of woodland are also present which are occasionally extensive, such as Mereworth Woods to the south of the Site.
- ^{2.2.3} The Site is situated within a west to east oriented valley, drained locally by the Addington Brook and regionally by the River Medway.
- Ground elevations across the region generally fall from the Chalk escarpment present to the north west, to a west to east oriented valley, drained locally by the Addington Brook and regionally by the River Medway, to the south east.
- The Site is located on the northern flanks of this valley, adjacent ground levels falling from some 69maOD on its north western boundary, to some 48maOD on its south eastern boundary (areas of mineral extraction being excavated to lower elevation).

2.3 Site Layout and Composition

- ^{2.3.1} The Site comprises 3 no. principal areas, as at *figure 1*:
 - The Southern Quarry: An area of mineral extraction amounting to c.14.2 hectares (ha) situated to the south of the M20 Motorway, linked by a tunnel beneath the motorway to;
 - The Main Quarry: An former mineral extraction void (restored at western extent) used for processing, stockpiling and off-site sale, maintenance, office and welfare facilities; amounting to c.35ha situated between the M20 Motorway and Addington Lane, to be linked by tunnel to;
 - The North-Eastern Extension: Recently permitted for mineral extraction and restoration by infilling with imported inert waste materials and occupying a consented area of c.7.3ha.
- ^{2.3.2} The Recovery Operation is to focus upon the north western limit of the Main Quarry.

2.4 Ecological Designations

2.4.1 Statutorily Protected Sites of Ecological Importance

^{2.4.1.1} The locations of statutorily protected sites local to the Site are shown at *figure 2*, outline details for which are given below at *table 1*.

| Table 1 Statutorily Protected Sites | | | | | | | | | | |
|--|---|-------------|---------------------|--|--|--|--|--|--|--|
| Site Name | Distance* from Proposed Development (km) | Designation | Summary Description | | | | | | | |
| Trottiscliffe Meadows SSSI | 20m north | SSSI | Unimproved Meadows | | | | | | | |
| Halling to Trottiscliffe Escarpment SSSI1.5km north-westSSSIChalk Grassland and Beech Woodland | | | | | | | | | | |
| *-at shortest distance from the Recovery Operation | | | | | | | | | | |

^{2.4.1.2} The Site is additionally located within the Kent Downs Area of Outstanding Natural Beauty (AONB).

2.4.2 Non-Designated Sites of Ecological Importance

^{2.4.2.1} The 2020 H&HIA identified 2 no. Local Wildlife Sites (LWS) in relative proximity to the Site, this including the Orchards Woods Pasture Trottiscliffe LWS (as abutting the western boundary of the Main Quarry), and the Ryarsh Woods LWS (as present in relative proximity to the north eastern boundary of the North-Eastern Extension). These features comprise pasteur and woodland habitats.

2.5 Geological Setting

2.5.1 Background

- ^{2.5.1.1} Information concerning the geology of the Site and its surroundings has been obtained from:
 - BGS publications.
 - Geological & Hydrogeological reports made in support of planning applications within and in the vicinity of the Site.
 - Site Mineral evaluation / piezometer installation drilling and trial pit logs (*appendix* 2).

2.5.2 Regional Geology

Stratigraphy

- ^{2.5.2.1} The geology of the region is illustrated at *figures 3* (Solid) and 4 (drift).
- ^{2.5.2.2} The geology of the region comprises a variety of thin superficial drift deposits overlying solid geological strata of chalk, greensands and clays.
- 2.5.2.3 The stratigraphy of the region presented below at *table 2*.

| Table 2 | ole 2 Stratigraphic Sequence | | | | | | | | | |
|---------------------------|------------------------------|-----------------|---|--|--|--|--|--|--|--|
| Age | Group | Formation | Lithology | | | | | | | |
| p | Alluvium | | River Derived Alluvium | | | | | | | |
| tocene an Recent | Terrace Deposits | | Sands and Gravels | | | | | | | |
| Pleistocene and Recent | Head | | Miscellaneous | | | | | | | |
| ē. | Clay with Flints | | Clay and Flints | | | | | | | |
| | Upper Chalk | | White chalk with flint beds, nodular chalks, marl beds and hard grounds | | | | | | | |
| ceous | Middle Chalk | | White pure chalk with some flint seams and very shelly beds | | | | | | | |
| Upper Cretaceous | Lower Chalk | | Grey marly chalk without flints | | | | | | | |
| Uppel | Upper Greensand | | Sand and sandstone, fine grained, silt, glauconitic, shelly | | | | | | | |
| | Gault | | Pale to dark blue or blue grey clay or mudstone, glauconitic in parts, with | | | | | | | |
| | Lower Greensand Group | Folkestone Beds | Medium and coarse-grained, well- sorted cross bedded sands and weakly | | | | | | | |
| ceous | | Sandgate Beds | Fine sands, silts and silty clays, commonly glauconitic, some sands | | | | | | | |
| Lower Cretaceous | | Hythe Beds | Alternating sandy limestones (ragstone) and glauconitic sandy | | | | | | | |
| Lowel | | Atherfield Clay | Massive yellowish brown to pale gray sandy mudstone. With pebble beds, | | | | | | | |
| | Wealden Group | Weald Clay | Dark grey thinly-bedded mudstones (shales) and mudstones with | | | | | | | |

Drift Geology

- 2.5.2.4 The drift geology of the region mainly comprises head deposits discontinuously overlying the Hythe Beds.
- 2.5.2.5 Narrow ribbons of Alluvium have been deposited by riverine processes, and are present in association with local surface watercourses.
- ^{2.5.2.6} Clay with Flints, generally associated with outcrops of the Chalk sequence, are present within the north of the region; this superficial cover is not present in the valley to the south of the ridgeline, and thus absent in the vicinity of the Site.
- Extensive drift deposits of clay are present overlying the Chalk sequence in the north of the district at the ridge and to the north of the Kent Downs.
- ^{2.5.2.8} Head deposits are present within the valley, and are mainly associated with outcrop of the Hythe Beds (Lower Greensand Group), but are of limited extent and distribution.
- ^{2.5.2.9} Further head deposits are seen to occur overlying the Folkestone Beds to the east of the Site, but do not infringe on the Site itself.

Solid Geology

^{2.5.2.10} The local solid strata form part of the northwards dipping southern outcrop belt of the London Basin; the dipping sequence continuing for many kilometres northwards and north-westwards at depth beneath the Capital.

- ^{2.5.2.11} The northward dip of the strata produces an outcrop sequence that becomes older in a notional traverse from north to south across the area.
- ^{2.5.2.12} The youngest strata of the region are the Upper, Middle and Lower Chalks which are present at outcrop to the north of the Site where they form the pronounced and west to east oriented escarpment of the Kent Downs.
- As part of the London Basin, the dipping Chalk sequence becomes progressively then completely buried northwards away from the Site, eventually outcropping again many tens of kilometres to the north where it forms the core of the Chiltern Hills.
- ^{2.5.2.14} The Chalk is underlain by the Gault Clay (GC), the local southern outcrop limit of which borders the northern Site boundary (the clay having been stripped as part of historical works to facilitate quarrying of the underlying economic mineral).
- ^{2.5.2.15} The GC thickens northwards with its downward dip to attain c.68m to c.100m at its full vertical extent; to the north of the Site the clay becomes entirely concealed beneath overlying Lower Greensand and Chalk Group strata.
- ^{2.5.2.16} The GC comprises pale to dark grey or blue-grey clay or mudstone which is glauconitic in part and with a sandy base.
- ^{2.5.2.17} The GC is directly underlain by the Folkestone Beds (FB) which comprises medium and coarse-grained, well-sorted cross-bedded unconsolidated sands and weakly cemented sandstones which constitute the economic mineral quarried at the Site.
- ^{2.5.2.18} In accord with the regional structure the FB in vicinity of the Site dips northwards at approximately 11^{o,} presenting as a narrow east to west oriented outcrop belt that gives way at outcrop northwards to progressively younger strata.
- ^{2.5.2.19} The FB thins out to the south of the Site, giving way at outcrop to fine sands, silts and clays (commonly glauconitic with some limonitic or calcareous sands and some soft sandstones) of the underlying Sandgate Beds (SB) which ranges in thickness from c.0.5m to c.6m within the region.
- ^{2.5.2.20} The relatively thin SB separates the FB from the underlying Hythe Beds (HB) which are present at outcrop for a considerable distance to the south of the Site.
- ^{2.5.2.21} The HB comprises c.60m of interbedded sandy limestone (known as Ragstone), and sandy mudstones (Hassock).
- ^{2.5.2.22} The base of the HB (and thus of the Lower Greensand Group), is marked by the underlying Atherfield Clay (AC), which attains a local thickness of c.9m to c.15m and separates the Lower Greensand from the underlying Weald Clay (up to c.335m thick) which extends some distance to the south of the area.
- ^{2.5.2.23} The geological maps do not indicate the presence of significant faulting in the vicinity of the Site.

2.5.3 Local Geology

^{2.5.3.1} Site specific and third-party drilling logs have been combined to allow description of the geology of the Site.



- The Site features 0-2m of topsoil overlying theGC, this locally forming a stiff grey clay. Thickness ranges from some 30m to 2.3m where not fully removed by historic mineral extraction, this thinning to the south and east in line with the regional sequence (*figure* 5). The base of the GC ranges from some 50.2maOD to some 4.4maOD, and is generally expected to fall from south east to north west, though is locally more variable, partly due to the influence of historic mineral extraction, as at *figure* 6.
- ^{2.5.3.3} The GC is underlain by the FB, this locally comprising orange / brown medium to fine sands, ranging in thickness from some 58m to 30m, generally thinning to the south and east, and being thinnest across the Site centre (*figure 7*). The base of the FB ranges from some 30maOD to some 2.3maOD, falling to the north and east, in line with the expected geological sequence (*figure 8*).
- The FB is underlain by the SB, locally in the form of 4m 0.8m (thinning to the north and east as at *figure 9*) of clays. The base of the SB again falls from south east to north west, ranging from some 24.24maOD to some 1.54maOD, as at *figure 10*.
- The SB are in turn underlain by the sandy limestones and sandy mudstones of the HB, this ranging from some 16 to 18m thickness as at *figure 11*, thinning to the south east. The base of the HB again falls from north west to south east, at some -16.6maOD 8.6maOD, as at *figure 12*.
- ^{2.5.3.6} The HB are underlain by the stiff clays of the AC, the full thickness of which has not been locally proven (expected thickness of some 10m).

2.6 Hydrological Setting

2.6.1 Background

- ^{2.6.1.1} Information concerning the hydrology of the Study Area has been obtained from:
 - OS digital mapping.
 - EA digital mapping.
 - FEH data-sets.
 - Water Features Surveying undertaken by BCL.

2.6.2 Catchments

^{2.6.2.1} The Site locality is entirely within the catchment of the River Medway, the Site itself falling within the Addington Brook sub-catchment, this draining to the River Medway via its tributary, the Leybourne Stream (also locally referred to as the Addington brook).

2.6.3 Surface Watercourses

^{2.6.3.1} The surface watercourses of the region are illustrated at *figure 1*.

Major Surface Watercourses

^{2.6.3.2} The River Medway forms and EA designated 'Main River', this rising in East Sussex, before generally flowing northwards and eastwards, then discharging to the North Sea via the Thames Estuary.



Minor Surface Watercourses

- ^{2.6.3.3} The Leybourne Stream forms an Ordinary Watercourse (OWC), this rising some 2km to the south and east of the Site at Park Farm, before flowing eastwards, passing 0.8km to the south of the Recovery Operation, before meeting the Medway at Snodland.
- ^{2.6.3.4} The Addington Brook also forms an OWC, this rising 0.8km to the north of the Site to the east of Trottiscliffe, before flowing southwards, passing between the Main Quarry and North Eastern Extension, and flowing to the Leybourne Stream some 0.3km to the south east of the Southern Site.
- ^{2.6.3.5} The Addington Brook features a western branch, this rising to the south and west of Trottiscliffe, before flowing southwards and eastwards, passing to the immediate north of the Main Quarry (around which it has historically been diverted), then joining the main Addington Brook channel between the Main Quarry and North-Eastern Extension.
- ^{2.6.3.6} The upper reaches of the Addington Brook are perched upon GC outcrop, likely being fed by springflow from the base of the Chalk escarpment to the north. The lower reaches of this watercourse, and of the Leybourne Stream, are located upon Greensand outcrop, with which a degree of hydraulic continuity is anticipated.

2.6.4 Surface Waterbodies

- ^{2.6.4.1} The local area features a number of surface waterbodies. Those to the north and west of the Site are typically perched upon GC, with those to the south and east typically being present in association with local watercourses.
- ^{2.6.4.2} The closest such feature to the Site (excluding water features forming part of the Site water management system) is a circa 24,000m² lined reservoir present to the immediate west of the Main Quarry (The Trosley Resevoir).

2.6.5 Flooding

^{2.6.5.1} Consultation of flood risk mapping for the Site location⁵ confirms the Site to be entirely located within Flood Risk Zone 1 (FRZ1), the lowest risk class of FRZ, with a fluvial flood risk of 1 in 1,000 or less frequent in any given year. Areas of greater risk (FRZ2/3) are seen to be present upon the course of the Leybourne Stream.

2.7 Meteorological Setting

2.7.1 Background

- ^{2.7.1.1} Information concerning the meteorology of the Study Area has been obtained from:
 - Published and third party historic data sources.

⁵

Gov.UK Flood Map For Planning (WWW), 2022.

2.7.2 Long Term Area Averages

^{2.7.2.1} The Standard Average Annual Rainfall (SAAR 1961 to 1990) reported by the FEH⁶ is 711mm. Long-term average monthly rainfall data⁷ are given below at *table 3*.

| Table 3 Area Long Term Average Monthly Rainfall and Potential Transpiration | | | | | | | | | | | | | |
|---|-----|-----|----|-----|----|-----|-----|-----|-----|-----|----|-----|-----|
| | Jan | Feb | Ma | Apr | Ma | Jun | Jul | Aug | Sep | Oct | No | Dec | Tot |
| | | | r | | У | | | | | | v | | |
| Area Average Rainfall | 65 | 50 | 46 | 45 | 52 | 48 | 58 | 66 | 62 | 67 | 81 | 70 | 711 |
| Potential Evaporation | 1 | 9 | 33 | 56 | 81 | 100 | 98 | 79 | 50 | 20 | 5 | 0 | 532 |

2.7.3 Effective Rainfall

- ^{2.7.3.1} The available rainfall data has been utilised to derive estimates for monthly effective rainfall for vegetated surfaces, bare ground and open water, using the methods of Grindley⁸ and EA R&D Handbook W6-043/HBRef.13⁹ as presented below at *table 4*.
- 2.7.3.2 Effective rainfall is estimated at 286.1mm/a for bare ground, 214.4mm/a for permanent grassland and 85.5mm/a for open water.

| Table 4 Derivation of Effective Rainfall for Differing Surfaces | | | | | | | | | | | | | |
|---|----------|----------|-------|-------|-------|-----------|-----------|-----------|-------|-------|-------|------|-------|
| Bare Earth (rc = 0mm) | | | | | | | | | | | | | |
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
| Rf | 65 | 50 | 46 | 45 | 52 | 48 | 58 | 66 | 62 | 67 | 81 | 70 | 711 |
| Ре | 1 | 9 | 33 | 56 | 81 | 100 | 98 | 79 | 50 | 20 | 5 | 0 | 532 |
| rf-Pe | 64.4 | 41.1 | 13.0 | -11.1 | -28.9 | -52.0 | -39.8 | -12.6 | 12.3 | 47.4 | 75.7 | 69.5 | 179.0 |
| dPsmd | 0.0 | 0.0 | 0.0 | 11.1 | 28.9 | 52.0 | 39.8 | 12.6 | -12.3 | -25.7 | 0.0 | 0.0 | |
| dAsmd | 0.0 | 0.0 | 0.0 | 11.1 | 20.9 | 7.0 | 0.5 | -1.5 | -13.0 | -25.0 | 0.0 | 0.0 | |
| Asmd | 0.0 | 0.0 | 0.0 | 11.1 | 40.0 | 84.0 | 78.8 | 52.1 | 25.7 | 0.0 | 0.0 | 0.0 | 291.7 |
| Psmd | 0.0 | 0.0 | 0.0 | 11.1 | 32.0 | 39.0 | 39.5 | 38.0 | 25.0 | 0.0 | 0.0 | 0.0 | 184.6 |
| Ae | 1.0 | 9.0 | 33.0 | 56.0 | 73.0 | 55.0 | 58.7 | 64.9 | 49.3 | 20.0 | 5.0 | 0.0 | 424.9 |
| ERF | 64.4 | 41.1 | 13.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 22.4 | 75.7 | 69.5 | 286.1 |
| Permanent | Grasslar | nd (rc = | 75mm) | | | | | | | | | | |
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
| Rf | 65 | 50 | 46 | 45 | 52 | 48 | 58 | 66 | 62 | 67 | 81 | 70 | 711 |
| Ре | 1 | 9 | 33 | 56 | 81 | 100 | 98 | 79 | 50 | 20 | 5 | 0 | 532 |
| rf-Pe | 64.4 | 41.1 | 13.0 | -11.1 | -28.9 | -52.0 | -39.8 | -12.6 | 12.3 | 47.4 | 75.7 | 69.5 | 179.0 |
| dPsmd | 0.0 | 0.0 | 0.0 | 11.1 | 28.9 | 52.0 | 39.8 | 12.6 | -12.3 | -47.4 | -49.3 | 0.0 | |
| dAsmd | 0.0 | 0.0 | 0.0 | 11.1 | 28.9 | 52.0 | 19.0 | -2.0 | -12.3 | -47.4 | -49.3 | 0.0 | |
| Asmd | 0.0 | 0.0 | 0.0 | 11.1 | 40.0 | 92.0 | 131. 8 | 123. 6 | 96.7 | 49.3 | 0.0 | 0.0 | 544.5 |
| Psmd | 0.0 | 0.0 | 0.0 | 11.1 | 40.0 | 92.0 | 111. 0 | 109. 0 | 96.7 | 49.3 | 0.0 | 0.0 | 509.1 |
| Ae | 1.0 | 9.0 | 33.0 | 56.0 | 81.0 | 100. 0 | 77.2 | 64.4 | 50.0 | 20.0 | 5.0 | 0.0 | 496.6 |
| ERF | 64.4 | 41.1 | 13.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 26.4 | 69.5 | 214.4 |
| Open Water | | | | | | | | | | | | | |
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
| Correction | 1.4 | 1.1 | 0.9 | 1.0 | 0.9 | 1.0 | 1.2 | 1.4 | 1.5 | 2.0 | 2.3 | 2.0 | |
| Constants | | | | | | | | | | | | | |
| Ae | 1.4 | 10.3 | 30.4 | 53.2 | 73.7 | 102. 0 | 121. 5 | 108. 2 | 73.5 | 39.8 | 11.5 | 0.0 | 625.5 |
| ERF | 64.0 | 39.8 | 15.6 | -8.3 | -21.6 | -54.0 | -63.3 | -41.8 | -11.2 | 27.6 | 69.3 | 69.5 | 85.5 |

^{6 &}quot;Flood Estimation Handbook CD-ROM, Version 3.0", Centre for Ecology & Hydrology (CEH; formerly the Institute of Hydrology), 2009 and successor web-service.

^{7 &}quot;Climate & Drainage", Technical Bulletin No. 34, Ministry of Agriculture Fisheries & Food (MAFF), September 1976.

^{8 &}quot;The Calculation of Actual Evaporation and Soil Moisture Deficit over Specified Catchment Areas", Grindley J, November 1969, Hydrological Memorandum 38, Meteorological Office, Bracknell, UK.

^{9 &}quot;Estimation of Open Water Evaporation, Guidance for Environment Agency Practitioners", R&D Handbook W6-043/HB, Finch JW and Hall RL, October 2001.

rc: Root Constant, Rf: Rainfall, Pe: Potential Evaporation, Psmd: Potential Soil Moisture Deficit. Asmd: Actual Soil Moisture Deficit, Ae: Actual Evaporation, ERF: Effective Rainfall. All units other than correction constants are millimetres.

Note: Estimates of effective rainfall for bare earth and grassland cover are identical due to the preponderance of rainfall over evapotranspiratton in the area which militates against the development of significant SMD during average climatic years.

2.8 Hydrogeological Setting

2.8.1 Background

- ^{2.8.1.1} The hydrogeological regime of the Site and surrounding area has been elucidated on the basis of:
 - Review of published geological and hydrogeological data.
 - Review of hydrogeological study reports prepared in support of planning applications for quarrying and water resource developments in the area.
 - Groundwater level measurements made within observation piezometers at the Site and within the surrounding area operated by Ferns.
 - Groundwater quality data for Site piezometers.
 - Experience of similar hydrogeological terrains elsewhere within England.

2.8.2 Aquifer Classification

- ^{2.8.2.1} The GC is classified as 'Unproductive Strata', defined as layers with negligible aquifer properties, primarily functioning as aquicludes (barriers to groundwater movement / infiltration).
- ^{2.8.2.2} The FB and HB are classified as 'Principal Aquifers', defined as higher permeability layers of strategic importance for water supply / surface water baseflow.
- ^{2.8.2.3} The SB are classified as a 'Secondary A Aquifer', these being units that feature minor aquifer properties of importance at the local scale only.

2.8.3 Groundwater Flow Mechanism

- ^{2.8.3.1} Where present, the GC forms an aquiclude, this forming a barrier to groundwater flow and infiltration at the regional scale.
- ^{2.8.3.2} The FB and underlying HB Aquifers (the Lower Greensand Aquifer, LGA) comprise a largely homogenous classical granular aquifer in which groundwater flow is assumed to approximate to that described by Darcy¹⁰ (*i.e.* intergranular non turbulent flow). Where the overlying GC is absent, recharge to the LGA is assumed to be rapid, vertical, and autogenic (derived within its own distribution). The LGA is locally unconfined, though is expected to become confined by the GC to the north and east of the Site.
- ^{2.8.3.3} Vertical anisotropy is present within the LGA, both due to the differing geology of its constituent units, and the presence of the clays of the SB, as intervening between the FB and HB. The SB are expected to function as an aquitard, though due to its limited thickness and variable properties, this is expected to be leaky (thus offering partial sub-

¹⁰ "Les Fontaines Publiques de la Ville de Dijon" (The Public Fountains of the City of Dijon), Darcy H, Dalmont, Paris, 1856.



division of the LGA into upper and lower aquifer units, forming the FB Aquifer and HB Aquifer respectively). This function is evidenced as:

- The Hythe Beds and Folkestone Beds rarely share the same piezometric surface; suggesting hydraulic separation.
- The groundwater contained within the Hythe Beds and Folkestone Beds have distinct chemical characteristics, often markedly-so, again pointing to some degree of hydraulic separation.
- Latter-day public water supply borehole drilling has preferentially targeted the deeper Hythe Beds (by casing-out the overlying Folkestone Beds). It is presumed that the significant additional expenditure incurred is justified by informed expectation of advantageous groundwater conditions at depth (*i.e.* that the Sandgate Beds provide a barrier to the downward migration of potential surface pollutants); again suggesting hydraulic separation.
- ^{2.8.3.4} The AC is expected to form a further regional aquiclude, hydraulically isolating the LGA from underlying strata.

2.8.4 Aquifer Boundaries

Aquifer Vertical Boundaries

- ^{2.8.4.1} The LGA is locally unconfined, its upper boundary being formed by ground surface.
- 2.8.4.2 The base of the LGA is formed by the AC aquiclude.

Aquifer Lateral Boundaries

2.8.4.3 The LGA are laterally continuous across the region, and are thus considered of effectively unlimited extent at the scale of interest.

Aquifer Internal Boundaries

^{2.8.4.4} The SB form an internal subdivision of the LGA, thus forming a partial internal boundary to vertical groundwater movement and separating the FB Aquifer and HB Aquifer.

2.8.5 Groundwater Occurrence and Levels

The Available Data

- ^{2.8.5.1} Information regarding groundwater levels within the LGA in the vicinity of the Site have been taken from:
 - Groundwater level data for piezometers installed within the LGA at the Site (construction details included at *appendix 2*).
 - Previous hydrogeological assessment of the Site.
- ^{2.8.5.2} Details of available data sources are presented at *table 5* below, with locations as at *figure 13*.

| Table 5 Groundwater Level Data Sources | | | | | | | | | | |
|--|-----------------------------------|-------------|---|--|--|--|--|--|--|--|
| Designation | Series | Data Record | Note | | | | | | | |
| P3C | Original Series (date unknown) | 2016-2018 | Inactive, construction unknown, recorded elevations do not indicate recording of FB Aquifer saturated zone (assumed blocked / insufficient completion depth). | | | | | | | |
| PZ5 | 2011 Series Piezometer | 2011-2021 | Active. Partially penetrating FB Aquifer. | | | | | | | |
| PZ6 | | | | | | | | | | |
| PZ7 | | | | | | | | | | |
| PZ8 | | | | | | | | | | |
| PZ1-21 | 2021 Series Piezometers | 2021 | Active. Completed to base of FB | | | | | | | |
| PZ2-21 | | | Aquifer. | | | | | | | |
| PZ3-21 | | | Active. Partially penetrating FB Aquifer. | | | | | | | |
| PZ4-21 | | | Active. Completed to base of FB Aquifer. | | | | | | | |

Temporal Groundwater Level Variation

- 2.8.5.3 The available data is presented as a hydrograph at *figure 14*.
- ^{2.8.5.4} The historic data for the 2011 series piezometers demonstrates a subdued response to intra-annual change and negligible response to individual rainfall events, a slow but sustained inter-annual response of limited magnitude is observed. This is considered typical of regionally distributed and relatively permeable aquifers as present at the Site.
- ^{2.8.5.5} Though of more limited duration, data for the 2021 piezometers, as located in and around the Recovery Operation, agrees well with the wider data set, and is considered representative of FB Aquifer conditions observed more widely over the past several years. The 2011 dataset however implies that minimum heads recorded at the 2021 piezometers may not be representative of the groundwater system over longer duration.

Estimated Groundwater Elevations

- ^{2.8.5.6} The available data (excluding P3C) has been used to create interpolated contour plots estimating groundwater elevations across the Site under minimum, maximum and average observed conditions, as at *figures 15, 16* and *17* respectively.
- ^{2.85.7} Under minimum conditions, groundwater elevations across the Site are seen to fall generally to the north and east in line with the dip of the regional geological sequence (and thus expected trend), though with a radial flow component to both the north east and north west, this being in line with the fall of the base of the FB, as at *figure 8*. A hydraulic gradient of some 0.006 is observed across the Recovery Operation, with a north easterly flow vector prevailing, heads ranging from some 36.7maOD to 34.2maOD.
- ^{2.8.5.8} Under maximum conditions, a similar head distribution and thus flow direction is observed, this with a comparable hydraulic gradient across the Recovery Operation, heads ranging from some 36.9maOD to 34.7maOD.

- ^{2.85.9} Under average conditions, a similar head distribution and thus flow direction is again observed, this with also at comparable hydraulic gradient across the Recovery Operation, heads ranging from some 36.8maOD to 34.4maOD.
- ^{2.8.5.10} These findings update and largely corroborate the findings of the 2020 H&HIA, which further details the wider regional context, groundwaters within the LGA flowing down dip towards the centre of the London Basin.
- ^{2.8.5.11} The continuous nature and extensive duration of monitoring data for the Site means that any influence on groundwater levels induced by nearby third-party abstraction is already reflected within the data. This is expected to feature to some degree in association with the Trosley public water supply abstraction present to the west o the Recovery Operation.

Unsaturated Thickness

- ^{2.8.5.12} Ground elevation data has been combined with groundwater elevation data to produce interpolated contour plots estimating unsaturated thickness within the FB Aquifer, under minimum and maximum groundwater elevations (as at *figures 18* and *19* respectively).
- ^{2.8.5.13} Under minimum groundwater levels, unsaturated thickness is seen to range from some 1.3m to 64m (1.3m to 25m within the extent of the Recovery Operation). The observed distribution is heavily influenced by historic mineral extraction, unsaturated thicknesses being reduced accordingly within the Main Quarry.
- ^{2.8.5.14} Under maximum groundwater levels, a similar distribution is observed, with unsaturated thickness ranging from some 1m to 44m (1m to 24m within the extent of the Recovery Operation).

Saturated Thickness

- ^{2.8.5.15} Data regrading the base of the FB (*figure 8*) has been combined with groundwater elevation data to produce interpolated contour plots estimating saturated thickness within the FB Aquifer, under minimum and maximum groundwater elevations (as at *figures 20* and *21* respectively).
- ^{2.8.5.16} Under minimum groundwater levels, saturated thickness is seen to range from some 6m to 19.5m (7.5m to 18.3m, falling westwards within the extent of the Recovery Operation). A similar distribution is observed under maximum groundwater elevations, ranging from some 7.5m to 20.5m (8m to 19m within the extent of the Recovery Operation).

2.8.6 Aquifer Parameters

- ^{2.8.6.1} Aquifer parameters describe the rate at which groundwater may be transmitted through a rock body (hydraulic conductivity / transmissivity) and the water storage potential of the system (storage).
- ^{2.8.6.2} These parameters are generally established from field-testing, by way of pumped abstraction from a borehole or boreholes and the concurrent measurement of groundwater response to that pumping in adjacent or nearby observation boreholes.

- ^{2.8.6.3} Published¹¹ results of pumping test analysis and laboratory from 40-no. aquifer test pumping locations within the LGA of southeast England have been reviewed; as many boreholes penetrate and draw supply from both the Hythe and Folkestone formations, the majority of available information is presented for the Lower Greensand as a whole.
- ^{2.8.6.4} Reported transmissivity values for the LGA range from $33m^2/d$ to $3,400m^2/d$ with a mean of $270m^2/d$ and 25^{th} and 75^{th} percentiles of $140m^2/d$ and $500m^2/d$ respectively; the data shows a mean transmissivity of $260m^2/d$ where attributed to the Folkestone Beds and $310m^2/d$ where attributed to the Hythe Beds.
- ^{2.8.6.5} Hydraulic Conductivity (K) of the LGA is reported within the range of $1x10^{-4}$ m/d to 10m/d, with a mean value of 0.46m/d and reported storage coefficient values for the range between $1x10^{-5}$ and 0.08 with a mean of $6x10^{-4}$.

2.9 Water Resources Setting

2.9.1 Water Abstractions

Licenced Abstractions

- ^{2.9.1.1} Data has been obtained from the EA summarising licensed abstractions situated within a 6km radius of the Site; in addition, SEW have provided locational information for their public water supply abstractions, together with the locations of key monitoring piezometers employed for drought indication.
- ^{2.9.1.2} The data that has been made available is tabulated at *table 6*, with locations as at *figure 22*.

| Table 6 Lice | Table 6 Licenced Abstractions | | | | | | | | |
|---------------------|-------------------------------|---------|-----------------|-------------|----------|----------------------------------|--|--|--|
| Ref (<i>figure</i> | Easting | Northin | Licence No. | Holder | Source | Use | | | |
| 22) | | g | | | | | | | |
| A | 564025 | 159571 | 9/40/02/0220/G | South East | GW | | | | |
| В | 564019 | 159557 | | Water Ltd | | | | | |
| С | 564000 | 159172 | | | | | | | |
| D | 564137 | 159456 | | | | | | | |
| E | 563768 | 159106 | | | | | | | |
| F | 563824 | 159296 | | | | Potable Water Supply - Direct | | | |
| G | 563992 | 159663 | | | | | | | |
| Н | 563085 | 159659 | | | | | | | |
| I | 566631 | 160668 | | | | | | | |
| J | 566494 | 161134 | | | | | | | |
| К | 561375 | 157960 | | | | | | | |
| L | 561467 | 157946 | | | | | | | |
| М | 568392 | 162126 | | | | | | | |
| N | 566699 | 160440 | 9/40/02/0257/G | | | | | | |
| 0 | 562486 | 158641 | | | | | | | |
| Р | 560676 | 162895 | 9/40/01/0146/GR | | | | | | |
| Q | 565200 | 159370 | 01/117 | Ferns Group | Group GW | N Aimenal NA (a ala in a | | | |
| R | 566000 | 159400 | 9/40/02/0214/S | | SW | Mineral Washing | | | |

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[&]quot;Baseline Report Series: 9: The Lower Greensand of Southern England", BGS & EA, Technical Report NC/99/74/9, P Shand, J Cobbing, R Tyler-Whittle, A F Tooth & A Lancaster, 2003.

| S | 566000 | 159400 | 9/40/02/0020/SR | | | General Washing/Process Washing | | |
|------------|------------------------------------|--------|-----------------|-----------------------|----|--|--|--|
| Т | 570300 | 161200 | 9/40/02/0110/GR | Townsend Hook Ltd | GW | | | |
| U | 569610 | 160330 | | | GW | Process Water | | |
| V | 560340 | 159030 | 9/40/03/0333/GR | St. Clere Estate | GW | Spray Irrigation - Direct | | |
| W | 559320 | 157020 | 9/40/03/0582/G | Mr SH Chesson | GW | Spray Irrigation - Direct | | |
| X | 564960 | 153700 | 02/116 | Mr PHF Wooldridge | SW | General Farming & Domestic | | |
| Y | 564960 | 153700 | 02/120 | | | Spray Irrigation - Storage | | |
| Z | 570590 | 157900 | 9/40/02/0001/SR | Mr Nigel Osborne | SW | Spray Irrigation - Direct | | |
| AA | 569300 | 159620 | 9/40/02/0117/SR | Smurfit UK Ltd | SW | General Use Relating to Secondary Category (Low Loss) | | |
| AB | 569420 | 160100 | | | | | | |
| AC | 560610 | 155530 | 9/40/03/0056/SR | Mr PJ Fermor | SW | Spray Irrigation - Direct | | |
| AD | 562320 | 153860 | 9/40/03/0058/SR | Fairlawne Estate | SW | Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household | | |
| AE | 561210 | 155040 | 9/40/03/0224/SR | FE Whitehead & Son | SW | Spray Irrigation – Direct | | |
| GW: Ground | GW: Groundwater, SW: Surface Water | | | | | | | |

- 2.9.1.3 Abstractions A to H constitute SEW's Trosley groundwater sources: geological logs for abstractions C, D and E show borehole depths ranging from c.74m to c.100m, with wellscreens being present through the Folkestone Beds and Hythe Beds, whilst abstraction F is shallower at c.53m and is atypical for this group in that the well-screen is located solely in the Hythe Beds.
- ^{2.9.1.4} Abstractions I, J and N constitute SEW's Ryarsh groundwater sources; geological logs for abstractions I and J indicate borehole depths of c.90m and c.73m respectively, with well-screens being present through the Folkestone Beds and Hythe Beds.
- 2.9.1.5 Abstraction Q, made from an unlined groundwater pond, is operated by FG, being situated within the plant site of the Main Quarry Area.

De-regulated Abstractions

^{2.9.1.6} A request was made to Kent County Council for details of deregulated (unlicensed) abstractions with the area of the Site who have reported that they do not maintain such a data-base. None of the property owners contacted during water features surveying volunteered the existence of a deregulated private supply.

2.9.2 Source Protection Zones

- 2.9.2.1 Source Protection Zones (SPZs) local to the Site are presented at *figure 23*, with definitions as below:
 - SPZ1 (Inner Zone) is defined as the 50 day travel time from any point below the water table to the protected abstraction source (*e.g.* public water supply well) and has a minimum radius of 50 metres.
 - SPZ1c (Inner zone: Subsurface Activity Only) extends SPZ1 where the aquifer is confined and may be impacted by activities such as deep drilling, mining or quarrying.



- SPZ2 (Outer Zone) is defined by a 400-day travel time from a point below the water table to the protected abstraction source and has a minimum radius of 250 or 500 metres around the source, depending on the size of the abstraction.
- SPZ2c (Outer zone: Subsurface Activity Only) extends SPZ2 where the aquifer is confined and may be impacted by activities such as deep drilling, mining or quarrying.
- SPZ3 (Total Catchment) is defined as the area around a protected abstraction source within which all groundwater recharge is presumed to be discharged at the source.
- SPZ4 (Special Interest) is defined as areas where local conditions require additional protection.
- ^{2.9.2.2} The footprint of the Recovery Operation spans areas mapped by the EA as SPZ1, SPZ1c, SPZ2, SPZ3 and SPZ4. These designations are considered to relate to SEW's public water supply abstractions A to H, *table 6*. This is with the exception of SPZ3, this being applied across much of the LGA outcrop area, and thus representing multiple local abstractions.
- ^{2.9.2.3} In reality, due to the stripping of Gault Clay as part of quarrying of Folkestone Sands at the Site, the entirety of the Recovery Operation that is mapped by the EA as SPZ1c should actually be viewed as SPZ1.

2.10 Hydrochemical Setting

2.10.1 Background

- ^{2.10.1.1} Information concerning the water quality of the Study Area has been obtained from:
 - Published and third-party data sources.
 - Site monitoring data.

2.10.2 Groundwater Quality

Groundwater Vulnerability

- 2.10.2.1 Groundwater vulnerability mapping confirms GC outcrop areas to be of 'Unproductive' vulnerability, due to the protection offered from ground surface by the GC Aquitard.
- 2.10.2.2 Areas of LGA outcrop, as is the case for the Site due to the removal of GC cover during mineral extraction, is considered at 'High' vulnerability (due to the presence of outcropping Principle Aquifers).

Water Framework Directive Groundwater Body Chemical Status

- 2.10.2.3 With respect to the Water Framework Directive (WFD), the Site falls within the Thames River Basin District, Thames Groundwater Management Catchment, Kent Greensand Middle Western Operational Catchment, Kent Greensand Middle Water Body.
- ^{2.10.2.4} This waterbody has an overall status of 'Poor', with a quantitative status of 'Poor' (attributable to dependent water body status and water balance) and a chemical status of 'Poor' (attributable to drinking water protected areas and general chemical tests).

Groundwater Quality Data

Background

2.10.2.5

Detailed assessment of groundwater quality within the area of the Site was undertaken within the 2020 H&HIA, which drew upon the following data sources:

- Laboratory analysis undertaken upon water samples collected by bailed purging made over 17-no. sampling rounds undertaken within Site piezometers between June 2015 and May 2017 (piezometers PZ5, PZ6, PZ7 & PZ8).
- Laboratory analysis of samples taken from SEW sources at Trosley and Ryarsh.
- Published groundwater quality data¹².
- 2.10.2.6 Assessment concluded that groundwater quality observed within the South-Eastern Extension notably exceeded that characteristic of the local area with regards to Ammoniacal Nitrogen, Nickel, Lead, Arsenic, Chromium and Vanadium.
- ^{2.10.2.7} This was considered likely attributable to interception within the South-Eastern Extension of a down hydraulic gradient (north eastwards) contaminant plume associated with an adjacent historic household waste landfill site (Pearsons Pit Landfill, further detail at *section 2.10.3*).
- 2.10.2.8 Groundwater quality data collection at the Site has since been expanded to accommodate the requirements of this assessment, the findings of which are considered below.

The Collected Data

- ^{2.10.2.9} Bailed purging and subsequent laboratory analysis of samples has been undertaken targeting piezometers PZ1-21, PZ2-21 and PZ3-21, as adjacent the Recovery Operation, providing a data record at monthly resolution over the period April 2021 to April 2022 (covering one full calendar year).
- ^{2.10.2.10} Data collection at PZ1-21 has been hampered to date due to clogging of sampling equipment with sludge from the piezometer base resulting in retrieval of insufficient volumes for sample analysis.
- ^{2.10.2.11} The available data is presented at *appendix 3*, with laboratory certificates presented at *appendix 4*. Summary statistics for the available data are presented at *table 7* below. This includes presentation of the Limit Of Detection (LOD) applying to analysed samples, and relevant Environmental Quality Standards¹³ (EQS).

^{12 &}quot;Baseline Report Series: 9: The Lower Greensand of Southern England", BGS & EA, Technical Report NC/99/74/9, P Shand, J Cobbing, R Tyler-Whittle, A F Tooth & A Lancaster, 2003.

¹³ Water Supply (Water Quality) Reg's 2000 (Drinking Water Standards), supplemented by Groundwater Regulations 1998, Surface Water (Abstraction for Drinking Water) Regs 1996, EU Groundwater Directive, EU Dangerous Substances Directive, and World Health Organisation guidelines for drinking water quality.

| Table 7 Groundwater Quality Data, PZ2-21 and PZ3-21 | | | | | | | | |
|--|---------|--------|--------------------------|--------------------------|--------------------------|--|--|--|
| Determinand | LOD* | EQS** | Minimum Concentration | Maximum Concentration | Average Concentration | | | |
| PAHs | 0.00016 | 0.0001 | 0.00016 | 0.00017 | 0.00016 | | | |
| PCBs | 0.00001 | NA | 0.00001 | 0.00002 | 0.00001 | | | |
| Phenols | 0.02 | 0.0005 | 0.02 | 0.35 | 0.0472 | | | |
| ТРН | 5 | 0.3 | 0.005 | 0.007 | 0.0051 | | | |
| рН | NA | 6 to 9 | 6 | 7.6 | 6.9 | | | |
| Ammoniacal Nitrogen | 0.01 | 0.5 | 0.01 | 6.9 | 0.39 | | | |
| Antimony | 0.001 | 0.005 | 0.001 | 0.001 | 0.001 | | | |
| Arsenic | 0.001 | 0.01 | 0.001 | 0.001 | 0.001 | | | |
| Barium | NA | 0.1 | 0.03 | 0.11 | 0.05 | | | |
| Cadmium | 0.00002 | 0.005 | 0.00002 | 0.0001 | 0.00004 | | | |
| Chloride | NA | 250 | 43 | 436 | 114.69 | | | |
| Chromium | 0.001 | 0.05 | 0.001 | 0.001 | 0.001 | | | |
| Copper | 0.001 | 2 | 0.001 | 0.003 | 0.0011 | | | |
| Dissolved Organic Carbon | NA | NA | 0.79 | 3.1 | 1.97 | | | |
| Fluoride | 0.1 | 1.5 | 0.1 | 1.1 | 0.16 | | | |
| Lead | 0.001 | 0.01 | 0.001 | 0.001 | 0.001 | | | |
| Mercury | 0.00003 | 0.001 | 0.00003 | 0.00005 | 0.00003 | | | |
| Molybdenum | 0.001 | 0.07 | 0.001 | 0.001 | 0.001 | | | |
| Nickel | 0.002 | 0.02 | 0.001 | 0.109 | 0.03 | | | |
| Selenium | 0.001 | 0.01 | 0.001 | 0.001 | 0.001 | | | |
| Sulphate | NA | 250 | 113 | 201 | 149.31 | | | |
| Total Organic Carbon | NA | NA | 0.8 | 3.1 | 1.82 | | | |
| Zinc | NA | 5 | 0.003 | 0.116 | 0.037 | | | |
| *LOD: Limit Of Detection, EQS: Environmental Quality Standards | | | | | | | | |

All units in mg/l

Discussion

- ^{2.10.2.12} The collected data demonstrates concentrations of Phenols, Antimony, Arsenic, Chromium, Lead, Molybendenum and Selenium to be uniformly recorded at the LOD.
- All species are recorded within the relevant EQS with the exception of PAHs, PCBs, Phenols, Ammoniacal Nitrogen, Barium, Chloride and Nickel.
- ^{2.10.2.14} In the case of PAHs, PCBs and Phenols, EQS exceedance is largely attributable to the LOD of analysis exceeding EQS limits. Concentrations are otherwise at or near the LOD, which is seen to be exceeded on one occasion only for PCBs (potentially sample contamination) and across the winter of 2022 in the case of PAHs.
- ^{2.10.2.15} Though typically below the EQS, Ammonical Nitrogen concentrations have exceeded EQS limits on one occasion at both PZ2-21 and PZ3-21 (though on separate sampling rounds), potentially being indicative of episodic concentration increases relative to background trace concentrations.
- ^{2.10.2.16} Barium EQS exceedances have been recorded at PZ2-21 only. This is potentially attributable to the use of bentonite clays in piezometer construction.



- ^{2.10.2.17} Chloride concentrations are uniformly elevated, notably at PZ2-21, though have exceeded EQS limits on one occasion only, this being in August 2021 at PZ3-21. A similar pattern is observed with regards to Nickel, though EQS exceedances are more regularly observed.
- ^{2.10.2.18} Comparison has been undertaken between the available data, and background concentrations established within the 2020 H&HIA, as at *table 8* below. This has been undertaken for key species identified within the 2020 H&HIA as potentially being associated with Pearsons Pit Landfill, as well as common indicators of landfill derived contamination.

| Table 8 Groundwater Quality Data, PZ2-21 and PZ3-21 | | | | | | | | | |
|---|---|---------------------|------------------------|--|--|--|--|--|--|
| Determinand | Main Quarry Maximum | Trosley Average* | FB Aquifer Average* | PZ5, South Eastern Extension Maximum* | Main Quarry Relative to Trosley (%) | Main Quarry Relative to FB Aquifer (%) | Main Quarry Relative to PZ5, South Eastern Extension (%) | | |
| Ammoniacal Nitrogen | 6.9 | 0.018 | 0.03 | 1.1 | 99.74 | 99.57 | 84.06 | | |
| Arsenic | 0.001 | 0.00036 | 0.0065 | 0.013 | 64.00 | -550.00 | -1200.00 | | |
| Chloride | 436 | 39 | 20 | 68 | 91.06 | 95.41 | 84.40 | | |
| Chromium | 0.001 | 0.00023 | 0.00115 | 0.008 | 77.00 | -15.00 | -700.00 | | |
| Lead | 0.001 | 0.00038 | 0.0004 | 0.046 | 62.00 | 60.00 | -4500.00 | | |
| Nickel | 0.099 | 0.00254 | 0.005 | 0.101 | 97.67 | 95.41 | 7.34 | | |
| Sulphate | 201 | 66 | 48 | 32 | 67.16 | 76.12 | 84.08 | | |
| Total Organic Carbon | 2.6 | 0.869 | 1.2 | 5.2 | 71.97 | 61.29 | -67.74 | | |
| *: Established fr All units in mg/l | *: Established from 2020 H&HIA All units in mg/l | | | | | | | | |

- Assessment indicates that data collected within the Main Quarry in association with baseline data gathering for the Recovery Operation exceeds background concentrations reported for SEW's Trosley source for all determinands assessed. Background concentrations for the FB Aquifer are also seen to be exceeded excepting Arsenic and Chromium.
- ^{2.10.2.20} The collected data is seen to record significantly lower concentrations of Arsenic, Chromium, Lead and Total Organic Carbon that has been recorded at PZ5 (indicated to have intercepted contaminant plume from Pearsons Pit Landfill). PZ5 concentrations are however exceeded with regards to Ammonical Nitrogen, Chloride, and Sulphate.
- Assessment thus indicates that water quality within the Main Quarry, as recorded at PZ2-21 and PZ3-21, falls somewhere between that attributable to the Aquifer as a whole, and that present to the northeast, where identified existing contaminant sources persist. With reference to *figure 17* and *section 2.10.3*, this may be in part due to the influence of Pearsons Pit Landfill, which is partially up-hydraulic gradient from PZ3-21.



2.10.3 Potential Sources of Pre-existing contamination

- ^{2.10.3.1} Summary details of operational and known historical landfills local to the Site, as taken from the EA's Public Register, are tabulated below at *table 9*, with their locations and extents illustrated at *figure 24*.
- ^{2.10.3.2} Such features of note include 1 no. permitted landfill within the Site boundary in the form of Wrotham Quarry Landfill, this extending through the North-Eastern Extension area (inert infill placement) and Main Quarry (storage and processing).
- ^{2.10.3.3} The North-Eastern extension is directly abutted to the north by the permitted inert landfill of Addington Quarry.
- ^{2.10.3.4} To the north of the Site, on lands intervening between the Main Quarry and North Eastern Extension, 1 no. historic landfill is seen to be present in the form of Pearsons Pit Landfill, this having received potentially putrescible wastes.
- ^{2.10.3.5} The location of this landfill with respect to nearby SPZ's (as at *section 2.9.2*), agrees well with the designation of local areas of SPZ4. This landfill is considered an acknowledged pre-existing source of groundwater contamination within the LGA.

| Table 9 Summary Detail for Landfill in the Vicinity of the Site | | | | | | | |
|---|-------------------|-----------------------------|----------|---------------|-----------------|--|--|
| Identification | Distance (km)* | Operator | Status | Class | Note | | |
| Wrotham Quarry | 0 | Ferns Group | Active | I | FB Outcrop | | |
| Addington Quarry | 0 | Pearsons Ballast Limited | Active | NB | FB Outcrop | | |
| Workhouse Quarry | 1.4 | Gallagher Aggregates Ltd | Active | Ι | FB Outcrop | | |
| Harpwood Residential | 1.6 | Mr & Mrs Hazeldene | Active | NB | FB Outcrop | | |
| Offham Landfill | 1.9 | Waste Recycling Group | Active | HH, C&I | HB Outcrop | | |
| Borough Green Sand Pit Landfill | 2.8 | Borough Green Sand Pits | Active | I | FB / GC Outcrop | | |
| Pearsons Pit | 0.03 | Biffa Ltd | Historic | I, C&I, HH | FB Outcrop | | |
| Hernewell Farm | 1 | Unknown | Historic | I | HB Outcrop | | |
| Gatehouse Wood | 1.3 | Unknown | Historic | I | FB Outcrop | | |
| Ryarsh Brick | 1.6 | Unknown | Historic | I | FB Outcrop | | |
| Offham Quarry | 1.8 | Waste Recycling Group | Historic | I | HB Outcrop | | |
| Platt Industrial | 2.5 | Unknown | Historic | I | FB Outcrop | | |
| Joco Pit | 3.2 | Unknown | Historic | I | FB Outcrop | | |
| *= At shortest distance from Recovery Operation. | | | | | | | |

I = Inert, NB = Non-Biodegradable, HH = Household, C&I = Commercial and Industrial

3 CONCEPTUAL HYDROGEOLOGICAL MODEL

- The Lower Greensands constituting the economic mineral of the Site forms a regional aquifer (The LGA) which is of importance as a source of both large and small scale water supply.
- At the scale of interest, the LGA is interpreted to be of effectively unlimited extent to the west, north and east of the Site.
- ^{3.3} The lower boundary of the LGA is represented by the occurrence of the AC to the south of the Site, whilst an upper recharge boundary is formed where the GC aquiclude overlies the aquifer to the north.
- The LGA is divided into upper and lower units; the upper comprising the poorly consolidated sands of the Folkestone Beds (The FB Aquifer) and the lower comprising the sandy limestones and mudstones of the Hythe Beds (The HB Aquifer), the two units being separated at a regional scale by the clays and silts of the Sandgate Beds, which functions as a (leaky) aquitard.
- Recharge within the aquifer is largely diffuse, but in areas is concentrated by the presence of streams draining the allogenic catchment underlain by GC, to the north of the Site which drains southwards to recharge the LGA.
- Groundwater flow within the LGA is chiefly intergranular and diffuse; the upper Folkestone Beds unit comprising a largely homogenous aquifer, with anisotropy being of relatively greater importance within the underlying Hythe Beds.
- ^{3.7} The prevailing regional groundwater flow direction is to the north and north east, with a component of north-westerly flow being indicated by local piezometry to exist at the Site.
- The LGA supports public water supply abstraction, locally at SEW's Trosley source. Associated SPZ's extend within the Site boundary. Such abstraction is expected to have artificially depressed groundwater elevations in its immediate vicinity to some extent..
- ^{3.9} The Site abuts a historic third-party landfill that has received putrescible wastes, and is considered to form a source of existing groundwater contamination within the LGA.

4 THE RECOVERY OPERATION

4.1 Overview

- ^{4.1.1} The Recovery Operation details the buttressing of the existing northern and northwestern extraction faces of the Main Quarry void at the Site using indigenous material and imported inert waste material, this being place entirely above the elevation of groundwaters within the LGA Aquifer.
- ^{4.1.2} The works are required to safeguard the integrity of lands adjoining these quarry faces, including the Trosley Reservoir to the west of the Main Quarry void which is elevated c.30m above the quarry floor.
- ^{4.1.3} The need for the buttressing works was identified by a geotechnical assessment report produced in April 2019¹⁴.
- ^{4.1.4} It is estimated that c.190,000 cubic metres (m³) of material will be required in order to safeguard the stability of the quarry faces at risk and to subsequently achieve restoration closely conforming to that approved for the Site.
- ^{4.1.5} Approximately c.38,000m³ of suitable indigenous material has been identified at the Site, leaving an importation requirement of c.152,000m³ (c.229,000 tonnes) of inert materials
- ^{4.1.6} Based upon this volume requirement, and an anticipated importation rate of c.40,000 tonnes per annum, infilling will require a period of 5 years for completion.
- ^{4.1.7} Infill material would be delivered to site via HGV and temporarily stored in the raised stock area (eastern limit of Recovery Operation) before being hauled to the face via dump truck where it would be placed using hydraulic excavator and tracked dozer (placement works limited to the west of the Recovery Operation only).
- ^{4.1.8} The design of the Recovery Operation is presented at *figure 25*.

4.2 Lining System

- ^{4.2.1} The Recovery Operation is to partially penetrate the unsaturated zone of The FB Aquifer. No in-situ geological barrier will thus be present upon the base of workings.
- ^{4.2.2} EA guidance for the deposit of inert wastes onto land¹⁵ details requirement for provision of an artificial Engineered Barrier System (EBS) under such circumstances, this being of equivalent attenuating effect to a 1m thick liner of permeability 1*10⁻⁷m/s (the Design Standard).
- ^{4.2.1.1} It is thus proposed that the Recovery Operation be equipped with an EBS extending upon the base and sidewalls of the placed materials. The buttressing works are to be sloped forming a stable profile to the Main Quarry void. The placed materials will thus only be in constant contact with in-situ FB Aquifer material upon the base and northern / western side-slopes. The EBS will thus be extended to form a raised foot upon the

¹⁴ "Wrotham Quarry, Annual Report for Western Slope Monitoring, April 2019", QuarryDesign Limited, 24th May 2019

¹⁵ Environment Agency, 'Environmental Permitting Regulations: Inert Waste Guidance, Standards and Measures for the Deposit of Inert Waste Onto Land'

southern and eastern side-slopes (estimated 1.5m height), ensuring full EBS containment of the placed materials on all boundaries.

^{4.2.1.2} The EBS is to be formed using Site won materials where possible, with imported inert infill materials otherwise being selected from the infill stream for this purpose. Such materials will be selected to meet Design Standard EBS requirements.

4.3 Capping

4.3.1 Other than emplacement of soil cover and its subsequent planting, no engineered capping system has been specified or will be required for the Recovery Operation.

4.4 Extent, Depth and Elevation of Infilling

- As at *figure 25*, buttressing works are proposed over an area of some 3.9ha within the 7.4ha application area, being focused upon the faces and bases of the northern and western banks of the Main Quarry void.
- ^{4.4.2} The lower elevation of infill is to accord with current ground elevations, thus ranging from 36maOD to 65maOD, being lowest at the base of the Main Quarry faces, as at *figure 26*.
- ^{4.4.3} The upper elevation of the infill is to accord with development designs, thus ranging from 37maOD to 66maOD, being highest at the base of the Main Quarry faces, as at *figure 27*.
- ^{4.4.4} This pattern of placement results in infill material thicknesses ranging from approximately 1 to 17m, being thickest at the base of the Main Quarry faces, and thinnest at the margins of infill placement, as at *figure 28*.

4.5 Waste Types

- ^{4.5.1} The site will be permitted to accept inert wastes only. Inert wastes are defined by the Landfill Directive (1999/31/EC), article 2(e) as: 'waste that does not undergo any significant physical, chemical or biological transformations. Inert waste will not dissolve, burn or otherwise physically or chemically react, biodegrade or adversely affect other matter with which it comes into contact in a way likely to give rise to environmental pollution or harm human health. The total leachability and pollutant content of the waste and the ecotoxicity of the leachate must be insignificant, and in particular not endanger the quality of surface water and / or groundwater'.
- ^{4.5.2} Section 2.1.1 of the 2002 Council Decision (The Council Decision), 'Establishing Criteria and Procedures for the Acceptance of Waste at Landfills Pursuant to Article 16 of and Annex II to Directive 1999/31/EC' (the Landfill Directive), lists a number of waste types that are considered inert without need for testing (subject to being single stream of a single waste type or combination of types).
- ^{4.5.3} Other waste types are also classified as inert provided that they meet the leaching limit values (determined by testing) outlined at section 2.1.2.1 of the Council Decision.
- ^{4.5.4} It is proposed that all such wastes will meet with the above criteria, and any accepted wastes that are not listed at Section 2.1.1 of the Council decision will be tested to ensure compliance with section 2.1.2.1 of that decision (where necessary).

4.6 Leachate Management

^{4.6.1} Assuming full implementation of control and compliance procedures, the imported wastes will be inert and therefore incapable of producing potentially contaminating leachate. Leachate management will thus not be required.

5 CONCEPTUAL SITE MODEL

5.1 Background

- ^{5.1.1.1} The principal elements of the Recovery Operation and its hydrogeological setting, which together comprise the Source-Pathway-Receptor model to be quantified at HRA, are described below.
- 5.1.1.2 A simplified visual representation of the CSM is presented at *figure 29,* with cross sections being provided at *figure 30*.

5.2 Source

- 5.2.1 The source of potential contamination for the purposes of HRA is the full extent of the Recovery Operation, as illustrated at *figure 25*.
- ^{5.2.2} Potential leachate is represented at HRA by chemical species selected from the EA's 18no. (leaching test specific¹⁶) determinand Waste Acceptance Criteria (WAC) schedule for inert wastes¹⁷ with the addition of Ammoniacal Nitrogen.
- 5.2.3 Given the inert nature of infill to be deposited, Ammoniacal Nitrogen would not be expected to be generated at HRA, as reflected by its absence with the EA's schedule of inert WAC limits. It has however been included as this species is commonly expected to be included at HRA by the EA.
- ^{5.2.4} In lieu of sufficient leaching test data for inert material streams specific to the Recovery Operation, for all chemical species excepting Ammoniacal Nitrogen, lower limit concentrations for the selected species have been defined by reference to WAC results of materials tested as part of proposals for excavation to landfill associated with the redevelopment of the former Battersea power station¹⁸ (*appendix 5*).
- ^{5.2.5} In view of the industrial history of the Battersea Site, selection of these reference WAC results to represent lower-limit leachate concentrations within the Recovery Operation represents a conservative (*i.e.* tending toward worst-case) approach to HRA.
- ^{5.2.6} Upper limit concentrations for the source term species selected for HRA have been ascribed by reference to their statutory maximum WAC limits and thus implicitly represents a worst-case approach to assessment.
- 5.2.7 No relevant ammoniacal nitrogen leaching data are available; neither is there a WAC limit set for this species.
- ^{5.2.8} In lieu of this information, the EA have previously advised that the source term concentrations for ammoniacal nitrogen should be based upon prevailing worst-case values derived from the groundwater quality data-set for the Site; upper and lower source term values for ammoniacal nitrogen have thus been based upon the

¹⁶ BS EN 12457.

¹⁷ As transposed from Council Decision annex 2003/33/EC).

^{18 &}quot;Site Investigation Report, Battersea Power Station", Concept Site Investigations for Battersea Project Land Company, report reference 13/25/25-FR02, dated 13/08/13. Investigations comprised 40-no. 2-part batch leaching tests (performed in accordance with BSEN 12457/3) upon samples obtained from 4-no. site investigation boreholes and 23-no. trial pits as part of proposed excavations and presumed deposit to landfill. Summary data is included here at *appendix 5*.



groundwater quality data established in the vicinity of the Recovery Operation as at *section 2.10.2*.

^{5.2.9} The screening and selection of determinands representing the inert source at HRA is presented at *table 10*. This has been undertaken to ensure that modelled determinands include those suitable for accurate characterisation at HRA, and for subsequent derivation of control / compliance measures. Determinands not meeting these requirements, though considered necessary for inclusion as key determinands, or to provide a representative spread of potential contaminants, have also been selected.

| Determinand | Note | Selection (Yes / No) |
|--------------------------|--|-------------------------|
| PAHs | Absent in reference dataset. Baseline LOD exceeds EQS. Baseline data exceeds EQS. | No |
| PCBs | Absent in reference dataset. Baseline LOD exceeds EQS. Baseline data exceeds EQS. | No |
| Phenols | Baseline LOD exceeds EQS. Baseline data exceeds EQS. | No |
| ТРН | Absent in reference dataset. Baseline LOD exceeds EQS. | No |
| Ammoniacal Nitrogen* | Absent in reference dataset. Baseline data exceeds EQS. Considered key determinand. | Yes |
| Antimony | Reference dataset exceeds WAC limits. | No |
| Arsenic | Meets criteria for assessment. | Yes |
| Barium | Baseline data exceeds EQS. | No |
| Cadmium | Meets criteria for assessment. | Yes |
| Chloride | Baseline data exceeds EQS. Considered key determinand. | Yes |
| Chromium | Reference dataset exceeds WAC limits. | No |
| Copper | Meets criteria for assessment. | Yes |
| Dissolved Organic Carbon | Nonspecific parameter. | No. |
| Fluoride | Reference dataset exceeds WAC limits. | |
| Lead | Meets criteria for assessment. | Yes |
| Mercury | Meets criteria for assessment. | Yes |
| Molybdenum | Reference dataset exceeds WAC limits. | No |
| Nickel | Baseline data exceeds EQS. | No |
| Selenium | Reference dataset exceeds WAC limits. | No |
| Sulphate | Reference dataset exceeds WAC limits. Considered key determinand. | Yes |
| Zinc | Meets criteria for assessment. | Yes |

5.2.10 Adopted upper and lower source term concentrations for the selected determinands are presented below at *table 11*.

| Table 11 Lower and Upper Source Term Concentrations Adopted by HRA | | | | | | | | | |
|--|---------|-------|----------------------------------|-----------------------------------|-------|--|--|--|--|
| Chemical | | | Lower Leachate Concentration* | Upper Leachate Concentration** | | | | | |
| Ammoniacal Nitrogen | 0.01 | 0.19 | Lead | 0.004 | 0.05 | | | | |
| Arsenic | 0.0056 | 0.05 | Mercury | 0.00007 | 0.001 | | | | |
| Cadmium | 0.00011 | 0.004 | Sulphate*** | 50 | 100 | | | | |
| Chloride | 6.47 | 80 | Zinc | 0.018 | 0.4 | | | | |
| Copper | 0.014 | 0.2 | | | | | | | |

All units are mg/l

*: For all determinands excepting ammoniacal nitrogen, these concentrations have been enumerated with the average WAC testing results established for the Battersea re-development site investigations. For ammoniacal nitrogen, the concentration has been set at the lowest recorded value reported by the available baseline groundwater chemistry data.

**: For all determinands excepting ammoniacal nitrogen, these concentrations have been set at the maximum WAC limits permissible for inert waste as specified by regulation. For ammoniacal nitrogen, the concentration has been set at the highest recorded value reported by the available baseline groundwater chemistry data excepting exceedance of EQS.

***: The average leachate concentration for sulphate established from the Battersea redevelopment data-set exceeds the upper leachate concentration based upon WAC limits and is therefore discounted from analysis. Sulphate has thus been ascribed a lower leachate concentration at 50% of the 'Upper' WAC limit.

Note 1: the WAC testing data and maximum permissible concentrations specified by regulation are stated in units of mg/kg for solid phase samples obtained using a 10:1 liquid to solid ratio, in an eluate of 10l, as specified by BSEN 12457/3. HRA leachate concentrations have therefore been established in units of mg/l by dividing the WAC concentrations by a factor of 10. Note 2: To further the conservative approach to HRA, where laboratory concentrations were determined below the LOD, the LOD has been assumed

5.3 Pathway

^{5.3.1} The potential pathway for leachate to enter the water environment and processes occurring within that pathway are constituted by several elements, each of which is described in-turn below.

5.3.2 Migration Pathway

- 5.3.2.1 The potential leachate migration pathway simulated by HRA is as follows:
 - Vertically downwards through the base of the infill material and EBS.
 - Vertically downwards through the FB Aquifer unsaturated zone to the watertable.
 - Horizontally down the hydraulic gradient (north-eastwards) within the saturated zone of the FB Aquifer.

5.3.3 Chemical Retardation (Kd Values)

- 5.3.3.1 Retardation is assumed to occur in the EBS (where applied), and within both the unsaturated and saturated zones of the Aquifer.
- 5.3.2 Lower and upper values for partition coefficients (Kd values) of individual chemical species have been based upon those presented within the LandSim Manual¹⁹ (the "Manual Value").

¹⁹ Golder Associates, 'The Landsim Manual', Environment Agency R&D Publication 120, including 2004 and 2007 addendums.

Lower Kd values within the HRA are set at the minimum Manual Value, whilst upper values have been specified at 25% of the maximum Manual Value²⁰ and thus represent a conservative approach to HRA.

| Chemical | Lower Kd | Upper Kd | Chemical | Lower Kd | Upper Kd | | |
|------------------------|----------|----------|-----------|----------|----------|--|--|
| Ammoniacal Nitrogen | 0.5 | 2 | Lead | 27 | 2.7E5 | | |
| Arsenic | 25 | 62.5 | Mercury | 450 | 959 | | |
| Cadmium | 1.6 375 | | Sulphate* | 1E-09 | | | |
| Chloride* | 1E-09 | | Zinc | 1 | 150 | | |
| Copper | 40 | 6,875 | | | | | |
| All units are I/kg. | | | | | | | |

5.3.3.4 The Kd value ranges thus adopted by HRA are shown below at *table 12*.

5.4 Receptors

- 5.4.1 The controlled waters receptor being assessed is groundwater present within the Aquifer directly adjacent to the Recovery Operation, and the water resource it represents.
- ^{5.4.2} In order to assess potential impacts upon this receptor, a Point of Compliance (POC) has been identified immediately down hydraulic gradient from the Recovery Operation, representing PZ3-21, *figure 13*.

²⁰ Excepting Kd values for Ammoniacal Nitrogen, which, due to the very limited range advised by the LandSim documentation, are set at the maximum Manual Values.

6 HRA RISK ASSESSMENT MODEL

6.1 HRA Tier Selection

^{6.1.1} Although the Recovery Operation will receive only inert wastes, initial screening has indicated a requirement for detailed quantitative HRA for the following reasons:

- The Principal Aquifer status of the FB Aquifer underlying the Recovery Operation.
- The location of the Recovery Operation, as situated within a designated SPZ.
- ^{6.1.2} Detailed quantitative HRA has thus been undertaken using LandSim, a computer-based stochastic risk modelling programme developed by Golder Associates in conjunction with the EA.

6.2 Background

6.2.1 Development of the HRA model has included the following steps:

- Definition of, and results from, initial assessment scenario (iHRA) and modelled input parameters.
- Description and results of sensitivity analysis of iHRA model (sHRA).
- Assessment of potential impact of rogue loads on iHRA model results (rHRA).
- Assessment of model results relative to baseline groundwater quality (bHRA).

6.3 Initial Assessment Scenario (iHRA)

- ^{6.3.1} The initial model ('iHRA') includes a range of hypothetical conservative input values intended, from the outset, to provide a conservative simulation of potential risk posed to controlled waters by the Recovery Operation.
- ^{6.3.2} IHRA includes an operational stage of the Recovery Operation simulated over the 5years of proposed infilling operations.
- ^{6.3.3} The Recovery Operation is represented as a single phase, closely reflecting the proposed completion of the Site.
- ^{6.3.4} The model simulates a post-closure stage extending 20,000 years. As the wastes to be infilled will be inert, the model does not simulate leachate management.
- ^{6.3.5} Representation of the Proposed Development within the modelled LandSim domain (which is rotated 75° clockwise from National-Grid in order to orient the axes of the Site parallel with the prevailing groundwater flow direction) is shown at *figure 31*.

6.3.2 iHRA Model Parameterisation

6.3.2.1 Input parameter values and structural assumptions adopted at iHRA, together with justifications for their selection are given at *tables 13* to *19* below.

| Table 13 iHRA Model Parameterisation: Layout | | | | | | | | |
|--|-------|---|--|--|--|--|--|--|
| Parameter (units) | Value | Justification | | | | | | |
| Location x (m) | 800 | Representative area to encompass Site and potential receptors. | | | | | | |
| Location y (m) | 1,100 | | | | | | | |
| Length x (m) | 78 | Model dimensions set as representative of designs (3.9ha area). | | | | | | |
| Length y (m) | 500 | | | | | | | |
| Duration of | 5 | From planning and permit application documents. | | | | | | |
| Management Control | | | | | | | | |
| (yrs) | | | | | | | | |

| Table 14 iHRA Model Pa | Table 14 iHRA Model Parameterisation: Infiltration | | | | | | | |
|--|--|---|--|--|--|--|--|--|
| Parameter (units) | Value | Justification | | | | | | |
| Infiltration to Open Waste (mm/yr) | 85.5 | Exposed infill will form closed depression of lower permeability than underlying Aquifer material. Rainfall runoff to temporarily pond on surface prior to infiltration. Set as 100% of Effective Rainfall calculated for open water (<i>table 4</i>). | | | | | | |
| Post Infilling Infiltration mm/yr) | 51.9 | Effective Rainfall for grassland (<i>table 4</i>), plus 10% allowance for climate change, less 78% runoff (see NCB nomogram at <i>appendix 6</i> ; ground slope from development designs: 0.28, restoration to cultivated land / short grass). 214.4mm x 1.1 x 0.22 = 51.9mm. | | | | | | |
| End of Infilling (years from commencement of waste disposal) | 5 | From Planning & Permit Application Documents. | | | | | | |

| Table 15 iHRA Model Parameterisation: Cell Geometry | | | | | | | |
|---|------------------------|--|--|--|--|--|--|
| Parameter | Value | Justification | | | | | |
| (units) | | | | | | | |
| Length x at base (m) | 30 | Model dimensions & phasing set as representative of designs. | | | | | |
| Length y at base (m) | 279 | | | | | | |
| Number of Cells | 1 | | | | | | |
| Basal Area (ha) | 0.96 | | | | | | |
| Crest Area (ha) | 1.4 | | | | | | |
| Final Waste Thickness | T: 1, 7.05,17 | | | | | | |
| (m) | | | | | | | |
| Waste Porosity | T: 0.1, 0.2, 0.3 | Nominal values taken from literature review. | | | | | |
| (fraction) | | | | | | | |
| Waste Dry Density | T: 1.4, 1.5, 1.8 | | | | | | |
| (kg/l) | | | | | | | |
| Waste Field capacity | T: 0.1, 0.2, 0.3 | | | | | | |
| (fraction) | | | | | | | |
| Head of Leachate for | 1.5 | Model dimensions set as representative of designs. | | | | | |
| Surface Water | | | | | | | |
| Breakout (m) | | | | | | | |
| T: X, Y, Z: Triangular par | ameter distribution as | ssumed; X, Y, Z representing bounding lower, mid and upper model | | | | | |
| values. | | | | | | | |

| Table 16 iHRA Mode | Table 16 iHRA Model Parameterisation: Leachate Inventory | | | | | | | | |
|------------------------|--|---|--|--|--|--|--|--|--|
| Parameter | Value | Justification | | | | | | | |
| Ammoniacal Nitrogen | LT: 0.01, 0.1, 0.19 | Conservative values ascribed (i.e. tending towards worst-case model prediction. See | | | | | | | |
| Arsenic | LT: 0.0056, 0.028, 0.05 | section 5.2 for further detail). | | | | | | | |
| Cadmium | LT: 0.00011, 0.0021, 0.004 | | | | | | | | |
| Chloride* | LT: 6.47, 43.24, 80 | | | | | | | | |
| Copper | LT: 0.014, 0.11, 0.2 | | | | | | | | |
| Lead | LT: 0.004, 0.027, 0.05 | | | | | | | | |
| Mercury | LT: 0.00007, 0.00054, 0.001 | | | | | | | | |
| Sulphate* | LT: 50, 75, 100 | | | | | | | | |
| Zinc | LT: 0.018, 0.209, 0.4 | | | | | | | | |
| All units are mg/l. | | | | | | | | | |

LT: X, Y, Z: Log-Triangular parameter distribution assumed; X, Y, Z representing bounding lower, mid and upper model values. Kappa value constants (C & m values) used in derivation of declining source terms for all chemical species set at LandSim default values.

| Table 17 iHRA Model Parameterisation: EBS Pathway | | | | | | |
|---|--------------------|---|--|--|--|--|
| Parameter (units) | Value | Justification | | | | |
| Design Thickness (m) | 1 | Design standard EBS. | | | | |
| Moisture Content (fraction) | LT: 0.1, 0.15, 0.2 | Nominal values taken from literature review. | | | | |
| Hydraulic Conductivity (m/s) | 1E-7 | Design standard EBS. | | | | |
| Longitudinal Dispersivity (m/s) | 0.1 | Manual Value (10% of pathway length). | | | | |
| | | bution assumed; X, Y, Z representing bounding lower, mid and upper sed in retardation calculation determined as described at <i>section 5.3.3</i> . | | | | |

| Table 18 iHRA Mode | Table 18 iHRA Model Parameterisation: Unsaturated Pathway | | | | | | | |
|------------------------------------|--|---|--|--|--|--|--|--|
| Parameter (units) | Value | Justification | | | | | | |
| Geological Unit | Folkestone Beds | From CHM, informed by piezometer monitoring data and Site design. | | | | | | |
| Pathway Length (m) | U: 1, 25 | | | | | | | |
| Flow Model | Porous Medium | | | | | | | |
| Moisture Content (fraction) | LT: 0.002, 0.005, 0.007 | Nominal values taken from literature review undertaken as part of formulation of CHM. | | | | | | |
| Hydraulic Conductivity (m/s) | LT: 1.09E-5, 8.6E-5, 0.0011 | From FB Aquifer thickness (<i>section 2.5</i>) and Transmissivity range for LGA (<i>section 2.8</i>). | | | | | | |
| Longitudinal Dispersivity (m/s) | U: 0.1, 2.5 | Manual Value (10% of pathway length). | | | | | | |
| , , . | LT: X, Y, Z: Log-Triangular parameter distribution assumed; X, Y, Z representing bounding lower, mid and upper model values. U: X,Y: Uniform parameter distribution along a range with minima ad maxima described by X & Y. | | | | | | | |

Partition coefficients (Kd) used in retardation calculation determined as described at section 5.3.3.

| Table 19 iHRA Model Parameterisation: Saturated Pathway | | | | | | | |
|---|-----------------|---|--|--|--|--|--|
| Parameter (units) | Value | Justification | | | | | |
| Geological Unit | Folkestone Beds | From CHM. | | | | | |
| Pathway Length (m) | U: 61, 139 | Fixed by LandSim. | | | | | |
| Pathway Width (m) | 500 | From CHM, informed by piezometer monitoring data and Site design. | | | | | |
| Aquifer Thickness (m) | U: 32.5, 47.6 | FB Aquifer thickness as at <i>figure 7</i> . | | | | | |

| Relative Vertical Dispersivity (dimensionless) | U: 0.7, 1.4 | Range set at between 1% and 2% of Pathway Length to Locatable Compliance Point (LandSim Helpdesk Pers. Comm., November 2016). | | | | | | |
|--|--|--|--|--|--|--|--|--|
| Hydraulic | LT: 1.09E-5, | From FB Aquifer thickness (figure 7) and Transmissivity range for LGA | | | | | | |
| Conductivity (m/s) | 8.6E-5, 0.0011 | (section 2.8). | | | | | | |
| Regional Gradient | 0.006 | From CHM, informed by piezometer monitoring data (gradient | | | | | | |
| (dimensionless) | | consistent across full range of observed heads). | | | | | | |
| Pathway Porosity | 0.28 | Nominal values taken from literature review undertaken as part of | | | | | | |
| (fraction) | | formulation of CHM. | | | | | | |
| Longitudinal | 7 | Manual Value. 10% of Pathway Length to Locatable Compliance Point. | | | | | | |
| Dispersivity (m) | | | | | | | | |
| Transverse | 2.1 | Manual Value. 30% of value used for Longitudinal Dispersivity. | | | | | | |
| Dispersivity (m) | | | | | | | | |
| U: X, Y: Uniform par | U: X, Y: Uniform parameter distribution along a range with minima ad maxima described by X & Y. LT: X, Y, Z: | | | | | | | |
| Log-Triangular parar | meter distribution ass | umed; X, Y, Z representing bounding lower, mid and upper model | | | | | | |
| values. Partition coefficients (Kd) used in retardation calculation determined as described at section 5.3.3 | | | | | | | | |

6.3.3 iHRA Model Results

Head on Engineered Barrier System (EBS)

^{6.3.3.1} The iHRA model predicts that infiltration rates through the base of infill (as at *appendix* 7), both during infilling and following closure, exceed recharge rates, precluding generation of significant heads, with no indicated risk of surface breakout.

Simulated Leakage Through Engineered Barrier System

- ^{6.3.3.2} The iHRA model predicts leakage rates through the base of infill (as at *appendix 7*) as follows:
 - For the operational phase of the Recovery Operation, leakage is determined at 3.28m³/d at all confidence intervals.
 - For the post closure phase of the Recovery Operation, leakage is determined at 1.99m³/d at all confidence intervals.
- ^{6.3.3.3} The reduction in leakage occurs at the 5th year of the model simulation, representing the decline in infiltration anticipated following restoration of the Recovery Operation's surface to agriculture, thus facilitating increased runoff from the restored site.
- 6.3.3.4 Review of modelling output confirms that, given the ascribed parameterisation, the model correctly simulates the volume of leachate generation and leakage throughout the modelled period.

Leachate Source Concentration

- 6.3.3.5 Predicted declining leachate source concentrations of the 9-no. chemical species included within the numerical model are illustrated at *appendix 7*.
- 6.3.3.6 Simulated peak and final (20,000-years) source concentrations, together with their relevant EQS, are presented below at *table 20* in summary.

| Table 20 iHRA | Table 20 iHRA Simulated Source Concentration Within Recovery Operation | | | | | | | |
|------------------------|--|-----------------------------|--------------|---|-----------------------------|-----------------|---------------------------------|--|
| Species | EQS (mg/l) | 90 th Percentile | | | 95 th Percentile | | | |
| | | Peak (mg/l) | Final (mg/l) | Years to <eqs< th=""><th>Peak (mg/l)</th><th>Final (mg/l)</th><th>Years to <eqs< th=""></eqs<></th></eqs<> | Peak (mg/l) | Final (mg/l) | Years to <eqs< th=""></eqs<> | |
| Ammoniacal Nitrogen | 0.5 | 8.72E-02 | 0 | 0 | 9.34E-02 | 0 | 0 | |
| Arsenic | 0.01 | 2.65E-02 | 6.10E-13 | 624 | 2.78E-02 | 1.08E-11 | 689 | |
| Cadmium | 0.005 | 2.48E-03 | 1.64E-29 | 0 | 2.81E-03 | 2.56E-20 | 0 | |
| Chloride | 250 | 4.03E+01 | 0 | 0 | 4.24E+01 | 0 | 0 | |
| Copper | 2 | 9.68E-02 | 0 | 0 | 1.02E-01 | 0 | 0 | |
| Lead | 0.01 | 2.49E-02 | 0 | 172 | 2.63E-02 | 0 | 190 | |
| Mercury | 0.001 | 6.66E-04 | 1.92E-11 | 0 | 7.61E-04 | 1.85E-05 | 0 | |
| Sulphate | 250 | 7.79E+01 | 0 | 0 | 7.92E+01 | 0 | 0 | |
| Zinc | 5 | 1.79E-01 | 0 | 0 | 1.92E-01 | 0 | 0 | |
| | | | | | | | | |

63.3.7 At the 90th percentile confidence interval:

- All modelled source concentrations excepting Arsenic and Lead are immediately below their respective EQS values.
- Source concentrations for Arsenic and Lead decline below their respective EQS values at 624yrs and 172yrs respectively.
- Excepting Arsenic, Cadmium and Mercury, all chemical species are diminished to an effective zero-concentration within the modelled timescale of 20,000-years; with the majority attaining this within a substantially shorter time-period.

6.3.3.8 At the 95th percentile confidence interval:

- All modelled source concentrations excepting Arsenic and Lead are immediately below their respective EQS values.
- Source concentrations for Arsenic and Lead decline below their respective EQS values at 689yrs and 190yrs respectively.
- Excepting Arsenic, Cadmium and Mercury, all chemical species are diminished to an effective zero-concentration within the modelled timescale of 20,000-years; with the majority attaining this within a substantially shorter time-period.
- 6.3.3.9 These model simulations indicate the likely undiluted and unretarded source term concentrations within the infill itself.
- ^{6,3,3,10} The values are not subject to any assessment of environmental acceptability, but instead are given to provide context for the presentation of later modelled simulations illustrating individual chemical species concentrations within leachate draining from the infill.

Concentration in Groundwater

- 6.3.3.11 Simulated concentrations over time in groundwater immediately downstream of the Recovery Operation, for all chemical species under assessment at iHRA are illustrated *appendix 7*.
- 6.3.3.12 Simulated peak and final (20,000-years) concentrations in groundwater, together with relevant EQS, are presented below at *table 21* in summary.

| Table 21 iHRA Simulated Concentrations in Groundwater, Recovery Operation | | | | | | | |
|---|------------|-----------------------------|--------------|---|-----------------------------|-----------------|---------------------------------|
| Species | EQS (mg/l) | 90 th Percentile | | | 95 th Percentile | | |
| | | Peak (mg/l) | Final (mg/l) | Years to <eqs< th=""><th>Peak (mg/l)</th><th>Final (mg/l)</th><th>Years to <eqs< th=""></eqs<></th></eqs<> | Peak (mg/l) | Final (mg/l) | Years to <eqs< th=""></eqs<> |
| Ammoniacal Nitrogen | 0.5 | 9.89E-05 | 2.74E-18 | 0 | 1.37E-04 | 4.49E-18 | 0 |
| Arsenic | 0.01 | 6.41E-06 | 4.52E-10 | 0 | 1.07E-05 | 1.77E-09 | 0 |
| Cadmium | 0.005 | 7.41E-19 | 7.41E-19 | 0 | 4.85E-10 | 1.25E-11 | 0 |
| Chloride | 250 | 2.24E-01 | 2.38E-15 | 0 | 2.84E-01 | 4.22E-15 | 0 |
| Copper | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lead | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mercury | 0.001 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sulphate | 250 | 5.25E-01 | 8.84E-15 | 0 | 6.64E-01 | 1.49E-14 | 0 |
| Zinc | 5 | 3.55E-16 | 1.14E-16 | 0 | 4.35E-08 | 1.32E-14 | 0 |
| | | | | | | | |

6.3.3.13 At both the 90th and 95th percentile confidence intervals, none of the modelled chemical species are predicted to exceed EQS in groundwater immediately adjacent the Recovery Operation.

6.4 Sensitivity Analysis (sHRA)

- Landsim allows stochastic modelling, thus accounting for variability in modelled parameters, as ascribed at iHRA in *tables 13* to *19*.
- ^{6.4.2} Further sensitivity analysis has been undertaken to examine those parameters with greatest influence upon model simulation, and to account for uncertainty within model parameters where this persists.

6.4.2 sHRA Model Parameterisation

^{6.4.2.1} The variables subject to sensitivity analysis are detailed below at *table 22*. Within each sHRA model run, all variables other than those assigned for sensitivity analysis have been maintained at the values described at *section 6.3.2* for iHRA.

| Table 22 sHRA Model Parameterisation | | | | | | |
|---|--------------------------------------|-----------------|------------|--|--|--|
| Parameter (units) | iHRA Value | sHRA Value | Model Name | Justification | | |
| EBS Hydraulic Conductivity (m/s) | 1.00E- 07 | 1.00E-6 | s1HRA | Investigation of sensitivity to liner permeability (reduction). | | |
| EBS Hydraulic Conductivity (m/s) | 1.00E- 07 | 1.00E-8 | s2HRA | Investigation of sensitivity to liner permeability (increase). | | |
| Unsaturated Pathway Length (m) | U: 1, 25 | U: 2.95, 26.95 | s3HRA | Unsaturated FB Aquifer thickness based on limited data record from 21 Series piezometers. Longer record for 2011 | | |
| Unsaturated Longitudinal Dispersivity (m/s) | U: 0.1, 2.5 | U: 0.295, 2.695 | | Series piezometers implies historically greater unsaturated thickness (greater range by 1.95m). Adjustment by equivalent amount to investigate implications. | | |
| Saturated Pathway Aquifer Thickness (m) | U: 32.5, 47.6 | U:49.5, 64.6 | s4HRA | Adjustment to consider LGA function as a single aquifer unit, ignoring separation of HB Aquifer from FB Aquifer offered by Sandgate Beds. HB Aquifer thickness for Recovery Operation estimated at 17m as at <i>figure 11</i> . | | |
| Saturated Pathway Regional Gradient (dimensionles s) | 0.006 | 0.043 | s5HRA | Baseline data shows constant hydraulic gradient throughout data record. This however varies spatially and could be influenced by drawdown effect from nearby public water supply abstraction. Adjustment to steepest locally observed to investigate implications. | | |
| Unsaturated Pathway Hydraulic Conductivity (m/s) | LT: 1.09E-5, 8.6E-5, 0.0011 | 1.09E-5 | s6HRA | Investigation of sensitivity to FB Aquifer permeability (fixed to lower bound estimate) | | |
| Saturated Pathway Hydraulic Conductivity (m/s) | LT: 1.09E-5, 8.6E-5, 0.0011 | 1.09E-5 | | | | |
| Unsaturated Pathway Hydraulic Conductivity (m/s) | LT: 1.09E-5, 8.6E-5, 0.0011 | 0.0011 | s7HRA | Investigation of sensitivity to FB Aquifer permeability (fixed to upper bound estimate) | | |
| Unsaturated Pathway Hydraulic Conductivity (m/s) | LT: 1.09E-5, 8.6E-5, 0.0011 | 0.0011 | | | | |

6.4.3 sHRA Model Results

- ^{6.4.3.1} Simulated concentrations over time in groundwater immediately downstream of the Recovery Operation, for all chemical species under assessment at sHRA are illustrated *appendix 7*.
- ^{6.4.3.2} The degree of change in simulated concentrations at sHRA from that predicted at iHRA are presented below at *table 23* in summary.

| Model | Species | | 90 th Percentile | | 95 | ^{5th} Percentile | |
|---------|------------------------|-----------------------------|-----------------------------|---|--------------------------|---------------------------|---------------------------------|
| Name | | Change in Peak (mg/l) | Change in Peak (%) | Years to <eqs< th=""><th>Change in Peak (mg/l)</th><th>Change in Peak (%)</th><th>Years to <eqs< th=""></eqs<></th></eqs<> | Change in Peak (mg/l) | Change in Peak (%) | Years to <eqs< th=""></eqs<> |
| s1HRA | Ammoniacal | 0 | 0.00 | 0 | -1.40E-08 | -0.01 | 0 |
| | Nitrogen | | 750.44 | - | 7 005 05 | 695.64 | - |
| | Arsenic | 4.82E-05 | 752.44 | 0 | 7.33E-05 | 685.61 | 0 |
| | Cadmium | 2.30E-11 | 3.11E+09 | 0 | 1.10E-08 | 2.27E+03 | 0 |
| | Chloride | 2.02E-03 0 | 0.90 0 | 0 | 1.67E-03 | 0.59 | 0 |
| | Copper Lead | 0 | 0 | 0 | 0 | 0 | |
| | Mercury | 0 8.84E-10 | NA | 0 | 2.82E-08 | NA | 0 0 |
| | Sulphate | 4.37E-03 | 0.83 | 0 | 1.22E-08 | 1.84 | 0 |
| | Zinc | 4.37E-03 1.73E-12 | 4.86E+05 | 0 | 4.57E-02 | 1.84 | 0 |
| s2HRA | Ammoniacal | 5.18E-05 | 52.43 | 0 | 4.37E-08 7.75E-05 | 56.73 | 0 |
| SZANA | Nitrogen | | | | | | |
| | Arsenic | 6.00E-05 | 936.15 | 0 | 8.31E-05 | 777.93 | 0 |
| | Cadmium | 1.18E-08 | 1.60E+12 | 0 | 7.39E-08 | 1.52E+04 | 0 |
| | Chloride | 6.97E-03 | 3.11 | 0 | 1.11E-02 | 3.90 | 0 |
| | Copper | 0 | 0 | 0 | 0 | 0 | 0 |
| | Lead | 0 | 0 | 0 | 0 | 0 | 0 |
| | Mercury | 3.52E-12 | NA 1.02 | 0 | 1.11E-09 | NA | 0 |
| | Sulphate | 1.01E-02 | 1.92 | 0 | 2.54E-02 | 3.82 | 0 |
| -2110.4 | Zinc | 1.20E-06 | 3.39E+11 | 0 | 4.91E-06 | 1.13E+04 | 0 |
| s3HRA | Ammoniacal Nitrogen | -3.69E-06 | -3.73 | 0 | -3.14E-06 | -2.30 | 0 |
| | Arsenic | 4.54E-05 | 708.87 | 0 | 7.14E-05 | 668.08 | 0 |
| | Cadmium | 2.40E-11 | 3.24E+09 | 0 | 1.01E-08 | 2.09E+03 | 0 |
| | Chloride | 3.74E-03 | 1.67 | 0 | 4.68E-03 | 1.65 | 0 |
| | Copper | 0 | 0 | 0 | 0 | 0 | 0 |
| | Lead | 0 | 0 | 0 | 0 | 0 | 0 |
| | Mercury | 4.80E-10 | NA | 0 | 2.31E-08 | NA | 0 |
| | Sulphate | 6.55E-03 | 1.25 | 0 | 1.65E-02 | 2.48 | 0 |
| | Zinc | 2.34E-12 | 6.59E+05 | 0 | 6.59E-08 | 151.69 | 0 |
| s4HRA | Ammoniacal Nitrogen | -2.92E-05 | -29.48 | 0 | -4.23E-05 | -30.96 | 0 |
| | Arsenic | -1.95E-06 | -30.43 | 0 | -3.13E-06 | -29.29 | 0 |
| | Cadmium | -1.34E-19 | -18.02 | 0 | -1.58E-10 | -32.54 | 0 |
| | Chloride | -6.65E-02 | -29.72 | 0 | -8.08E-02 | -28.41 | 0 |
| | Copper | 0 | 0 | 0 | 0 | 0 | 0 |
| | Lead | 0 | 0 | 0 | 0 | 0 | 0 |
| | Mercury | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sulphate | -1.52E-01 | -28.97 | 0 | -1.92E-01 | -28.97 | 0 |
| | Zinc | -1.58E-16 | -44.48 | 0 | -1.42E-08 | -32.67 | 0 |
| s5HRA | Ammoniacal Nitrogen | -8.39E-05 | -84.86 | 0 | -1.16E-04 | -84.76 | 0 |
| | Arsenic | -5.47E-06 | -85.29 | 0 | -9.01E-06 | -84.31 | 0 |
| | Cadmium | -6.30E-19 | -85.00 | 0 | -4.10E-10 | -84.51 | 0 |
| | Chloride | -1.86E-01 | -83.21 | 0 | -2.34E-01 | -82.26 | 0 |
| | Copper | 0 | 0 | 0 | 0 | 0 | 0 |
| | Lead | 0 | 0 | 0 | 0 | 0 | 0 |
| | Mercury | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sulphate | -4.40E-01 | -83.71 | 0 | -5.47E-01 | -82.38 | 0 |
| | Zinc | -3.16E-16 | -89.05 | 0 | -3.66E-08 | -84.33 | 0 |
| s6HRA | Ammoniacal Nitrogen | 3.71E-04 | 374.71 | 0 | 4.19E-04 | 306.79 | 0 |
| | Arsenic | 2.95E-04 | 4.60E+03 | 0 | 3.62E-04 | 3.39E+03 | 0 |
| | Cadmium | 1.01E-08 | 1.36E+12 | 0 | 1.23E-07 | 2.53E+04 | 0 |
| | Chloride | 4.26E-01 | 190.52 | 0 | 4.24E-01 | 149.12 | 0 |
| | Copper | 0 | 0 | 0 | 0 | 0 | 0 |

| | Lead | 0 | 0 | 0 | 0 | 0 | 0 |
|----------------|--|-----------|----------|---|-----------|----------|---|
| | Mercury | 1.01E-10 | NA | 0 | 4.55E-08 | NA | 0 |
| | Sulphate | 8.77E-01 | 167.09 | 0 | 7.92E-01 | 119.14 | 0 |
| | Zinc | 2.81E-11 | 7.92E+06 | 0 | 8.19E-07 | 1.88E+03 | 0 |
| s7HRA | Ammoniacal | -9.31E-05 | -94.11 | 0 | -1.30E-04 | -94.88 | 0 |
| | Nitrogen | | | | | | |
| | Arsenic | -1.76E-06 | -27.39 | 0 | -4.47E-06 | -41.83 | 0 |
| | Cadmium | 2.90E-11 | 3.92E+09 | 0 | 1.03E-09 | 211.98 | 0 |
| | Chloride | -2.14E-01 | -95.64 | 0 | -2.74E-01 | -96.28 | 0 |
| | Copper | 0 | 0 | 0 | 0 | 0 | 0 |
| | Lead | 0 | 0 | 0 | 0 | 0 | 0 |
| | Mercury | 2.64E-10 | NA | 0 | 4.72E-09 | NA | 0 |
| | Sulphate | -5.05E-01 | -96.11 | 0 | -6.43E-01 | -96.83 | 0 |
| | Zinc | 7.34E-15 | 2.07E+03 | 0 | -3.49E-08 | -80.39 | 0 |
| NA: Not Applie | NA: Not Applicable, iHRA concentration at 0, % cannot be calculated. | | | | | | |

6.4.4 sHRA Discussion

6.4.4.1 Outline findings of the sensitivity analysis are described below at *table 24*.

| Table 24 sHRA Model Findings | | | | | |
|--|---------------|---|-------------|--|--|
| Parameter | Model | Discussion | Sensitivity | | |
| (units) Reduction to EBS Hydraulic Conductivity (m/s) | Name s1HRA | Widely resulted in concentration increases in groundwater, to substantial degree, notably for Arsenic, Cadmium and Zinc, likely due to reduced dilution. | Very High | | |
| Increase to EBS Hydraulic Conductivity (m/s) | s2HRA | Widely resulted in concentration increases in groundwater, to substantial degree, notably for Arsenic, Cadmium and Zinc, this to significantly greater extent than at s1HRA, due to the reduced attenuating effect of the EBS. | Very High | | |
| Increase Unsaturated Pathway Length (m) Increase Unsaturated Longitudinal Dispersivity (m/s) | s3HRA | Widely resulted in concentration increases in groundwater, to substantial degree, notably for Arsenic, Cadmium and Zinc, likely due to reduced dilution. | Very High | | |
| Increase Saturated Pathway Aquifer Thickness (m) | s4HRA | Widely resulted in concentration decreases in groundwater to moderate extent, due to the increased dilution offered by greater aquifer saturated thickness. | Moderate | | |
| Increase Saturated Pathway Regional Gradient (dimensionless) | s5HRA | Widely resulted in concentration decreases in groundwater to significant extent, due to the increased dilution offered by greater aquifer flow rates. | High | | |
| Reduce Unsaturated Pathway Hydraulic Conductivity (m/s) Reduce Saturated Pathway Hydraulic Conductivity (m/s) | s6HRA | Widely resulted in concentration increases in groundwater to substantial extent, due to the reduced dilution offered by greater aquifer flow rates. | Very High | | |
| Increase Unsaturated Pathway Hydraulic Conductivity (m/s) Increase Unsaturated Pathway Hydraulic Conductivity (m/s) | s7HRA | Widely resulted in concentration decreases in groundwater to substantial extent, due to the increased dilution offered by greater aquifer flow rates. | Very High | | |

6.4.4.2 Sensitivity analysis has identified varying degrees of sensitivity to modelled parameters. It is considered that, through application of a range of parameters at iHRA, and further

exploration at sHRA, the influence of this sensitivity has been adequately accounted for in model parameterisation.

^{6.4.4.3} It should be noted that, as for iHRA, all sHRA model runs, regardless of sensitivity to varied parameters, returned species concentrations in groundwater immediately down hydraulic gradient of the Recovery Operation remained within EQS limits.

6.5 Rogue Load Assessment (rHRA)

- ^{6.5.1} An assessment of the potential for impact on the Aquifer that could result from the deposition of materials exceeding the WAC limits applicable to the Site (Rogue Loads) has been undertaken.
- ^{6.5.2} The iHRA model has been repeated for a hypothetical scenario wherein all wastes deposited contain species concentrations set in line with C₀ percolation test values as defined within the Council Decision.
- ^{6.5.3} C₀ percolation test values for inert materials are representative of the initial flush of contaminants following their placement. As the full waste mass will not be deposited simultaneously, and C₀ values would not be expected to persist for sustained duration, application of such source term concentrations across the full infill mass for the full model duration represents significant exceedance of WAC limits, presenting a conservative approach for the estimation of the potential impacts of rogue load deposition.

6.5.2 rHRA Model Parameterisation

^{6.5.2.1} The variables subject to rogue load assessment are detailed below at *table 25*. All variables other than those assigned for such analysis have been maintained at the values described at *section 6.3.2* for iHRA.

| Chemical | Source Concentration (% change from iHRA Upper Value) | Chemical | Source Concentration (% change from iHRA Upper Value) | | | |
|--|---|----------|--|--|--|--|
| Ammoniacal Nitrogen* | 0.285 | Lead | 0.15 | | | |
| Arsenic | 0.06 | Mercury | 0.002 | | | |
| Cadmium | 0.02 | Sulphate | 1,500 | | | |
| Chloride | 460 | Zinc | 1.2 | | | |
| Copper | 0.6 | | | | | |
| All units are mg/l. *: Ammoniacal Nitrogen concentrations have been derived from Site monitoring data and are increased by 50% for the purposes of Rogue Load assessment in lieu of their inclusion within the Council Decision. | | | | | | |

All source term concentrations ascribed as single value.

6.5.3 rHRA Model Results

- 6.5.3.1 Simulated concentrations over time in groundwater immediately downstream of the Recovery Operation, for all chemical species under assessment at rHRA are provided at *appendix 7*.
- ^{6.5.3.2} The degree of change in simulated concentrations at rHRA from that predicted at iHRA are presented below at *table 26* in summary.

| Table 26 rHRA Change in Simulated Concentrations in Groundwater Adjacent the Recovery Operation | | | | | | | | |
|---|------------------------|-----------------------------|-----------------------------|---|--------------------------|-----------------------------|---------------------------------|--|
| Model | Species | 9 | 90 th Percentile | | | 95 th Percentile | | |
| Name | | Change in Peak (mg/l) | Change in Peak (%) | Years to <eqs< th=""><th>Change in Peak (mg/l)</th><th>Change in Peak (%)</th><th>Years to <eqs< th=""></eqs<></th></eqs<> | Change in Peak (mg/l) | Change in Peak (%) | Years to <eqs< th=""></eqs<> | |
| rHRA | Ammoniacal Nitrogen | 3.96E-04 | 400.68 | 0 | 5.42E-04 | 397.15 | 0 | |
| | Arsenic | 1.57E-05 | 244.15 | 0 | 3.00E-05 | 280.64 | 0 | |
| | Cadmium | -1.20E-19 | -16.14 | 0 | -4.85E-10 | -100.00 | 0 | |
| | Chloride | 3.25E+00 | 1455.23 | 0 | 4.06E+00 | 1426.97 | 0 | |
| | Copper | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Lead | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Mercury | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Sulphate | 1.10E+01 | 2097.88 | 0 | 1.40E+01 | 2111.03 | 0 | |
| | Zinc | 1.13E-15 | 318.31 | 0 | -2.88E-08 | -66.36 | 0 | |

6.5.4 rHRA Discussion

- ^{6.5.4.1} The rHRA results provide an assessment of continued and sustained Rogue-Load deposition (in effect all imported material falling significantly outside the inert waste criteria required for acceptance to the Site).
- 6.5.4.2 The Rogue Load assessment is considered to represent an extreme failure of management and protocol for operation of the Site.
- ^{6.5.4.3} Although this is not expected to be reflective of the actual infill operation, it should be noted that all determinands assessed at rHRA remain within the relevant EQS as at iHRA and sHRA.
- ^{6.5.4.4} The Rogue Load assessment indicates the chemical species to which model results are most sensitive in terms of source concentrations are Chloride, Sulphate (showing a percentage change from iHRA at the 95th percentile of 1,426%, and 2,111% respectively).

6.6 Baseline Water Quality Assessment (bHRA)

^{6.6.1} Further assessment of the iHRA model has been undertaken via introduction of baseline groundwater quality data as characterised at *section 2.10.2*. This allows consideration of the combined effect of potential contaminant release from the Recovery Operation and baseline groundwater quality relative to EQS.

6.6.2 bHRA Model Parameterisation

^{6.6.2.1} The variables subject to baseline water quality assessment are detailed below at *table* 27. All variables other than those assigned for such analysis have been maintained at the values described at *section 6.3.2* for iHRA.

| Table 27 bHRA Model Parameterisation: Background Groundwater Quality | | | | | | |
|---|-----------------------------|----------|--------------------------|--|--|--|
| Chemical | Background Concentration | Chemical | Background Concentration | | | |
| Ammoniacal Nitrogen | LT: 0.01, 0.62, 6.9 | Lead | S: 0.001 | | | |
| Arsenic | S: 0.001 | Mercury | LT: 3E-5, 3.1E-5, 5E-5 | | | |
| Cadmium | LT: 2E-5, 4.7E-5, 1E-4 | Sulphate | LT: 113, 151.69, 201 | | | |
| Chloride | LT: 58, 124.44, 436 | Zinc | LT: 0.003, 0.028, 0.116 | | | |
| Copper | S: 0.001 | | | | | |
| All units are mg/l. LT: X, Y, Z: Log-Triangular parameter distribution assumed; X, Y, Z representing bounding minimum, average and maximum recorded baseline concentrations across the full available data set for PZ2-21 and PZ3-21. S: Single value ascribed where concentrations are consistent. Baseline data applied collected prior to November 2021. | | | | | | |

6.6.3 bHRA Model Results

- 6.6.3.1 Simulated concentrations over time in groundwater immediately downstream of the Recovery Operation, for all chemical species under assessment at bHRA are illustrated *appendix 7*.
- ^{6.6.3.2} The degree of change in simulated concentrations at bHRA relative to maximum baseline concentrations characterised at *section 7* are presented below at *table 28* in summary.

| Table 28 bHRA Change in Simulated Concentrations in Groundwater Adjacent the Recovery Operation | | | | | | ו | |
|---|------------------------|--|--|---|--|--|---------------------------------|
| Model | Species | 90 th Percentile | | | | th Percentile | |
| Name | | Change from Baseline Peak (mg/l) | Change from Baseline Peak (%) | Years to <eqs< th=""><th>Change from Baseline Peak (mg/l)</th><th>Change from Baseline Peak (%)</th><th>Years to <eqs< th=""></eqs<></th></eqs<> | Change from Baseline Peak (mg/l) | Change from Baseline Peak (%) | Years to <eqs< th=""></eqs<> |
| bHRA | Ammoniacal Nitrogen | -5.19E+00 | -75.17 | NA | -4.39E+00 | -63.62 | NA |
| | Arsenic | 5.92E-05 | 5.92 | 0 | 9.09E-05 | 9.09 | 0 |
| | Cadmium | -3.01E-05 | -30.14 | 0 | -2.19E-05 | -21.88 | 0 |
| | Chloride | -1.80E+02 | -41.32 | NA | -1.34E+02 | -30.80 | NA |
| | Copper | 0 | 0 | 0 | 0 | 0 | 0 |
| | Lead | 0 | 0 | 0 | 0 | 0 | 0 |
| | Mercury | -7.72E-06 | -15.44 | 0 | -4.76E-06 | -9.52 | 0 |
| | Sulphate | -2.22E+01 | -11.03 | 0 | -1.62E+01 | -8.07 | 0 |
| | Zinc | -5.96E-02 | -51.42 | 0 | -4.97E-02 | -42.87 | 0 |
| NA: Not Appli | cable, Exceeds E | QS throughou | t model duratic | n due to ba | seline data EQS e | xceedance. | |

6.6.4 bHRA Discussion

- Adaptation of the iHRA model to account for baseline groundwater quality results in a significant and universal increase in species concentrations in groundwater relative to iHRA. It should be noted that model results show immediate and permanent exceedance of EQS for Ammoniacal Nitrogen and Chloride. This is due to peak background concentrations in groundwater for these chemical species exceeding their associated EQS.
- 6.6.2 Examination of model output relative to background concentrations however results in a reduction in modelled concentrations in groundwater immediately down hydraulic

gradient from the Recovery Operation, for the majority of modelled chemical species, of between 0% and 75%.

- ^{6.6.3} This effect is a result of the low species concentrations predicted to be generated by the Recovery Operation relative to background groundwater quality, dilution of which results in a net reduction in species concentrations across the modelled domain.
- ^{6.6.4} In the case of Arsenic, minor increases in concentrations relative to baseline are predicted, though these remain below 10% and below the EQS.
- Assessment thus indicates that the Recovery Operation will not have a significant detrimental impact on prevailing groundwater quality.
- ^{6.6.6} It should be noted that this conclusion is based upon a limited groundwater quality data set. Whilst additional data collection may detect a greater range in baseline concentrations, the above described effect of the Recovery Operation is not anticipated to be altered, due to predicted contaminant concentrations being typically below those of groundwater, upon which a diluting effect is generally indicated.

6.7 Model Conservatism

^{6.7.1} The Landsim model developed at HRA is considered to be conservative (*i.e.* it produces simulations that tend toward over-estimation of likely concentrations); the principal conservative influences being summarised below at *table 29*.

| Table 29 Principal | Table 29 Principal Conservative Factors Adopted by Quantitative HRA | | | | | | |
|-----------------------------------|--|--|--|--|--|--|--|
| Modelled Parameters | Model Representation | Comment | | | | | |
| Leachate Source Concentrations | Minimum Values: Individual chemical species ascribed values set at averages established from results of 40-no. WAC leaching tests undertaken as part of an investigation associated with a proposed redevelopment involving excavation of materials to be sent to an inert waste disposal site. Maximum Values: Set at maximum WAC limits for inert waste. | The leaching test data used to set minimum source term concentrations for individual chemical species were obtained from tests undertaken upon samples from a site with long and intensive industrial history and are therefore considered likely to describe concentrations that are substantially elevated above the norm for the waste stream that is anticipated to supply the Recovery Operation. Adoption of the upper WAC for inert waste to establish maximum leachate source concentrations will inevitably over-state the total chemical loading within the modelled infill. This is because, in reality, the actual species concentrations within waste accepted at the Recovery Operation will almost always be lower than the WAC limits. | | | | | |
| Innate Species Retardation | Minimum partition coefficients (Kd values) for individual chemical species have been set at the lower Manual Values. Maximum Kd values are set at 25% of the upper Manual Values. | On balance, when considering all chemical species assessed by the model, the adoption of a range of Kd values within the lowest 25 th percentile of the Manual Values is considered likely to underestimate the degree of attenuation that will occur in reality. | | | | | |

7 CONTROL AND COMPLIANCE MONITORING

7.1 Background

- ^{7.1.1} Groundwater Control Levels are site-specific assessment criteria used to determine whether the Recovery Operation is performing as designed and intended, and to draw attention to the development of adverse trends in the monitoring data.
- 7.1.2 Groundwater Control Levels should be regarded as an early warning system and breaches should lead to appropriate investigation or implementation of corrective measures.
- ^{7.1.3} Breaches of Groundwater Control Levels should not, however, ordinarily be interpreted as an indication that groundwater pollution has occurred.
- In more detail, the purpose of Groundwater Control Levels is to:
 - Highlight variations between the conceptual model (including the results of quantitative risk assessment) and observed conditions.
 - Identify unambiguous adverse trends which are indicative of leachate impacts.
 - Allow for variation in natural water quality from baseline conditions.
 - Give sufficient time to take corrective or remedial action before Compliance Limits are breached.
- ^{7.1.5} EA guidance²¹ requires that Groundwater Compliance Limits for potentially polluting substances be set at the point where pollution can be said to have occurred and can be detected by monitoring.
- ^{7.1.6} A change in groundwater quality to a concentration below the compliance limits would be acceptable, but a concentration at or above the compliance limit would be unacceptable.

7.2 Selection of Monitoring Points

- A review has been undertaken of the groundwater quality monitoring data (*section 2.10.2*) and the location of Site piezometers relative to the Recovery Operation and groundwater flow direction (*figure 13*).
- 7.2.2 Review indicates that piezometer PZ3-21 constitutes the most appropriate monitoring point for down-gradient Groundwater Control Level and Compliance Limit surveillance to be undertaken during and following operation of the HRA / HRA2 Recovery Operation.

7.3 Derivation of Control Levels and Compliance Limits

- 7.3.1 Derivation of Control Levels and Compliance Limits has involved a two-stage process including:
 - Selection of appropriate chemical species.

^{21 &}quot;Additional guidance for hydrogeological risk assessments for landfills and the derivation of groundwater control levels and compliance limits", EA Horizontal Guidance Note H1 – Annex J3, Version 2.1, December 2011.

- Justification and enumeration of level and limit values.
- Enumeration of level and limit values being based upon: 7.3.2
 - Characteristic statistics calculated from background water quality data-sets compiled for the Aquifer.
 - Where necessary, upon the results of HRA numerical model simulations.

7.3.2 Initial Screening

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7.3.2.2

- Groundwater quality monitoring, as presented at appendix 3, with sample locations as 7.3.2.1 presented at figure 13, has been consulted to allow initial screening of the available data in order to assess its suitability for the derivation of control levels / compliance limits. This has included assessment of its suitability for derivation of such levels / limits via statistical analysis, as below at section 7.3.3.
- Table 30 Initial Screening of Baseline Groundwater Quality Data, HRA Simulated Determinands

This initial screening is presented below at *table 30*.

| Species | Discussion | Suitability for Control Levels / Compliance Limits | Suitability for Statistical Analysis |
|-------------------------|---|--|---|
| Ammoniacal Nitrogen | Baseline data exceeds EQS | Unsuitable | Unsuitable |
| Arsenic | Arsenic Baseline data recorded at LOD. Suitab | | Unsuitable |
| Cadmium | Within EQS, part of dataset at LOD. | Suitable | Suitable |
| Chloride | Baseline data exceeds EQS | Unsuitable | Unsuitable |
| Copper | Within EQS, majority of dataset at LOD. | Suitable | Unsuitable |
| Lead | Within EQS, majority of dataset at LOD. | Suitable | Unsuitable |
| Mercury | Within EQS, majority of dataset at LOD. | Suitable | Unsuitable |
| Sulphate | Within EQS | Suitable | Suitable |
| Zinc | Within EQS | Suitable | Suitable |
| LOD: Limit of Detection | | | |

7.3.3 Statistical Analysis of Background Data

- In accordance with EA guidance²², statistical techniques are to be applied to assess the 7.3.3.1 suitability of the background groundwater quality data compiled for Site piezometers with respect to setting groundwater Control Levels and Compliance Limits.
- This involves the computation of D'Agostino's Test³⁰ to determine the distribution 7.3.3.2 characteristics of the time-series data for the relevant determinands detailed above, which requires assessment of:
 - The characteristic statistical distribution for each chemical species.
 - The mean of this data plus 2 and 3 standard deviations ($\mu + x\sigma$).
 - Whether these values have been exceeded by the maximum recorded background concentration (bqMAX).

^{22&}quot; Techniques for the Interpretation of Landfill Monitoring Data" (Guidance Notes), EA Final technical report P1-471, 2002.

- Whether these values exceed RWQS.
- It is generally accepted that derivation of Control Level and Compliance Limit values as 7.3.3.3 a function of the statistical characteristics of a groundwater quality data-set is valid when:
 - That data-set is either normally or log-normally distributed.
 - Both the μ + 2 σ and μ + 3 σ exceed bqMAX.
 - Both the μ + 2 σ and μ + 3 σ are below RWQS. •
- Where such conditions are met, the general expectation is that Control Levels and 7334 Compliance Limits may be appropriately defined at the μ + 2 σ and μ + 3 σ values respectively²³.
- Analysis has been conducted only upon determinands identified to be potentially 7.3.3.5 suitable for derivation of control levels / compliance limits via such means by initial screening (as at table 30).
- Analysis has been conducted focusing upon both down hydraulic gradient piezometers 7336 (Piezometer PZ3-21, figure 13) and up hydraulic gradient piezometers (Piezometer PZ2-21, figure 13) to ensure the full range in background concentrations is accounted for. The results of this analysis are presented at *appendix 8*, with summary detail at *table 31* below.

| Table 31 Characteristic Statistics of Selected Background Quality Data | | | | | | |
|--|--------|-------------------------------------|-------------------|-------------------|-------|--|
| Chemical | bqMAX* | bqMAX* Distribution $\mu + 2\sigma$ | | μ+3σ | EQS | |
| | | | | | | |
| | | | | | | |
| Down Gradient | | | | | | |
| Cadmium | 0.0001 | ND / LND | 0.00011 / 0.00014 | 0.00014 / 0.00026 | 0.005 | |
| Sulphate | 201 | ND / LND | 214 / 223.5 | 238 / 261.7 | 250 | |
| Zinc | 0.099 | LND | 0.133 | 0.418 | 5 | |
| Up Gradient | | | | | | |
| Cadmium | 0.0001 | ND / LND | 0.00011 / 0.00012 | 0.00014 / 0.00018 | 0.005 | |
| Sulphate | 163 | NA | NA | NA | 250 | |
| Zinc | 0.116 | ND / LND | 0.126 / 0.313 | 0.165 / 1.020 | 5 | |
| EQS: Environmental Quality Standards | | | | | | |

bqMAX: Maximum recorded background concentration.

ND: Normally distributed, LND: Log-normally distributed, NA - Neither normal or log-normally distributed. ¹: Exceeded by bgMAX

Italic: Suitable for application in derivation of Control Level / Compliance Limit

*Specific to POC (Piezometer 11)

All units in mg/

7.4 Enumerated Control Levels and Compliance Limits

Enumeration of Control Levels and Compliance Limits has been undertaken on a tiered 7.4.1.1 approach, as follows:

²³ μ + 2 σ (two-standard deviations around the mean) = 95.45% around the mean = 97.725th percentile*.

 $[\]mu$ + 3 σ (three-standard deviations around the mean) = 99.73% around the mean = 99.865th percentile*.

^{(* -} percentiles being the notation most widely used for reporting of model simulations by LandSim).

- Applied only to determinands identified to be suitable as at *table 30*.
- Defined by statistical analysis as at *section 7.3.3* for down gradient piezometers.
- Defined by statistical analysis as at *section 7.3.3* for up gradient piezometers where down gradient results are unsuitable (improper statistical distribution, results below baseline maxima, results above RWQS).
- Defined by iHRA modelled results where statistical analysis results are unsuitable (improper statistical distribution, results below baseline maxima, results above RWQS).
- Compliance Limits set at baseline maxima + 50% of the difference between baseline maxima and RWQS, Control Levels set at baseline maxima + 50% of the difference between baseline maxima and Compliance Limits, where model results unsuitable (below baseline maxima).
- The resulting Control Levels and Compliance Limits, applicable to the Recovery Operation are presented at *table 32*, and are presented graphically at *figure 32*.

| Table 32 Control L | Table 32 Control Levels and Compliance Limits | | | | | | |
|--------------------|---|---|------------------|---|--|--|--|
| Chemical | Control Level | Derivation | Compliance Limit | Derivation | | | |
| | | | | | | | |
| Arsenic | 0.00106 | bHRA model results | 0.00119 | bHRA model results | | | |
| Cadmium | 0.00014 | Statistical analysis, down gradient, log normal distribution. | 0.00026 | Statistical analysis, down gradient, log normal distribution. | | | |
| Copper | 0.50225 | Baseline data | 1.002 | Baseline data | | | |
| Lead | 0.00325 | Baseline data | 0.0055 | Baseline data | | | |
| Mercury | 0.000288 | Baseline data | 0.000525 | Baseline data | | | |
| Sulphate | 223.5 | Statistical analysis, down gradient, log normal distribution. | 238 | Statistical analysis, down gradient, normal distribution. | | | |
| Zinc | 0.133 | Statistical analysis, down gradient, log normal distribution. | 0.418 | Statistical analysis, down gradient, log normal distribution. | | | |
| All units in mg/l | | | | | | | |

7.5 Monitoring / Reporting Requirements

7.5.1 Monitoring Requirements

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The groundwater monitoring recommended to be undertaken in association with the Recovery Operation is detailed at *table 33*, with monitoring locations being presented at *figure 13*.

| Table 33 Recommend | Table 33 Recommended Monitoring | | | | | |
|-------------------------------|---|--|-----------|--|--|--|
| Location (<i>figure 13</i>) | Purpose | Monitoring Requirements | Frequency | | | |
| PZ3-21* | Control and compliance monitoring. Surveillance monitoring, down hydraulic gradient groundwater. | Field Determinands:Water Elevation, pH, temperature, Electrical Conductivity, Redox potential.Laboratory Determinands:Arsenic, Cadmium, Copper, Lead, Mercury, Sulphate, Zinc.Additional Laboratory Determinands:PAHs, PCBs, Phenols, Antimony, Barium, Chloride, Chromium, Dissolved Organic Carbon, Fluoride, Mercury, Molybedenum, Nickel, Selenium, Sulphate, Total Organic Carbon | Quarterly | | | |
| PZ2-21 | Surveillance | As for PZ3-21 | Quarterly | | | |
| | monitoring | As for PZ3-21 | Annually | | | |
| PZ4-21 | Surveillance | As for PZ3-21 | Quarterly | | | |
| | monitoring | As for PZ3-21 | Annually | | | |
| *Control and Complia | nce monitoring poir | nt subject to associated limits described at <i>ta</i> | ble 34. | | | |

7.5.2 Routine Quarterly Assessment

- ^{7.5.2.1} Immediately upon receipt of laboratory data, results for Piezometer PZ3-21 should be compared with the prescribed groundwater Control Levels and Compliance Limits (*table 32*).
- ^{7.5.2.2} In the event that either Control Levels or Compliance Limits are found to have been breached during routine quarterly assessment, the monitoring frequency shall be increased to monthly.
- 7.5.2.3 Monitoring shall return to a quarterly frequency only following 2-no. consecutive monthly monitoring rounds undertaken without breach of Control Levels and / or 3-no. consecutive monitoring rounds undertaken without breach of Compliance Limits.
- ^{7.5.2.4} In the event that Control Levels are breached for 3-no. successive monthly monitoring rounds, or Compliance Limits breached for 2-no. successive monthly monitoring rounds, then the relevant Contingency Actions described at *table 34* below shall be implemented.

| Table 34 Contingency Actions | | |
|---|--------------|--------------|
| Contingency Action | Control | Compliance |
| | Level Breach | Limit Breach |
| Advise Site management | \checkmark | \checkmark |
| Advise the environmental manager of the operating company | \checkmark | \checkmark |
| Advise the Environment Agency | | \checkmark |
| Confirm by repeat sampling and analysis | \checkmark | \checkmark |
| Review existing monitoring information | \checkmark | \checkmark |
| Review site management and operations, and implement actions to prevent | \checkmark | |
| future failure of a compliance limit | | |
| Review the assumptions incorporated into the site conceptual model | | \checkmark |
| Review existing hydrogeological risk assessment, control levels and compliance | | \checkmark |
| limits* | | |
| If risks are unacceptable set in place procedures for implementing corrective | | \checkmark |
| measures in consultation with or required by the Environment Agency | | |
| * This should include a re-evaluation of whether the baseline conditions have changed since the last risk | | |
| assessment. | | |

8 SUMMARY AND CONCLUSIONS

- BCL have undertaken a hydrological and hydrogeological baseline study and quantitative Hydrogeological Risk Assessment (HRA) of a planned Waste Recovery Operation using imported inert materials at Wrotham Quarry, Addington, Kent. This is to facilitate the buttressing of unstable faces within an existing mineral extraction void.
- Assessment has commenced with the compilation and assessment of publicly available and Site-specific data sources, allowing baseline conditions to be characterised.
- ^{8.3} This has been followed by description of the design and working methods of the Recovery Operation under both scenarios.
- ^{8.4} The above have been combined in development of a Conceptual Hydrogeological Model (CHM) and Conceptual Site Model (CSM) for each scenario, using a source, pathway, receptor methodology.
- The CSM for each scenario has been separately subjected to appropriate quantitative risk assessment. The resultant risk assessment models have been subject to sensitivity analysis to identify modelled parameters that have the strongest control on model results and to account for variability in input parameters where expected. The risk assessment models have further been applied to assess the potential impact of the deposition of Rogue Loads within the Recovery Operation.
- ^{8.6} For all chemical species assessed, under all assessment scenarios, simulation indicates that those chemicals already present below relevant regulatory water quality standards will remain under those standards when accounting for the simulated contribution of leachate from the Recovery Operation.
- ^{8.7} Numerical risk assessment has thus demonstrated that the recovery of inert waste at the Site will not introduce significant risk to the groundwater quality at the Site.
- Model predictions additionally show that the Recovery Operation will operate without generation of a head of leachate in excess of the available freeboard within the liner (i.e. [potential] leakage will significantly exceed infiltration).
- ^{8.9} It is concluded that there is no requirement for any additional control or management measures beyond the waste acceptance quality control procedures (generic to inert infill materials) that will attend the Recovery Permit.
- ^{8.10} It is however necessary to establish a programme for monitoring of water quality, against which any impacts resulting from the Recovery Operation can be assessed against Control Levels and Compliance Limits.
- Analysis of baseline groundwater chemistry data has thus been undertaken, from which such Control Levels and Compliance Limits have been derived, with appropriate monitoring and reporting also having been specified.
- ^{8.12} It is therefore concluded that, based on currently available information, the Recovery Operation can be undertaken in full compliance with relevant water resource regulations. There are considered to be no over-riding hydrogeologically or hydrologically based reasons why the proposal should not receive an EP in this regard.



This conclusion assumes completion and operation of the Site as described herein, and that any such permit, if granted, should be conditioned by implementation and adherence to any relevant recommendations advanced within this report and other such EP conditions that may be reasonably imposed by the Environment Agency.

1

Peter Simpson, BSc, MSc,FGS Principal Hydrogeologist

BCL Consultant Hydrogeologists Limited 16th June 2022



S/QPL/FG/WRQ/HRA22/03



Ferns Group Wrotham Quarry Addington, Kent

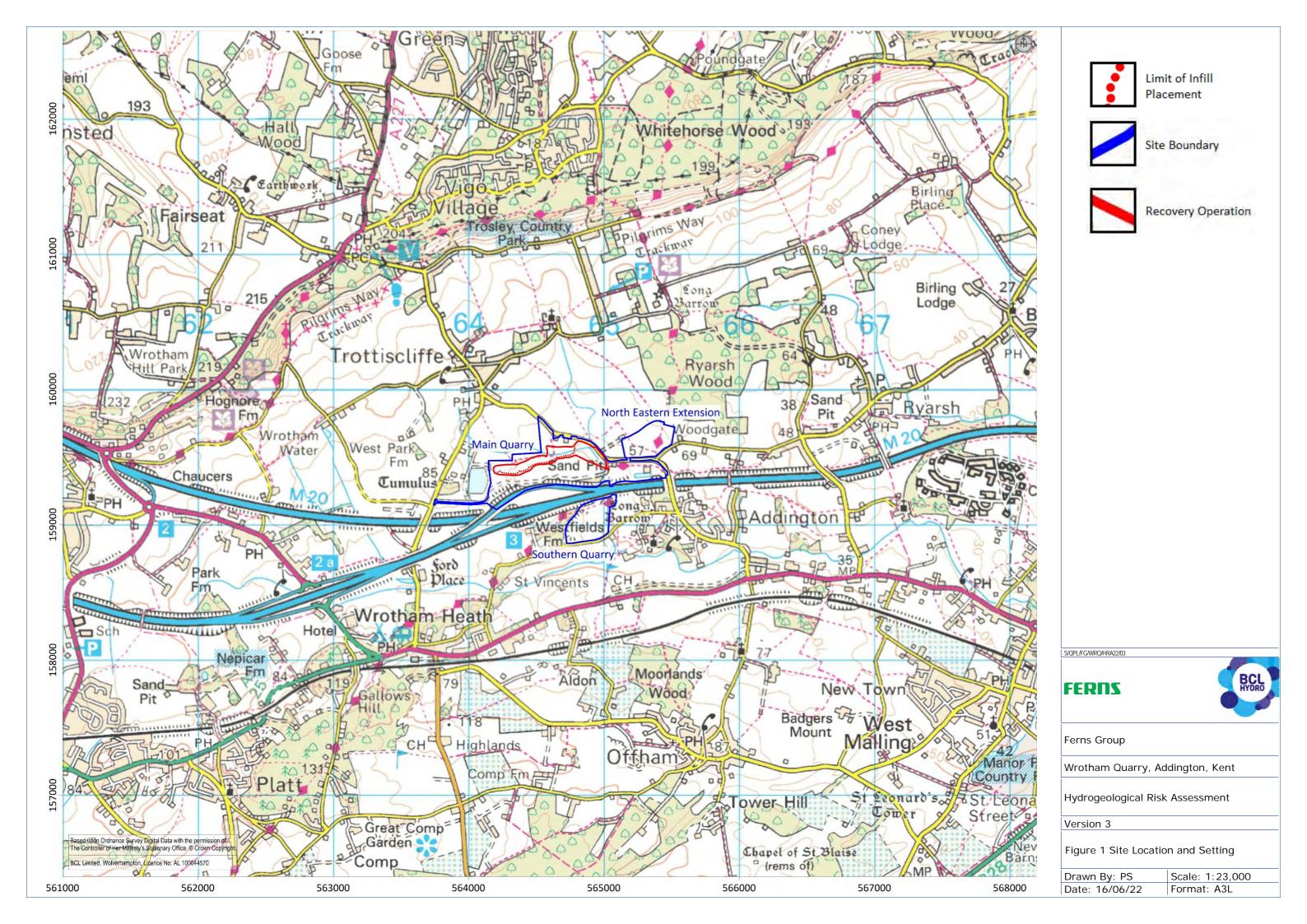
Environmental Permit Application Buttressing of Quarry Faces Using Inert Materials Hydrogeological Risk Assessment

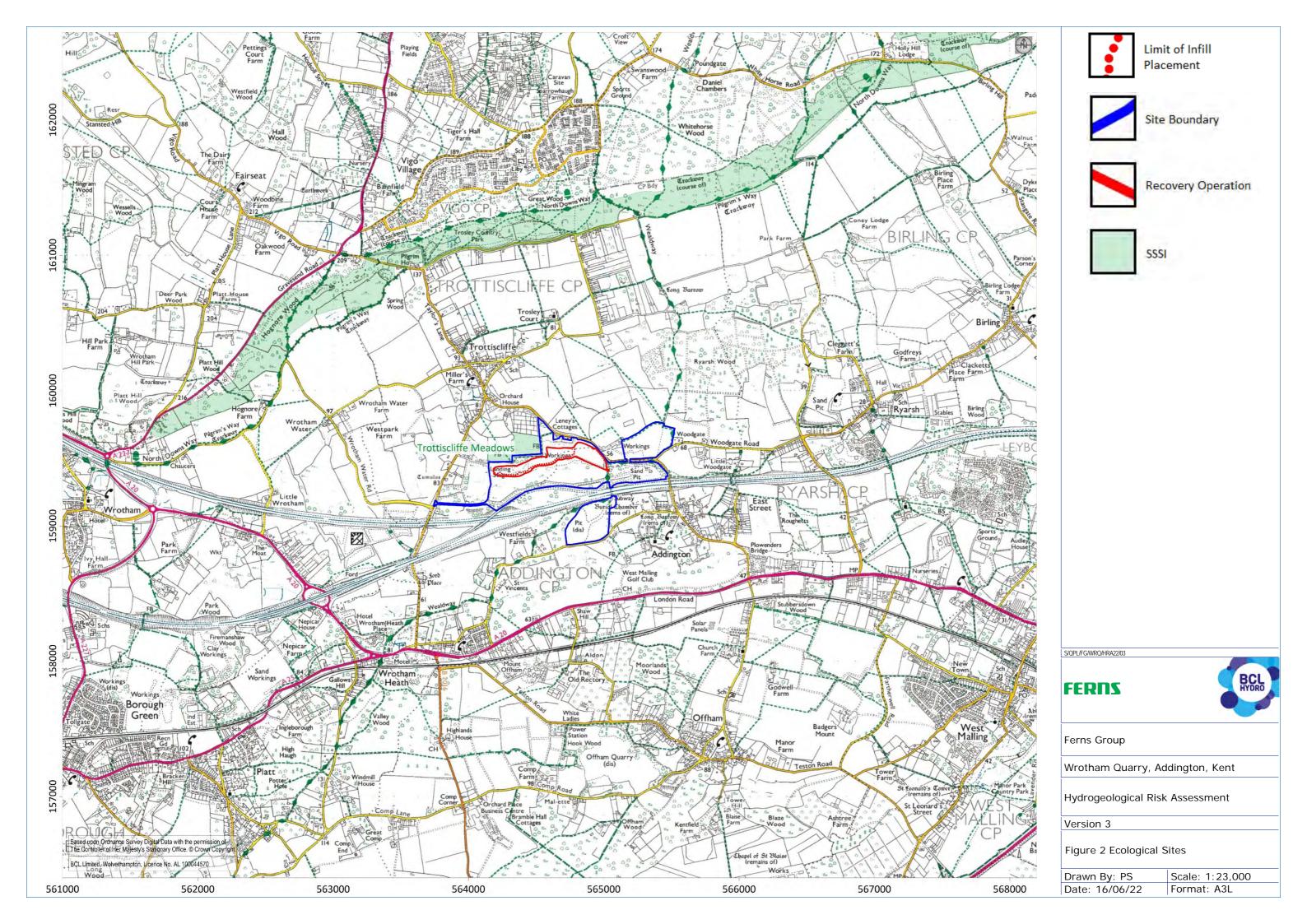
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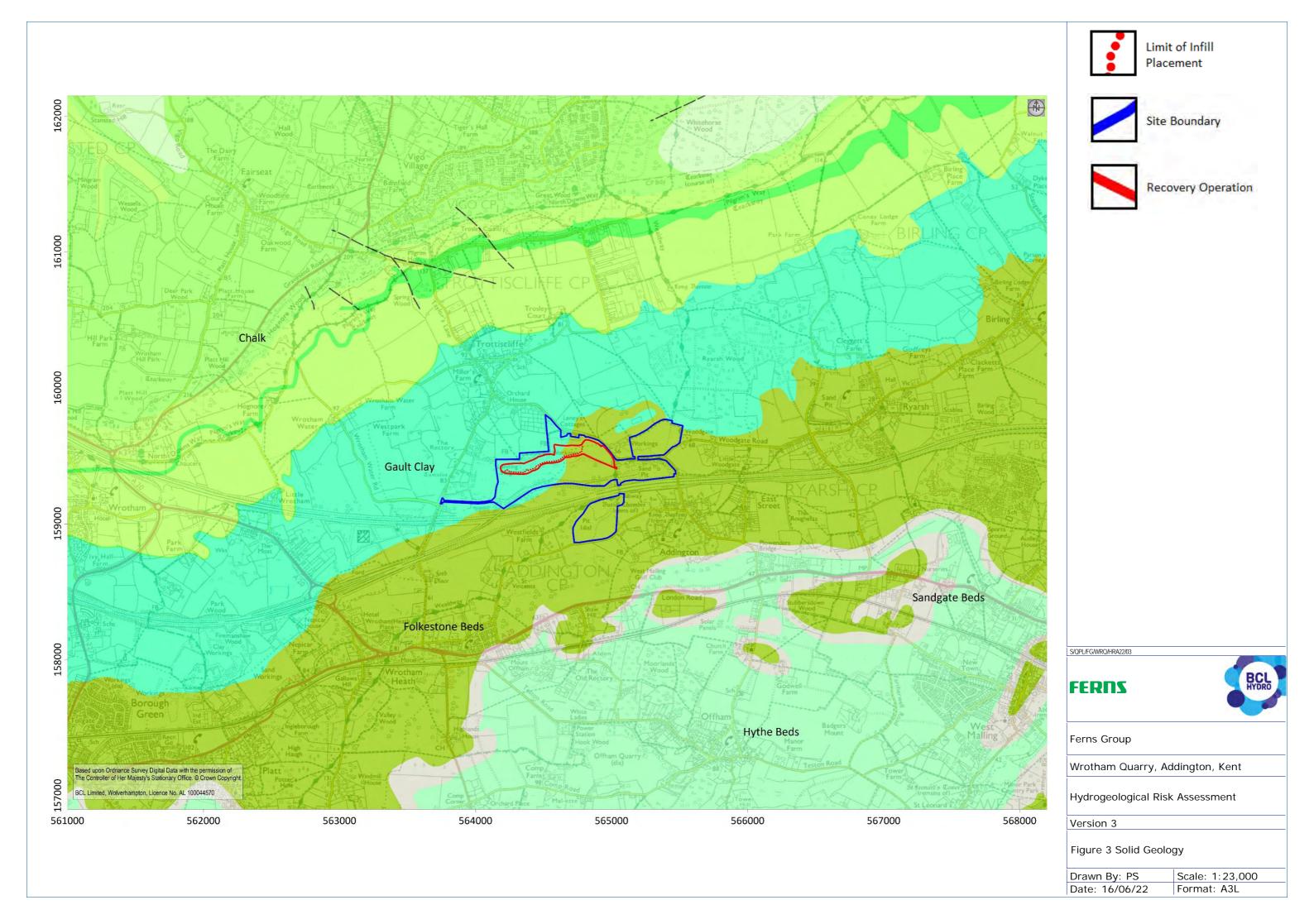
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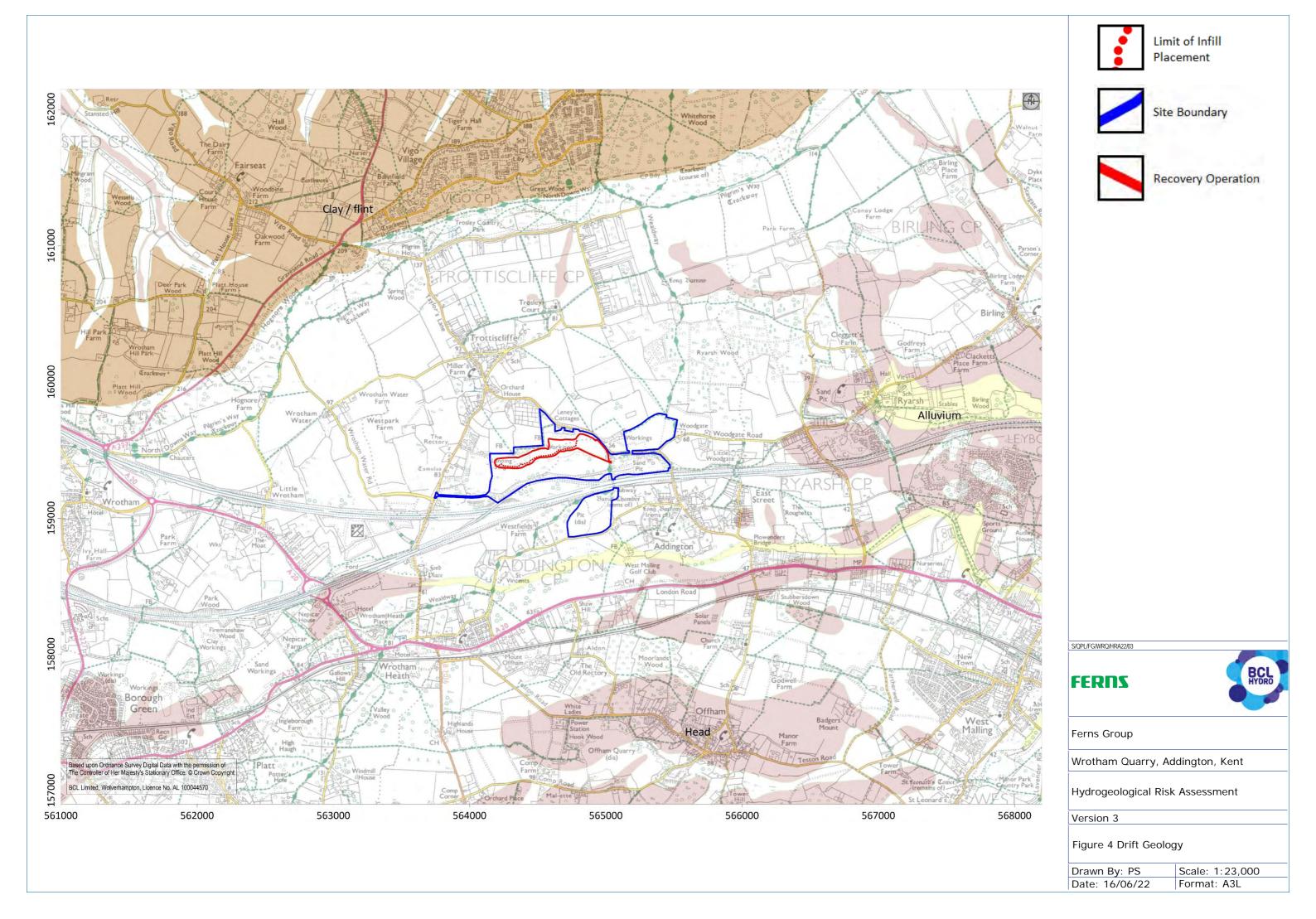


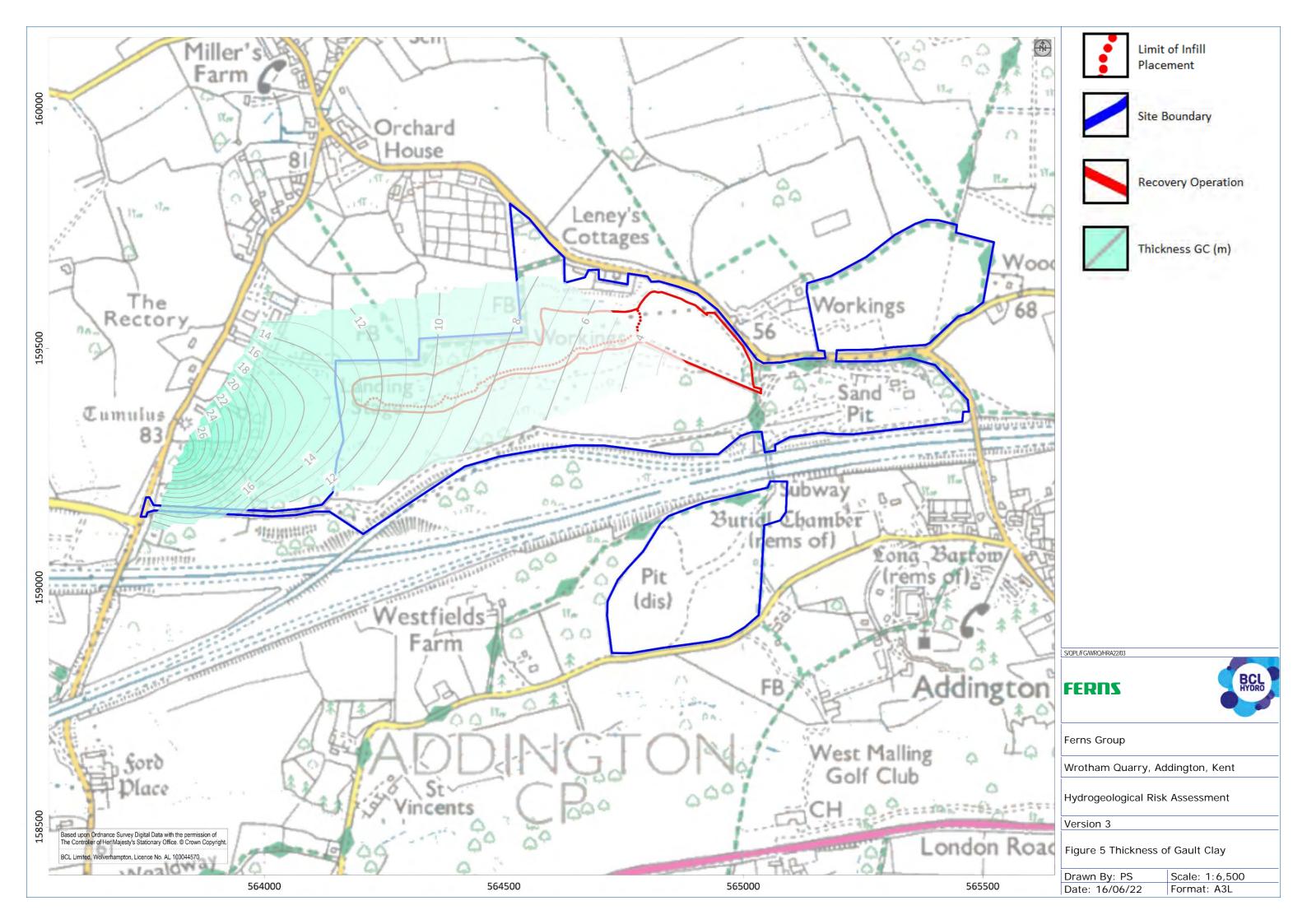
Technology Centre, Wolverhampton Science Park, Glashier Drive, Wolverhampton West Midlands, WV10 9RU. Tel: 01902 824111, Fax: 01902 824112 email: info@bclhydro.co.uk, web: http://www.bclhydro.co.uk Registered Office: 33, Wolverhampton Road, Cannock, West Midlands, WV11 1AP Registered in England & Wales. Company Registration Number: 4043373

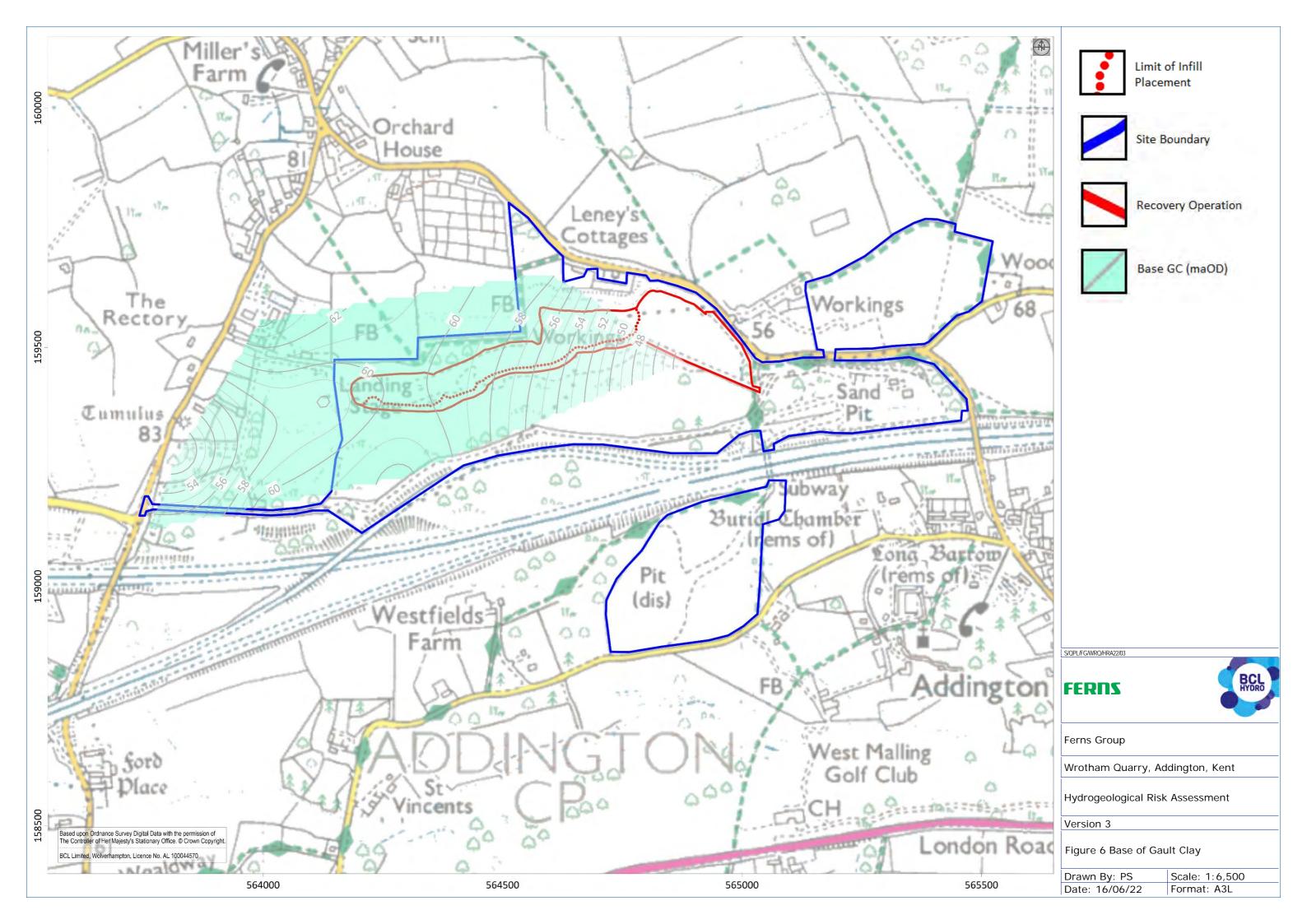


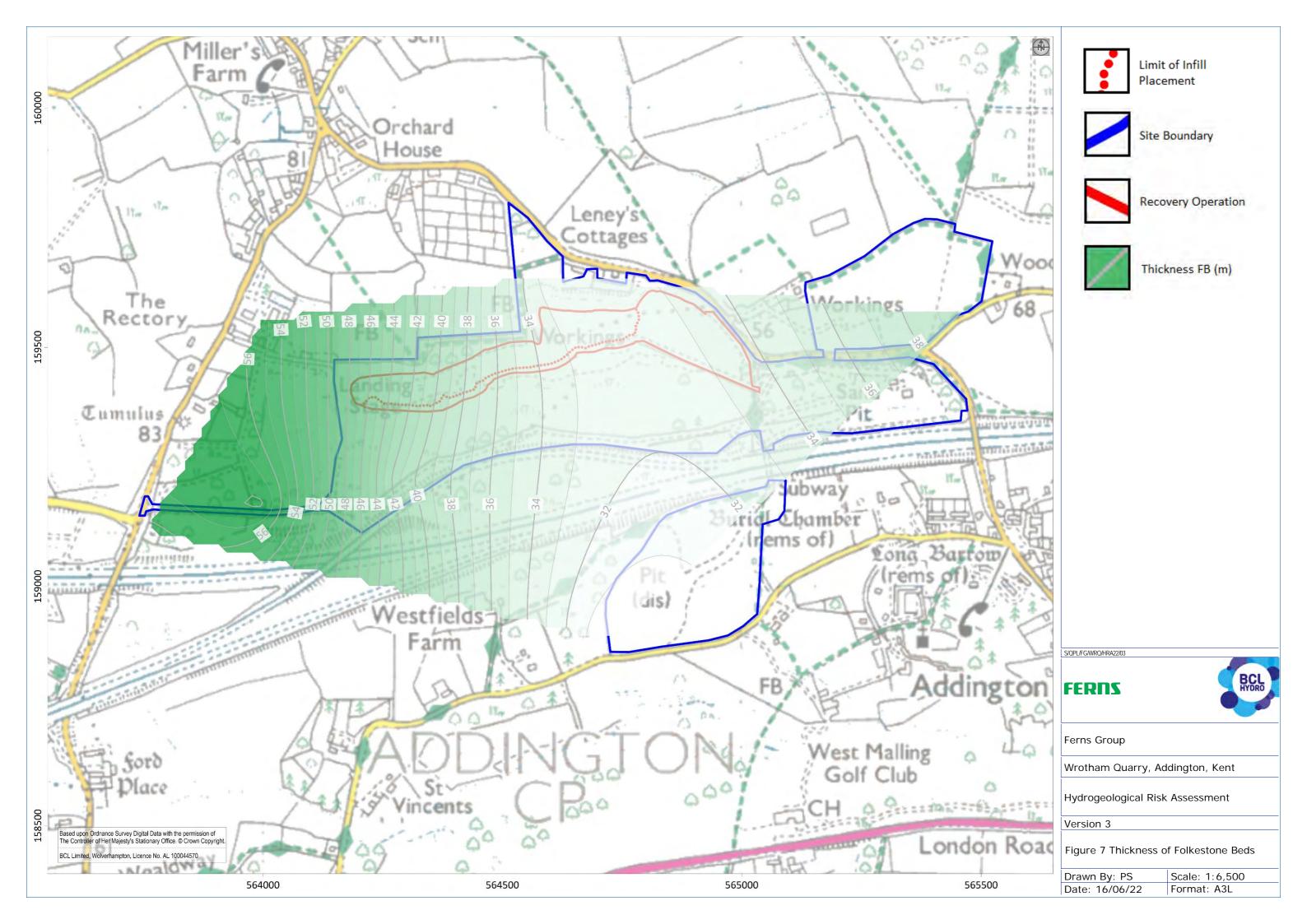


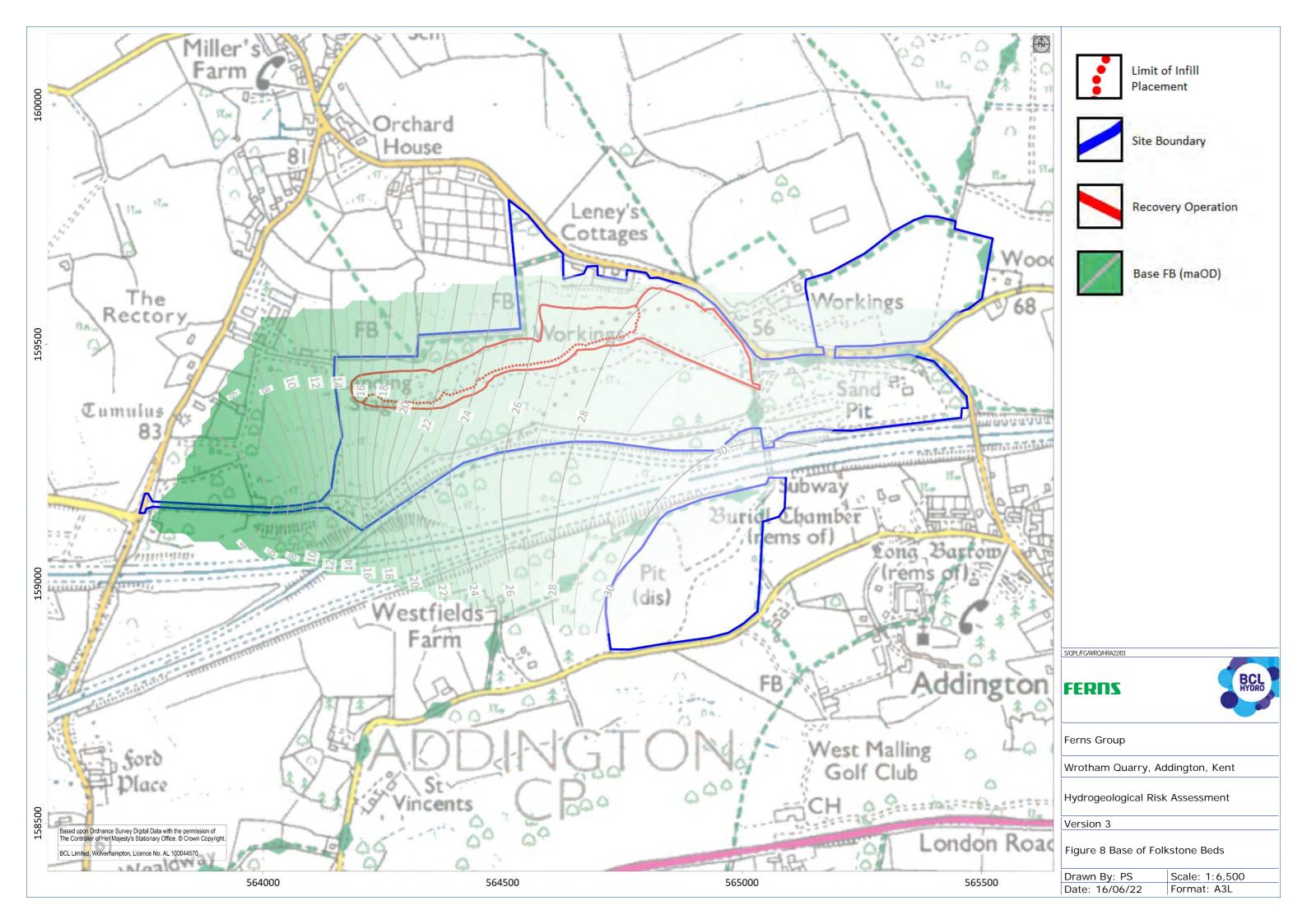


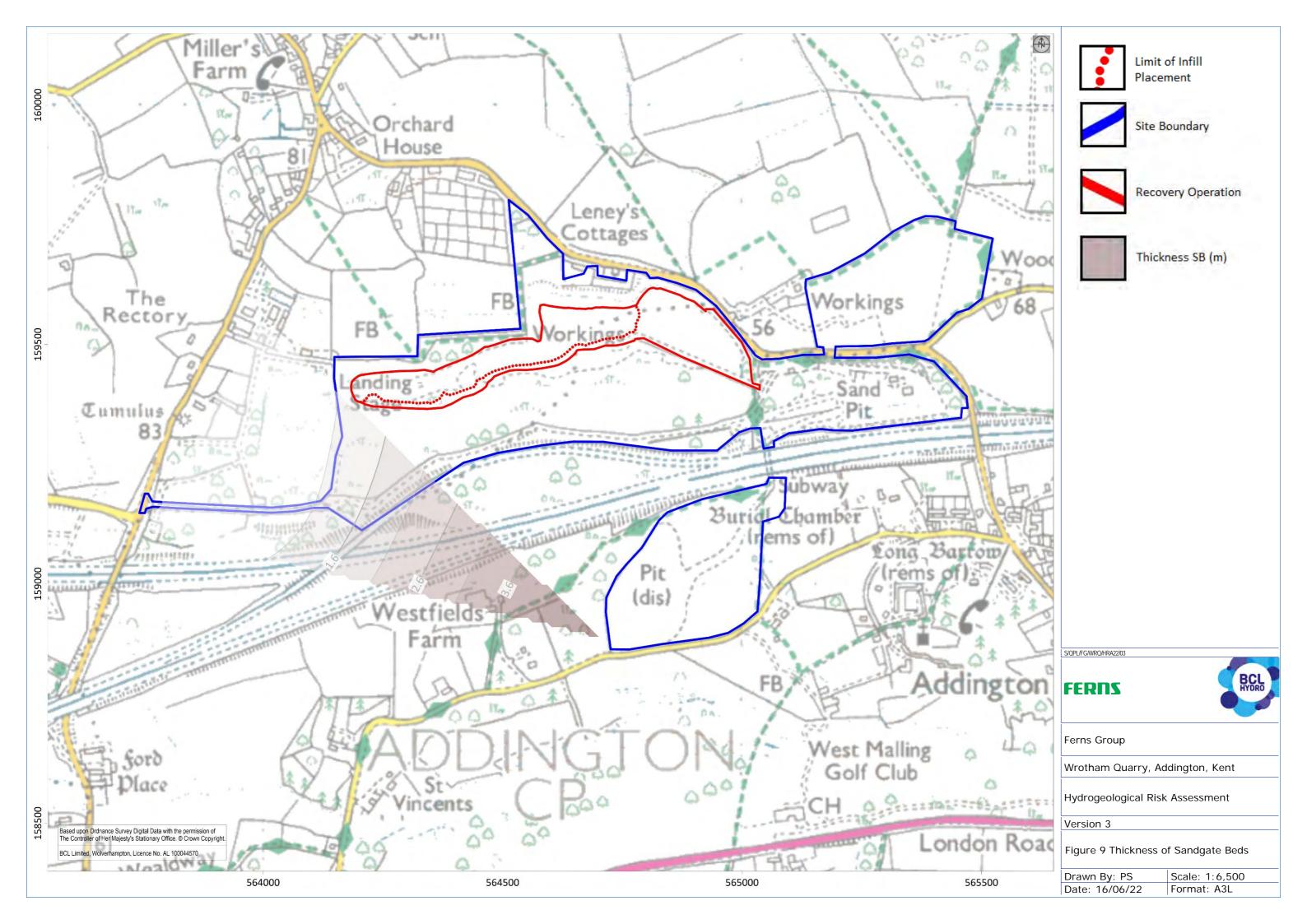


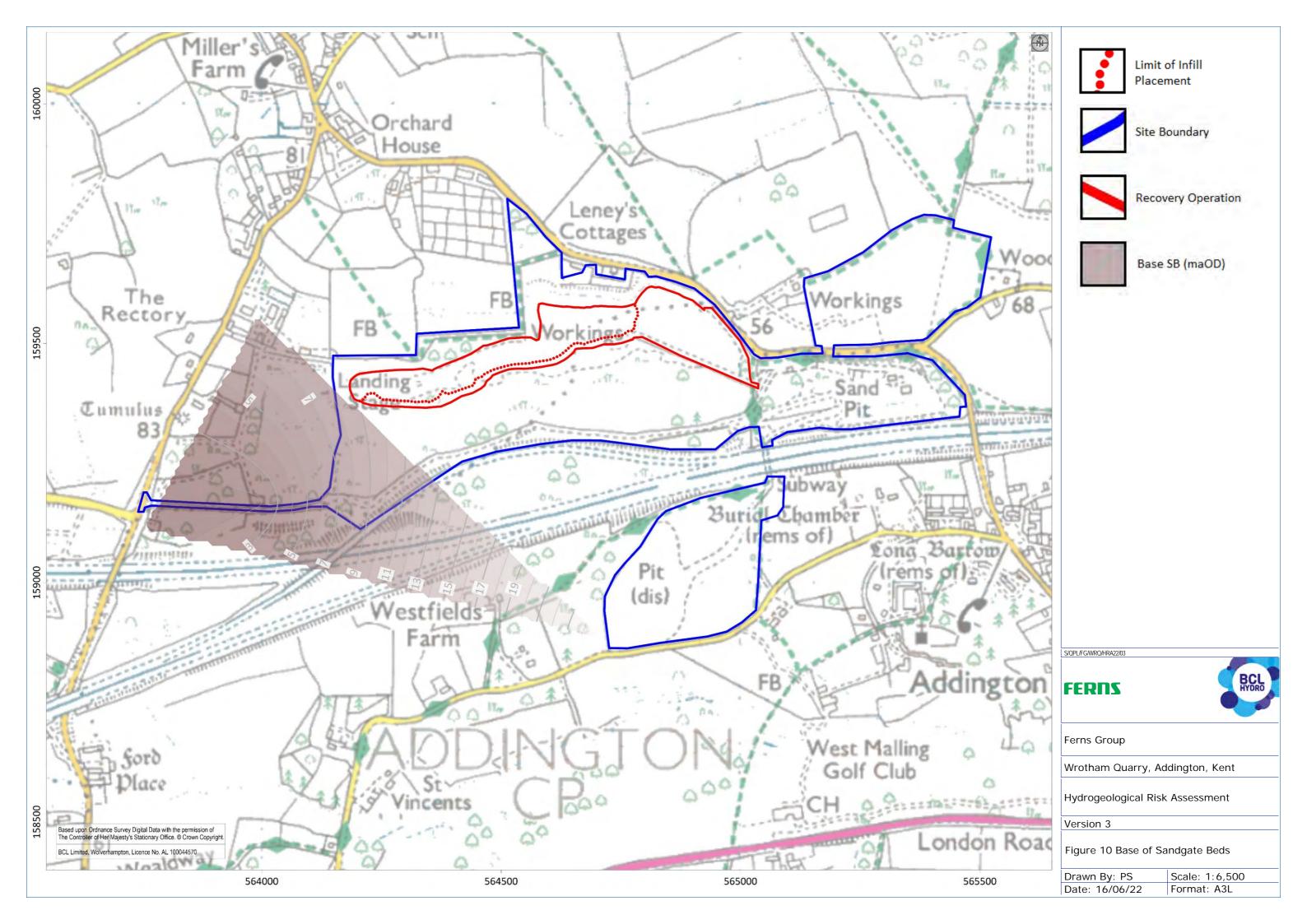


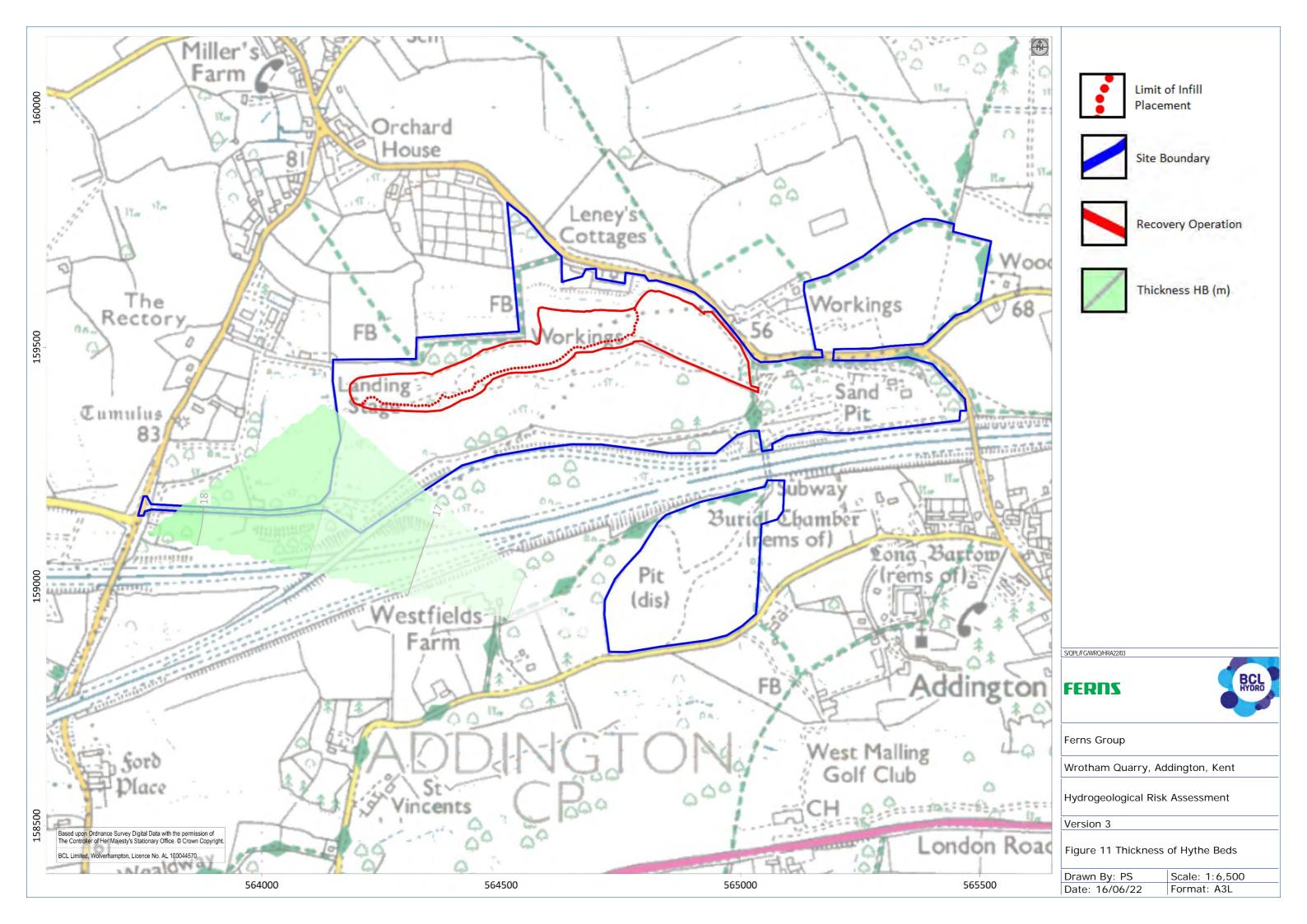


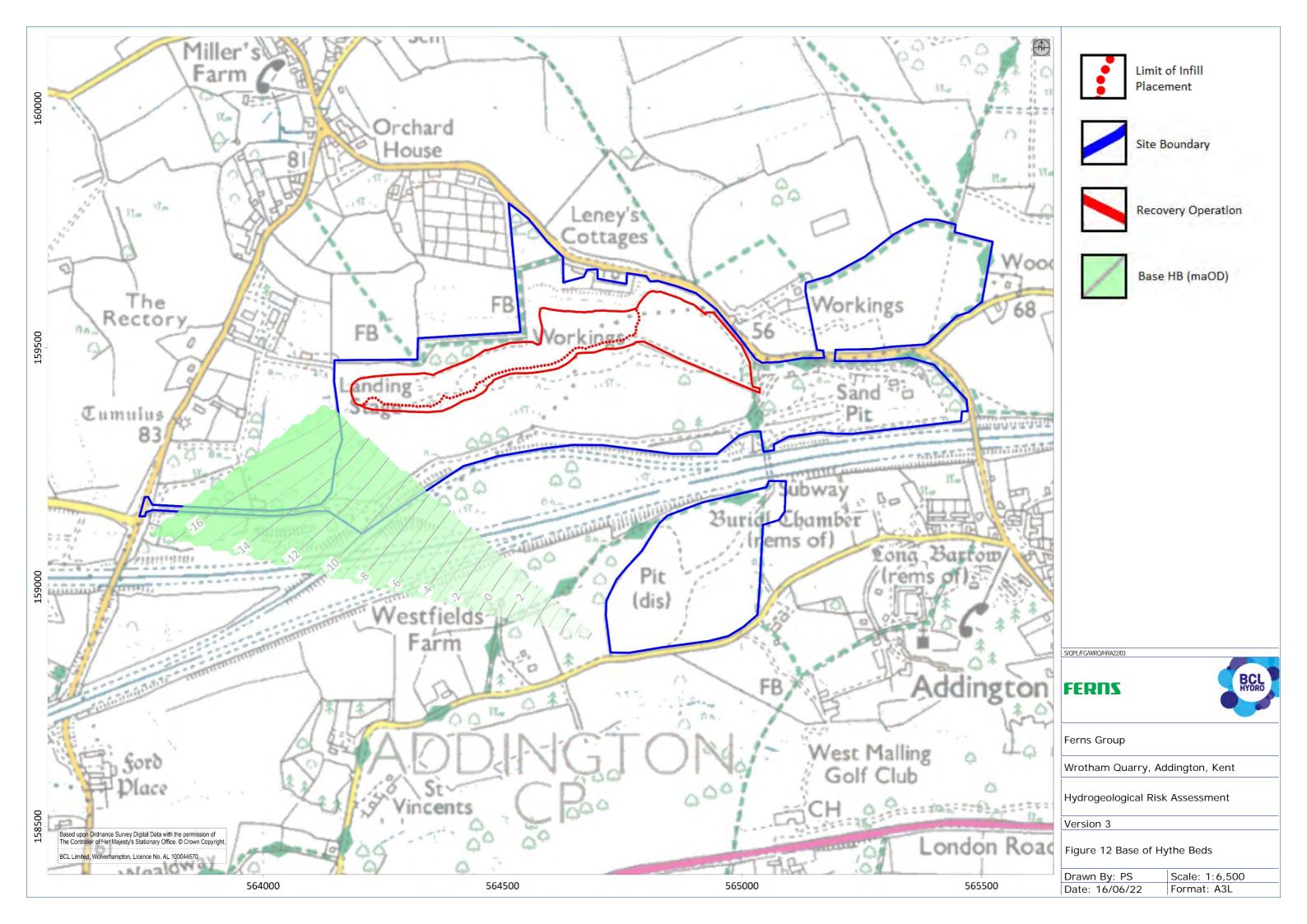


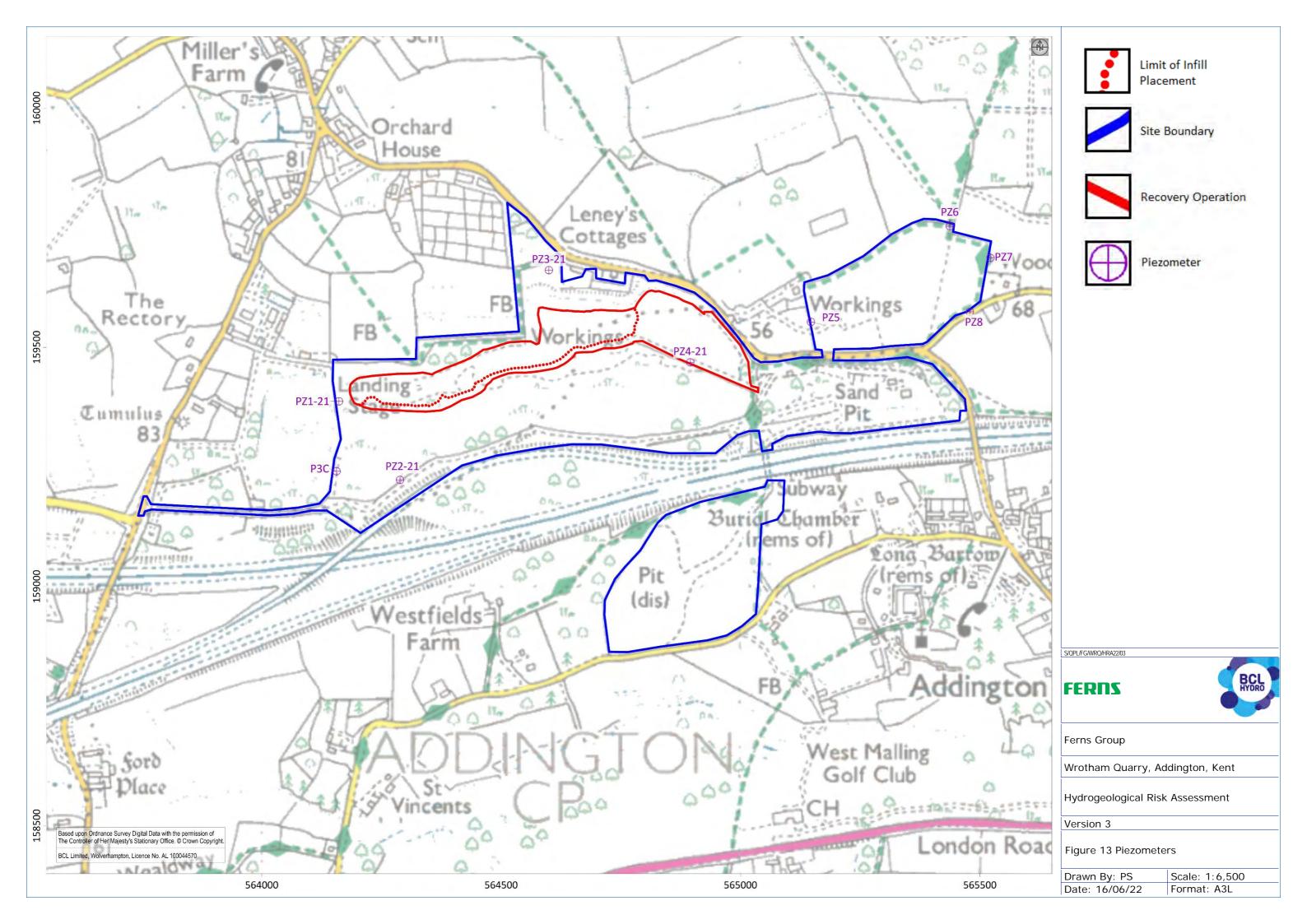


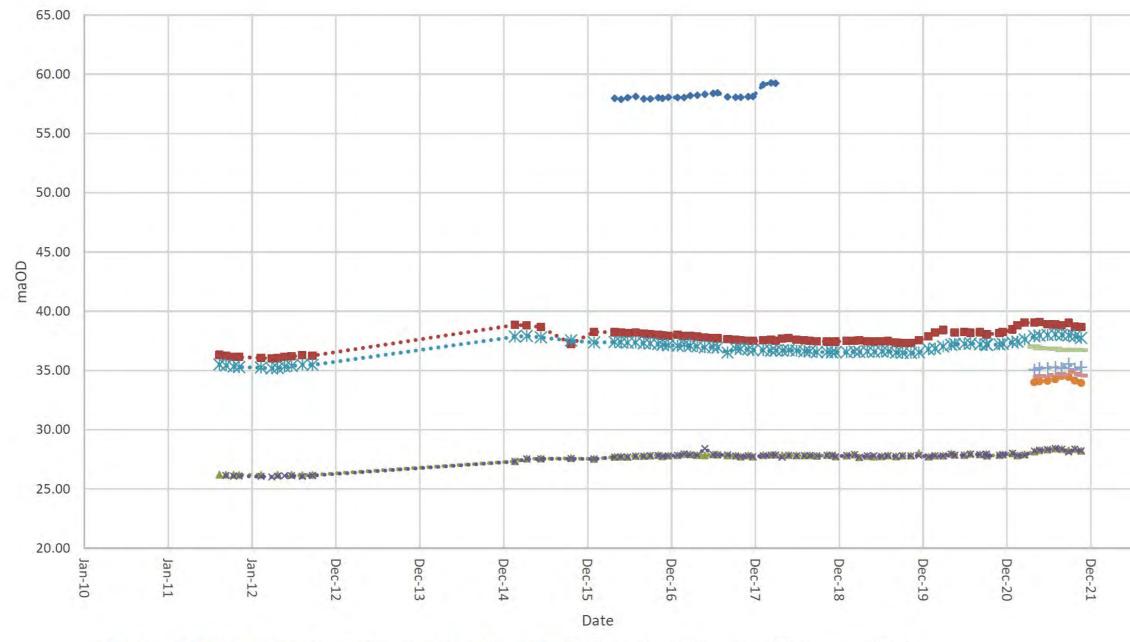






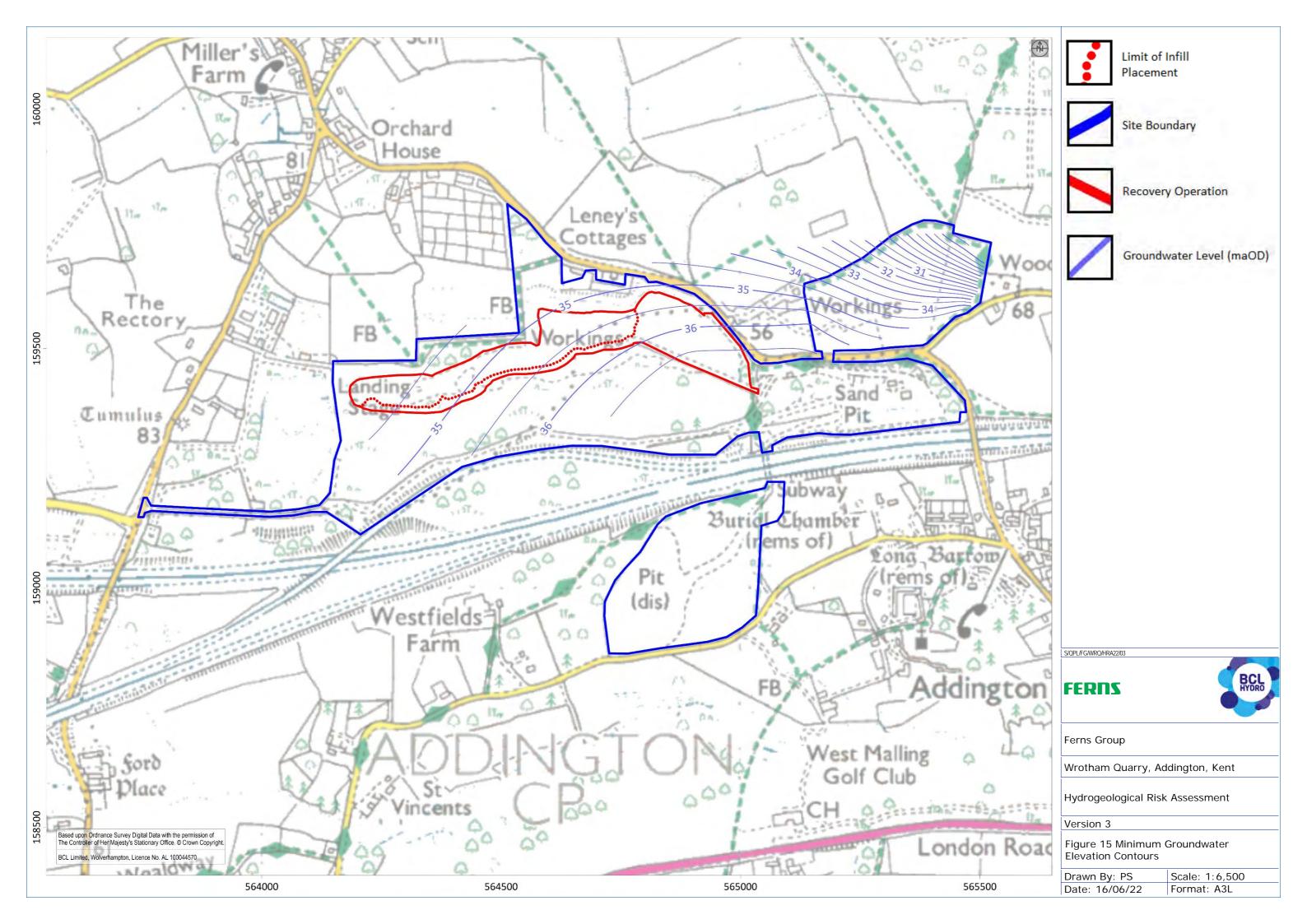


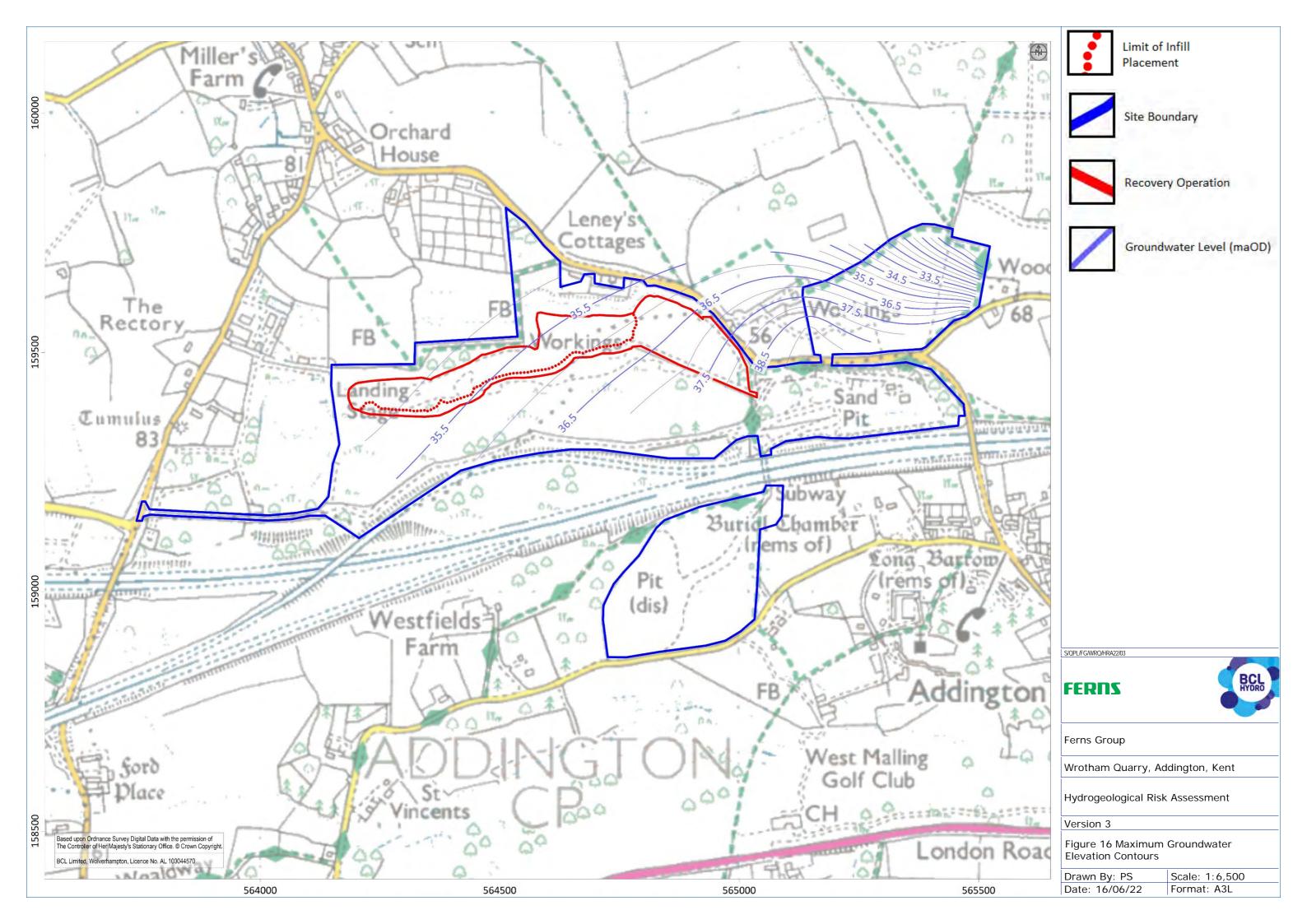


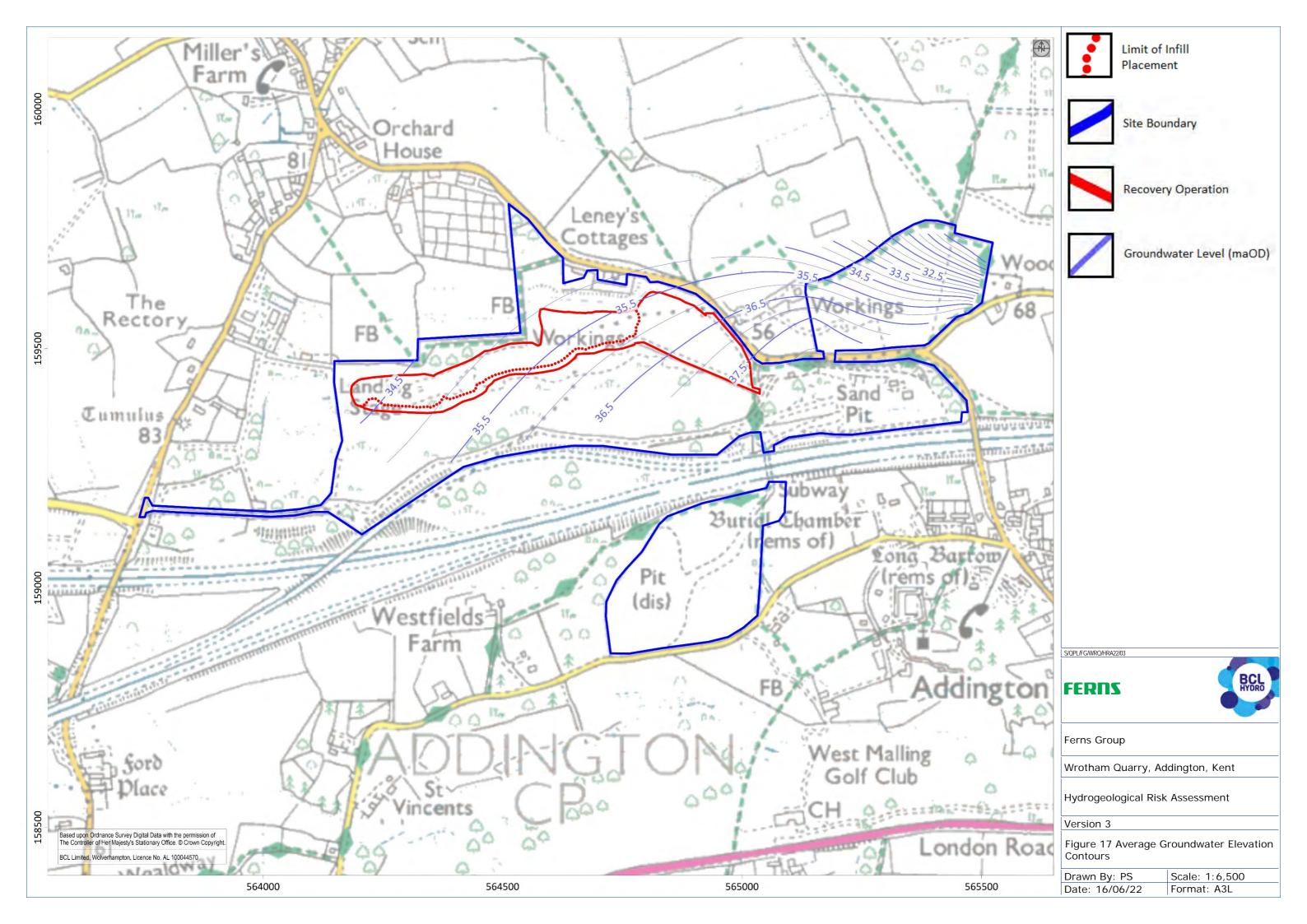


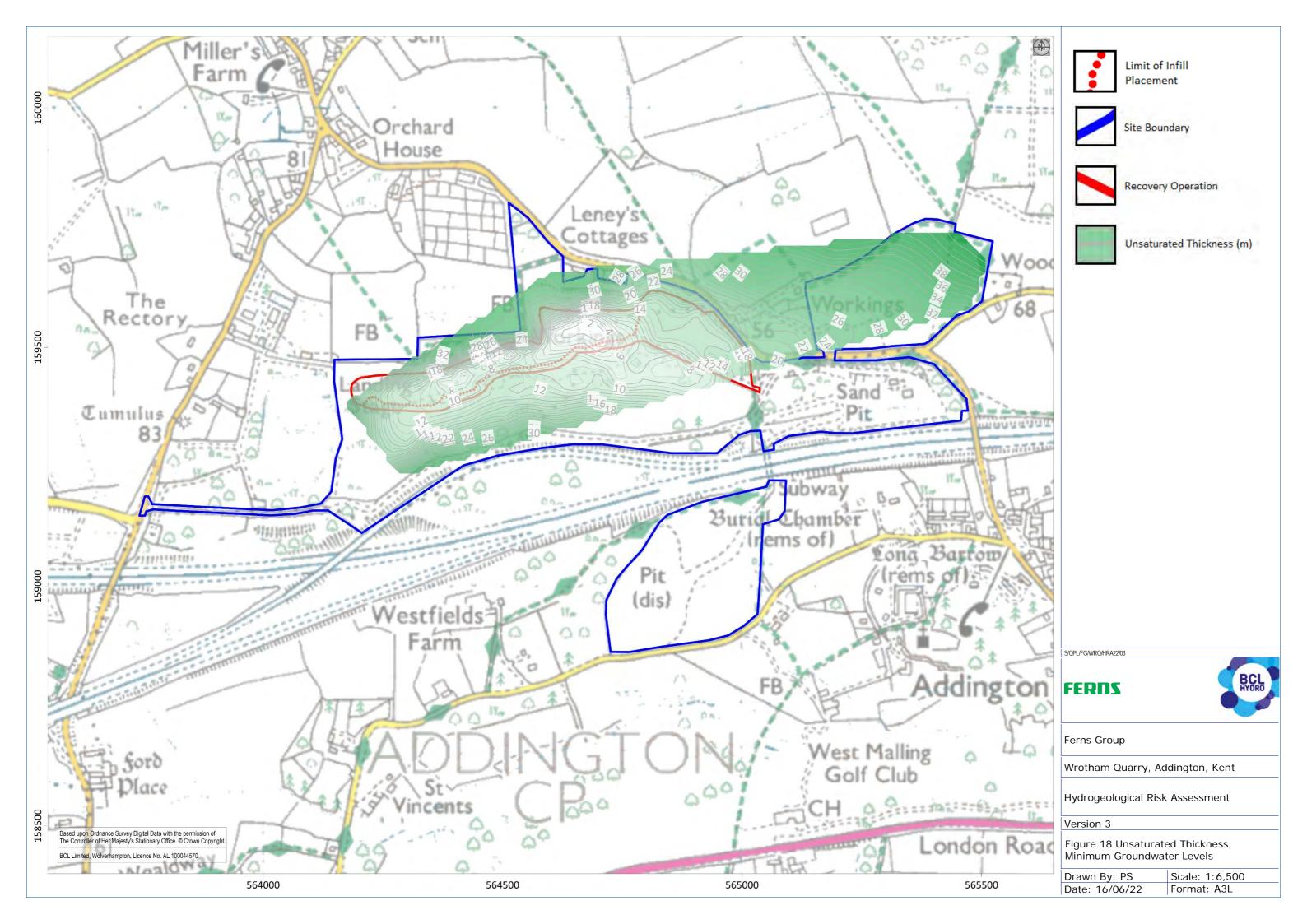
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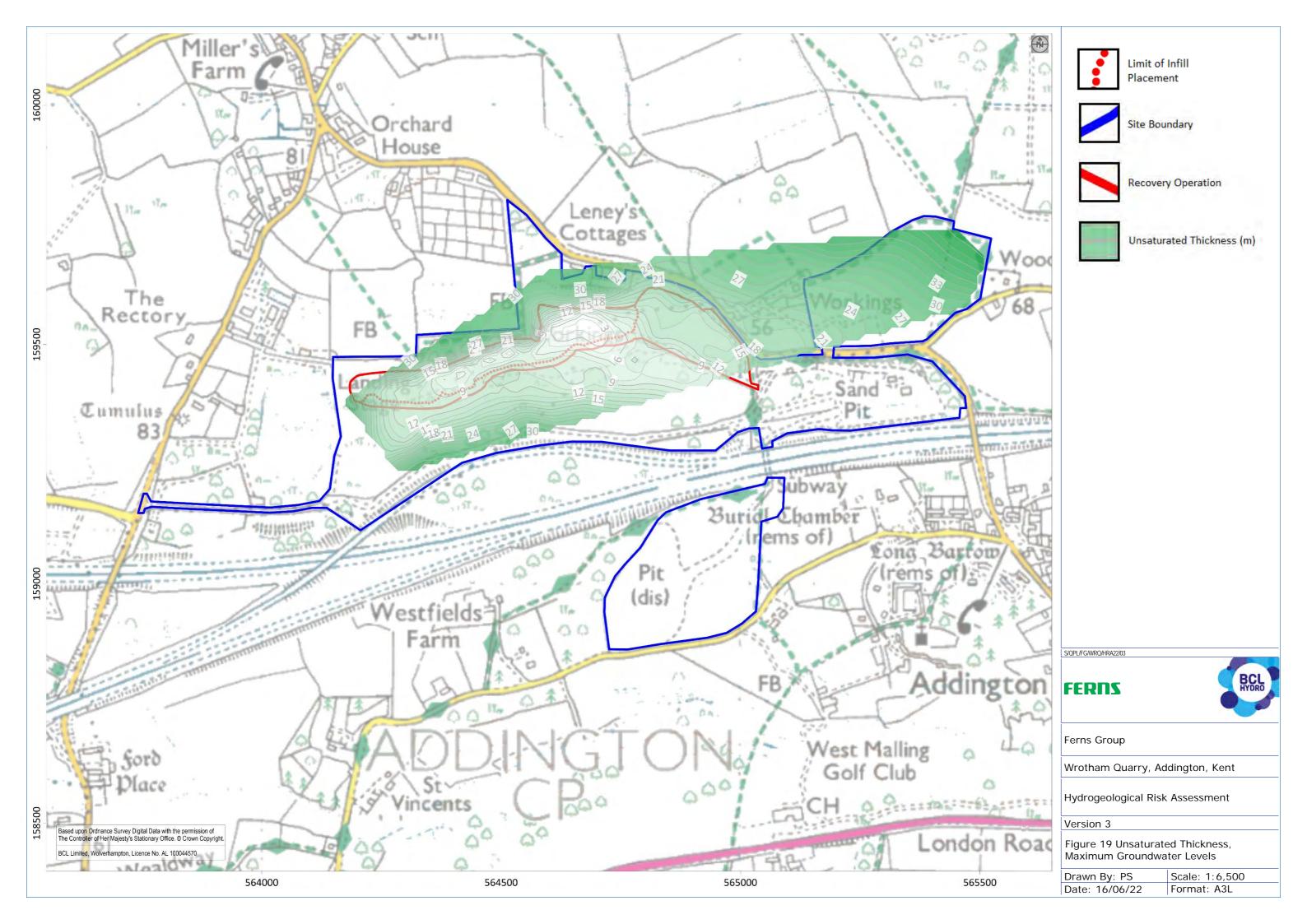
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|----------------------------------|--|--|--|--|--|--|--|
| FERNS | BCL | | | | | | |
| Ferns Group | | | | | | | |
| Wrotham Quarry, Addington, Kent | | | | | | | |
| Hydrogeological Ris | k Assessment | | | | | | |
| Version 3 | | | | | | | |
| Figure 14 Groundwater Hydrograph | | | | | | | |
| Drawn By: PS | Scale: maOD | | | | | | |
| Date: 16/06/22 | Format: A3L | | | | | | |
| | FERNS Ferns Group Wrotham Quarry, A Hydrogeological Ris Version 3 Figure 14 Groundw Drawn By: PS | | | | | | |

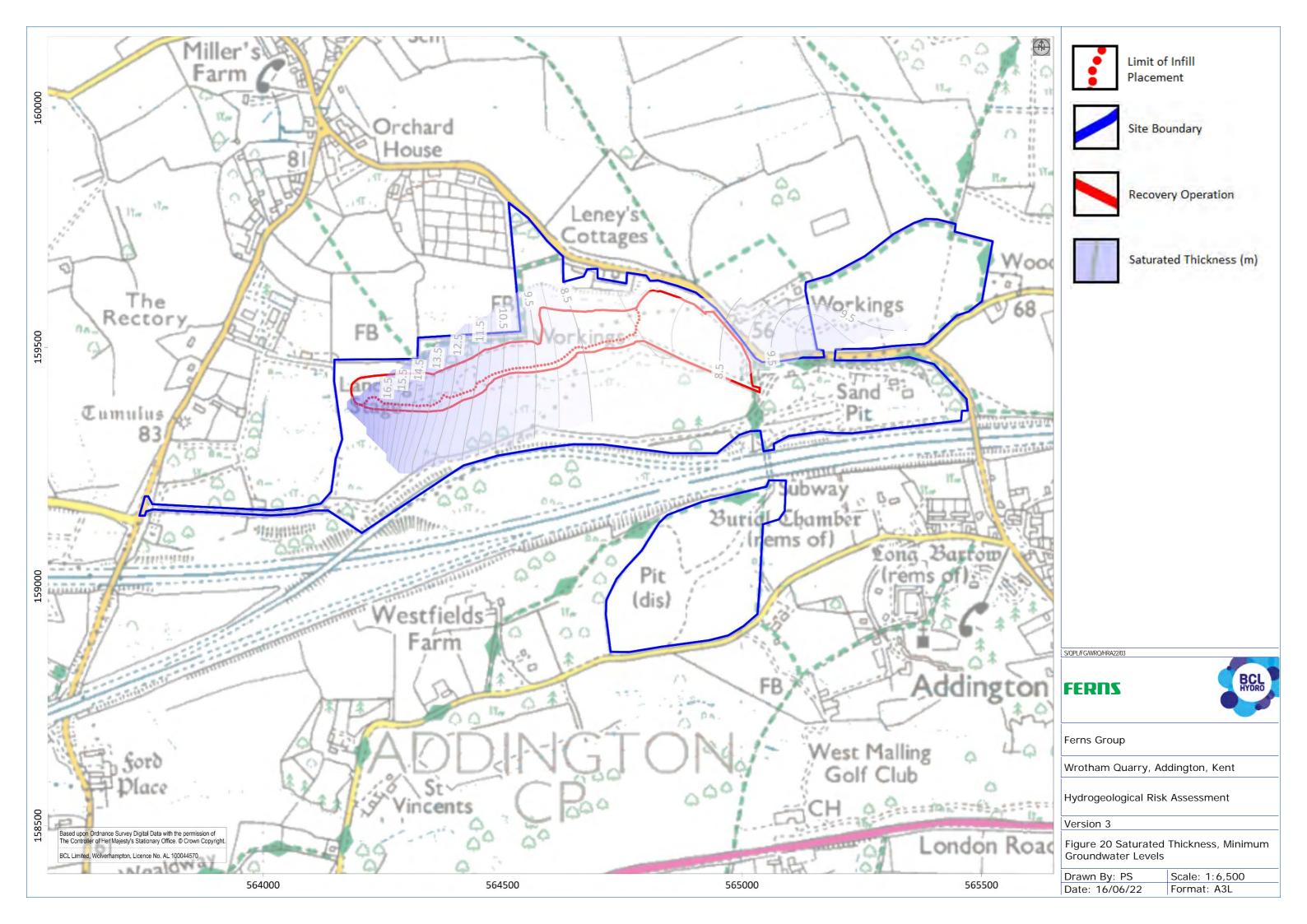


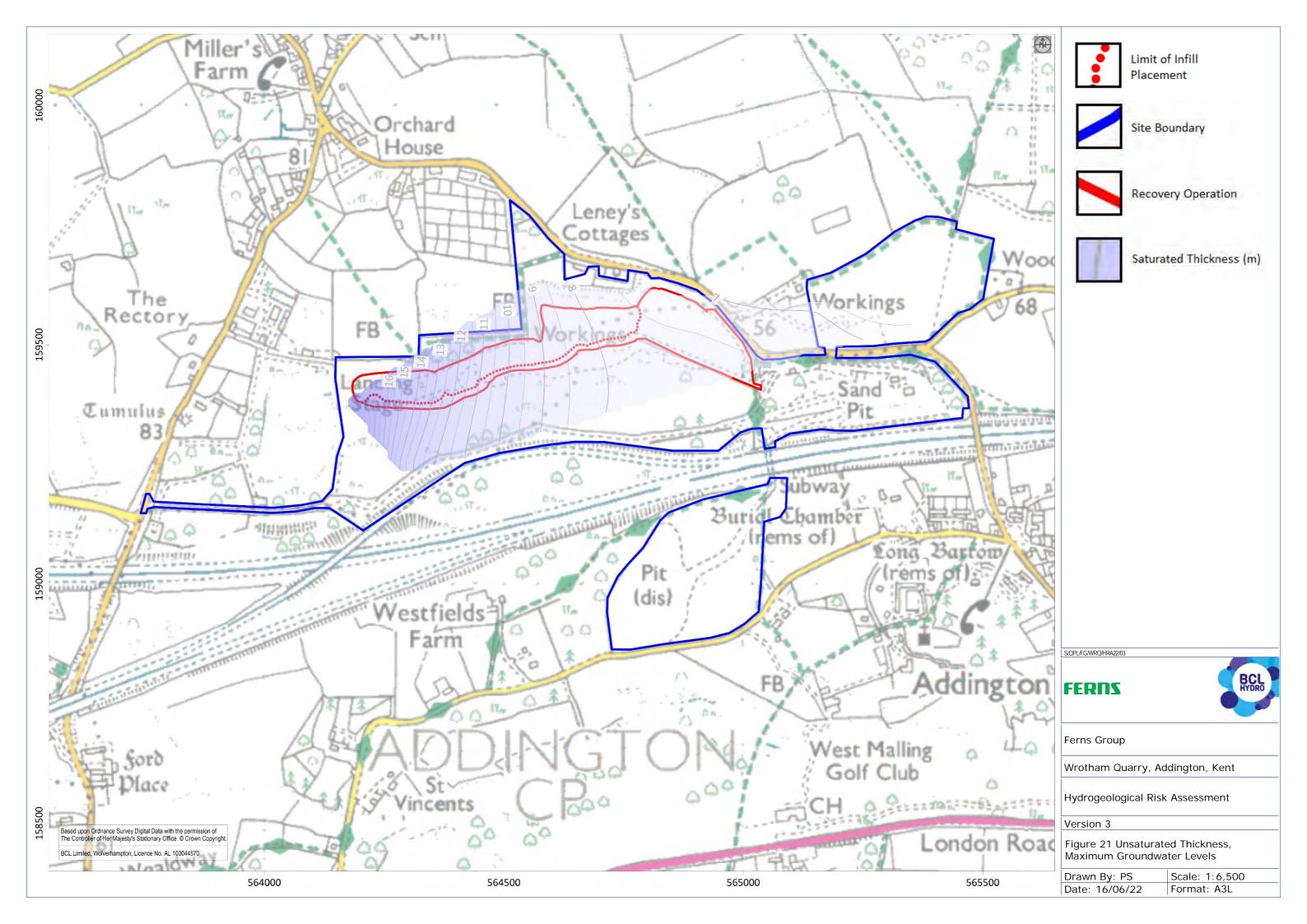


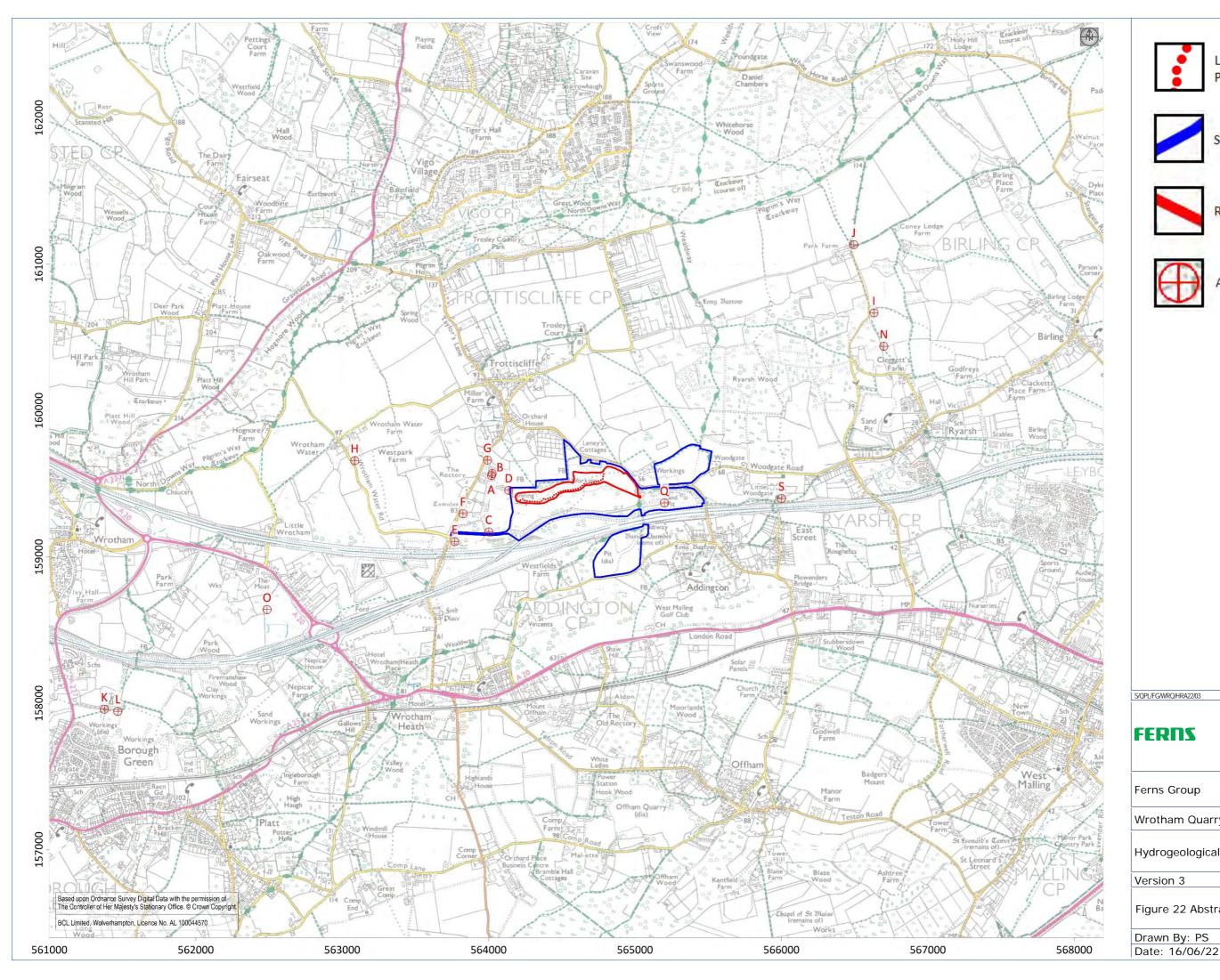


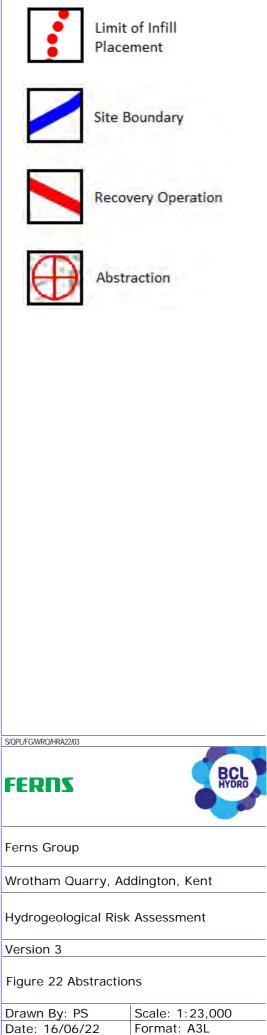


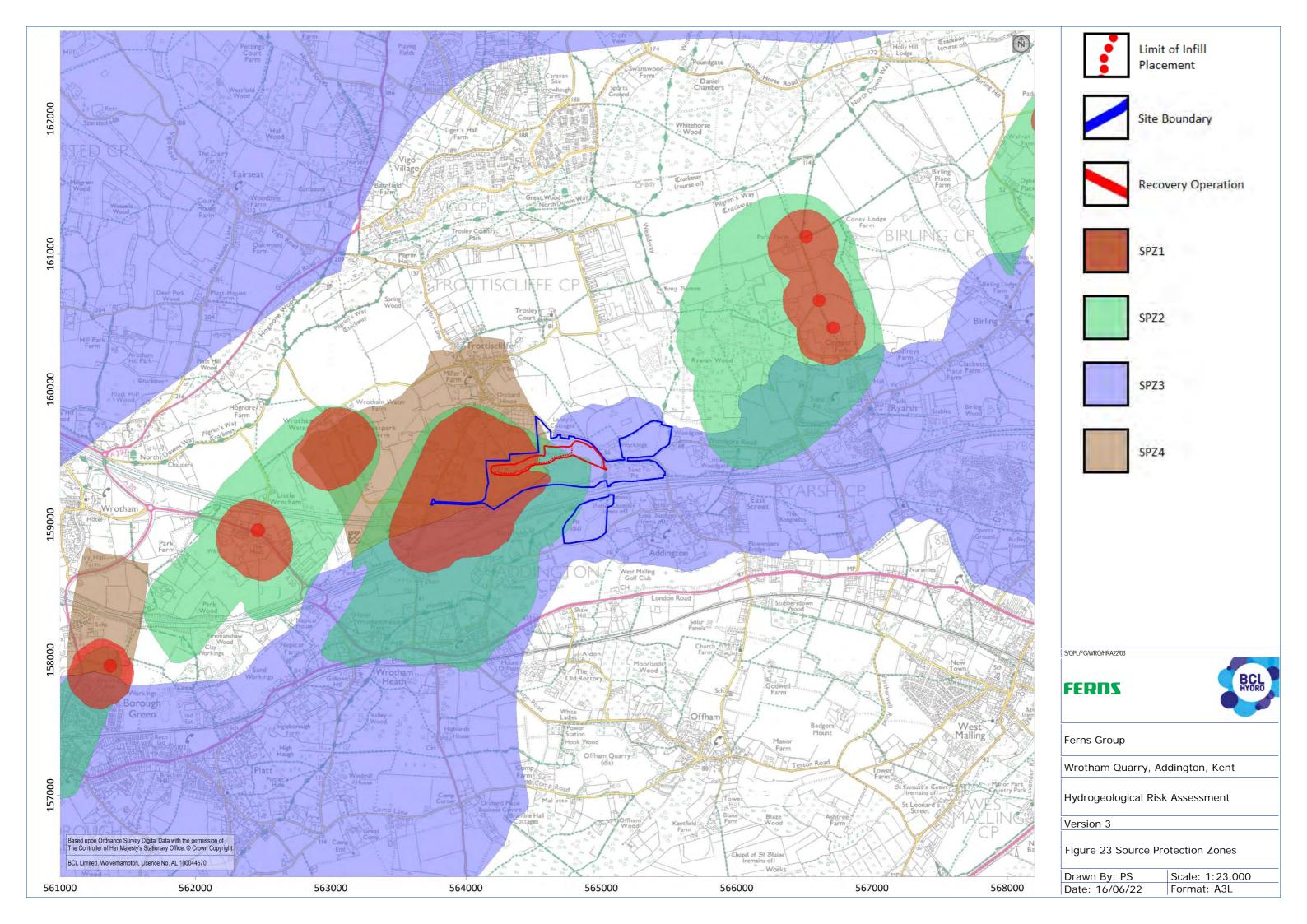


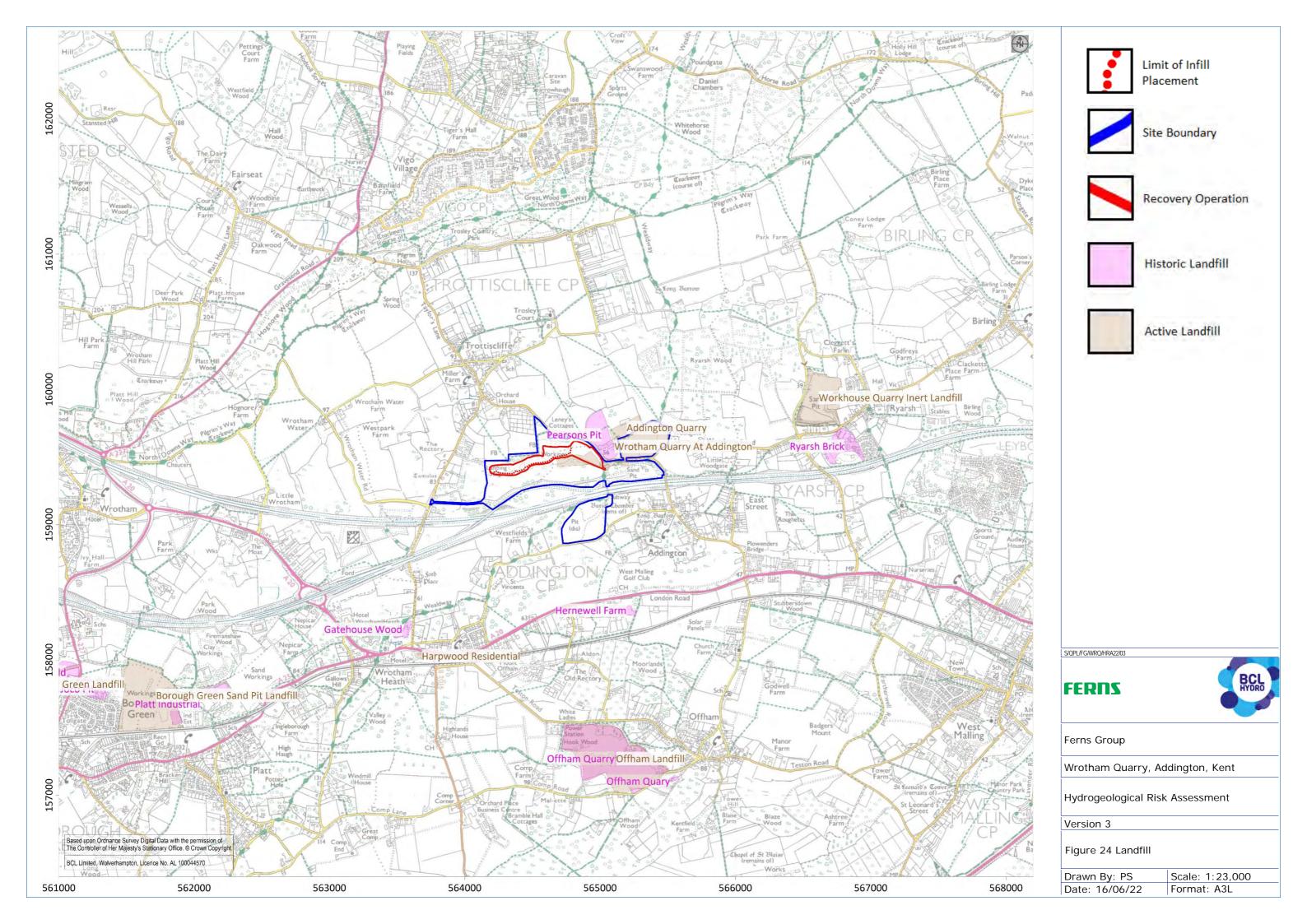








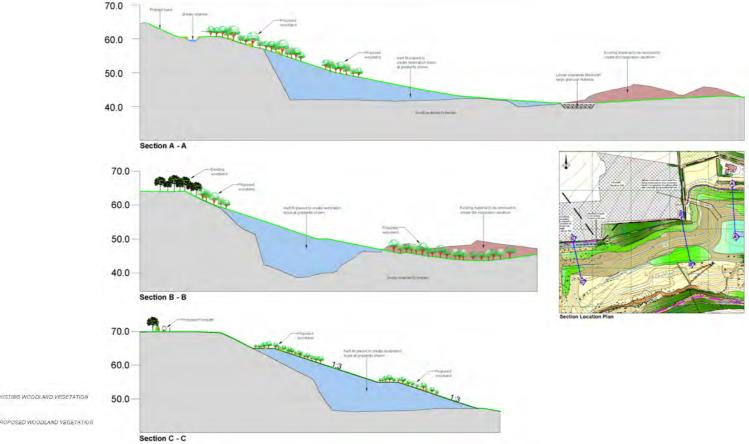






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PROPOSED NEW FOOTPATH ROUTE BOUNDARY OF AREA SUBJECT TO PROPOSED SUTTRESS STABILISATION WORKS





TYT

PROPOSED WOODLAND VEGETATION



Wrotham Quarry, Addington, Kent

Hydrogeological Risk Assessment

Figure 25 Recovery Operation

Scale: N/A

Format: A3L



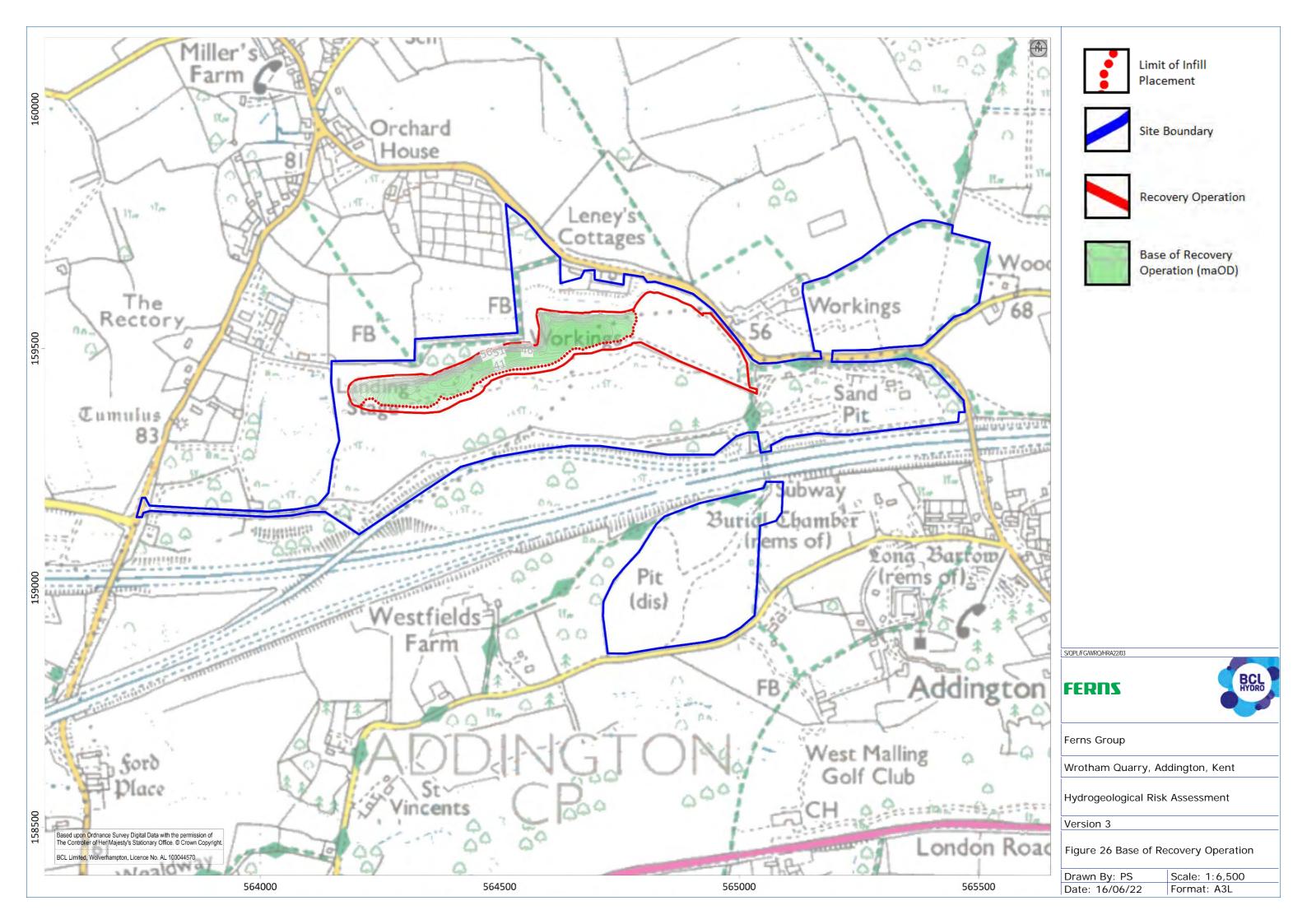
Ferns Group

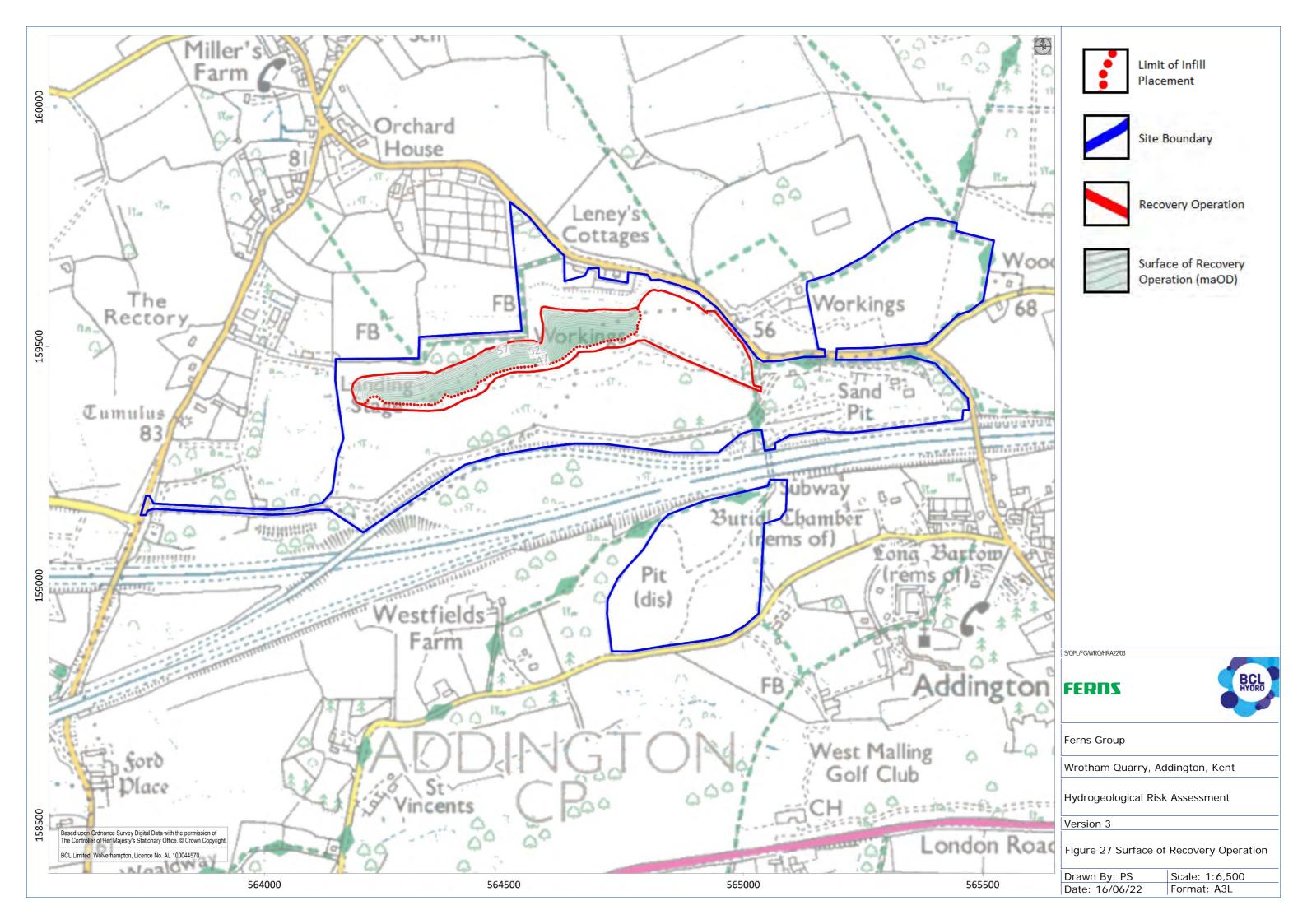
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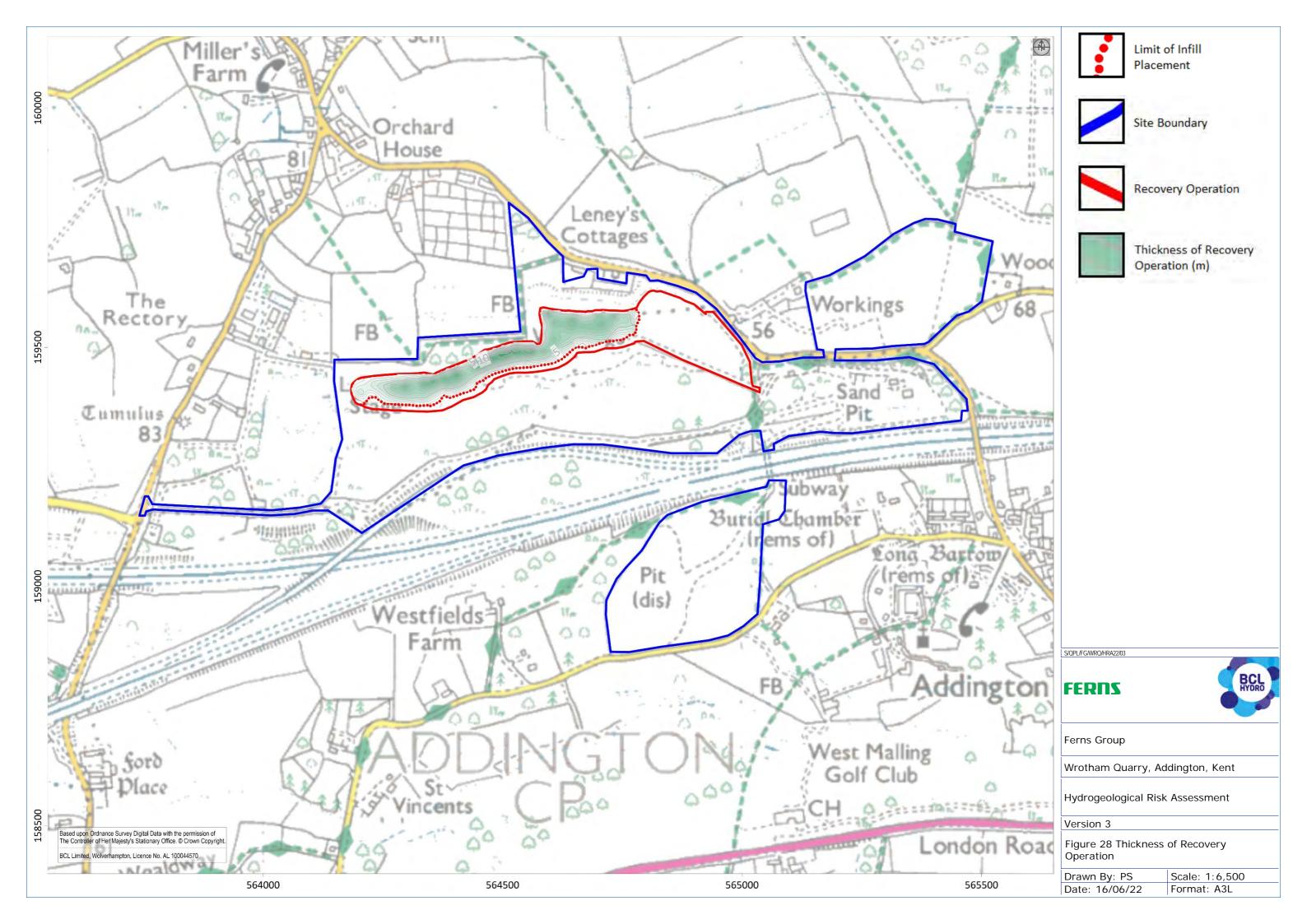
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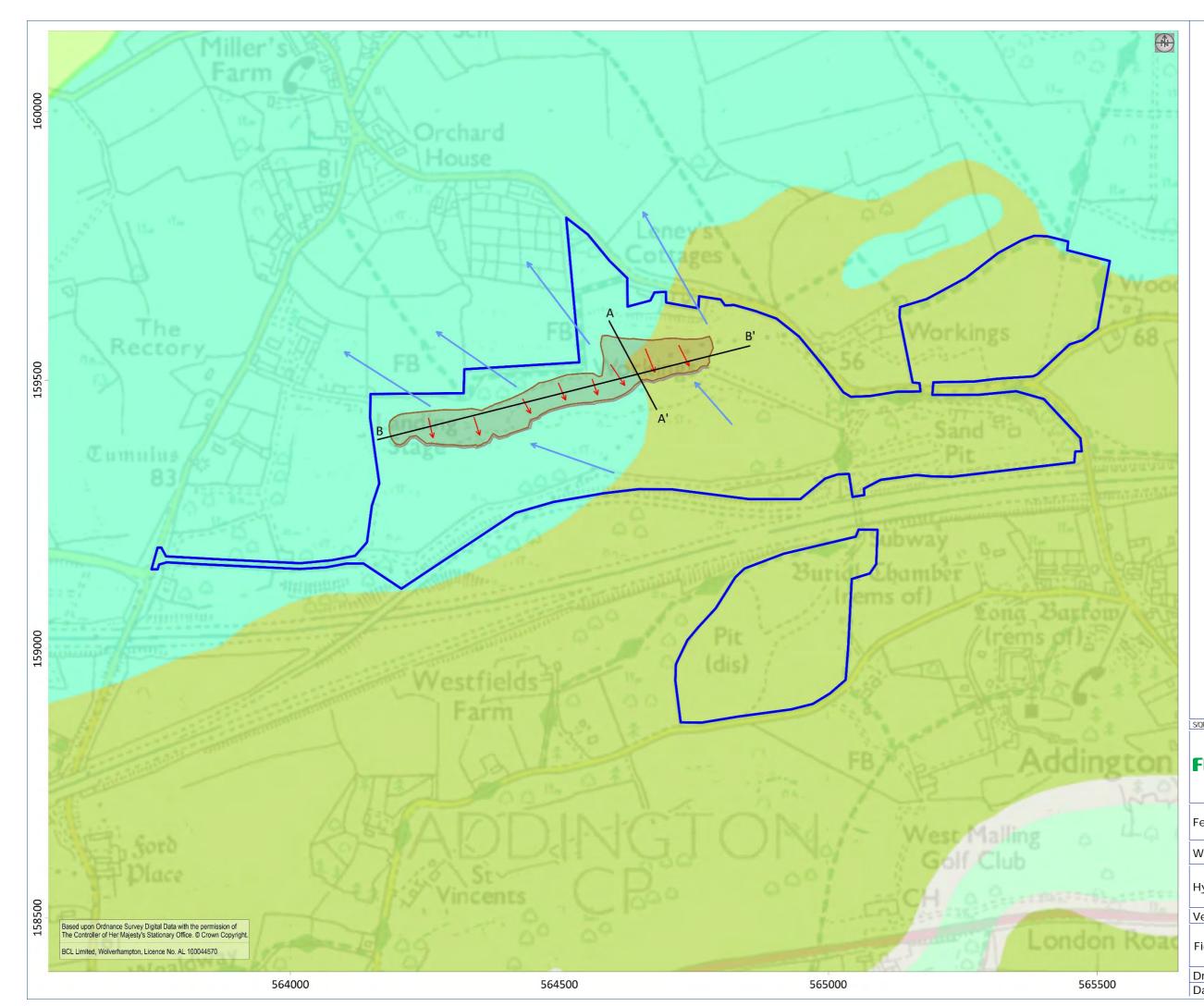


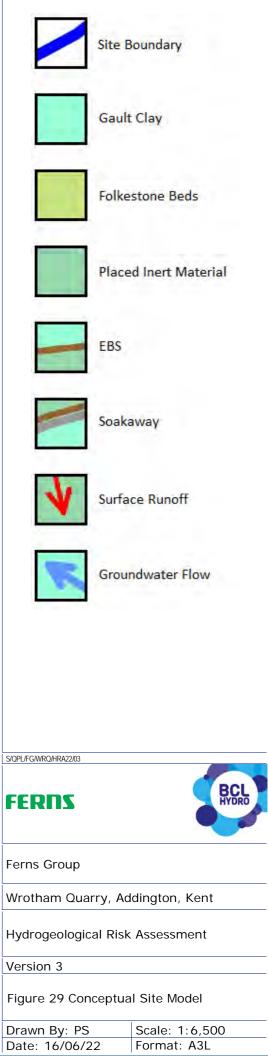
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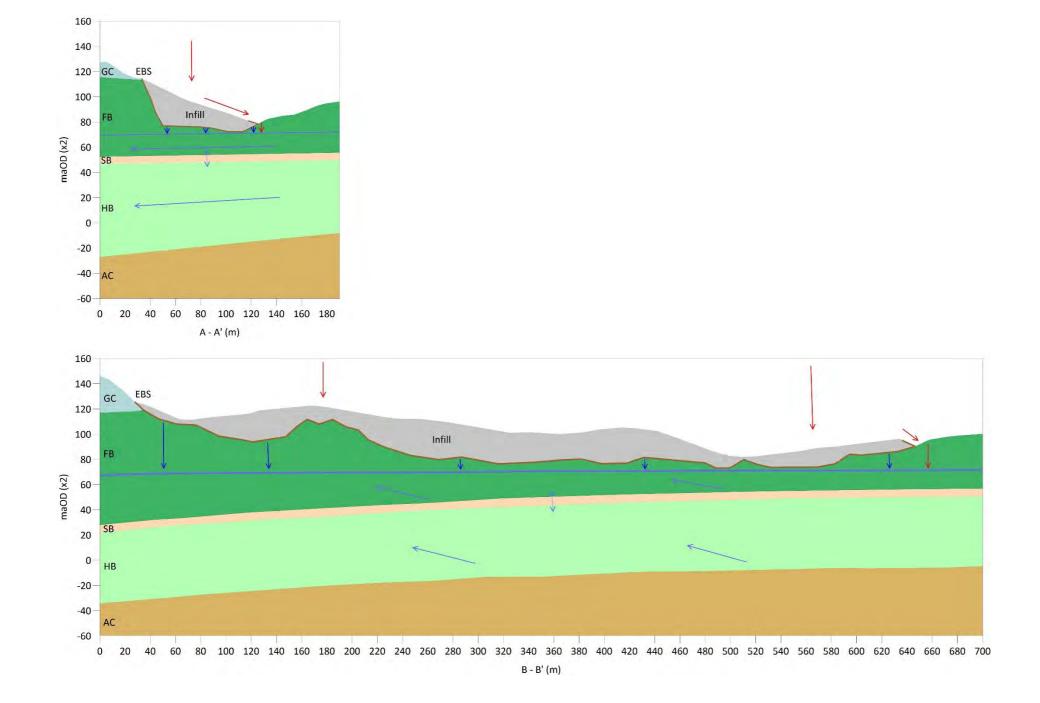




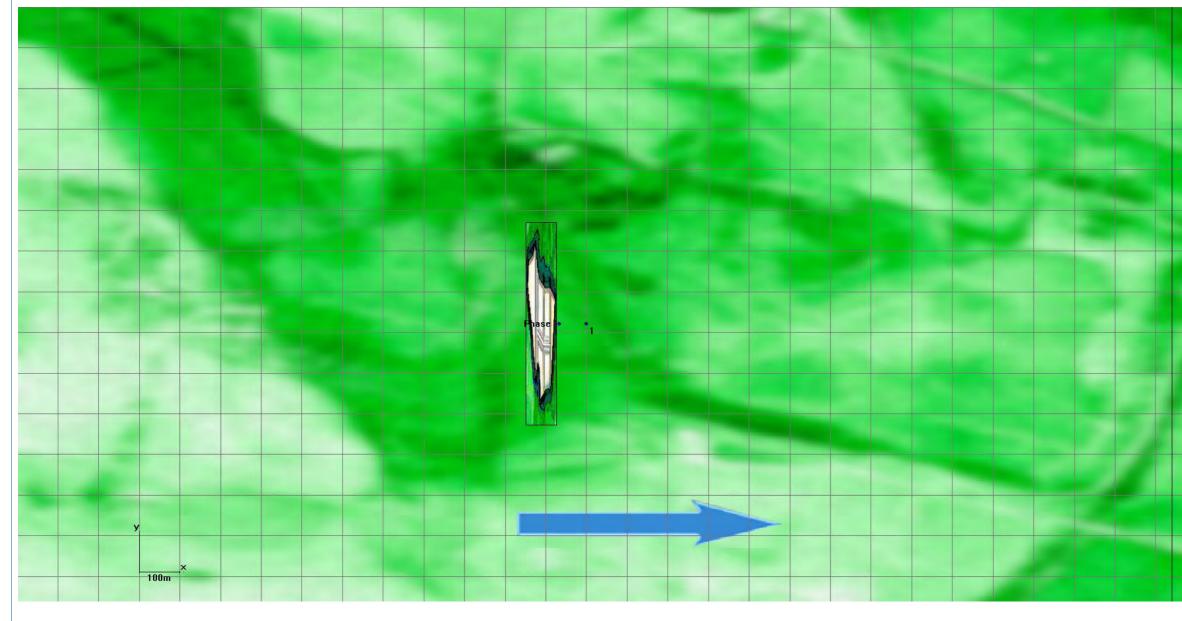








| ¥ | Rainfall / I | Recharge / Infiltration |
|-------------------------|--------------|-------------------------------|
| V | Unsaturate | ed Flow |
| A. | Groundwat | ter Flow |
| V | Aquitard L | eakage |
| | Groundwat | ter Elevation |
| | | |
| | | |
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S/QPL/FG/WRQ/HRA22/03



Ferns Group

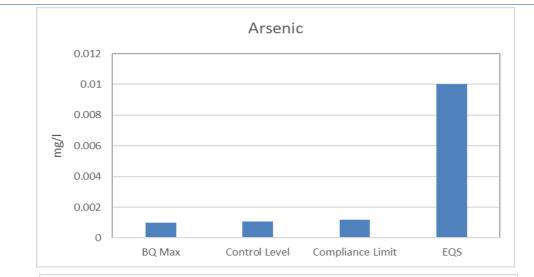
Wrotham Quarry, Addington, Kent

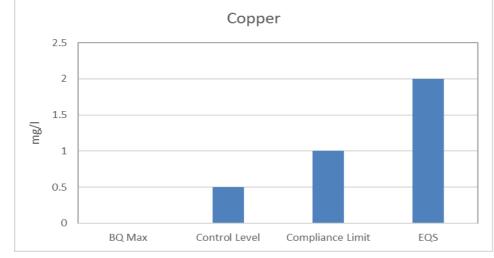
Hydrogeological Risk Assessment

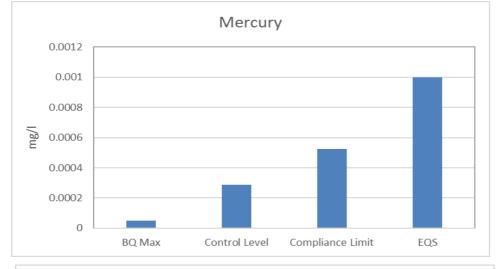
Version 3

Figure 31 Model Domain

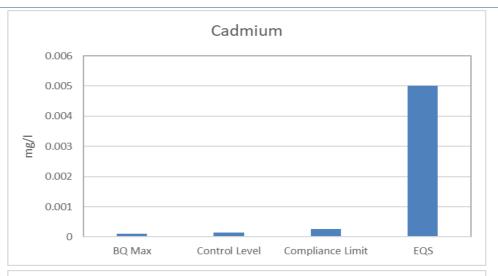
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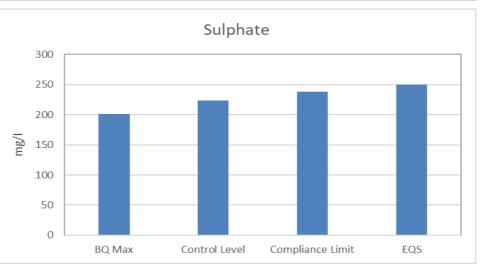


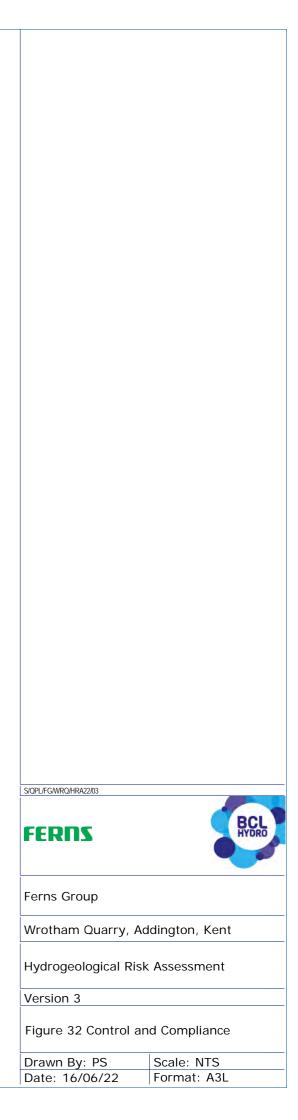














Ferns Group Wrotham Quarry Addington, Kent

Environmental Permit Application Buttressing of Quarry Faces Using Inert Materials Hydrogeological Risk Assessment

Version 3 16th June 2022

Appendix 1 Data Sources



Technology Centre, Wolverhampton Science Park, Glashier Drive, Wolverhampton West Midlands, WV10 9RU. Tei: 01902 824111, Fax: 01902 824112 email: info@bclhydro.co.uk, web: http://www.bclhydro.co.uk Registered Office: 33, Wolverhampton Road, Cannock, West Midlands, WV11 1AP Registered in England & Wales. Company Registration Number: 4043373

Regulatory & Industry Standard Guidance, Methodologies & Literature References

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Ferns Group Wrotham Quarry Addington, Kent

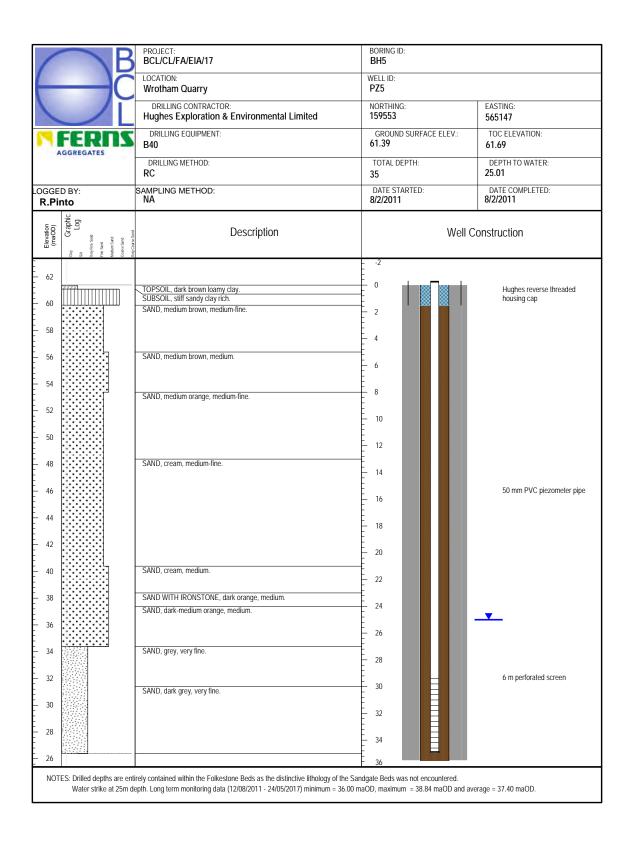
Environmental Permit Application Buttressing of Quarry Faces Using Inert Materials Hydrogeological Risk Assessment

Version 3 16th June 2022

Appendix 2 Drilling Logs



Technology Centre, Wolverhampton Science Park, Glashier Drive, Wolverhampton West Midlands, WV10 9RU. Tel: 01902 824111, Fax: 01902 824112 email: info@bclhydro.co.uk, web: http://www.bchydro.co.uk Registered Office: 33, Wolverhampton Road, Cannock, West Midlands, WV11 1AP Registered in England & Wales. Company Registration Number: 4043373



| | PROJECT: BCL/CL/FA/EIA/17 | BORING ID: BH6 | | | | |
|---|--|--------------------------------|-------------------------------------|--|--|--|
| | UCCATION: Wrotham Quarry | WELL ID: PZ6 | | | | |
| | DRILLING CONTRACTOR: Hughes Exploration & Environmental Limited | NORTHING: 159753 | EASTING: 565437 | | | |
| | DRILLING EQUIPMENT: B40 | GROUND SURFACE ELEV.: 71.24 | TOC ELEVATION: 71.54 | | | |
| | DRILLING METHOD: RC | TOTAL DEPTH: 45 | DEPTH TO WATER: Drilled Dry | | | |
| GGED BY: R.Pinto | SAMPLING METHOD: NA | DATE STARTED: 8/2/2011 | DATE COMPLETED: 8/2/2011 | | | |
| Elevation (maOD) (tay Graphic str Log Voy Fine Start Modum Stard | Description | Well | Construction | | | |
| | | 4 | | | | |
| | TOPSOIL, dark brown loamy clay. SUBSOIL, stiff sandy clay rich. SAND, medium brown, medium-fine. | | Hughes reverse threaded housing cap | | | |
| 68 | SAND, medium brown, medium. | - 4 | | | | |
| 64 | SAND, medium orange, medium. | 8 | | | | |
| 60 | SAND, orange-cream, fine. SAND, cream, medium. | 12 | | | | |
| 56 | Jero, dican, incount. | - 16 | 50 mm PVC piezometer pipe | | | |
| 52 | SAND, medium orange, medium. | 20 | | | | |
| 48 | SAND, medium orange, fine. | - - - 24 | | | | |
| 44 | SAND, cream, fine. | - 28 | | | | |
| 40 | SAND, cream orange, fine. SAND, orange becoming darker with depth, very fine. | 32 | | | | |
| 36 | | 36 | | | | |
| 32 | SAND, orange brown, very fine. SAND, orange brown, medium. | | 6 m perforated screen | | | |
| 28 | SAND, dark brown, medium. | 40 | | | | |
| | | | | | | |
| 24 | entirely contained within the Folkestone Beds as the distinctive lithology of t | 48 | | | | |

| AGGREGATES AGGRE | TION: tham Quarry ILLING CONTRACTOR: thes Exploration & Environmental Limited LLING EQUIPMENT: LING METHOD: Description DIL, dark brown loamy clay, DIL, stiff sandy clay rich. medium brown, medium. | WELL ID: PZ7 NORTHING: 159687 GROUND SURFACE ELEV 71.84 TOTAL DEPTH: 53 DATE STARTED: 8/2/2011 V | EASTING: 565522 72.14 DEPTH TO WATER: Drilled Dry DATE COMPLETED: 8/2/2011 /ell Construction Hughes reverse threaded housing cap |
|--|--|--|---|
| AGGREGATES Hugt Hugt B40 DRI B40 DRI RC GGED BY: C GG | hes Exploration & Environmental Limited LLING EQUIPMENT: LING METHOD: ING METHOD: Dill, dark brown loamy clay. Dill, dark brown loamy clay. Dill, stiff sandy clay rich. | 159687 GROUND SURFACE ELEN 71.84 TOTAL DEPTH: 53 DATE STARTED: 8/2/2011 V | 565522 /:: TOC ELEVATION: 72.14 DEPTH TO WATER: Drilled Dry DATE COMPLETED: 8/2/2011 /ell Construction Hughes reverse threaded |
| AGGREGATES B40 DRIL RC GGED BY: 3.Pinto Utdeb | LING METHOD: ING METHOD: Description | 71.84 TOTAL DEPTH: 53 DATE STARTED: 8/2/2011 W | 72.14 DEPTH TO WATER: Drilled Dry DATE COMPLETED: 8/2/2011 /ell Construction Hughes reverse threaded |
| APPINO | ING METHOD: Description | 53 DATE STARTED: 8/2/2011 W | Drilled Dry DATE COMPLETED: 8/2/2011 /ell Construction Hughes reverse threaded |
| R.Pinto NA upper state upper state 000000000000000000000000000000000000 | Description | 8/2/2011 W | 8/2/2011 /ell Construction Hughes reverse threaded |
| 40 € | DIL, dark brown loamy clay. DIL, stilf sandy clay rich. | | Hughes reverse threaded |
| 72 TOPS(SUBS(SAND) | OIL, stiff sandy clay rich. | | Hughes reverse threaded housing cap |
| 68 64 | OIL, stiff sandy clay rich. | | Hughes reverse threaded housing cap |
| 68 | medium brown, medium. | - 4 | |
| 64 SAND | | | |
| | dark-medium orange, medium. | 8 | |
| | , orange cream, medium. . cream, fine. | - 12 | |
| | cream, medium. | 16 | 50 mm PVC piezometer pipe |
| 52 SAND mediur | WITH IRONSTONE, medium orange becoming darker with depth, m. | - 20 | |
| 48 SAND, | , cream, fine. | 24 | |
| 44 SAND, | grey, very fine. | - - - 28 | |
| | , cream, very fine. | | |
| 40 SAND, | cream, very line. | - 32 | |
| 36 SAND | . green-cream, very fine. WITH SILT, green, very fine. | 36 | |
| 32 SAND | WITH SILT, green, medium. | - 40 - | |
| 28 SAND | , green, medium. | - - 44 | |
| 24 SAND, | усон, полит. | - 48 | 6 m perforated screen |
| 20 | | - 52 | |
| 16 | | 56 | |

| | PROJECT: BCL/CL/FA/EIA/17 LOCATION: Wrotham Quarry | BORING ID: BH8 WELL ID: PZ8 | | | | |
|--|--|--------------------------------------|--|--|--|--|
| | DRILLING CONTRACTOR: Hughes Exploration & Environmental Limited | NORTHING: 159574 | EASTING: 565479 | | | |
| | DRILLING EQUIPMENT: B40 | GROUND SURFACE ELEV.: 67.74 | TOC ELEVATION: 68.04 | | | |
| | DRILLING METHOD: RC | TOTAL DEPTH: 40 | DEPTH TO WATER: Drilled Dry | | | |
| DGGED BY: R.Pinto | SAMPLING METHOD: NA | DATE STARTED: 8/2/2011 | DATE COMPLETED: 8/2/2011 | | | |
| Elevation (maOD) cuy Graphic st Log fre Smd Medum Sind Medum Sind Caso Sind | Description | Well C | onstruction | | | |
| 68 | TOPSOIL, dark brown loamy clay. SUBSOIL, stiff sandy clay rich. | | Hughes reverse threaded housing cap | | | |
| 64 | SAND, medium brown, medium-fine | | | | | |
| 60 | SAND, dark orange, medium. | 8 | | | | |
| 56 | SAND, dark orange, medium-fine. SAND, medium orange, fine. SAND, cream, fine. | | | | | |
| 52 | | - 16 | 50 mm PVC piezometer pipe | | | |
| 48 | SAND, cream-orange, medium. SAND WITH IRONSTONE, dark-orange becoming lighter with depth, | 20 | | | | |
| 44 | SAND with inclusion, daix-brange becoming lighter with deput, medium. | 24 | | | | |
| 40 | | - 28 | | | | |
| 36 | SAND WITH SILT, dark grey, very fine. | 32 | — | | | |
| 32 | Carlo ann oich, dan gioj, to j inc. | 36 | 6 m perforated screen | | | |
| 28 | | 40 | | | | |

| | | TAILS | | | Ø | (oN) | E |
|------------------------------|---|-----------------|-----------------------|---------------------|----------|---|--|
| Joc | FLACTE DIC | Borehole | | | Diameter | Well Casing Well Screen Gravel | Cover Type RAISED / FLUSH Water Level |
| Client | F | Anding Time - F | | FOR WATER Quarry | | see DLYMER (hrs) | |
| RILLING | DAILY DRILLING LOG Drill F-mail: admin@anex-drilling.com | S.V. | STRF GREY CLAY (Fuil) | TO BE SUPPLIED BY | | (No) Fixed Plant. Dam PE.R. + Bow SE.R. (No) Standing Times 2 O.Rum S PU | Signed by Client |
| KANNAL | | Recovery | | | | Care Boxes | (|
| 3 | - | Thickness | H-50 | | | ш Ш | |
| MAHTONN | -3-21 Working | Base Depth | 14.SO | | | Casing Dpen Hole W. Samples Coring | ed vex |
| | -51 | Top Depth | 800 | | | (oN) (oN) / | Signed by Apex |
| Contract Name Contract No | Date | Bore Hole | C:HS | | | Site Moves | er reader |

| | M. Cowans | ATION DETAILS | 1 1 | | | | | | | | 0 | E. | E | (NO) | HSULT | |
|---------------|--|--------------------|---------------------------------------|------------------------|----------|-----------------------|------------|-------------------------|-------------|--------------------|-----------|------------------|------------------|------------------------------------|--|---|
| Bcl | P10 | | Borehole | ASER | | sk | | 4 | | | Diameter | Well Casing | Gravel Bentonite | | | Remarks |
| Client Body | Drill Crew T.DAVIES | dino Time | | FillING WATER BOWSER | | Fillin G WATER BOWSES | | ATER BOWSER | | FOR TAWKER | | N | | (hts) | | Date |
| | DAILY DRILLING LOG Tel: 01656 749149 E-mail: admin@apex-drilling.com | | STAFT GREY CLAY GAULT CLAY SAND | 10.10 to 10.45 Filling | SAND | 1145 - 12.25 Filling | Gwo | 1:30 - 2.10 FILME WATER | SAND | 70 BE FILED MAMINE | Sand | Flush BH - 45min | LL | (No) Standing Times m Breakdown | | by client |
| Charley | 7 | Thickness Recovery | 1.80 2.90 11.80 | | 6.00 | | 9.00 | | 6.00 | | 3.00 | | Core Boxes | | | the second se |
| MRGTHAM | 16-3-21 | Bas | H-50 6.30 630 9.20 9.20 21.00 | | 00 27.00 | | 7.00 36.00 | | 36.00 42.00 | | 200 45.00 | | (No) Casing | | Sig | - |
| Contract Name | | Bore Hole Top | 6H-2 4 | | 21 | | 3 | | 3 | | A. | | Site Moves. | ES / | State of the second sec | Cartificture N |

| | Cowlans | DETAILS | | | | | | 0 6 8 | EE | (No) | |
|------------------------------|---------------------------------|--------------------------|--------------------|---------------------------|-------------------|---|--|-------------------------|------------------|---------------------|--|
| ٦. | Dre M' (| INSTALLATION Borehole | | | | | Quigment | Diameter Well Casing | Gravel | | Cover Type RAISED / FLUSH Water Level |
| Client B.C. | Drill Crew T. DAVIES | Ru CTED | Rok Water | Lost Flush 167,10 | то 42.00- | DIPE TED PRE ENTONTE SEAL | RIG + EU | ODEX A.20. | | (hrs). (hrs) | . Date |
| | Y DRILLING LOG 101656 749149 | - | 8.00-10.30 NARTING | SAND SOF DRILL | INSTALLED SO PIPE | D.00 - 30.00 Plan 30.00 - 42.00 Plan RESSURE WASH RIG + B RESSURE WASH RIG + B CEMENT IN PAISED C | 12:30 - 300 Move To BH-1 + Fill WATER | Ful Strift GRey Clay | (No) Fixed Plant | (No) Standing Times | |
| Quarry | c | | | 00 | | | | 20 | Core Boxes | - C - | 0 |
| NKOTHAM QUARRY | 17-3-21 | Base Depth Thickness | | 147.10 2.10 50.00 2.90 | | | | 0.90 0.90 | Casing | W. Samples | Signed by Apex |
| | o | | | 45.00 47.10 | | | | BH-1 0.00 | (NO) | (oN) / S | Sign Sign |
| Contract Name Contract No | Date | Bure Hole BH-2 | | | | | | BH-1 | Site Moves | Return Moves | A DIAL PARTY OF A DIAL PARTY O |

| | M. COWANS | DETAILS | | | | | ØE | m m (oV) | Militian - Site Conve |
|---------------|----------------------|--|-------------------------|-----------------------------------|--------------------|--|--|--|--|
| <u>,</u> | ā | STALLATION | | | Bonus | | Diameter. Well Casing. Weil Screen | Gravel | Cover Type RAISED / FLUSH Water Level Remarks |
| Client BC (| Drill Crew T. DAVIES | Rig Type Standing Time – Reason | SD | Toral So | Flush BA - Head | Inn P.PE Jones P.PE Entonne SEAL | OVER FOUNDARNT | (Pirs) | Date |
| | | Strate Description IFF GREY CIAY | 35- 35- | 3 L S C 50 I S C | 0 SO P.PE TO | 0.00 - 31.00 Main 31.00 - 40.00 Slor GRAVEL FILTER + BEA | IN RAISED C | Fixed Plant. Standing Times Breakdown | |
| | | 5°S | 25 2 70 Sano | 25 | Sand | MITH Ge | CEMENT | (No) m (No) | Signed by Client |
| M QUARRY | 21 | Thickness Recovery 3.700 0.80 | 600 | | 11.50 | | | Core Boxes Core Liner SPT/CPT Installation | Den |
| Retham | 001 | pth Base Depth 00 21.70 0 22.50 | -1 50 28:50 | PT-2 28:50 | 50 40.00 | | | (No) Casing | Signed by Apex |
| Contract Name | 0 | Bore Hole Top Depth BH-1 15.00 21:70 | CPT-1 22.50 22.50 | 25 28 | 28.50 | | | Site Moves ATTTE Bore Moves Deturn Moves O Security YES / NO | With Darling With Darling Washington Washington Washington Commentation Commenta |

| | DUANS | | DETAILS | | | | | E E | E | (oN) | E |
|-------------|---------------------|--|---|------------------------------------|----------------------|---|--------------------|-------------|------------|---------------------------------|---------------------|
| | N. O. | PLE | STALLATION | | | | | ing | | | pe RAISED / FLUSH |
| client. Bcl | Drill Crew T. AULES | RASTE RASTE | RIG + EQUIPMENTBORHOLE | ODEX 4.20 | 22.00- | Plans Pipe Slotted Pipe Bentonite Seal | + EQURMENT | Well Screen | Gravel | (hrs) Gas Bung. | |
| | VICES | : 01656 749149 dmin@apex-drilling.com | Strata Description S.:00 - 10.45 Move 1 To BH-4 + Fill MATE | BACKFIL STIFF GREY CLAY SAND | INSTALLED SO PIPE to | C.CO - 13.00 Plain 13.00 - 22.00 Slotte With Servel FLTER + BEN | PRESSURE MASH RIGA | | | (No) Standing Times. Trimes. | at |
| Quarry. | _ | S | Thickness Recovery | 040 05:0 00:60 | | | | | Core Boxes | SPT/CPT. | G |
| WROTHAM | 19-3-21 | Working Day | Base Depth | 1.40 | | | | | 0) Casing | | Signed by Apex |
| | Contract No | Sheet of | Bore Hole Top Depth | 04.1 0.000 | | | | | Site Moves | ES / NO | Levelson Res (1979) |

| | M. Cowans | | ION DETAILS | | | | | | ØE | m | (oV) | MARA |
|----------------|-----------------------|--------------------------------|---------------------|----------------|-----------------------------------|--|-------------|--|-------------------------|------------------|----------------------|------------------|
| 10 | | 9 | INSTALLAT hole | | | | | | Diameter Well Casing | Well Screen | Bentonite | e RAISED / el |
| Client BCI | Drill Crew T. Daulies | 9 | ding Time | NATER TANKS | ODEX 4.20 | -Tonul So | | - Total So | | | | Date |
| X | | 56 749149 apex-drilling.com | CEMENT IN RAISED | Move Fill M | BACKFII STRF GREY CLAY SAND | 1 2 3 4 4 5 6 23 5- 55- | SAND | 25 2 30 4 5 6 | SAND | (No) Fixed Plant | (No) Standing Times. | tt |
| Quarry | | 9 | Thickness Recovery | | 30 20 20 20 | | 00.00 | | 2:00 | m Core Boxes | m Core Liner | |
| WROTHAM QUARRY | 22-3-21 | Vorking Day | Base Depth | | 200 1/30 200 1/30 200 1/30 | R-1 1-80- | cc litec \$ | CF7.2 | 00 26.00 1 | | (No) Open Hole | Sig |
| Contract Name | Contract No | Sheet of | Bore Hole Top Depth | | BH-3 0.0 | 1-20 1-20 1-20 1-20 1-20 1-20 1-20 1-20 | 90 | P S S S S S S S S S S S S S S S S S S S | 1 | Site Moves | Bore Moves | |

| | VS | ETAILS | | | | 9 E 8 | EE | (No) | U |
|----------------|--|-------------------------------------|--|------------------|--------------------------------------|-------------------------|-------------|-------------------------------------|--|
| | PANES M. COMANS | INSTALLATION DET/ Borehole | | | QuARRY | Utameter Well Casing | Gravel | Gas Bung | RAISED / FLUSH |
| Client BCI | Drill Crew T. ONVIE | Standing Time — Reason B | TO 40.00 | Cover | BACK TO G | | | (hrs) G | - |
| EX | Tel: 01656 749149 E-mail: admin@apex-drilling.com Rig | Strata Description | NSTAILED SO P.PE 31.00 Jan 31.00 Jan With GRAVEL FLITER, BE | CEMENT IN RAISED | ASMIN TRACK RIG PRESSURE WASH RIG | | ш. | (No) Standing Times. m Breakdown | nt |
| Quarry | 7 | Thickness Recovery | | | | | Core Boxes | | |
| WROTHAM QUARRY | 23-3-21 of 1 Working | Top Depth Base Depth Zbicc A.O.OO 1 | | | | | (No) Casing | | Sig |
| Contract Name | | BUH-3 | | | | | Site Moves | Return Moves | Social States Contraction of Contraction C |



Ferns Group Wrotham Quarry Addington, Kent

Environmental Permit Application Buttressing of Quarry Faces Using Inert Materials Hydrogeological Risk Assessment

Version 3 16th June 2022

Appendix 3 Groundwater Quality



Technology Centre, Wolverhampton Science Park, Glashier Drive, Wolverhampton West Midlands, WV10 9RU. Tel: 01902 824111, Fax: 01902 824112 email: info@bclhydro.co.uk, web: http://www.bclhydro.co.uk Registered Office: 33, Wolverhampton Road, Cannock, West Midlands, WV11 1AP Registered in England & Wales. Company Registration Number: 4043373

| | | | Reference: | 236 | | 45 | | 223 | 1 | 185 | 186 | 187 |
|---------------|---------------|-----------------|---------------|-----------|----------------------|----------------------|----------------------|-----------|---------------------|-----------|-----------|-----------|
| | | | Sample round: | Old Suite | Hazardous Substances | Hazardous Substances | Hazardous Substances | Old Suite | Quarterly & Annual | Old Suite | Old Suite | Old Suite |
| | | | Group: | | PCBs | Phenols | VOCs | | | ICPMs | ICPMs | ICPs |
| | | | Method code: | PAHMSW | | | | WSLM3 | | ICPMSWT | ICPMSWT | ICPWATVAR |
| | | | Units: | mg/l | mg/l | mg/l | mg/l | pH Units | mg/l | mg/l | mg/l | mg/l |
| Lab report ID | Lab sample ID | Field sample ID | Date sampled | PAHs | PCBs | Phenols | ТРН | pH | mmoniacal Nitrogen. | Antimony | Arsenic | Barium |
| 21042147 | 21042147-001 | PZ2/21 | 27/04/2021 | | <0.00001 | <0.02 | <0.005 | 6.90 | 0.03 | <0.001 | <0.001 | 0.11 |
| 21042147 | 21042147-002 | PZ3/21 | 27/04/2021 | | <0.00001 | <0.02 | <0.005 | 7.20 | 0.05 | <0.001 | <0.001 | 0.03 |
| 21051680 | 21051680-001 | PZ2/21 | 19/05/2021 | | <0.00001 | <0.02 | <0.005 | 6.90 | 0.10 | <0.001 | <0.001 | 0.10 |
| 21051680 | 21051680-002 | PZ3/21 | 19/05/2021 | | <0.00001 | <0.02 | 0.007 | 7.50 | 0.19 | < 0.001 | <0.001 | 0.03 |
| 21062054 | 21062054-001 | PZ2/21 | 23/06/2021 | | <0.00001 | <0.02 | <0.005 | 6.60 | 0.02 | <0.001 | <0.001 | 0.05 |
| 21062054 | 21062054-002 | PZ3/21 | 23/06/2021 | | <0.00001 | <0.02 | <0.005 | 7.20 | 0.15 | <0.001 | <0.001 | 0.03 |
| 21080067 | 21080067-001 | PZ2/21 | 27/07/2021 | | <0.00001 | <0.02 | <0.005 | 7.60 | <0.01 | <0.001 | <0.001 | 0.05 |
| 21080067 | 21080067-002 | PZ3/21 | 27/07/2021 | | <0.00001 | <0.02 | <0.005 | 7.40 | <0.01 | <0.001 | <0.001 | 0.03 |
| 21082058 | 21082058-001 | PZ3/21 | 24/08/2021 | | <0.00001 | <0.02 | <0.005 | 7.30 | 6.90 | <0.001 | <0.001 | 0.03 |
| 21082058 | 21082058-002 | PZ2/21 | 24/08/2021 | | <0.00001 | <0.02 | <0.005 | 6.80 | 0.01 | <0.001 | <0.001 | 0.06 |
| 21100169 | 21100169-001 | PZ3/21 | 24/09/2021 | <0.00016 | <0.00001 | <0.02 | <0.005 | 7.10 | 0.04 | <0.001 | <0.001 | 0.03 |
| 21100169 | 21100169-002 | PZ2/21 | 24/09/2021 | <0.00016 | <0.00001 | <0.02 | <0.005 | 6.80 | 2.30 | <0.001 | <0.001 | 0.11 |
| 21101967 | 21101967-001 | PZ2/21 | 20/10/2021 | <0.00016 | <0.00001 | <0.02 | <0.005 | 6.40 | <0.01 | <0.001 | <0.001 | 0.06 |
| 21101967 | 21101967-002 | PZ3/21 | 20/10/2021 | <0.00016 | <0.00001 | <0.02 | <0.005 | 7.30 | <0.01 | <0.001 | <0.001 | 0.06 |
| 21111773 | 21111773-001 | PZ2/21 | 17/11/2021 | <0.00016 | <0.00001 | <0.02 | <0.005 | 6.40 | <0.01 | <0.001 | <0.001 | 0.06 |
| 21111773 | 21111773-002 | PZ3/21 | 17/11/2021 | <0.00016 | <0.00001 | <0.02 | <0.005 | 7.30 | <0.01 | <0.001 | <0.001 | 0.03 |
| 21121601 | 21121601-001 | PZ2/21 | 15/12/2021 | <0.00016 | <0.00001 | | <0.005 | 6.50 | <0.01 | <0.001 | <0.001 | 0.06 |
| 21121601 | 21121601-002 | PZ3/21 | 15/12/2021 | <0.00016 | <0.00001 | <0.02 | <0.005 | 7.30 | <0.01 | <0.001 | <0.001 | 0.03 |
| 22020193 | 22020193-001 | PZ2-21 | 25/01/2022 | <0.00016 | <0.00001 | <0.04 | <0.005 | 6.40 | <0.01 | <0.001 | <0.001 | 0.06 |
| 22020193 | 22020193-002 | PZ3-21 | 25/01/2022 | 0.00016 | <0.00001 | <0.02 | <0.005 | 7.30 | <0.01 | <0.001 | <0.001 | 0.03 |
| 22022121 | 22022121-001 | PZ2/21 | 21/02/2022 | 0.00017 | <0.00001 | <0.02 | <0.005 | 6.00 | 0.01 | <0.001 | <0.001 | 0.07 |
| 22022121 | 22022121-002 | PZ3/21 | 21/02/2022 | 0.00017 | 0.00002 | <0.02 | <0.005 | 6.70 | 0.01 | <0.001 | <0.001 | 0.03 |
| 22040086 | 22040086-001 | PZ2/21 | 28/03/2022 | 0.00017 | <0.00001 | <0.02 | <0.005 | 6.00 | 0.02 | <0.001 | <0.001 | 0.06 |
| 22040086 | 22040086-002 | PZ3/21 | 28/03/2022 | <0.00016 | <0.00001 | <0.02 | <0.005 | 6.90 | 0.03 | <0.001 | <0.001 | 0.03 |
| 22050304 | 22050304-002 | PZ2/21 | 27/04/2022 | <0.00016 | <0.00001 | <0.350 | <0.005 | 6.30 | 0.05 | <0.001 | <0.001 | 0.03 |
| 22050304 | 22050304-003 | PZ3/21 | 27/04/2022 | <0.00016 | <0.00001 | <0.350 | <0.005 | 7.20 | 0.04 | <0.001 | <0.001 | 0.03 |

| | | | Reference: | 2 | 5 | 12 | 3 | 204 | 205 | 14 | 4 | 213 |
|---------------|---------------|-----------------|---------------|--------------------|--------------------|----------|--------------------|-------------------------|-----------|--------|--------------------|------------|
| | | | Sample round: | Quarterly & Annual | Quarterly & Annual | Annual | Quarterly & Annual | Old Suite | Old Suite | Annual | Quarterly & Annual | Old Suite |
| | | | Group: | | | | | | | | | |
| | | | Method code: | | | | | WSLM13 | ISEF | | | ICPMSWT |
| | | | Units: | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l |
| Lab report ID | Lab sample ID | Field sample ID | Date sampled | Cadmium | Chloride | Chromium | Copper | issolved Organic Carbon | Fluoride | Lead | Mercury | Aolybdenum |
| 21042147 | 21042147-001 | PZ2/21 | 27/04/2021 | 0.0001 | 127.00 | <0.001 | 0.001 | 2.00 | 0.10 | <0.001 | 0.00005 | <0.001 |
| 21042147 | 21042147-002 | PZ3/21 | 27/04/2021 | <0.00002 | 67.00 | <0.001 | 0.001 | 2.90 | 0.10 | <0.001 | <0.00003 | <0.001 |
| 21051680 | 21051680-001 | PZ2/21 | 19/05/2021 | 0.00005 | 139.00 | <0.001 | <0.001 | 1.00 | 0.10 | <0.001 | <0.00003 | <0.001 |
| 21051680 | 21051680-002 | PZ3/21 | 19/05/2021 | <0.00002 | 65.00 | <0.001 | 0.001 | 2.20 | 0.10 | <0.001 | <0.00003 | <0.001 |
| 21062054 | 21062054-001 | PZ2/21 | 23/06/2021 | 0.0001 | 123.00 | <0.001 | <0.001 | 1.20 | 0.20 | <0.001 | <0.00003 | <0.001 |
| 21062054 | 21062054-002 | PZ3/21 | 23/06/2021 | 0.0001 | 76.00 | <0.001 | <0.001 | 2.80 | 0.20 | <0.001 | <0.00003 | <0.001 |
| 21080067 | 21080067-001 | PZ2/21 | 27/07/2021 | 0.00004 | 119.00 | <0.001 | <0.001 | 1.20 | 0.20 | <0.001 | < 0.00003 | <0.001 |
| 21080067 | 21080067-002 | PZ3/21 | 27/07/2021 | 0.00002 | 71.00 | <0.001 | <0.001 | 2.70 | 0.20 | <0.001 | <0.00003 | <0.001 |
| 21082058 | 21082058-001 | PZ3/21 | 24/08/2021 | <0.00002 | 436.00 | <0.001 | <0.001 | 2.40 | 0.10 | <0.001 | <0.00003 | <0.001 |
| 21082058 | 21082058-002 | PZ2/21 | 24/08/2021 | 0.00004 | 123.00 | <0.001 | <0.001 | 1.30 | <0.1 | <0.001 | <0.00003 | <0.001 |
| 21100169 | 21100169-001 | PZ3/21 | 24/09/2021 | <0.00002 | 65.00 | <0.001 | <0.001 | 2.70 | 1.10 | <0.001 | <0.00003 | <0.001 |
| 21100169 | 21100169-002 | PZ2/21 | 24/09/2021 | 0.00005 | 160.00 | <0.001 | <0.001 | 1.40 | <0.1 | <0.001 | <0.00003 | <0.001 |
| 21101967 | 21101967-001 | PZ2/21 | 20/10/2021 | 0.00006 | 149.00 | <0.001 | <0.001 | 0.84 | <0.1 | <0.001 | <0.00003 | <0.001 |
| 21101967 | 21101967-002 | PZ3/21 | 20/10/2021 | 0.00007 | 59.00 | <0.001 | <0.001 | 2.10 | 0.10 | <0.001 | <0.00003 | <0.001 |
| 21111773 | 21111773-001 | PZ2/21 | 17/11/2021 | <0.00002 | 154.00 | <0.001 | <0.001 | 2.30 | <0.1 | <0.001 | <0.00003 | <0.001 |
| 21111773 | 21111773-002 | PZ3/21 | 17/11/2021 | <0.00002 | 58.00 | <0.001 | <0.001 | 2.70 | <0.1 | <0.001 | <0.00003 | <0.001 |
| 21121601 | 21121601-001 | PZ2/21 | 15/12/2021 | <0.00002 | 172.00 | | <0.001 | 0.79 | <0.1 | <0.001 | < 0.00003 | <0.001 |
| 21121601 | 21121601-002 | PZ3/21 | 15/12/2021 | <0.00002 | 54.00 | | <0.001 | 2.70 | <0.1 | <0.001 | <0.00003 | <0.001 |
| 22020193 | 22020193-001 | PZ2-21 | 25/01/2022 | 0.0000 | 164.00 | | <0.001 | 0.98 | <0.1 | <0.001 | <0.00003 | <0.001 |
| 22020193 | 22020193-002 | PZ3-21 | 25/01/2022 | 0.0000 | 48.00 | | <0.001 | 3.10 | 0.10 | 0.001 | <0.00003 | <0.001 |
| 22022121 | 22022121-001 | PZ2/21 | 21/02/2022 | <0.00002 | 185.00 | | <0.001 | 1.30 | <0.1 | <0.001 | <0.00003 | <0.001 |
| 22022121 | 22022121-002 | PZ3/21 | 21/02/2022 | <0.00002 | 48.00 | | <0.001 | 3.00 | 0.10 | <0.001 | < 0.00003 | <0.001 |
| 22040086 | 22040086-001 | PZ2/21 | 28/03/2022 | 0.0001 | 178.00 | | 0.003 | 1.20 | <0.1 | <0.001 | <0.00003 | <0.001 |
| 22040086 | 22040086-002 | PZ3/21 | 28/03/2022 | 0.0000 | 43.00 | | 0.002 | 2.70 | 0.10 | <0.001 | <0.00003 | <0.001 |
| 22050304 | 22050304-002 | PZ2/21 | 27/04/2022 | 0.0001 | 50.00 | <0.001 | <0.001 | 0.92 | <0.1 | <0.001 | <0.00003 | <0.001 |
| 22050304 | 22050304-003 | PZ3/21 | 27/04/2022 | 0.0001 | 49.00 | <0.001 | <0.001 | 2.70 | 0.10 | <0.001 | <0.00003 | <0.001 |

| | | | Reference: | 15 | 229 | 237 | 238 | 16 |
|---------------|---------------|-----------------|---------------|--------|-----------|-----------|---------------------|--------|
| | | | Sample round: | Annual | Old Suite | Old Suite | Old Suite | Annual |
| | | | Group: | | | | | |
| | | | Method code: | | ICPMSWT | ICPWATVAR | WSLM13 | |
| | | | Units: | mg/l | mg/l | mg/l | mg/l | mg/l |
| Lab report ID | Lab sample ID | Field sample ID | Date sampled | Nickel | Selenium | Sulphate | otal Organic Carbon | Zinc |
| 21042147 | 21042147-001 | PZ2/21 | 27/04/2021 | 0.022 | <0.001 | 136.00 | 1.10 | 0.116 |
| 21042147 | 21042147-002 | PZ3/21 | 27/04/2021 | 0.003 | <0.001 | 189.00 | 2.50 | 0.008 |
| 21051680 | 21051680-001 | PZ2/21 | 19/05/2021 | 0.011 | <0.001 | 113.00 | 1.10 | 0.013 |
| 21051680 | 21051680-002 | PZ3/21 | 19/05/2021 | 0.002 | <0.001 | 168.00 | 2.30 | 0.008 |
| 21062054 | 21062054-001 | PZ2/21 | 23/06/2021 | 0.007 | <0.001 | 129.00 | 1.10 | 0.004 |
| 21062054 | 21062054-002 | PZ3/21 | 23/06/2021 | 0.002 | <0.001 | 189.00 | 2.60 | 0.008 |
| 21080067 | 21080067-001 | PZ2/21 | 27/07/2021 | 0.009 | <0.001 | 131.00 | 1.20 | 0.007 |
| 21080067 | 21080067-002 | PZ3/21 | 27/07/2021 | 0.002 | <0.001 | 184.00 | 2.50 | 0.003 |
| 21082058 | 21082058-001 | PZ3/21 | 24/08/2021 | 0.006 | <0.001 | 201.00 | 2.40 | 0.003 |
| 21082058 | 21082058-002 | PZ2/21 | 24/08/2021 | 0.029 | <0.001 | 137.00 | 0.97 | 0.007 |
| 21100169 | 21100169-001 | PZ3/21 | 24/09/2021 | 0.002 | <0.001 | 174.00 | 2.60 | 0.006 |
| 21100169 | 21100169-002 | PZ2/21 | 24/09/2021 | 0.074 | <0.001 | 127.00 | 1.30 | 0.036 |
| 21101967 | 21101967-001 | PZ2/21 | 20/10/2021 | 0.097 | <0.001 | 125.00 | 0.95 | 0.074 |
| 21101967 | 21101967-002 | PZ3/21 | 20/10/2021 | 0.099 | <0.001 | 132.00 | 2.10 | 0.099 |
| 21111773 | 21111773-001 | PZ2/21 | 17/11/2021 | 0.090 | <0.001 | 131.00 | 0.91 | 0.041 |
| 21111773 | 21111773-002 | PZ3/21 | 17/11/2021 | 0.002 | <0.001 | 161.00 | 2.10 | 0.009 |
| 21121601 | 21121601-001 | PZ2/21 | 15/12/2021 | 0.066 | <0.001 | 141.00 | 2.70 | 0.085 |
| 21121601 | 21121601-002 | PZ3/21 | 15/12/2021 | 0.002 | <0.001 | 171.00 | 0.80 | 0.043 |
| 22020193 | 22020193-001 | PZ2-21 | 25/01/2022 | 0.087 | <0.001 | 131.00 | 1.10 | 0.066 |
| 22020193 | 22020193-002 | PZ3-21 | 25/01/2022 | 0.003 | <0.001 | 140.00 | 3.10 | 0.074 |
| 22022121 | 22022121-001 | PZ2/21 | 21/02/2022 | 0.109 | <0.001 | 139.00 | 1.10 | 0.068 |
| 22022121 | 22022121-002 | PZ3/21 | 21/02/2022 | 0.001 | <0.001 | 153.00 | 3.00 | 0.008 |
| 22040086 | 22040086-001 | PZ2/21 | 28/03/2022 | 0.091 | <0.001 | 135.00 | 1.20 | 0.099 |
| 22040086 | 22040086-002 | PZ3/21 | 28/03/2022 | 0.002 | <0.001 | 116.00 | 2.70 | 0.027 |
| 22050304 | 22050304-002 | PZ2/21 | 27/04/2022 | 0.001 | <0.001 | 163.00 | 0.96 | 0.010 |
| 22050304 | 22050304-003 | PZ3/21 | 27/04/2022 | 0.001 | <0.001 | 166.00 | 2.90 | 0.029 |



Ferns Group Wrotham Quarry Addington, Kent

Environmental Permit Application Buttressing of Quarry Faces Using Inert Materials Hydrogeological Risk Assessment

Version 3 16th June 2022

Appendix 4 Laboratory Certificates



Technology Centre, Wolverhampton Science Park, Glashier Drive, Wolverhampton West Midlands, WV10 9RU. Tei: 01902 824111, Fax: 01902 824112 email: info@bclhydro.co.uk, web: http://www.bclhydro.co.uk Registered Office: 33, Wolverhampton Road, Cannock, West Midlands, WV11 1AP Registered in England & Wales. Company Registration Number: 4043373



Environmental Chemistry SOCOTEC UK Ashby Rd, Bretby, Burton-on-Trent, UK DE15 0YZ

Certificate of Analysis

Project No: 21042147

Client: BCL Consultant Hydrogeologists Limited

Quote Number: BEC210417464

Project Reference: Wrotham

Site Name: Wrotham

Contact: Tom Herbert

Address: Technology Centre Wolverhampton Science Park Wolverhampton West Midlands

Post Code: WV10 9RU

E-Mail: tomh@bclhydro.co.uk

Phone No: 01902 824111

Number of Samples Received: 2

Date Received: 30/04/2021

Analysis Date: 11/05/2021

Date Issued: 12/05/2021

Job Status: Complete

Report Type: Final Version 01

This report supersedes any versions previously issued by the laboratory

Authorised by the Operations Manager Becky Batham

Jones Account Manager

Emily Jones



Samples Analysed

Sample Reference Pz2/21 Pz3/21 <u>Text ID</u> 21042147-001 21042147-002

Sample Date 27/04/2021 00:00:00 27/04/2021 00:00:00

Project Name: Wrotham Project No: 21042147

Date Issued: 12/05/2021

Sample Type WATER WATER Sample Description Unclassified Liquid Unclassified Liquid

Client: BCL Consultant Hydrogeologists Limited

FINAL_COA_01



Project Name: Wrotham

Project No: 21042147 Date Issued: 12/05/2021

Analysis Results

| | | | | Project ID | 2104 | 2147 |
|-------------------------|-----------------------|---------|----------|---------------|------------|------------|
| | | | | Sample ID | 001 | 002 |
| | | | | Customer ID | P22 / 21 | Pz3/21 |
| | | | | Costonio in | | |
| | | | | Sample Type | WATER | WATER |
| | | | | Sampling Date | 27/04/2021 | 27/04/2021 |
| Analysis | Method Code | MDL | Units | Accred | 10 Jan 10 | |
| mmonlacal Nitrogen as N | KÖNENS | 0.01 | mg/l | N | 0.03 | 0.05 |
| рН | WSLM2 & 3 | 1 | pH units | N | 6.9 | 7.2 |
| TDS as mg/L | WSLM27 | 5 | mg/l | N | 675 | 533 |
| Chloride as Cl | KONENS | 1.1 | mg/l | N | 127 | 67 |
| Fluoride as F | ISEF | 0.1 | mg/l | N | 0.1 | 0.1 |
| issolved Organic Carbon | WSLN13 | 0.2 | mg/l | N | 2.0 | 2.9 |
| Total Organic Carbon | WSLM13 | 0.2 | mg/i | N | 1.1 | 2.5 |
| Antimony as Sb | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Arsenic as As | (CPMSW (Dissolved) | 0.001 | mg/i | N. | <0.001 | < 0.001 |
| Cadmium as Cd | ICPMSW (Dissolved) | 0.00002 | mg/l | N | 0.00010 | < 0.00002 |
| Total Chromium as Cr | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0,001 | <0.001 |
| Copper as Cu | ICPMSW (Dissolved) | 0.001 | mg/l | N | 0.001 | 0.001 |
| Lead as Pb | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Mercury as Hg | ICPMSW (Dissolved) | 0.00003 | mg/l | N | 0.00005 | < 0.00003 |
| Molybdenum as Mo | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Nickel as NI | ICPMSW (Dissolved) | 0.001 | mg/i | N | 0.022 | 0.003 |
| Selenium as Se | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | < 0.001 |
| Zinc as Zŋ | ICPMSW (Dissolved) | 0.002 | mg/i | N | 0.116 | 0.008 |
| Barlum as Ba | ICPWATVAR (Dissolved) | 0.01 | mg/l | - N | 0.11 | 0.03 |
| Total Sulphur as SO4 | ICPWATVAR (Dissolved) | 3 | mg/l | N | 136 | 189 |
| Benzene | BTEXHSA | 5 | µg/I | N | <5 | <5 |
| Ethylbenzene | BTEXHSA | 5 | µg/l | N | <5 | <5 |
| m/p-Xylene | BTEXHSA | 10 | µg/I | N | <10 | <10 |
| o-Xylene | BTEXHSA | 5 | µg/l | N | <5 | <5 |

Page 3 of 8



Project Name: Wrotham

Project No: 21042147 Date Issued: 12/05/2021

Analysis Results

| | | | | Project ID | | 2147 |
|------------------------|-------------|------|-------|---------------|------------|-----------|
| | | | | Sample ID | 001 | 002 |
| | | | | Customer ID | Pz2/21 | Pz3/21 |
| | | | | Sample Type | WATER | WATER |
| | | | | Sampling Date | 27/04/2021 | 27/04/202 |
| Analysis | Method Code | MDL | Units | Accred | | - |
| Toluene | BTEXHSA | 5 | ual | N | <5 | <5 |
| Acenaphthene | PAHMSW | 0.01 | µg/l | N | 0.78 | <0.01 |
| Acenaphthylene | PAHMSW | 0.01 | µg/l | | | |
| Anthracene | PAHMSW | 0.01 | µg/l | N | 0.12 | <0.01 |
| | 3.0278 | | µg/l | | 0.09 | <0.01 |
| Benzo[a]anthracene | PAHMSW | 0.01 | µg/l | N | 0.09 | <0.01 |
| Benzo[a]pyrene | PAHMSW | 0.01 | µg/I | N | <0.04 | <0.01 |
| Benzo[b]fluoranthene | PAHMSW | 0.01 | µg/l | N | <0.04 | <0.01 |
| Benzo(g,h,l]perylene | PAHMSW | 0.01 | µg/I | N | <0.04 | <0.01 |
| Benzo[k]fluoranthene | PAHMSW | 0.01 | µg/l | N | <0.04 | <0.01 |
| Chrysene | PAHMSW | 0.01 | µg/l | N | 0.05 | <0.01 |
| Dibenzo[a,h]anthracene | PAHMSW | 0.01 | µg/l | N | <0.04 | <0.01 |
| Fluoranthene | PAHMSW | 0.01 | µg/l | N | 0.40 | <0.01 |
| Fluorene | PAHMSW | 0.01 | µg/l | N | 0.46 | <0.01 |
| Indeno[1,2,3-cd]pyrene | PAHMSW | 0.01 | µg/l | N | <0.04 | <0.01 |
| Naphthalene | PAHMSW | 0.01 | l/gu | N | 0.29 | <0.01 |
| Phenanthrene | PAHMSW | 0.01 | µg/l | N | 0.49 | <0.01 |
| Pyrene | PAHMSW | 0.01 | µg/ľ | N | 0.29 | <0.01 |
| Total PAH 16 | PAHMSW | 0.16 | µg/l | N | <3.30 | <0.16 |
| PCB 101 | PCBECD | 0.01 | µg/l | N | <0.01 | <0.01 |
| PCB 118 | PCBECD | 0.01 | µg/l | N | <0.01 | <0.01 |
| PCB 138 | PCBECD | 0.01 | µg/l | N | <0.01 | <0.01 |
| PCB 153 | PCBECD | 0.01 | µg/l | N | <0.01 | <0.01 |
| PCB 180 | PCBECD | 0.01 | µg/l | N | <0.01 | <0.01 |
| PCB 28 | PCBECD | 0.01 | µg/l | N | <0.01 | <0.01 |

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Project Name: Wrotham

Project No: 21042147 Date Issued: 12/05/2021

Analysis Results

| | | | | Project ID | 2104 | 2147 | |
|----------------------------|-------------|-------|-------|---------------|------------|-----------------|--|
| | | | | Sample ID | 001 | 002 | |
| | | | | Customer ID | Pz2 / 21 | Pz3/21 WATER | |
| | | | | Sample Type | WATER | | |
| | | | | Sampling Date | 27/04/2021 | 27/04/2021 | |
| Analysis | Method Code | MDL | Units | Accred | | | |
| PCB 52 | PCBECD | 0.01 | µg/l | N | <0.01 | <0.01 | |
| 2,4,5-Trichlorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 | |
| 2,4,6-Trichlorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 | |
| 2,4-Dichlorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 | |
| 2,4-Dimethylphenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 | |
| 2,4-Dinitrophenol | SVOCSW | 0.01 | mg/l | N | <0.010 | <0.010 | |
| 2-Chlorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 | |
| 2-Methylphenol | svocsw | 0.005 | mg/l | | <0.005 | <0.005 | |
| 2-Nitrophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 | |
| 3- & 4-Methylphenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 | |
| 4,6-Dinitro-2-methylphenol | SVOCSW | 0.05 | mg/l | N | <0.050 | <0.050 | |
| 4-Chloro-3-methylphenol | SVOCSW | 0.005 | mg/l | N | <0.005 | <0.005 | |
| 4-Chiorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 | |
| 4-Nitrophenol | SVOCSW | 0.05 | mg/l | N | <0.050 | <0.050 | |
| Pentachiorophenol | SVOCSW | 0.05 | mg/l | N | <0.050 | <0.050 | |
| Phenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 | |
| Total (15) Phenois | SVOCSW | 0.35 | mg/l | N | <0.350 | <0.350 | |

Page 5 of 8

Additional Report Notes

| Method | Sample ID | The following information should be taken into consideration when using the |
|--------|-----------|--|
| PAHMSW | 001-002 | data contained within this report The Primary process control data associated with this Test has not wholly met the requirements of the Laboratory Quality Management System QMS with one or more target analytes falling outside acceptable limits. However the remaining data gives the Laboratory confidence that the test has performed satisfactorily and that the validity of the data may not have been significantly affected. However in line with our QMS policy we have removed accreditation, where applicable, from the affected analytes (Indeno[1,2,3-cd]pyrene). These circumstances should be taken into consideration when utilising the data. |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
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| | | |

LIMS-F002 - Report Notes



Project Name: Wrotham

Project No: 21042147

Date Issued: 12/05/2021

| | | | Incorrect Container | Incorrect Label | eadspace | incorrect/No Preservative | Sampling Date | Holdino Time |
|------------------|---------|---------------|---------------------|-----------------|----------|---------------------------|----------------|--------------|
| Sample Reference | Text ID | Reported Name | <u>e</u> | u l | £ | <u> </u> | ^o N | 1 I |

Analysis

BTEXHSA ICPMSW (Dissolved) ICPWATVAR (Dissolved) ISEF KONENS PAHMSW PCBECD SVOCSW WSLM13 WSLM2 & 3 WSLM27

Analysis Type ORGANIC METALS METALS INORGANIC INORGANIC ORGANIC ORGANIC INORGANIC INORGANIC INORGANIC INORGANIC

Analysis Method

Unfiltered Filtered Unfiltered Filtered Unfiltered Unfiltered Unfiltered Filtered Unfiltered Filtered Filtered



Project Name: Wrotham Project No: 21042147 Date Issued: 12/05/2021

Additional Information

This report refers to samples as received, and SOCOTEC Uk Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

In the accreditation column of analysis report the codes are as follows:

- U = UKAS accredited analysis
- M = MCERT accredited analysis
- N = Unaccredited analysis

Any units marked with ^ signify results are reported on a dry weight basis of 105 ° c

All Air Dried and Ground Samples (ADG) are oven dried at less than 35° c.

This report shall not be reproduced except in full and with approval from the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any samples marked with * are not covered by our scope of UKAS accreditation. If applicable, further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with ‡ have had MCERTS accreditation removed for this result

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

- IS = Insufficient Sample to complete analysis
- NA = Sample is not amenable for the required analysis
- ND = Results cannot be determined

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the Subcontracted lab for information regarding any deviancies for this analysis.

End of Certificate of Analysis



Environmental Chemistry SOCOTEC UK Ashby Rd, Bretby, Burton-on-Trent, UK DE15 0YZ

Certificate of Analysis

Project No: 21051680

Client: BCL Consultant Hydrogeologists Limited

Quote Number: BEC210417464

Project Reference: Wrotham Additional Testing

Site Name: Wrotham Additional Testing

Contact: Tom Herbert

Address: Technology Centre Wolverhampton Science Park Wolverhampton West Midlands

Post Code: WV10 9RU

E-Mail: tomh@bclhydro.co.uk

Phone No: 01902 824111

Number of Samples Received: 2

Date Received: 25/05/2021

Analysis Date: 07/06/2021

Date Issued: 07/06/2021

Job Status: Complete

Report Type: Final Version 01

This report supersedes any versions previously issued by the laboratory

Authorised by the Operations Manager Becky Batham

Account Manager Emily Jones

Jona



Samples Analysed

Sample Reference P2/21 P3/21 Text ID 21051680-001 21051680-002

Sample Date 19/05/2021 00:00:00 19/05/2021 00:00:00

Client: BCL Consultant Hydrogeologists Limited

Project Name: Wrotham Additional Testing Project No: 21051680

Date Issued: 07/06/2021

Sample Type WATER WATER Sample Description Unclassified Liquid Unclassified Liquid



Project Name: Wrotham Additional Testing

Project No: 21051680 Date Issued: 07/06/2021

Analysis Results

| | | | | Project ID | | 1680 | |
|--------------------------|-----------------------|---------|----------|--------------|------------|-----------|--|
| | | | | Sample ID | 001 | 002 | |
| | | | | Customer ID | P2/21 | P3/21 | |
| | | | | Sample Type | WATER | WATER | |
| | | | | ampling Date | 19/05/2021 | 19/05/202 | |
| | | | | - | | | |
| Analysis | Method Code | MDL | Units | Accred | | | |
| Ammoniacal Nitrogen as N | KONENS | 0.01 | mg/l | N | 0.10 | 0.19 | |
| pН | PHCONDW | 1 | pH units | N | 6.9 | 7.5 | |
| TDS as mg/L | WSLM27 | 5 | mg/l | N | 723 | 549 | |
| Chloride as Cl | KONENS | 1 | mg/l | N | 139 | 65 | |
| Fluoride as F | ISEF | 0.1 | mg/I | N | 0.1 | 0.1 | |
| Dissolved Organic Carbon | WSLM13 | 0.2 | mg/l | N | 1.0 | 2.2 | |
| Total Organic Carbon | WSLM13 | 0.2 | mg/l | N | 1.1 | 2.3 | |
| Antimony as Sb | ICPMSW (Dissolved) | 0.001 | mg/l | N | < 0.001 | < 0.001 | |
| Arsenic as As | ICPMSW (Dissolved) | 0.001 | mg/l | N | < 0.001 | < 0.001 | |
| Cadmium as Cd | ICPMSW (Dissolved) | 0.00002 | mg/l | N | 0.00005 | < 0.00002 | |
| Total Chromium as Cr | ICPMSW (Dissolved) | 0.001 | mg/l | N | < 0.001 | < 0.001 | |
| Copper as Cu | ICPMSW (Dissolved) | 0.001 | mg/l | N | < 0.001 | 0.001 | |
| Lead as Pb | ICPMSW (Dissolved) | 0.001 | mg/I | N | < 0.001 | < 0.001 | |
| Mercury as Hg | ICPMSW (Dissolved) | 0.00003 | mg/l | N | < 0.00003 | < 0.00003 | |
| Molybdenum as Mo | ICPMSW (Dissolved) | 0.001 | mg/l | N | < 0.001 | < 0.001 | |
| Nickel as Ni | ICPMSW (Dissolved) | 0.001 | mg/l | N | 0.011 | 0.002 | |
| Selenium as Se | ICPMSW (Dissolved) | 0.001 | mg/l | N | < 0.001 | < 0.001 | |
| Zinc as Zn | ICPMSW (Dissolved) | 0.002 | mg/l | N | 0.013 | 0.008 | |
| Barium as Ba | ICPWATVAR (Dissolved) | 0.01 | mg/l | N | 0.10 | 0.03 | |
| Total Sulphur as SO4 | ICPWATVAR (Dissolved) | 3 | mg/l | N | 113 | 168 | |
| Benzene | BTEXHSA. | 5 | hð\l | N | <5 | 7 | |
| Ethylbenzene | BTEXHSA | 5 | µg/l | N | <5 | <5 | |
| m/p-Xylene | BTEXHSA | 10 | µg/l | N | <10 | <10 | |
| o-Xylene | BTEXHSA | 5 | µg/l | N | <5 | <5 | |

Page 3 of 8

Client: BCL Consultant Hydrogeologists Limited Project Name: Wrotham Additional Testing



Project No: 21051680 Date Issued: 07/06/2021

Analysis Results

| | | | | Project ID | 2105 | 1680 | |
|------------------------|-------------|------|---------------------|-------------|------------|-----------|--|
| | | | | Sample ID | 001 | 002 | |
| | | | | Customer ID | P2/21 | P3/21 | |
| | | | | Sample Type | WATER | WATER | |
| | | | Sampling Date 19/05 | | 19/05/2021 | 19/05/202 | |
| Analysis | Method Code | MDL | Units | Accred | | | |
| Toluene | BTEXHSA | 6 | µg/l | N | <5 | <5 | |
| Acenaphthene | PAHMSW | 0.01 | µg/l | N | < 0.01 | < 0.01 | |
| Acenaphthylene | PAHMSW | 0,01 | hð\l | N | <0.01 | < 0.01 | |
| Anthraoene | PAHMSW | 0.01 | µg/l | N | <0.01 | < 0.01 | |
| Benzo[a]anthracene | PAHMSW | 0.01 | µg/l | N | < 0.01 | < 0.01 | |
| Benzo[a]pyrene | PAHMSW | 0.01 | µg/l | N | < 0.01 | < 0.01 | |
| Benzo[b]fluoranthene | PAHMSW | 0.01 | µg/I | N | <0.01 | < 0.01 | |
| Benzo[g,h,i]perylene | PAHMSW | 0.01 | hð\l | N | <0.01 | < 0.01 | |
| Benzo[k]fluoranthene | PAHMSW | 0.01 | hd/l | N | <0.01 | < 0.01 | |
| Chrysene | PAHMSW | 0.01 | µg/l | N | <0.01 | < 0.01 | |
| Dibenzo[a,h]anthracene | PAHMSW | 0.01 | µg/I | N | <0.01 | < 0.01 | |
| Fluoranthene | PAHMSW | 0.01 | hð\l | N | < 0.01 | < 0.01 | |
| Fluorene | PAHMSW | 0.01 | hð\l | N | < 0.01 | < 0.01 | |
| Indeno[1,2,3-cd]pyrene | PAHMSW | 0.01 | µg/l | N | <0.01 | < 0.01 | |
| Naphthalene | PAHMSW | 0.01 | hd/l | N | < 0.01 | < 0.01 | |
| Phenanthrene | PAHMSW | 0.01 | µg/l | N | < 0.01 | < 0.01 | |
| Pyrene | PAHMSW | 0.01 | µg/l | N | <0.01 | < 0.01 | |
| Total PAH 16 | PAHMSW | 0.16 | µg/l | N | <0.16 | <0.16 | |
| PCB 101 | PCBECD | 0.01 | µg/l | N | <0.01 | <0.01 | |
| PCB 118 | PCBECD | 0.01 | µg/l | N | < 0.01 | <0.01 | |
| PCB 138 | PCBECD | 0,01 | µg/l | N | <0.01 | < 0.01 | |
| PCB 153 | PCBECD | 0.01 | µg/I | N | <0.01 | <0.01 | |
| PCB 180 | PCBECD | 0.01 | µg/l | N | <0.01 | < 0.01 | |
| PCB 28 | PCBECD | 0.01 | µg/l | N | <0.01 | < 0.01 | |

Page 4 of 8

SOCOTEC

Client: BCL Consultant Hydrogeologists Limited

Project Name: Wrotham Additional Testing

Project No: 21051680 Date Issued: 07/06/2021

Analysis Results

| | | | | Project ID | 2105 | 1680 |
|----------------------------|-------------|-------|-------|---------------|------------|-----------|
| | | | | Sample ID | 001 | 002 |
| | | | | Customer ID | P2/21 | P3/21 |
| | | | | Sample Type | WATER | WATER |
| | | | | Sampling Date | 19/05/2021 | 19/05/202 |
| Analysis | Method Code | MDL | Units | Accred | | |
| PCB 52 | PCBECD | 0.01 | µg/l | N | <0.01 | <0.01 |
| 2,4,5-Trichlorophenol | SVOCSW | 0.02 | mg/I | N | < 0.020 | < 0.020 |
| 2,4,6-Trichlorophenol | SVOCSW | 0.02 | mg/l | N | < 0.020 | < 0.020 |
| 2,4-Dichlorophenol | SVOCSW | 0.02 | mg/l | N | < 0.020 | < 0.020 |
| 2.4-Dimethylphenol | SVOCSW | 0.02 | mg/l | N | < 0.020 | < 0.020 |
| 2,4-Dinitrophenol | SVOCSW | 0.01 | mg/l | N | <0.010 | < 0.010 |
| 2-Chlorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | < 0.020 |
| 2-Methylphenol | SVOCSW | 0.005 | mg/l | N | < 0.005 | < 0.005 |
| 2-Nitrophenol | SVOCSW | 0.02 | mg/I | N | < 0.020 | <0.020 |
| 3- & 4-Methylphenol | SVOCSW | 0.02 | mg/l | N | < 0.020 | < 0.020 |
| 4,6-Dinitro-2-methylphenol | SVOCSW | 0.05 | mg/l | N | <0.050 | <0.050 |
| 4-Chloro-3-methylphenol | SVOCSW | 0.005 | mg/l | N | < 0.005 | <0.005 |
| 4-Chlorophenol | SVOCSW | 0.02 | mg/I | N | <0.020 | <0.020 |
| 4-Nitrophenol | SVOCSW | 0.05 | mg/l | N | <0.050 | <0.050 |
| Pentachlorophenol | SVOCSW | 0.05 | mg/l | N | <0.050 | <0.050 |
| Phenol | SVOCSW | 0.02 | mg/I | N | <0.020 | < 0.020 |
| Total (15) Phenols | SVOCSW | 0.35 | mg/l | N | < 0.350 | < 0.350 |

Page 5 of 8

Additional Report Notes

| Method | _ | The following information should be taken into consideration when using the |
|--------|-----------|--|
| Code | Sample ID | data contained within this report |
| PAHMSW | 001-002 | The Primary process control data associated with this Test has not wholly met the requirements of the Laboratory Quality Management System QMS with one or more target analytes falling outside acceptable limits. However the remaining data gives the Laboratory confidence that the test has performed satisfactorily and that the validity of the data may not have been significantly affected. However in line with our QMS policy we have removed accreditation, where applicable, from the affected analytes (Indeno[1,2,3-cd]pyrene). These circumstances should be taken into consideration when utilising the data. |
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LIMS-F002 - Report Notes



Environmental Chemistry SOCOTEC UK Ashby Rd, Bretby, Burton-on-Trent, UK DE15 0YZ

Certificate of Analysis

Project No: 21062054

Client: BCL Consultant Hydrogeologists Limited

Quote Number: BEC210417464

Project Reference: Wrotham

Site Name: Wrotham

Contact: Tom Herbert

Address: Technology Centre Wolverhampton Science Park Wolverhampton West Midlands

Post Code: WV10 9RU

E-Mail: tomh@bclhydro.co.uk

Phone No: 01902 824111

Number of Samples Received: 2

Date Received: 26/06/2021

Analysis Date: 07/07/2021

Date Issued: 07/07/2021

Job Status: Complete

Report Type: Final Version 01

This report supersedes any versions previously issued by the laboratory

Authorised by the Operations Manager Becky Batham

Jones

Account Manager Emily Jones



Project Name: Wrotham Project No: 21062054 Date Issued: 07/07/2021

Samples Analysed

Sample Reference P2 P3 <u>Text ID</u> 21062054-001 21062054-002

Sample Date 23/06/2021 00:00:00 23/06/2021 00:00:00 Sample Type WATER WATER Sample Description Unclassified Liquid

Unclassified Liquid



Project Name: Wrotham

Project No: 21062054 Date Issued: 07/07/2021

Analysis Results

| | | | | Project ID | 2106 | 2054 |
|--------------------------|-----------------------|---------|----------|---------------|------------|-----------|
| | | | | Sample ID | 001 | 002 |
| | | | | Customer ID | P2 | P3 |
| | | | | Sample Type | WATER | WATER |
| | | | 5 | Sampling Date | 23/06/2021 | 23/06/202 |
| Analysis | Method Code | MDL | Units | Accred | | |
| Ammoniacal Nitrogen as N | KONENS | 0,01 | mg/l | N | 0.02 | 0.15 |
| pН | PHCONDW | (f) | pH units | N | 6.6 | 7.2 |
| TDS as mg/L | WSLM27 | 5 | mg/i | N | 4320 | 591 |
| Chloride as Cl | KONENS | - 1 - · | mg/I | N | 123 | 76 |
| Fluoride as F | ISEF | 0.1 | mg/l | N | 0.2 | 0.2 |
| Dissolved Organic Carbon | WSLM13 | 0.2 | mg/I | N | 1.2 | 2.8 |
| Total Organic Carbon | WSLM13 | 0.2 | mg/l | N | 1.1 | 2.6 |
| Antimony as Sb | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | < 0.001 |
| Arsenic as As | ICPMSW (Dissolved) | 0.001 | mg/l | Ň | < 0.001 | < 0.001 |
| Cadmium as Cd | ICPMSW (Dissolved) | 0.00002 | mg/l | N | 0.00010 | 0.00010 |
| Total Chromium as Cr | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | < 0.001 |
| Copper as Cu | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | < 0.001 |
| Lead as Pb | ICPMSW (Dissolved) | 0.001 | mg/l | N | < 0.001 | < 0.001 |
| Mercury as Hg | ICPMSW (Dissolved) | 0.00003 | mg/l | N | < 0.00003 | < 0.00003 |
| Molybdenum as Mo | ICPMSW (Dissolved) | 0.001 | mg/I | N | <0.001 | < 0.001 |
| Nickel as Ni | ICPMSW (Dissolved) | 0.001 | mg/l | N | 0.007 | 0.002 |
| Selenium as Se | ICPMSW (Dissolved) | 0.001 | mg/I | N | <0.001 | < 0.001 |
| Zinc as Zn | ICPMSW (Dissolved) | 0.002 | mg/l | N | 0.004 | 0.008 |
| Barium as Ba | ICPWATVAR (Dissolved) | 0.01 | mg/l | N | 0.05 | 0.03 |
| Total Sulphur as SO4 | ICPWATVAR (Dissolved) | 3 | mg/l | N | 129 | 189 |
| Benzene | BTEXHSA | 5 | µg/I | N | <5 | <5 |
| Ethylbenzene | BTEXHSA | 5 | µg/l | N | <5 | <5 |
| m/p-Xylene | BTEXHSA | 10 | µg/I | N | <10 | <10 |
| o-Xylene | BTEXHSA | 5 | µg/l | N | <5 | <5 |

Page 3 of 8



Project Name: Wrotham

Project No: 21062054 Date Issued: 07/07/2021

Analysis Results

| | | | | Project ID | 2106 | 2054 |
|------------------------|-------------|------|-------|---------------|------------|-----------|
| | | | | Sample ID | 001 | 002 |
| | | | | Customer ID | P2 | P3 |
| | | | | Sample Type | WATER | WATER |
| | | | | Sampling Date | 23/06/2021 | 23/06/202 |
| Analysis | Method Code | MDL | Units | Accred | | |
| Toluene | BTEXHSA | 5 | µg/l | N | <5 | <5 |
| Acenaphthene | PAHMSW | 0.01 | µg/l | N | <0.01 | < 0.01 |
| Acenaphthylene | PAHMSW | 0.01 | µg/I | N | < 0.01 | <0.01 |
| Anthracene | PAHMSW | 0.01 | µg/I | N | <0.01 | < 0.01 |
| Benzo[a]anthracene | PAHMSW | 0.01 | µg/I | N | <0.01 | < 0.01 |
| Benzo[a]pyrene | PAHMSW | 0.01 | µg/l | N | < 0.01 | < 0.01 |
| Benzo[b]fluoranthene | PAHMSW | 0.01 | µg/I | N | < 0.01 | < 0.01 |
| Benzo[g.h.i]perylene | PAHMSW | 0.01 | µg/l | N | <0.01 | < 0.01 |
| Benzo[k]fluoranthene | PAHMSW | 0.01 | µg/I | N | < 0.01 | <0.01 |
| Chrysene | PAHMSW | 0.01 | µg/l | N | < 0.01 | < 0.01 |
| Dibenzo[a,h]anthracene | PAHMSW | 0,01 | µg/I | N | < 0.01 | < 0.01 |
| Fluoranthene | PAHMSW | 0.01 | µg/I | N | <0.01 | < 0.01 |
| Fluorene | PAHMSW | 0.01 | µg/I | N | <0.01 | < 0.01 |
| Indeno[1,2,3-cd]pyrene | PAHMSW | 0.01 | µg/l | N | < 0.01 | < 0.01 |
| Naphthalene | PAHMSW | 0.01 | µg/I | N | < 0.01 | < 0.01 |
| Phenanthrene | PAHMSW | 0.01 | µg/I | N | <0.01 | <0.01 |
| Pyrene | PAHMSW | 0.01 | µg/l | N | < 0.01 | < 0.01 |
| Total PAH 16 | PAHMSW | 0.16 | µg/l | N | <0.16 | <0.16 |
| PCB 101 | PCBECD | 0.01 | µg/I | N | <0.01 | < 0.01 |
| PCB 118 | PCBECD | 0.01 | µg/I | N | <0.01 | <0.01 |
| PCB 138 | PCBECD | 0.01 | µg/I | N | <0.01 | < 0.01 |
| PCB 153 | PCBECD | 0,01 | µg/l | N | <0.01 | < 0.01 |
| PCB 180 | PCBECD | 0.01 | µg/l | N | <0.01 | < 0.01 |
| PCB 28 | PCBECD | 0.01 | µg/l | N | <0.01 | < 0.01 |

Page 4 of 8



Project Name: Wrotham

Project No: 21062054 Date Issued: 07/07/2021

Analysis Results

| | | | | Project ID | 2106 | 2054 |
|----------------------------|-------------|-------|-------|---------------|------------|-----------|
| | | | | Sample ID | 001 | 002 |
| | | | | Customer ID | P2 | P3 |
| | | | | Sample Type | WATER | WATER |
| | | | | Sampling Date | 23/06/2021 | 23/06/202 |
| Analysis | Method Code | MDL | Units | Accred | | |
| PCB 52 | PCBECD | 0.01 | µg/l | N | <0.01 | <0.01 |
| 2,4,5-Trichlorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | < 0.020 |
| 2,4,6-Trichlorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | < 0.020 |
| 2,4-Dichlorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | < 0.020 |
| 2,4-Dimethylphenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 |
| 2,4-Dinitrophenol | SVOCSW | 0.01 | mg/l | N | <0.010 | < 0.010 |
| 2-Chlorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | < 0.020 |
| 2-Methylphenol | SVOCSW | 0.005 | mg/l | N | <0.005 | < 0.005 |
| 2-Nitrophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | < 0.020 |
| 3- & 4-Methylphenol | SVOCSW | 0.02 | mg/l | N | <0.020 | < 0.020 |
| 4,6-Dinitro-2-methylphenol | SVOCSW | 0.05 | mg/l | N | <0.050 | < 0.050 |
| 4-Chloro-3-methylphenol | SVOCSW | 0.005 | mg/l | N | < 0.005 | < 0.005 |
| 4-Chlorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | < 0.020 |
| 4-Nitrophenol | SVOCSW | 0.05 | mg/l | N | <0.050 | < 0.050 |
| Pentachlorophenol | SVOCSW | 0.05 | mg/l | N | <0.050 | < 0.050 |
| Phenol | SVOCSW | 0.02 | mg/l | N | <0.020 | < 0.020 |
| Total (15) Phenols | SVOCSW | 0.35 | mg/l | N | <0.350 | <0.350 |

Page 5 of 8

Additional Report Notes

| Method Code | Sample ID | The following information should be taken into consideration when using the data contained within this report |
|----------------|-----------|---|
| BTEXHSA | 001-002 | The Secondary process control data associated with this Test has not wholly met the requirements of the Laboratory Quality Management System QMS with one or more target analytes falling outside acceptable limits. However the remaining data gives the Laboratory confidence that the test has performed satisfactorily (including the Primary Process Control) and that the validity of the data may not have been significantly affected. However in line with our QMS policy we have removed accreditation , where applicable, from the affected analytes (M&P - Xylene [GRO C8-C10]) . These circumstances should be taken into consideration when utilising the data. |
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LIMS-F002 - Report Notes



Project Name: Wrotham Project No: 21062054 Date Issued: 07/07/2021

HWOL Analysis

| Customer ID | Analysis | HWOL CodeANALYSIS | Result |
|-------------|--------------|-------------------|--------|
| P2 | Benzene | HS_1D_AR | <5 |
| P2 | Ethylbenzene | HS_1D_AR | <5 |
| P2 | m/p-Xylene | HS_1D_AR | <10 |
| P2 | o-Xylene | HS_1D_AR | <5 |
| P2 | Toluene | HS_1D_AR | <5 |
| P3 | Benzene | HS_1D_AR | <5 |
| P3 | Ethylbenzene | HS_1D_AR | <5 |
| P3 | m/p-Xylene | HS_1D_AR | <10 |
| P3 | o-Xylene | HS_1D_AR | <5 |
| P3 | Toluene | HS_1D_AR | <5 |

| Deviating Sample Rep | bort | | 11 1 | | | eservative | π., | |
|----------------------|---------|---------------|---------------------|-----------------|-----------|----------------------|------------------|--------------|
| Sample Reference | Text ID | Reported Name | Incorrect Container | Incorrect Label | Headspace | Incorrect/No Preserv | No Sampling Date | Holding Time |

Analysis Method

| Analysis | Analysis Type | Analysis Method |
|-----------------------|---------------|-----------------|
| BTEXHSA | ORGANIC | Unfiltered |
| ICPMSW (Dissolved) | METALS | Unfiltered |
| ICPWATVAR (Dissolved) | METALS | Filtered |
| ISEF | INORGANIC | Unfiltered |
| KONENS | INORGANIC | Filtered |
| PAHMSW | ORGANIC | Unfiltered |
| PCBECD | ORGANIC | Unfiltered |
| PHCONDW | INORGANIC | Unfiltered |
| SVOCSW | ORGANIC | Unfiltered |
| WSLM09 | INORGANIC | Filtered |
| WSLM13 | INORGANIC | Unfiltered |
| WSLM27 | INORGANIC | Filtered |



Project Name: Wrotham Project No: 21062054 Date Issued: 07/07/2021

Additional Information

This report refers to samples as received, and SOCOTEC Uk Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

In the accreditation column of analysis report the codes are as follows:

- U = UKAS accredited analysis
- M = MCERT accredited analysis
- N = Unaccredited analysis

Any units marked with ^ signify results are reported on a dry weight basis of 105 ° c

All Air Dried and Ground Samples (ADG) are oven dried at less than 35° c.

This report shall not be reproduced except in full and with approval from the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any samples marked with * are not covered by our scope of UKAS accreditation. If applicable, further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with ‡ have had MCERTS accreditation removed for this result

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

- IS = Insufficient Sample to complete analysis
- NA = Sample is not amenable for the required analysis
- ND = Results cannot be determined

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the Subcontracted lab for information regarding any deviancies for this analysis.

HWOL Acronym Key

| Acronym | Description |
|---------|---|
| HS | Headspace Analysis |
| EH | Extractable Hydrocarbons - i.e everything extracted by the solvent(s) |
| CU | Clean up - e.g. by florisil, silica gel |
| 1D | GC - Single coil gas chromatography |
| Total | Aliphatics & Aromatics |
| AL | Aliphatics only |
| AR | Aromatics only |
| + | Operator to indicate cumulative e.g. EH_CU+HS_1D_Total |

End of Certificate of Analysis



Environmental Chemistry SOCOTEC UK Ashby Rd, Bretby, Burton-on-Trent, UK DE15 0YZ

Certificate of Analysis

Project No: 21080067

Client: BCL Consultant Hydrogeologists Limited

Quote Number: BEC210417464

Project Reference: Wrotham

Site Name: Wrotham

Contact: Tom Herbert

Address: Technology Centre Wolverhampton Science Park Wolverhampton West Midlands

Post Code: WV10 9RU

E-Mail: tomh@bclhydro.co.uk

Phone No: 01902 824111

Number of Samples Received: 2

Date Received: 02/08/2021

Analysis Date: 12/08/2021

Date Issued: 12/08/2021

Job Status: Complete

Report Type: Final Version 01

This report supersedes any versions previously issued by the laboratory

Jonce

Authorised by the Operations Manager Becky Batham

Account Manager Emily Jones



Samples Analysed

Sample Reference PZ2/21 PZ3/21 <u>Text ID</u> 21080067-001 21080067-002

Sample Date 27/07/2021 00:00:00 27/07/2021 00:00:00

Client: BCL Consultant Hydrogeologists Limited

Project No: 21080067

Date Issued: 12/08/2021

Sample Type WATER WATER Sample Description Unclassified Liquid Unclassified Liquid



Analysis Results

| | | | | Sample ID | 001 | 002 |
|--------------------------|----------------------|---------|----------|------------|------------|------------|
| | | | Cu | stomer ID | PZ2/21 | PZ3/21 |
| | | | Sa | mple Type | WATER | WATER |
| | | | Sam | pling Date | 27/07/2021 | 27/07/2021 |
| Analysis | Method Code | MDL | Units | Accred. | | |
| Ammoniacal Nitrogen as N | KONENS | 0.01 | mg/l | N | <0.01 | <0.01 |
| pH | PHCONDW | 1 | pH units | N | 7.6 | 7.4 |
| TDS as mg/L | WSLM27 | 5 | mg/l | N | 708 | 590 |
| Chloride as Cl | KONENS | . t. | mg/l | N | 119 | 71 |
| Fluoride as F | ISEF | 0.1 | mg/l | N | 0.2 | 0.2 |
| Dissolved Organic Carbon | WSLM13 | 0.2 | mg/l | N | 1.2 | 2.7 |
| Total Organic Carbon | WSLM13 | 0.2 | mg/l | N | 1.2 | 2.5 |
| Antimony as Sb | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Arsenic as As | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Cadmium as Cd | ICPMSW (Dissolved) | 0.00002 | mg/l | N | 0.00004 | 0.00002 |
| Total Chromium as Cr | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Copper as Cu | ICPMSW (Dissolved) | 0.001 | mg/l | N | < 0.001 | <0.001 |
| Lead as Pb | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Mercury as Hg | ICPMSW (Dissolved) | 0.00003 | mg/l | N | <0.00003 | <0.00003 |
| Molybdenum as Mo | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Nickel as Ni | ICPMSW (Dissolved) | 0.001 | mg/l | N | 0.009 | 0.002 |
| Selenium as Se | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Zinc as Zn | ICPMSW (Dissolved) | 0.002 | mg/l | N | 0.007 | 0.003 |
| Barium as Ba | ICPWATVAR (Dissolved | 0.01 | mg/l | N | 0.05 | 0.03 |
| Total Sulphur as SO4 | ICPWATVAR (Dissolved | 3 | mg/l | N | 131 | 184 |
| Benzene HS_1D_AR | BTEXHSA | 5 | h8\I | N | <5 | <5 |
| Ethylbenzene HS_1D_AR | BTEXHSA | 5 | µg/l | N | <5 | <5 |
| m/p-Xylene HS_1D_AR | BTEXHSA | 10 | µg/l | N | <10 | <10 |
| o-Xylene HS_1D_AR | BTEXHSA | 5 | µg/l | N | <5 | <5 |
| Toluene HS_1D_AR | BTEXHSA | 5 | µg/l | N | <5 | <5 |
| Acenaphthene | PAHMSW | 0.01 | µg/l | N | <0.01 | <0.01 |
| Acenaphthylene | PAHMSW | 0.01 | h8\l | N | <0.01 | <0.01 |

Page 3 of 8



Analysis Results

| | | | | Sample ID | 001 | 002 | |
|------------------------|-------------|-------|-------|------------|------------|------------|--|
| | | | Cu | ustomer ID | PZ2/21 | PZ3/21 | |
| | | | Sa | mple Type | WATER | WATER | |
| | | | Sam | pling Date | 27/07/2021 | 27/07/2021 | |
| Analysis | Method Code | MDL | Units | Accred. | | 1. 1 | |
| Anthracene | PAHMSW | 0.01 | hð\I | N | <0.01 | <0.01 | |
| Benzo(a)anthracene | PAHMSW | 0.01 | hð\I | N | <0.01 | <0.01 | |
| Benzo[a]pyrene | PAHMSW | 0.01 | µg/I | N | <0.01 | < 0.01 | |
| Benzo[b]fluoranthene | PAHMSW | 0.01 | hð\l | N | <0.01 | <0.01 | |
| Benzo(g.h.i]perylene | PAHMSW | 0.01 | µg/l | N | <0.01 | <0.01 | |
| Benzo[k]fluoranthene | PAHMSW | 0.01 | µg/l | N | <0.01 | <0.01 | |
| Chrysene | PAHMSW | 0.01 | µg/I | N | <0.01 | <0.01 | |
| Dibenzo[a,h]anthracene | PAHMSW | 0.01 | hð\l | N | <0.01 | <0.01 | |
| Fluoranthene | PAHMSW | 0.01 | hâ\l | N | <0.01 | <0.01 | |
| Fluorene | PAHMSW | 0.01 | hâ\l | N | <0.01 | <0.01 | |
| Indeno[1,2,3-cd]pyrene | PAHMSW | 0.01 | hð\l | N | <0.01 | <0.01 | |
| Naphthalene | PAHMSW | 0.01 | hâ/l | N | <0.01 | <0.01 | |
| Phenanthrene | PAHMSW | 0.01 | µg/I | N | <0.01 | <0.01 | |
| Pyrene | PAHMSW | 0.01 | hð\l | N | <0.01 | <0.01 | |
| Total PAH 16 | PAHMSW | 0.16 | hðyl | N | <0.16 | <0.16 | |
| PCB 101 | PCBECD | 0.01 | hð\l | N | <0.01 | <0.01 | |
| PCB 118 | PCBECD | 0.01 | hð\l | N | <0.01 | <0.01 | |
| PCB 138 | PCBECD | .0.01 | hð\l | N | <0.01 | <0.01 | |
| PCB 153 | PCBECD | 0.01 | µg/I | N | <0.01 | <0.01 | |
| PCB 180 | PCBECD | 0.01 | µg/l | N | <0.01 | <0.01 | |
| PCB 28 | PCBECD | 0.01 | hð\l | N | <0.01 | <0.01 | |
| PCB 52 | PCBECD | 0.01 | µg/I | N | <0.01 | <0.01 | |
| 2,4,5-Trichlorophenol | svocsw | 0.02 | mg/l | N | <0.020 | <0.020 | |
| 2,4,6-Trichlorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 | |
| 2,4-Dichlorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | < 0.020 | |
| 2,4-Dimethylphenol | svocsw | 0.02 | mg/l | N | <0.020 | <0.020 | |
| 2,4-Dinitrophenol | SVOCSW | 0.01 | mg/l | N | <0.010 | <0.010 | |

Page 4 of 8



Analysis Results

| | | | | Sample ID | 001 | 002 |
|----------------------------|-------------|-------|-------|------------|--|-----------------------|
| | | | Cu | stomer ID | PZ2/21 | PZ3/21 |
| | | | Sa | mple Type | WATER | WATER |
| | | | Sam | pling Date | 27/07/2021 | 27/07/2021 |
| Analysis | Method Code | MDL | Units | Accred. | 1. | |
| 2-Chlorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 |
| 2-Methylphenol | SVOCSW | 0.005 | mg/l | N | <0.005 | <0.005 |
| 2-Nitrophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 |
| 3- & 4-Methylphenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 |
| 4,6-Dinitro-2-methylphenol | SVOCSW | 0.05 | mg/l | N | <0.050 | <0.050 |
| 4-Chloro-3-methylphenol | SVOCSW | 0.005 | mg/l | N | <0.005 | <0.005 |
| 4-Chlorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 |
| 4-Nitrophenol | SVOCSW | 0.05 | mg/l | N | <0.050 | < <mark>0</mark> .050 |
| Pentachlorophenol | SVOCSW | 0.05 | mg/l | N | <0.050 | <0.050 |
| Phenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 |
| Total (15) Phenols | SVOCSW | 0.35 | mg/l | N | < 0.350 | < 0.350 |

Page 5 of 8

Additional Report Notes

| Method Code | Sample ID | The following information should be taken into consideration when using the data contained within this report |
|----------------|-----------|---|
| BTEXHSA | 001-002 | The Secondary process control data associated with this Test has not wholly met the requirements of the Laboratory Quality Management System QMS with one or more target analytes falling outside acceptable limits. However the remaining data gives the Laboratory confidence that the test has performed satisfactorily (including the Primary Process Control) and that the validity of the data may not have been significantly affected. However in line with our QMS policy we have removed accreditation , where applicable, from the affected analytes (Benzene) . These circumstances should be taken into consideration when utilising the data. |
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| | | |

LIMS-F002 - Report Notes



| Deviating Sample Re | port Text ID | Reported Name | Incorrect Container | Incorrect Label | Headspace | Incorrect/No Preservative | No Sampling Date | Holding Time |
|---------------------|-----------------|---------------|---------------------|-----------------|-----------|---------------------------|------------------|--------------|
| PZ2/21 | 21080067-001 | WSLM13 | <u> </u> | Ч | Ŧ | Ē | z | ⊥ √ |
| PZ2/21 | 21080067-001 | WSLM13 | | 1. | | | | 1 |
| PZ2/21 | 21080067-001 | PHCONDW | | | | | | 1 |
| PZ3/21 | 21080067-002 | PHCONDW | | | | | | 1 |

Analysis Method

| V SIS |
|-------|
| |
| |

| BTEXHSA |
|-----------------------|
| ICPMSW (Dissolved) |
| ICPWATVAR (Dissolved) |
| ISEF |
| KONENS |
| PAHMSW |
| PCBECD |
| PHCONDW |
| SVOCSW |
| WSLM09 |
| WSLM13 |
| WSLM27 |
| |

Analysis Type ORGANIC METALS METALS INORGANIC INORGANIC ORGANIC ORGANIC INORGANIC INORGANIC INORGANIC INORGANIC INORGANIC

Analysis Method

Unfiltered Filtered Unfiltered Filtered Unfiltered Unfiltered Unfiltered Unfiltered Filtered Unfiltered Filtered

HWOL Acronym Key

| Acronym | Description |
|---------|---|
| HS | Headspace Analysis |
| EH | Extractable Hydrocarbons - i.e everything extracted by the solvent(s) |
| CU | Clean up - e.g. by florisil, silica gel |
| 1D | GC - Single coil gas chromatography |
| Total | Aliphatics & Aromatics |
| AL | Aliphatics only |
| AR | Aromatics only |
| + | Operator to indicate cumulative e.g. EH_CU+HS_1D_Total |



Additional Information

This report refers to samples as received, and SOCOTEC UK Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

In the accreditation column of analysis report the codes are as follows:

U = UKAS accredited analysis

M = MCERT accredited analysis

N = Unaccredited analysis

Any units marked with ^ signify results are reported on a dry weight basis of 105°C.

All Air Dried and Ground Samples (ADG) are oven dried at less than 35° c.

This report shall not be reproduced except in full and with approval from the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any samples marked with * are not covered by our scope of UKAS accreditation. If applicable, further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with ‡ have had MCERTS accreditation removed for this result

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

- IS = Insufficient Sample to complete analysis
- NA = Sample is not amenable for the required analysis
- ND = Results cannot be determined

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the Subcontracted lab for information regarding any deviancies for this analysis.

End of Certificate of Analysis



Environmental Chemistry

Certificate of Analysis

Client: BCL Consultant Hydrogeologists Limited

Project: 21082058

Quote: BEC210417464

Project Ref: WROTHAM

Site: WROTHAM

Contact: Tom Herbert

Address: Technology Centre Wolverhampton Science Park Wolverhampton West Midlands WV10 9RU

E-Mail: tomh@bclhydro.co.uk

Phone: 01902 824111

No. Samples Received: 2

Date Received: 31/08/2021 Analysis Date: 10/09/2021 Date Issued: 10/09/2021 Job Status: Complete Report Type: Final Version 01

This report supercedes any versions previously issued by the laboratory

Jonas

Account Manager Emily Jones

Authorised by the Operations Manager Becky Batham

SOCOTEC UK, Ashby Road, Bretby, Burton-on-Trent, UK, DE15 0YZ



Client: BCL Consultant Hydrogeologists Limited Project Name: WROTHAM Project No: 21082058 Date Issued: 10/09/2021

Samples Analysed

| Sample Reference | Text ID | Sample Date | Sample Type | Sample Description |
|------------------|--------------|---------------------|-------------|---------------------|
| PZ3/21 | 21082058-001 | 24/08/2021 00:00:00 | WATER | Unclassified Liquid |
| PZ2/21 | 21082058-002 | 24/08/2021 00:00:00 | WATER | Unclassified Liquid |



Client: BCL Consultant Hydrogeologists Limited Project Name: WROTHAM Project No: 21082058 Date Issued: 10/09/2021

Analysis Results

| | | | L. | Sample ID | 001 | 002 |
|--------------------------|---------------------|---------|---|-----------|-------------------------------|-------------------------------|
| | | | Customer ID Sample Type Sampling Date | | PZ3/21 WATER 24/08/2021 | PZ2/21 WATER 24/08/2021 |
| | | | | | | |
| | | | | | | |
| Analysis | Method Code | MDL | Units | Accred. | | |
| Ammoniacal Nitrogen as N | KONENS | 0.01 | mg/l | N | 6.90 | 0.01 |
| рН | PHCONDW | 1 | pH units | N | 7.3 | 6.8 |
| TDS as mg/L | WSLM27 | 5 | mg/l | N | 563 | 735 |
| Chloride as Cl | KONENS | -1 | mg/l | N | 436 | 123 |
| Fluoride as F | ISEF | 0.1 | mg/l | N | 0.1 | <0.1 |
| Dissolved Organic Carbon | WSLM13 | 0.2 | mg/l | N | 2.4 | 1.3 |
| Total Organic Carbon | WSLM13 | 0.2 | mg/l | N | 2.4 | 0.97 |
| Antimony as Sb | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Arsenic as As | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Cadmium as Cd | ICPMSW (Dissolved) | 0.00002 | mg/l | N | <0.00002 | 0.00004 |
| Total Chromium as Cr | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Copper as Cu | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Lead as Pb | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Mercury as Hg | ICPMSW (Dissolved) | 0.00003 | mg/l | N | <0.00003 | <0.00003 |
| Molybdenum as Mo | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Nickel as Ni | ICPMSW (Dissolved) | 0.001 | тgЛ | N | 0.006 | 0.029 |
| Selenium as Se | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Zine as Zn | ICPMSW (Dissolved) | 0.002 | mg/l | N | 0.003 | 0.007 |
| Barium as Ba | CPWATVAR (Dissolved | 0.01 | mg/l | N | 0.03 | 0.06 |



| | | | | Sample ID | 001 | 002 |
|--------------------------|---------------------------|------|-------------|------------|------------|------------|
| | | | Customer ID | | PZ3/21 | PZ2/21 |
| | | | Sa | mple Type | WATER | WATER |
| | | | | pling Date | 24/08/2021 | 24/08/2021 |
| Analysis | Method Code | MDL | Units | Accred. | | |
| Total Sulphur as SO4 | ICPWATVAR (Dissolved) | 3 | mg/l | N | 201 | 137 |
| Benzene HS_1D_AR | BTEXHSA | 5 | hð\l | N | <5 | <5 |
| Ethylbenzene HS_1D_AR | BTEXHSA | 5 | hð\l | Ň | <5 | <5 |
| m/p-Xylene HS_1D_AR | BTEXHSA | 10 | hð\I | N | <10 | <10 |
| o-Xylene HS_1D_AR | BTEXHSA | 5 | hð\I | N | <5 | <5 |
| Toluene HS_1D_AR | BTEXHSA. | 5 | hð\J | N | <5 | <5 |
| Acenaphthene | PAHMSW | 0.01 | µ9∕I | N | <0.01 | <0.01 |
| Acenaphthylene | PAHMSW | 0.01 | hðyl | N | <0.01 | <0.01 |
| Anthracene | PAHMSW | 0.01 | hð\j | N | <0.01 | <0.01 |
| Benzo[a]anthracene | PAHMSW | 0.01 | hð\l | N | <0.01 | <0.01 |
| Benzo[a]pyrene | PAHMSW | 0.01 | hð\j | N | <0.01 | <0.01 |
| Benzo[b]fluoranthene | PAHMSW | 0.01 | hð\l | N | <0.01 | <0.01 |
| Benzo[g,h,i]perylene | PAHMSW | 0.01 | hð\] | N | <0.01 | <0.01 |
| Berizo[k]fluoranthene | PAHMSW | 0.01 | hð\I | N | <0.01 | <0.01 |
| Chrysene | PAHMSW | 0.01 | hðy | N | <0.01 | <0.01 |
| Dibenzo[a,h]anthracene | PAHMSW | 0.01 | hð\J | N | <0.01 | <0.01 |
| Fluoranthene | PAHMSW | 0.01 | hð\j | N | <0.01 | <0.01 |
| Fluorene | PAHMSW | 0.01 | hð\J | N | <0.01 | <0.01 |
| Indeno[1,2,3-cd]pyrene | PAHMSW | 0.01 | h8\/ | N | <0.01 | <0.01 |



| | | | | Sample ID | 001 | 002 |
|-----------------------|-------------|-------|-------|------------|------------|------------|
| | | | Cu | istomer ID | PZ3/21 | PZ2/21 |
| | | | Sa | mple Type | WATER | WATER |
| | | | Sam | pling Date | 24/08/2021 | 24/08/2021 |
| Analysis | Method Code | MDL | Units | Accred. | | |
| Naphthalene | PAHMSW | 0.01 | hð\j | N | <0.01 | <0.01 |
| Phenanthrene | PAHMSW | 0.01 | hð\j | N | <0.01 | <0.01 |
| Pyrene | PAHMSW | 0.01 | µg/l | N | <0.01 | <0.01 |
| Total PAH 16 | PAHMSW | .0.16 | hð\l | N | <0.16 | <0.16 |
| PCB 101 | PCBECD | 0.01 | µg/I | N | <0.01 | <0.01 |
| PCB 118 | PCBECD | 0.01 | hð\J | N | <0.01 | <0.01 |
| PCB 138 | PCBECD | 0.01 | hð\j | N | <0.01 | <0.01 |
| PCB 153 | PCBECD | 0.01 | hð\l | N | <0.01 | <0.01 |
| PCB 180 | PCBECD | 0.01 | hð\l | N | <0.01 | <0.01 |
| PCB 28 | PCBECD | 0.01 | hð\I | N | <0.01 | <0.01 |
| PCB 52 | PCBECD | 0.01 | µg/l | N | <0.01 | <0.01 |
| 2,4,5-Trichlorophenol | svocsw | 0.02 | mg/l | N | <0.020 | <0.020 |
| 2,4,6-Trichlorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 |
| 2,4-Dichlorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 |
| 2.4-Dimethylphenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 |
| 2,4-Dinitrophenol | SVOCSW | 0.01 | mg/l | N | <0.010 | <0.010 |
| 2-Chlorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 |
| 2-Methylphenol | SVOCSW | 0.005 | mg/l | N | <0.005 | <0.005 |
| 2-Nitrophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 |



| | | | | Sample ID | 001 | 002 | |
|----------------------------|-------------|-------|-------|------------|-----------------------|------------|--|
| | Customer ID | | | | PZ3/21 | PZ2/21 | |
| | | | Sa | mple Type | WATER | WATER | |
| | | | Sam | pling Date | 24/08/2021 | 24/08/2021 | |
| Analysis | Method Code | MDL | Units | Accred. | and the second second | 1 | |
| 3- & 4-Methylphenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 | |
| 4,8-Dinitro-2-methylphenol | SVOCSW | 0.05 | mg/l | N | <0.050 | <0.050 | |
| 4-Chloro-3-methylphenol | SVOCSW | 0.005 | mg/l | N | <0.005 | <0.005 | |
| 4-Chlorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 | |
| 4-Nitrophenol | SVOCSW | 0.05 | mg/l | N | <0.050 | <0.050 | |
| Pentachlorophenol | svocsw | 0.05 | mg/l | N | <0.050 | <0.050 | |
| Phenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 | |
| Total (15) Phenols | SVOCSW | 0.35 | mg/l | N | <0.350 | <0.350 | |



| Deviating Sample Re | port | | | Incorrect Container | t Label | ace | Incorrect/No Preservative | No Sampling Date | Time |
|---------------------|--------------|----------------|----------------------|---------------------|-----------------|-----------|---------------------------|------------------|--------------|
| Sample Reference | Text ID | Reported Name | Č. – | Incorrec | Incorrect Label | Headspace | Incorrec | No Sam | Holding Time |
| PZ3/21 | 21082058-001 | KONENS Ammo | niacal Nitrogen as N | | | | | | ~ |
| PZ3/21 | 21082058-001 | KONENS Chlorid | e as Cl | | | | | | 1 |
| PZ2/21 | 21082058-002 | KONENS Ammo | niacal Nitrogen as N | | | 1 | | | 1 |
| PZ2/21 | 21082058-002 | KONENS Chlorid | e as Cl | | | | 24 | | 1 |
| PZ2/21 | 21082058-002 | WSLM13 | | | | | | | 1 |
| PZ2/21 | 21082058-002 | WSLM13 | | | | 1.25 | $\equiv 1$ | | 1 |

Analysis Method

| Analysis | Analysis Type | Analysis Method | |
|-----------------------|---------------|-----------------|--|
| BTEXHSA | ORGANIC | Unfiltered | |
| ICPMSW (Dissolved) | METALS | Unfiltered | |
| ICPWATVAR (Dissolved) | METALS | Filtered | |
| ISEF | INORGANIC | Unfiltered | |
| KONENS | INORGANIC | Filtered | |
| PAHMSW | ORGANIC | Unfiltered | |
| PCBECD | ORGANIC | Unfiltered | |
| PHCONDW | INORGANIC | Unfiltered | |
| SVOCSW | ORGANIC | Unfiltered | |
| WSLM09 | INORGANIC | Filtered | |
| WSLM13 | INORGANIC | Unfiltered | |
| WSLM27 | INORGANIC | Filtered | |

HWOL Acronym Key

| Description |
|---|
| Headspace Analysis |
| Extractable Hydrocarbons - i.e everything extracted by the solvent(s) |
| Clean up - e.g. by florisil, silica gel |
| GC - Single coil gas chromatography |
| Aliphatics & Aromatics |
| Aliphatics only |
| Aromatics only |
| Operator to indicate cumulative e.g. EH_CU+HS_1D_Total |
| |



Additional Information

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Results within this report relate only to the samples tested.

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U = UKAS accredited analysis

M = MCERT accredited analysis

N = Unaccredited analysis

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- IS = Insufficient Sample to complete analysis
- NA = Sample is not amenable for the required analysis
- ND = Results cannot be determined

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the Subcontracted lab for information regarding any deviancies for this analysis.

End of Certificate of Analysis



Environmental Chemistry

Certificate of Analysis

Client: BCL Consultant Hydrogeologists Limited

Project: 21100169

Quote: BEC210417464

Project Ref: Wrotham

Site: Wrotham

Contact: Tom Herbert

Address: Technology Centre Wolverhampton Science Park Wolverhampton West Midlands WV10 9RU

E-Mail: tomh@bclhydro.co.uk

Phone: 01902 824111

No. Samples Received: 2

Date Received: 04/10/2021 Analysis Date: 13/10/2021 Date Issued: 13/10/2021 Job Status: Complete Report Type: Final Version 01

This report supercedes any versions previously issued by the laboratory

Authorised by the Operations Manager Becky Batham

Account Manager Emily Jones

01283 554649

Jones

SOCOTEC UK, Ashby Road, Bretby, Burton-on-Trent, UK, DE15 0YZ



Samples Analysed

Sample Reference PZ3/21 PZ2/21 Text ID 21100169-001 21100169-002 Sample Date 24/09/2021 00:00:00 24/09/2021 00:00:00 Sample Type WATER WATER Sample Description Unclassified Liquid

Unclassified Liquid



| | | | Sa | ample ID | 001 | 002 |
|--------------------------|-----------------------|---------|----------|----------|------------|------------|
| | | | Cust | omer ID | PZ3/21 | PZ2/21 |
| | | | Sam | ple Type | WATER | WATER |
| | | | | Ing Date | 24/09/2021 | 24/09/2021 |
| Analysis | Method Code | MDL | Units | Accred. | | |
| Ammoniacal Nitrogen as N | KONENS | 0.01 | mg/l | N | 0.04 | 2.30 |
| pH | PHCONDW | t | pH units | N | 7.1 | 6.8 |
| TDS as mg/L | WSLM27 | 5 | mg/I | N | 510 | 707 |
| Chloride as Ci | KONENS | 1 | mgrī | N | 65 | 160 |
| Fluoride as F | ISEF | 0.1 | mg/l | N | 0.1 | <0.1 |
| Dissolved Organic Carbon | WSLM13 | 0.2 | mg/i | N | 2.7 | 1.4 |
| Total Organic Carbon | WSLM13 | 0.2 | mg/l | N | 2.6 | 1.3 |
| Antimony as Sb | ICPMSW (Dissolved) | 0.001 | mgil | N | <0.001 | <0.001 |
| Arsenic as As | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | 0.001 |
| Cadmium as Cd | ICPMSW (Dissolved) | 0.00002 | mgil | N | <0.00002 | 0.00005 |
| Total Chromium as Cr | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Copper as Cu | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Lead as Pb | ICPMSW (Dissolved) | 0.001 | mgil | N | <0.001 | <0.001 |
| Mercury as Hg | ICPMSW (Dissolved) | 0.00003 | mg/l | N | <0.00003 | <0.00003 |
| Molybdenum as Mo | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Nickél as Ni | ICPMSW (Dissolved) | 0.001 | mg/l | N | 0.002 | 0.074 |
| Selenium as Se | ICPMSW (Dissolved) | 0.001 | mgil | N | <0.001 | <0.001 |
| Zinc as Zn | ICPMSW (Dissolved) | 0.002 | mg/l | N | 0,006 | 0.036 |
| Battum as Ba | ICPWATVAR (Dissolved) | 0.01 | mg/l | N | 0.03 | 0.11 |

Page 3 of 9



| | | | S | ample ID | 001 | 002 |
|--------------------------|-----------------------|------|-------|----------|------------|-----------|
| | | | Cus | tomer ID | PZ3/21 | PZ2/21 |
| | | | Sam | ple Type | WATER | WATER |
| | | | Sampl | ing Date | 24/09/2021 | 24/09/202 |
| Analysis | Method Code | MDL | Units | Accred. | | |
| Total Sulphur as SO4 | ICPWATVAR (Dissolved) | 3 | mg/l | N | 174 | 127 |
| Benzene 46_1D_AR | BTEXHSA | 5 | hði | N | <5 | <5 |
| Ethylbenzene H8_1D_AR | BTEXHSA | 5 | hðu | N | <5 | <5 |
| m/p-Xylene HS_1D_AR | BTEXHSA | 10 | hðy | N | <10 | <10 |
| o-Xylene HS_1D_AR | BTEXHSA | 5 | hðy | N | <5 | <5 |
| Toluene HS_1D_AR | BTEXHSA | 5 | hði | N | <5 | <5 |
| Acenaphthene | PAHMSW | 0.01 | hðy | N | <0.01 | <0.01 |
| Acenaphthylene | PAHMSW | 0.01 | hðy | N | <0.01 | <0.01 |
| Anthräcene | PAHMSW | 0.01 | hð\J | N | <0.01 | <0.01 |
| Benzo[a]anthracene | PAHMSW | 0.01 | hðų | N | <0.01 | <0.01 |
| Benzo[a]pyrene | PAHMSW | 0.01 | hð\I | N | <0.01 | <0.01 |
| Benzo[b]fluoranthene | PAHMSW | 0.01 | hðų | N | <0.01 | <0.01 |
| Benzo[g,h,l]peryiene | PAHMSW | 0.01 | hð\I | N | <0.01 | <0,01 |
| Benzo[k]fluoranthene | PAHMSW | 0.01 | hðų | N | <0.01 | <0,01 |
| Chrysene | PAHMSW | 0.01 | hð\I | N | <0.01 | <0.01 |
| Dibenzo[a,h]anthracene | PAHMSW | 0.01 | hðų | N | <0,01 | <0,01 |
| Fluoranthene | PAHMSW | 0.01 | hð\ | N | <0,01 | <0.01 |
| Fluorene | PAHMSW | 0.01 | hðų | N | <0,01 | <0.01 |
| indeno[1,2,3-cd]pyrene | PAHMSW | 0.01 | рул | N | <0.01 | <0.01 |

Page 4 of 9



| | | | 54 | imple ID | 001 | 002 | |
|-----------------------|-------------|-------|-------|----------|------------|-----------|--|
| | | | Cust | tomer ID | PZ3/21 | PZ2/21 | |
| | | | Sam | ple Type | WATER | WATER | |
| | | | Sampl | ing Date | 24/09/2021 | 24/09/202 | |
| Analysis | Method Code | MDL | Units | Accred. | | | |
| laphthalene | PAHMSW | 0.01 | hð\i | N | ⊲0.01 | <0.01 | |
| Phenanthrene | PAHMSW | 0.01 | hðu | N | ⊲0.01 | <0.01 | |
| Pyrene | PAHMSW | 0.01 | hðl | N | ⊲0.01 | <0.01 | |
| Total PAH 16 | PAHMSW | 0.16 | hðu | N | <0.16 | <0.16 | |
| PCB 101 | PCBECD | 0.01 | hðy | N | <0.01 | <0.01 | |
| PCB 118 | PCBECD | 0.01 | hðų | N | ⊲0.01 | <0.01 | |
| PCB 138 | PCBECD | 0.01 | hðų | N | <0.01 | <0.01 | |
| PCB 153 | PCBECD | 0.01 | hðu | N | <0.01 | <0.01 | |
| PCB 180 | PCBECD | 0.01 | hði | N | <0.01 | <0.01 | |
| PCB 28 | PCBECD | 0.01 | hði | N | <0.01 | <0.01 | |
| PCB 52 | PCBECD | 0.01 | hði | N | <0.01 | <0.01 | |
| 2,4,5-Trichiorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 | |
| 2,4,6-Trichlorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 | |
| 2,4-Dichiorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 | |
| 2,4-Dimethylphenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 | |
| 2,4-Dinitrophenol | svocsw | 0.01 | mg/l | N | <0.010 | <0.010 | |
| 2-Chlorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 | |
| 2-Methylphenol | svocsw | 0.005 | mg/l | N | <0.005 | <0.005 | |
| 2-Nitrophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 | |

Page 5 of 9



| | | | | Sample ID | 001 | 002 |
|----------------------------|-------------|-------|-------|------------|--|------------|
| | | | Cu | stomer ID | PZ3/21 | PZ2/21 |
| | | | Sar | nple Type | WATER | WATER |
| | | | Samp | oling Date | 24/09/2021 | 24/09/2021 |
| Analysis | Method Code | MDL | Units | Accred. | and the second s | |
| 3- & 4-Methylphenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 |
| 4,6-Dinitro-2-methylphenol | svocsw | 0.05 | mg/l | N | <0.050 | <0.050 |
| 4-Chloro-3-methylphenol | svocsw | 0.005 | mg/l | N | <0.005 | <0.005 |
| 4-Chlorophenol | svocsw | 0.02 | mg/l | N | <0.020 | <0.020 |
| 4-Nitrophenol | svocsw | 0.05 | mg/l | N | <0.050 | <0.050 |
| Pentachlorophenol | svocsw | 0.05 | mg/l | N | <0.050 | <0.050 |
| Phenol | svocsw | 0.02 | mg/l | N | <0.020 | <0.020 |
| Total (15) Phenois | SVOCSW | 0,35 | mg/l | N | <0.350 | <0.350 |



| Deviating Sample Re | port | | | | | ative | | |
|---------------------|--------------|---------------|---------------------|-----------------|-----------|---------------------------|------------------|--------------|
| Sample Reference | Text ID | Reported Name | Incorrect Container | Incorrect Label | Headspace | Incorrect/No Preservative | No Sampling Date | Holding Time |
| PZ3/21 | 21100169-001 | PAHMSW | | | | | | 1 |
| PZ2/21 | 21100169-002 | WSLM13 | | | | | | 1 |
| PZ2/21 | 21100169-002 | WSLM13 | | | _ | 1 | | 1 |
| PZ2/21 | 21100169-002 | PAHMSW | | | 1 | | | 1 |

Analysis Method

| Analysis | An |
|-----------------------|-----|
| BTEXHSA | OF |
| ICPMSW (Dissolved) | ME |
| ICPWATVAR (Dissolved) | ME |
| ISEF | INC |
| KONENS | INC |
| PAHMSW | OF |
| PCBECD | OF |
| PHCONDW | INC |
| SVOCSW | OF |
| WSLM09 | INC |
| WSLM13 | INC |
| WSLM27 | INC |

Analysis Type

ORGANIC METALS METALS INORGANIC INORGANIC ORGANIC ORGANIC ORGANIC INORGANIC INORGANIC INORGANIC

Analysis Method

Unfiltered Filtered Unfiltered Filtered Unfiltered Unfiltered Unfiltered Unfiltered Filtered Filtered Unfiltered Filtered



Result Report Notes

Letters alongside results signify that the result has associated report notes. The report notes are a follows:

| Letter | Note |
|--------|--|
| A | Due to the matrix of the sample the laboratory has had to deviate from our standard protocols to be able to process the sample and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data. |
| В | The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised. |
| С | Due to matrix interference the internal standard and/or surrogate has not met the QMS requirements. This should be taken into consideration when utilising the data. |
| D | A non-standard volume or mass has been used for this test which has resulted in a raised detection limit. |
| E | Due to recoveries beyond our calibration range and following the maximum size of dilution allowed, the result cannot be quantified and as such the result will appear as a greater than symbol (>) with the accreditation removed. This data should be used for indicative purposes only. |
| F | Based on the sample history, appearance and smell a dilution was applied prior to testing. Unfortunately, the result is either above (>) or below (<) our calibration range. Results above our calibration range have accreditation removed. The data should be used for indicative purposes only. |
| G | The day 5 oxygen reading was below the capability of the instrument to detect, and therefore the calculated BOD has been reported unaccredited for guidance purposes only. |

HWOL Acronym Key

| Acronym | Description |
|---------|---|
| HS | Headspace Analysis |
| EH | Extractable Hydrocarbons - i.e everything extracted by the solvent(s) |
| CU | Clean up - e.g. by florisil, silica gel |
| 1D | GC - Single coil gas chromatography |
| Total | Aliphatics & Aromatics |
| AL | Aliphatics only |
| AR | Aromatics only |
| + | Operator to indicate cumulative e.g. EH_CU+HS_1D_Total |



Additional Information

This report refers to samples as received, and SOCOTEC UK Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

In the accreditation column of analysis report the codes are as follows:

- U = UKAS accredited analysis
- M = MCERT accredited analysis
- N = Unaccredited analysis

Any units marked with ^ signify results are reported on a dry weight basis of 105 ° c.

All Air Dried and Ground Samples (ADG) are oven dried at less than 35° c.

This report shall not be reproduced except in full and with approval from the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any samples marked with * are not covered by our scope of UKAS accreditation. If applicable, further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with \$\$ have had MCERTS accreditation removed for this result

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

- IS = Insufficient Sample to complete analysis
- NA = Sample is not amenable for the required analysis
- ND = Results cannot be determined

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the Subcontracted lab for information regarding any deviancies for this analysis.

End of Certificate of Analysis



Environmental Chemistry

Certificate of Analysis

Client: BCL Consultant Hydrogeologists Limited

Project: 21101967

Quote: BEC210417464

Project Ref: BCL Hydro

Site: Wrotham

Contact: Tom Herbert

Address: Technology Centre Wolverhampton Science Park Wolverhampton West Midlands WV10 9RU

E-Mail: tomh@bclhydro.co.uk

Phone: 01902 824111

No. Samples Received: 2

Date Received: 27/10/2021 Analysis Date: 05/11/2021 Date Issued: 05/11/2021 Job Status: Complete Report Type: Final Version 01

This report supercedes any versions previously issued by the laboratory

Jones

Authorised by the Operations Manager Becky Batham

Account Manager Emily Jones 01283 554649

SOCOTEC UK, Ashby Road, Bretby, Burton-on-Trent, UK, DE15 0YZ



Samples Analysed

| Sample Reference | |
|------------------|--|
| PZ2/21 | |
| PZ3/21 | |

Text ID 21101967-001 21101967-002 Sample Date 20/10/2021 00:00:00 20/10/2021 00:00:00 Sample Type WATER WATER Sample Description Unclassified Liquid

Unclassified Liquid



Analysis Results

Client: BCL Consultant Hydrogeologists Limited Project Name: Wrotham Project No: 21101967 Date Issued: 05/11/2021

| | | | \$ | ample ID | 001 | 002 |
|--------------------------|-----------------------|---------|----------|----------|------------|------------|
| | | | Cus | tomer ID | PZ2/21 | PZ3/21 |
| | | | Sam | ple Type | WATER | WATER |
| | | | | Ing Date | 20/10/2021 | 20/10/2021 |
| Analysis | Method Code | MDL | Units | Accred. | 100000000 | |
| Ammoniacal Nitrogen as N | KONENS | 0.01 | mg/l | N | <0.01 | <0.01 |
| рн | PHCONDW | t. | pH units | N | 6.4 | 7.3 |
| TDS as mg/L | WSLM27 | 5 | mg/l | N | 811 | 530 |
| Chloride as Ci | KONENS | T. | mg/l | N | 149 | 59 |
| Fluonde as F | ISEF | 0.1 | mg/l | N | <0.1 | 0.1 |
| Dissolved Organic Carbon | WSLM13 | 0.2 | mg/l | N | 0.84 | 2.1 |
| Total Organic Carbon | WSLM13 | 0.2 | mg/l | N | 0.95 | 2.1 |
| Antimony as Sb | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Arsenic as As | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Cadmium as Cd | ICPMSW (Dissolved) | 0.00002 | mg/l | N | 0.00006 | 0.00007 |
| Total Chromium as Cr | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Copper as Cu | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Lead as Pb | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Mercury as Hg | ICPMSW (Dissolved) | 0.00003 | mg/l | N | <0.00003 | <0.00003 |
| Molybdenum as Mo | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Nickel as Ni | ICPMSW (Dissolved) | 0.001 | mg/l | N | 0.097 | 0.099 |
| Selenium as Se | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Zinc as Zn | ICPMSW (Dissolved) | 0.002 | mg/l | N | 0.074 | 0.099 |
| Barium as Ba | ICPWATVAR (Dissolved) | 0.01 | mg/l | N | 0.06 | 0.06 |

Page 3 of 9



Analysis Results

| | | | 4 | Sample ID | 001 | 002 |
|--------------------------|-----------------------|------|-----------|------------|------------|------------|
| | | Cu | stomer ID | PZ2/21 | PZ3/21 | |
| | | | Sar | nple Type | WATER | WATER |
| | | | Sam | oling Date | 20/10/2021 | 20/10/2021 |
| Analysis | Method Code | MDL | Units | Accred. | | |
| Total Sulphur as SO4 | ICPWATVAR (Dissolved) | 3 | mg/l | N | 125 | 132 |
| Benzene HS_1D_AR | BTEXHSA | 5 | hðų | N | <5 | <5 |
| Ethylbenzene HS_1D_AR | BTEXHSA | 5 | hðų | N | <5 | <5 |
| m/p-Xylene HS_1D_AR | BTEXHSA | 10 | hðų | N | <10 | <10 |
| o-Xylene HS_1D_AR | BTEXHSA | 5 | hðų | N | <5 | <5 |
| Toluene HS_1D_AR | BTEXHSA | 5 | hðų | N | <5 | <5 |
| Acenaphthene | PAHMSW | 0.01 | hðų | N | <0.01 в | <0.01 в |
| Acenaphthylene | PAHMSW | 0.01 | hðu | N | <0,01 | <0.01 |
| Anthracene | PAHMSW | 0.01 | pg/ | N | <0.01 в | <0.01 s |
| Benzo(a]anthracene | PAHMSW | 0.01 | hðu | N | <0.01 | <0.01 |
| Benzo[a]pyrene | PAHMSW | 0.01 | hðu | N | <0.01 | ⊲0.01 |
| Benzo[b]fluoranthene | PAHMSW | 0.01 | hðu | N | <0.01 | <0.01 |
| Benzo[g,h,l]perylene | PAHMSW | 0.01 | рдл | N | <0.01 | <0.01 |
| Benzo[k]fluoranthene | PAHMSW | 0.01 | hðu | N | <0.01 | <0.01 |
| Chrysene | PAHMSW | 0.01 | hðu | N | <0.01 | <0.01 |
| Dibenzo[a,h]anthracene | PAHMSW | 0.01 | hðu | N | <0.01 | <0.01 |
| Fluoranthene | PAHMSW | 0.01 | hðu | N | <0.01 | <0.01 |
| Fluorene | PAHMSW | 0.01 | hðu | N | <0.01 | <0.01 |
| indeno[1,2,3-cd]pyrene | PAHMSW | 0.01 | µg/I | N | <0.01 | <0.01 |

Page 4 of 9



Analysis Results

| | | | S | ample ID | 001 | 002 |
|-----------------------|-------------|-------|-------|-----------|------------|------------|
| | | | Cus | tomer ID | PZ2/21 | PZ3/21 |
| | | | San | ple Type | WATER | WATER |
| | | | | ling Date | 20/10/2021 | 20/10/2021 |
| Analysis | Method Code | MDL | Units | Accred | | |
| Naphthalene | PAHMSW | 0.01 | hđu | N | <0.01 | <0.01 |
| Phenanthrene | PAHMSW | 0.01 | µg/l | N | <0.01 | <0.01 |
| Pyrene | PAHMSW | 0.01 | μдл | N | <0.01 | <0.01 |
| Total PAH 16 | PAHMSW | 0.16 | µg/l | N | <0.16 | <0.16 |
| PCB 101 | PCBECD | 0.01 | μдл | N | <0.01 | <0.01 |
| PCB 118 | PCBECD | 0.01 | µg/l | N | <0.01 | <0.01 |
| PCB 138 | PCBECD | 0.01 | μдл | N | <0.01 | <0.01 |
| PCB 153 | PCBECD | 0.01 | µg/l | N | <0.01 | <0.01 |
| PCB 160 | PCBECD | 0.01 | hðu | N | <0.01 | <0.01 |
| PCB 28 | PCBECD | 0.01 | рул | N | <0.01 | <0.01 |
| PCB 52 | PCBECD | 0.01 | hðu | N | <0.01 | <0.01 |
| 2,4,5-Trichlorophenol | svocsw | 0.02 | mg/l | N | <0.020 | <0.020 |
| 2,4,5-Trichlorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 |
| 2,4-Dichiorophenol | svocsw | 0.02 | mg/l | N | <0.020 | <0.020 |
| 2,4-Dimethylphenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 |
| 2,4-Dinitrophenol | svocsw | 0.01 | mg/l | N | <0.010 | <0.010 |
| 2-Chiorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 |
| 2-Methyiphenol | svocsw | 0.005 | mg/l | N | <0.005 | <0.005 |
| 2-Nitrophenol | svocsw | 0.02 | mg/l | N | <0.020 | <0.020 |

Page 5 of 9



| | | | 1 | Sample ID | 001 | 002 | |
|----------------------------|-------------|-------|-------|------------|------------|------------|--|
| | | | Cu | stomer ID | PZ2/21 | PZ3/21 | |
| | | | Sar | mple Type | WATER | WATER | |
| | | | Samp | pling Date | 20/10/2021 | 20/10/2021 | |
| Analysis | Method Code | MDL | Unita | Accred. | | | |
| 3- & 4-Methylphenol | svocsw | 0.02 | mg/l | N | <0.020 | <0.020 | |
| 4,6-Dinitro-2-methylphenol | svocsw | 0.05 | mgi | N | <0.050 | <0.050 | |
| 4-Chioro-3-methylphenol | svocsw | 0.005 | mg/l | N | <0.005 | <0.005 | |
| 4-Chiorophenoi | svocsw | 0.02 | mg/l | N | <0.020 | <0.020 | |
| 4-Nitrophenol | svocsw | 0.05 | mg/l | N | <0.050 | <0.050 | |
| Pentachlorophenol | svocsw | 0.05 | mg/l | N | <0.050 | <0.050 | |
| Phenol | svocsw | 0.02 | mg/l | N | <0.020 | <0.020 | |
| Total (15) Phenols | svocsw | 0.35 | mg/l | N | <0.350 | <0.350 | |



| Deviating Sample Re | port | | | | | tive | | 1.1 |
|---------------------|--------------|---------------|---------------------|-----------------|-----------|---------------------------|------------------|--------------|
| Sample Reference | Text ID | Reported Name | Incorrect Container | Incorrect Label | Headspace | Incorrect/No Preservative | No Sampling Date | Holding Time |
| PZ2/21 | 21101967-001 | WSLM13 | | | | | | 1 |
| PZ2/21 | 21101967-001 | WSLM13 | | | 10.000 | | | 1 |
| PZ3/21 | 21101967-002 | BTEXHSA | 1 | 15.1 | ~ | | | |
| PZ3/21 | 21101967-002 | WSLM13 | | | | 1 | 1.10. | 1 |
| PZ3/21 | 21101967-002 | WSLM13 | | =-1 | 1 | | | 1 |

Analysis Method

Analysis

BTEXHSA ICPMSW (Dissolved) ICPWATVAR (Dissolved) ISEF KONENS PAHMSW PCBECD PHCONDW SVOCSW WSLM13 WSLM27 Analysis Type ORGANIC METALS METALS INORGANIC INORGANIC ORGANIC ORGANIC INORGANIC INORGANIC INORGANIC INORGANIC

Analysis Method

Unfiltered Filtered Unfiltered Filtered Unfiltered Unfiltered Unfiltered Unfiltered Unfiltered Filtered Filtered



Result Report Notes

Letters alongside results signify that the result has associated report notes. The report notes are a follows:

| Letter | Note |
|--------|--|
| A | Due to the matrix of the sample the laboratory has had to deviate from our standard protocols to be able to process the sample and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data. |
| В | The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised. |
| С | Due to matrix interference the internal standard and/or surrogate has not met the QMS requirements. This should be taken into consideration when utilising the data. |
| D | A non-standard volume or mass has been used for this test which has resulted in a raised detection limit. |
| E | Due to recoveries beyond our calibration range and following the maximum size of dilution allowed, the result cannot be quantified and as such the result will appear as a greater than symbol (>) with the accreditation removed. This data should be used for indicative purposes only. |
| F | Based on the sample history, appearance and smell a dilution was applied prior to testing. Unfortunately, the result is either above (>) or below (<) our calibration range. Results above our calibration range have accreditation removed. The data should be used for indicative purposes only. |
| G | The day 5 oxygen reading was below the capability of the instrument to detect, and therefore the calculated BOD has been reported unaccredited for guidance purposes only. |

HWOL Acronym Key

| Acronym | Description |
|---------|---|
| HS | Headspace Analysis |
| EH | Extractable Hydrocarbons - i.e everything extracted by the solvent(s) |
| CU | Clean up - e.g. by florisil, silica gel |
| 1D | GC - Single coil gas chromatography |
| Total | Aliphatics & Aromatics |
| AL | Aliphatics only |
| AR | Aromatics only |
| + | Operator to indicate cumulative e.g. EH_CU+HS_1D_Total |



Certificate of Analysis

Client: BCL Consultant Hydrogeologists Limited

Project: 21111773

Quote: BEC210417464

Project Ref: Wrotham

Site: Wrotham

Contact: Tom Herbert

Address: Technology Centre Wolverhampton Science Park Wolverhampton West Midlands WV10 9RU

E-Mail: tomh@bclhydro.co.uk

Phone: 01902 824111

No. Samples Received: 2

Date Received: 24/11/2021 Analysis Date: 07/12/2021 Date Issued: 07/12/2021 Job Status: Complete Report Type: Final Version 01

This report supercedes any versions previously issued by the laboratory

A.M. Karber

Account Manager Angela Kirby

Authorised by the Operations Manager Becky Batham

SOCOTEC UK, Ashby Road, Bretby, Burton-on-Trent, UK, DE15 0YZ



Samples Analysed

| Sample Reference | Text ID | Sample Date | Sample Type | Sample Description |
|------------------|--------------|---------------------|-------------|---------------------|
| P22/21 | 21111773-001 | 17/11/2021 14:15:00 | WATER | Unclassified Liquid |
| P23/21 | 21111773-002 | 17/11/2021 14:40:00 | WATER | Unclassified Liquid |



| | | | S | ample ID | 001 | 002 |
|--------------------------|-----------------------|-------------|----------|-----------|------------|------------|
| | | | Cus | tomer ID | P22/21 | P23/21 |
| | | Sample Type | | | WATER | WATER |
| | | | | ling Date | 17/11/2021 | 17/11/2021 |
| Analysis | Method Code | MDL | Units | Accred. | | |
| Ammoniacal Nitrogen as N | KONENS | 0.01 | mg/l | N | <0.01 | <0.01 |
| рН | PHCONDW | -1- | pH units | N | 6.4 | 7.3 |
| TDS as mg/L | WSLM27 | 5 | mg/l | N | 882 | 550 |
| Chloride as Cl | KONENS | t | mg/l | N | 154 | 58 |
| Fluoride as F | ISEF | 0.1 | mg/l | N | <0.1 | 0.1 |
| Dissolved Organic Carbon | WSLM13 | 0.2 | mg/l | N | 2.3 | 2.7 |
| Total Organic Carbon | WSLM13 | 0.2 | mg/l | N | 0.91 | 2.9 |
| Antimony as Sb | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Arsenic as As | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Cadmium as Cd | ICPMSW (Dissolved) | 0.00002 | mg/l | N | <0.00002 | <0.00002 |
| Total Chromium as Cr | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Copper as Cu | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Lead as Pb | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Mercury as Hg | ICPMSW (Dissolved) | 0.00003 | mg/l | N | <0.00003 | <0.00003 |
| Molybdenum as Mo | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Nickel as Ni | ICPMSW (Dissolved) | 0.001 | mg/l | N | 0.090 | 0.002 |
| Selenium as Se | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Zino as Zn | ICPMSW (Dissolved) | 0.002 | mg/l | N | 0.041 | 0.009 |
| Barium as Ba | ICPWATVAR (Dissolved) | 0.01 | mg/l | N | 0.06 | 0.03 |

Page 3 of 9



| | | | 19 | Sample ID | 001 | 002 | |
|--------------------------|-----------------------|------|-------|------------|------------|------------|--|
| | | | Cu | stomer ID | P22/21 | P23/21 | |
| | | | Sar | mple Type | WATER | WATER | |
| | | | Sam | pling Date | 17/11/2021 | 17/11/2021 | |
| Analysis | Method Code | MDL | Units | Accred. | | | |
| Total Sulphur as SO4 | ICPWATVAR (Dissolved) | 3 | mg/l | N | 131 | 161 | |
| Benzene HS_1D_AR | BTEXHSA | 5 | hð\[| N | <5 | <5 | |
| Ethylbenzene HS_1D_AR | BTEXHSA | 5 | hð\ | Ň | <5 | <5 | |
| m/p-Xylene HS_1D_AR | BTEXHSA | 10 | µg/l | N | <10 | <10 | |
| o-Xylene HS_1D_AR | BTEXHSA | 5 | hð\j | N | <5 | <5 | |
| Toluene HS_1D_AR | BTEXHSA | 5 | hð\[| N | <5 | <5 | |
| Acenaphthene | PAHMSW | 0.01 | hð\[| N | <0.01 | <0.01 | |
| Acenaphthylene | PAHMSW | 0.01 | hð\l | N | <0.01 | <0.01 | |
| Anthracene | PAHMSW | 0.01 | hð\ | N | <0.01 в | <0.01 в | |
| Benzo[a]anthracene | PAHMSW | 0.01 | µg/l | N | <0.01 | <0.01 | |
| Benzo[a]pyrene | PAHMSW | 0.01 | hð\[| N | <0.01 | <0.01 | |
| Benzo[b]fluoranthene | PAHMSW | 0.01 | hðų | N | <0.01 | <0.01 | |
| Benzo[g,h,i]perylene | PAHMSW | 0.01 | hðų | N | <0.01 | <0.01 | |
| Benzo[k]fluoranthene | PAHMSW | 0.01 | hði | N | <0.01 | <0.01 | |
| Chrysene | PAHMSW | 0.01 | µg/l | N | <0.01 | <0.01 | |
| Dibenzo[a,h]anthracene | PAHMSW | 0.01 | hðų | N | <0.01 | <0.01 | |
| Fluorantherie | PAHMSW | 0.01 | hâų | N | <0.01 | <0.01 | |
| Fluorene | PAHMSW | 0.01 | µg/i | N | <0.01 | <0.01 | |
| Indeno[1,2,3-od]pyrene | PAHMSW | 0.01 | hây | N | <0.01 | <0.01 | |

Page 4 of 9



| | | | | Sample ID | 001 | 002 | |
|-----------------------|-------------|-------|-------------|------------|------------|------------|--|
| | | | Cu | stomer ID | P22/21 | P23/21 | |
| | | | Sample Type | | WATER | WATER | |
| | | | | pling Date | 17/11/2021 | 17/11/2021 | |
| Analysis | Method Code | MDL | Units | Accred. | | | |
| Naphthalene | PAHMSW | 0.01 | hð\[| N | <0.01 | <0.01 | |
| Phenanthrene | PAHMSW | 0.01 | hðų | N | <0.01 | <0.01 | |
| Pyrene | PAHMSW | 0.01 | hðy | N | <0.01 | <0.01 | |
| Total PAH 16 | PAHMSW | 0.16 | μg/l | N | <0.16 | <0.16 | |
| PCB 101 | PCBECD | 0.01 | µg/l | N | <0.01 | <0.01 | |
| PCB 118 | PCBECD | 0.01 | hð\[| N | <0.01 | <0.01 | |
| PCB 138 | PCBECD | 0.01 | hð\l | N | <0.01 | <0.01 | |
| PCB 153 | PCBECD | 0.01 | hð\l | N | <0.01 | <0.01 | |
| PCB 180 | PCBECD | 0.01 | hðų | N | <0.01 | <0.01 | |
| PCB 28 | PCBECD | 0.01 | µg/l | N | <0.01 | <0.01 | |
| PCB 52 | PCBECD | 0.01 | hðų | N | <0.01 | <0.01 | |
| 2.4.5-Trichlorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 | |
| 2,4,6-Trichlorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 | |
| 2.4-Dichlorophenol | SVOCSW | 0.02 | тgЛ | N | <0.020 | <0.020 | |
| 2.4-Dimethylphenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 | |
| 2,4-Dinitrophenol | SVOCSW | 0.01 | mg/l | N | <0.010 | <0.010 | |
| 2-Chloraphenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 | |
| 2-Methylphenol | SVOCSW | 0.005 | mg/l | N | <0.005 | <0.005 | |
| 2-Nitrophenol | SVOCSW | 0.02 | mg/ī | N | <0.020 | <0.020 | |

Page 5 of 9



| | | | Sa | imple ID | 001 | 002 | |
|----------------------------|-------------|-------|---------------|----------|------------|------------|--|
| | | | Customer ID | | P22/21 | P23/21 | |
| | | | Samp | ple Type | WATER | WATER | |
| | | | Sampli | ing Date | 17/11/2021 | 17/11/2021 | |
| Analysis | Method Code | MDL | Units Accred. | | | 1 | |
| 3- & 4-Methylphenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 | |
| 4.6-Dinitro-2-methylphenol | SVOCSW | 0.05 | mg/l | N | <0.050 | <0.050 | |
| 4-Chloro-3-methylphenol | svocsw | 0.005 | mg/l | N | <0.005 | <0.005 | |
| 4-Chlorophenol | svocsw | 0.02 | mg/l | N | <0.020 | <0.020 | |
| 4-Nitrophenol | svocsw | 0.05 | mg/i | N | <0.050 | <0.050 | |
| Pentachlorophenol | svocsw | 0.05 | mg/l | N | <0.050 | <0.050 | |
| Phenol | svocsw | 0.02 | mg/l | N | <0.020 | <0.020 | |
| Total (15) Phenols | SVOCSW | 0.35 | mg/l | N | <0.350 | < 0.350 | |

Page 6 of 9



| Deviating Sample Re | port | | tainer | a | | Preservative | Date | |
|---------------------|--------------|---------------|---------------------|-----------------|-----------|---------------------------|------------------|--------------|
| Sample Reference | Text ID | Reported Name | Incorrect Container | Incorrect Label | Headspace | Incorrect/No Preservative | No Sampling Date | Holding Time |
| P22/21 | 21111773-001 | KONENS | | | | | | 1 |
| P22/21 | 21111773-001 | KONENS | | | 1.24 | 5 | | 1 |
| P23/21 | 21111773-002 | KONENS | | | | | | 1 |
| P23/21 | 21111773-002 | KONENS | | | 1.1 | | | 1 |

Analysis Method

Analysis BTEXHSA ICPMSW (Dissolved) ICPWATVAR (Dissolved) ISEF KONENS PAHMSW PCBECD PHCONDW SVOCSW WSLM13 WSLM27 Analysis Type

ORGANIC METALS METALS INORGANIC INORGANIC ORGANIC ORGANIC INORGANIC INORGANIC INORGANIC

Analysis Method

Unfiltered Filtered Unfiltered Filtered Unfiltered Unfiltered Unfiltered Unfiltered Unfiltered Filtered



Result Report Notes

Letters alongside results signify that the result has associated report notes. The report notes are a follows:

| Letter | Note |
|--------|--|
| A | Due to the matrix of the sample the laboratory has had to deviate from our standard protocols to be able to process the sample and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data. |
| В | The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised. |
| С | Due to matrix interference the internal standard and/or surrogate has not met the QMS requirements. This should be taken into consideration when utilising the data. |
| D | A non-standard volume or mass has been used for this test which has resulted in a raised detection limit. |
| E | Due to recoveries beyond our calibration range and following the maximum size of dilution allowed, the result cannot be quantified and as such the result will appear as a greater than symbol (>) with the accreditation removed. This data should be used for indicative purposes only. |
| F | Based on the sample history, appearance and smell a dilution was applied prior to testing. Unfortunately, the result is either above (>) or below (<) our calibration range. Results above our calibration range have accreditation removed. The data should be used for indicative purposes only. |
| G | The day 5 oxygen reading was below the capability of the instrument to detect, and therefore the calculated BOD has been reported unaccredited for guidance purposes only. |

HWOL Acronym Key

| Acronym | Description |
|---------|---|
| HS | Headspace Analysis |
| EH | Extractable Hydrocarbons - i.e everything extracted by the solvent(s) |
| CU | Clean up - e.g. by florisil, silica gel |
| 1D | GC - Single coil gas chromatography |
| Total | Aliphatics & Aromatics |
| AL | Aliphatics only |
| AR | Aromatics only |
| + | Operator to indicate cumulative e.g. EH_CU+HS_1D_Total |



Additional Information

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Results within this report relate only to the samples tested.

In the accreditation column of analysis report the codes are as follows:

- U = UKAS accredited analysis
- M = MCERT accredited analysis
- N = Unaccredited analysis

Any units marked with ^ signify results are reported on a dry weight basis of 105 ° c.

All Air Dried and Ground Samples (ADG) are oven dried at less than 35° c.

This report shall not be reproduced except in full and with approval from the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any samples marked with * are not covered by our scope of UKAS accreditation. If applicable, further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with ‡ have had MCERTS accreditation removed for this result

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

- IS = Insufficient Sample to complete analysis
- NA = Sample is not amenable for the required analysis
- ND = Results cannot be determined

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the Subcontracted lab for information regarding any deviancies for this analysis.

End of Certificate of Analysis



Certificate of Analysis

Client: BCL Consultant Hydrogeologists Limited

Project: 22020193

Quote: BEC220124100 V1.1

Project Ref: Wrotham

Site: Wrotham

Contact: Matt Clewes

Address: Technology Centre Wolverhampton Science Park Wolverhampton West Midlands WV10 9RU

E-Mail: matt@bclhydro.co.uk

Phone: 00000000000

No. Samples Received: 2

Date Received: 02/02/2022

Analysis Date: 14/02/2022

Date Issued: 14/02/2022

Report Type: Final Version 01

This report supercedes any versions previously issued by the laboratory

A.M. Karba

Account Manager Angela Kirby

Authorised by the Operations Manager Becky Batham

SOCOTEC UK, Ashby Road, Bretby, Burton-on-Trent, UK, DE15 0YZ



Samples Analysed

| Sample Reference | Text ID | Sample Date | Sample Type | Sample Description |
|------------------|--------------|---------------------|-------------|---------------------|
| PZ2/20 | 22020193-001 | 25/01/2022 00:00:00 | WATER | Unclassified Liquid |
| PZ3/20 | 22020193-002 | 25/01/2022 00:00:00 | WATER | Unclassified Liquid |



| | | | Sa | CI elqm | 001 | 002 |
|--------------------------|-----------------------|-------------|----------|---------|------------|------------|
| | | | Cust | omer ID | PZ2/20 | PZ3/20 |
| | | Sample Type | | | WATER | WATER |
| | Sampling Da | | | ng Date | 25/01/2022 | 25/01/2022 |
| Analysis | Method Code | MDL | Unita | Accred. | | |
| Ammonlacal Nitrogen as N | KONENS | 0.01 | mg/l | N | <0.01 | <0.01 |
| рН | PHCONDW | 1 | pH units | N | 6.4 | 7.3 |
| TDS as mg/L | WSLM27 | 5 | mg/l | N | 760 | 442 |
| Chloride as Cl | KONENS | 1 | mg/l | N | 164 | 48 |
| Fluoride as F | ISEF | 0.1 | mg/l | N | ≪0.1 | 0.1 |
| Dissolved Organic Carbon | WSLM13 | 0.2 | mg/l | N | 0.98 | 3.1 |
| Total Organic Carbon | WSLM13 | 0.2 | mg/l | N | 1.1 | 3.1 |
| Antimony as Sb | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Arsenic as As | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Cadmium as Cd | ICPMSW (Dissolved) | 0.00002 | mg/l | N | 0.00004 | 0.00003 |
| Total Chromium as Cr | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | 0.001 |
| Copper as Cu | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Lead as Pb | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | 0.001 |
| Mercury as Hg | ICPMSW (Dissolved) | 0.00003 | mgit | N | <0.00003 | <0.00003 |
| Molybdenum as Mo | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Nickel as Ni | ICPMSW (Dissolved) | 0.001 | mg/l | N | 0.087 | 0.003 |
| Selenium as Se | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Zinc as Zn | ICPMSW (Dissolved) | 0.002 | mg/l | N | 0.066 | 0.074 |
| Barlum as Ba | ICPWATVAR (Dissolved) | 0.01 | mg/l | N | 0.06 | 0.03 |

Page 3 of 9



| | | | s | ample ID | 001 | 002 |
|--------------------------|-----------------------|------|-------|-----------|---------------|------------|
| | | | Cus | tomer ID | PZ2/20 | PZ3/20 |
| | | | Sam | ple Type | WATER | WATER |
| | | | Sampl | ling Date | 25/01/2022 | 25/01/2022 |
| Analysis | Method Code | MDL | Units | Accred. | Service Proc. | |
| Total Sulphur as SO4 | ICPWATVAR (Dissolved) | 3 | mg/l | N | 131 | 140 |
| Benzene HS_ID_AR | BTEXHSA | 5 | hðu | N | <5 | <5 |
| Ethylbenzene HS_1D_AR | BTEXHSA | 5 | идл | N | <5 | <5 |
| m/p-Xylene HS_1D_AR | BTEXHSA | 10 | hðu | N | <10 | <10 |
| o-Xylene HS_1D_AR | BTEXHSA | 5 | µ9/I | N | <5 | <5 |
| Toluene HS_1D_AR | BTEXHSA | 5 | hðu | N | <5 | <5 |
| Acenaphthene | PAHMSW | 0.01 | hðu | N | <0.01 | <0.01 |
| Acenaphthylene | PAHMSW | 0.01 | ug1 | N | <0.01 | <0.01 |
| Anthracene | PAHMSW | 0.01 | ндл | N | <0.01 e | <0.01 в |
| Benzo[a]anthracene | PAHMSW | 0.01 | µg/l | N | <0.01 | <0.01 |
| Benzo[a]pyrene | PAHMSW | 0.01 | hðy | N | <0.01 | <0.01 |
| Benzo[b]fluoranthene | PAHMSW | 0.01 | µg/I | N | <0.01 | <0.01 |
| Benzo[g,h,l]perylene | PAHMSW | 0.01 | ндл | N | <0.01 | <0.01 |
| Benzo[k]fluoranthene | PAHMSW | 0.01 | µg/l | N | <0.01 | <0.01 |
| Chrysene | PAHMSW | 0.01 | идл | N | <0.01 | <0.01 |
| Dibenzo[a,h]anthracene | PAHMSW | 0.01 | µg/I | N | <0.01 | <0.01 |
| Fluoranthene | PAHMSW | 0.01 | идл | N | <0.01 | 0.01 |
| Fluorene | PAHMSW | 0.01 | µg/ | N | <0.01 | <0.01 |
| Indeno[1,2,3-cd]pyrene | PAHMSW | 0.01 | рдл | N | <0.01 | <0.01 |



| | | | 5 | Sample ID | 001 | 002 |
|-----------------------|-------------|-------------|-------|------------|---------------------|------------|
| | | | Cu | stomer ID | PZ2/20 | PZ3/20 |
| | | Sample Type | | | | WATER |
| | | | | oling Date | WATER 25/01/2022 | 25/01/2022 |
| Analysis | Method Code | MDL | Units | Accred | | |
| Naphthaiene | PAHMSW | 0.01 | ндл | N | <0.01 | <0.01 |
| Phenanthrene | PAHMSW | 0.01 | μg/l | N) | <0.01 | <0.01 |
| Pyrene | PAHMSW | 0.01 | ндл | N | <0.01 | <0.01 |
| Total PAH 16 | PAHMSW | 0.16 | hði | N) | <0.16 | 0,16 |
| PCB 101 | PCBECD | 0.01 | μдл | N | <0.01 | <0.01 |
| PCB 118 | PCBECD | 0.01 | µд1 | N | <0.01 | <0.01 |
| PCB 138 | PCBECD | 0.01 | ндл | N | <0.01 | <0.01 |
| PCB 153 | PCBECD | 0.01 | 'µg/l | - N- | <0.01 | <0.01 |
| PC6 160 | PCBECD | 0.01 | hðu | N | <0.01 | <0.01 |
| PCB 28 | PCBECD | 0.01 | hðu | N | <0.01 | <0.01 |
| PCB 52 | PCBECD | 0.01 | hðu | N | <0.01 | <0.01 |
| 2,4,5-Trichlorophenol | svocsw | 0.02 | mg/l | N | <0.040 o | <0.020 |
| 2,4,6-Trichlorophenol | SVOCSW | 0.02 | mg/l | N | <0.040 p | <0.020 |
| 2,4-Dichiorophenol | svocsw | 0.02 | mg/l | N | <0.040 p | <0.020 |
| 2,4-Dimethylphenol | SVOCSW | 0.02 | mg/l | N | <0.040 p | <0.020 |
| 2,4-Dinitrophenoi | svocsw | 0.01 | mg/l | N | <0.020 p | <0.010 |
| 2-Chlorophenol | svocsw | 0.02 | mg/l | N | <0.040 ¤ | <0.020 |
| 2-Methylphenol | svocsw | 0.005 | mg/l | N | <0.010 ¤ | <0.005 |
| 2-Nitrophenol | SVOCSW | 0.02 | mg/l | N | <0.040 p | <0.020 |



| | | | - | sample ID | 001 | 002 |
|----------------------------|-------------|-------|-------|------------|------------|------------|
| | | | Cu | stomer ID | PZ2/20 | PZ3/20 |
| | | | Sar | nple Type | WATER | WATER |
| | | | Samp | oling Date | 25/01/2022 | 25/01/2022 |
| Analysis | Method Code | MDL | Units | Accred. | | 1 |
| 3- & 4-Methylphenol | SVOCSW | 0.02 | mg/l | N | <0.040 p | <0.020 |
| 4,6-Dinitro-2-methylphenol | svocsw | 0.05 | mg/i | N | <0.100 p | <0.050 |
| 4-Chioro-3-methylphenol | svocsw | 0.005 | mg/l | N | <0.010 p | <0.005 |
| 4-Chiorophenol | svocsw | 0.02 | mg/ī | N | <0.040 p | <0.020 |
| 4-Nitrophenol | svocsw | 0.05 | mg/l | N | <0.100 o | <0.050 |
| Pentachlorophenol | svocsw | 0.05 | mg/i | N | <0.100 p | <0.050 |
| Phenol | svocsw | 0.02 | mg/l | N | <0.040 o | <0.020 |
| Total (15) Phenois | svocsw | 0.35 | mg/l | N | <0.700 | <0.350 |



| Deviating Sample Re | port | | | | | /ative | | |
|---------------------|--------------|---------------|---------------------|-----------------|-----------|---------------------------|------------------|--------------|
| Sample Reference | Text ID | Reported Name | Incorrect Container | Incorrect Label | Headspace | Incorrect/No Preservative | No Sampling Date | Holding Time |
| PZ2/20 | 22020193-001 | PHCONDW | | | | | | 1 |
| PZ2/20 | 22020193-001 | WSLM13 | | | _ | | 1 | 1 |
| PZ2/20 | 22020193-001 | PAHMSW | | | | | | 1 |
| PZ3/20 | 22020193-002 | PHCONDW | | | _ | 1 | | 1 |
| PZ3/20 | 22020193-002 | WSLM13 | | | | | | 1 |
| PZ3/20 | 22020193-002 | PAHMSW | | | | | 1 | 1 |

Analysis Method

Analysis

BTEXHSA ICPMSW (Dissolved) ICPWATVAR (Dissolved) ISEF KONENS PAHMSW PCBECD PHCONDW SVOCSW WSLM13 WSLM27

Analysis Type

ORGANIC METALS METALS INORGANIC INORGANIC ORGANIC INORGANIC INORGANIC INORGANIC INORGANIC

Analysis Method

Unfiltered Filtered Unfiltered Filtered Unfiltered Unfiltered Unfiltered Unfiltered Filtered Filtered



Result Report Notes

Letters alongside results signify that the result has associated report notes. The report notes are a follows:

| Letter | Note |
|--------|--|
| A | Due to the matrix of the sample the laboratory has had to deviate from our standard protocols to be able to process the sample and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data. |
| В | The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised. |
| С | Due to matrix interference the internal standard and/or surrogate has not met the QMS requirements. This should be taken into consideration when utilising the data. |
| D | A non-standard volume or mass has been used for this test which has resulted in a raised detection limit. |
| E | Due to recoveries beyond our calibration range and following the maximum size of dilution allowed, the result cannot be quantified and as such the result will appear as a greater than symbol (>) with the accreditation removed. This data should be used for indicative purposes only. |
| F | Based on the sample history, appearance and smell a dilution was applied prior to testing. Unfortunately, the result is either above (>) or below (<) our calibration range. Results above our calibration range have accreditation removed. The data should be used for indicative purposes only. |
| G | The day 5 oxygen reading was below the capability of the instrument to detect, and therefore the calculated BOD has been reported unaccredited for guidance purposes only. |

HWOL Acronym Key

| Acronym | Description |
|---------|---|
| HS | Headspace Analysis |
| EH | Extractable Hydrocarbons - i.e everything extracted by the solvent(s) |
| CU | Clean up - e.g. by florisil, silica gel |
| 1D | GC - Single coil gas chromatography |
| Total | Aliphatics & Aromatics |
| AL | Aliphatics only |
| AR | Aromatics only |
| + | Operator to indicate cumulative e.g. EH_CU+HS_1D_Total |



Additional Information

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- N = Unaccredited analysis

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End of Certificate of Analysis



Certificate of Analysis

Client: BCL Consultant Hydrogeologists Limited

Project: 22022121

Quote: BEC220124100 V1.1

Project Ref: Wrotham

Site: Wrotham

Contact: Matt Clewes

Address: Technology Centre Wolverhampton Science Park Wolverhampton West Midlands WV10 9RU

E-Mail: matt@bclhydro.co.uk

Phone: 00000000000

No. Samples Received: 2

Date Received: 24/02/2022

Analysis Date: 15/03/2022

Date Issued: 16/03/2022

Report Type: Final Version 01

This report supercedes any versions previously issued by the laboratory

A.M. Kerber

Account Manager Angela Kirby

Authorised by the Operations Manager Becky Batham

SOCOTEC UK, Ashby Road, Bretby, Burton-on-Trent, UK, DE15 0YZ



Samples Analysed

| Sample Reference | Text ID | Sample Date | Sample Type | Sample Description |
|------------------|--------------|---------------------|-------------|---------------------|
| PZ2/21 | 22022121-001 | 21/02/2022 00:00:00 | WATER | Unclassified Liquid |
| PZ3/21 | 22022121-002 | 21/02/2022 00:00:00 | WATER | Unclassified Liquid |



| | | | Sa | mple ID | 001 | 002 |
|--------------------------|-----------------------|---------|----------|----------|------------|------------|
| | | | Cust | omer ID | PZ2/21 | PZ3/21 |
| | | | Samp | ole Type | WATER | WATER |
| | | | Sampli | ng Date | 21/02/2022 | 21/02/2022 |
| Analysis | Method Code | MDL | Units | Accred. | | |
| Ammoniacal Nitrogen as N | KONENS | 0.01 | mg/i | N | 0.01 | 0.01 |
| рН | PHCONDW | 1 | pH units | N | 6.0 | 6.7 |
| TDS as mg/L | WSLM27 | 5 | mg/l | N | 873 | 433 |
| Chloride as Cl | KONENS | 1 | mg/l | N | 185 | 48 |
| Fluoride as F | ISEF | 0.1 | mg/l | N | <0.1 | 0.1 |
| Dissolved Organic Carbon | WSLM13 | 0.2 | mg/l | N | 1.3 | 3.0 |
| Total Organic Carbon | WSLM13 | 0.2 | mg/I | N | 1.1 | 3.0 |
| Antimony as Sb | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Arsenic as As | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Cadmium as Cd | ICPMSW (Dissolved) | 0.00002 | mg/l | N | <0.00002 | <0.00002 |
| Total Chromium as Cr | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Copper as Cu | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Lead as Pb | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Mercury as Hg | ICPMSW (Dissolved) | 0.00003 | mg/l | N | <0.00003 | <0.00003 |
| Molybdenum as Mo | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Nickel as Ni | ICPMSW (Dissolved) | 0.001 | mg/l | N | 0.109 | 0.001 |
| Selenium as Se | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Zinc as Zn | ICPMSW (Dissolved) | 0.002 | mg/l | N | 0.068 | 0.008 |
| Barium as Ba | ICPWATVAR (Dissolved) | 0.01 | mg/l | N | 0.07 | 0.03 |



| | | | Sa | ample ID | 001 | 002 |
|--------------------------|-----------------------|-------------|-------|----------|------------|------------|
| | | | Cust | tomer ID | PZ2/21 | PZ3/21 |
| | | | Sam | ple Type | WATER | WATER |
| | | | Sampl | ing Date | 21/02/2022 | 21/02/2022 |
| Analysis | Method Code | MDL | Units | Accred. | | |
| Total Sulphur as SO4 | ICPWATVAR (Dissolved) | 3 | mg/l | N | 139 | 153 |
| Benzene IS_1D_AR | BTEXHSA | 5 | hðy | N | <5 | <5 |
| Ethylbenzene IS_1D_AR | BTEXHSA. | 5 | hðų | N | <5 | <5 |
| m/p-Xylene HS_1D_AR | BTEXHSA | 10 | hðų | N | <10 | <10 |
| o-Xylene HS_1D_AR | BTEXHSA. | 5 | hðy | N | <5 | <5 |
| Toluene HS_1D_AR | BTEXHSA | 5 | hðy | N | <5 | <5 |
| Acenaphthene | PAHMSW | 0.01 | hâl | N | <0.01 | <0.01 |
| Acenaphthylene | PAHMSW | 0.01 | hðy | N | <0.01 | <0.01 |
| Anthracene | PAHMSW | 0.01 | hð\l | N | <0.01 | <0.01 |
| Benzo[a]anthracene | PAHMSW | 0.01 | hð\j | N | <0.01 в | <0.01 в |
| Benzo[a]pyrene | PAHMSW | 0.01 | hðų | N | <0.01 | <0.01 |
| Benzo[b]fluoranthene | PAHMSW | 0.01 | hðy | N | <0.01 | <0.01 |
| Benzo[g,h,i]perylene | PAHMSW | <u>0.01</u> | hðų | N | <0.01 в | <0.01 в |
| Benzo[k]fluoranthene | PAHMSW | 0.01 | hðyl | N | <0.01 | <0.01 |
| Chrysene | PAHMSW | 0.01 | hðy | N | <0.01 в | <0.01 s |
| Dibenzo[a,h]anthracene | PAHMSW | 0.01 | hðų | N | <0.01 в | <0.01 s |
| Fluoranthene | FAHMSW | 0.01 | hðy | N | <0.01 | <0.01 |
| Fluorene | PAHMSW | 0.01 | hðų | N | <0.01 | <0.01 |
| Indeno[1.2.3-cd]pyrene | PAHMSW | 0.01 | hðy | N | <0.01 в | <0.01 в |



| | | | S | ample ID | 001 | 002 |
|-----------------------|-------------|-------|-------|-----------|------------|------------|
| | | | Cus | stomer ID | PZ2/21 | PZ3/21 |
| | | | San | nple Type | WATER | WATER |
| | | | Samp | ling Date | 21/02/2022 | 21/02/2022 |
| Analysis | Method Code | MDL | Units | Accred. | | |
| Naphthalene | PAHMSW | 0.01 | hð\l | N | 0.02 | 0.02 |
| Phenanthrene | PAHMSW | 0.01 | hð\[| N | <0.01 | <0.01 |
| Pyrene | PAHMSW | 0.01 | hðy | N | <0.01 | <0.01 |
| Total PAH 16 | PAHMSW | 0.16 | hðy | N | 0.17 | 0.17 |
| PCB 101 | PCBECD | 0.01 | hðy | N | <0.01 | 0.02 |
| PCB 118 | PCBECD | 0.01 | µg/l | N | <0.01 | 0.02 |
| PCB 138 | PCBECD | 0.01 | µg/l | N | <0.01 | 0.01 |
| PCB 153 | PCBECD | 0.01 | hðy | N | <0.01 | <0.01 |
| PCB 160 | PCBECD | 0.01 | hðy | N | <0.01 | <0.01 |
| PCB 28 | PCBECD | 0.01 | hðy | N | <0.01 | <0.01 |
| PCB 52 | PCBECD | 0.01 | µg/l | N | <0.01 | <0.01 |
| 2,4,5-Trichlorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 |
| 2,4,6-Trichlorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 |
| 2,4-Dichlorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 |
| 2,4-Dimethylphenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 |
| 2,4-Dinitrophenol | SVOCSW | 0.01 | mg/l | N | <0.010 | <0.010 |
| 2-Chlorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 |
| 2-Methylphenol | SVOCSW | 0.005 | mg/l | N | <0.005 | <0.005 |
| 2-Nitrophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 |

Page 5 of 9



| | | | 14 | Sample ID | 001 | 002 |
|----------------------------|-------------|-------|-------|------------|------------|------------|
| | | | Cu | stomer ID | PZ2/21 | PZ3/21 |
| | | | Sar | mple Type | WATER | WATER |
| | | | Sam | pling Date | 21/02/2022 | 21/02/2022 |
| Analysis | Method Code | MDL | Units | Accred. | | |
| 3- & 4-Methylphenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 |
| 4,6-Dinitro-2-methylphenol | svocsw | 0.05 | mg/l | N | <0.050 | <0.050 |
| 4-Chloro-3-methylphenol | SVOCSW | 0.005 | mg/i | N | <0.005 | <0.005 |
| 4-Chlorophenol | svocsw | 0.02 | mg/l | N | <0.020 | <0.020 |
| 4-Nitrophenol | SVOCSW | 0.05 | mg/i | N | <0.050 | <0.050 |
| Pentachlorophenol | svocsw | 0.05 | mg/l | N | <0.050 | <0.050 |
| Phenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 |
| Total (15) Phenols | SVOCSW | 0.35 | mg/i | N | <0.350 | < 0.350 |



| Deviating Sample Re | port Text ID | Reported Name | Incorrect Container | Incorrect Label | Headspace | Incorrect/No Preservative | No Sampling Date | Holding Time |
|---------------------|-----------------|---------------|---------------------|-----------------|---------------|---------------------------|------------------|--------------|
| PZ2/21 | 22022121-001 | PHCONDW | | Le la | - | | - 5- | - |
| PZ2/21 | 22022121-001 | PAHMSW | | | | | | 1 |
| PZ3/21 | 22022121-002 | PHCONDW | | | $\Box \equiv$ | | 121 | 1 |
| PZ3/21 | 22022121-002 | PAHMSW | | | | | | ~ |

Analysis Method

Analysis BTEXHSA ICPMSW (Dissolved) ICPWATVAR (Dissolved) ISEF KONENS PAHMSW PCBECD PHCONDW SVOCSW WSLM13 WSLM27 Analysis Type

ORGANIC METALS METALS INORGANIC INORGANIC ORGANIC ORGANIC INORGANIC INORGANIC INORGANIC

Analysis Method

Unfiltered Filtered Unfiltered Unfiltered Unfiltered Unfiltered Unfiltered Unfiltered Filtered



Result Report Notes

Letters alongside results signify that the result has associated report notes. The report notes are a follows:

| Letter | Note |
|--------|--|
| A | Due to the matrix of the sample the laboratory has had to deviate from our standard protocols to be able to process the sample and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data. |
| В | The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised. |
| С | Due to matrix interference the internal standard and/or surrogate has not met the QMS requirements. This should be taken into consideration when utilising the data. |
| D | A non-standard volume or mass has been used for this test which has resulted in a raised detection limit. |
| E | Due to recoveries beyond our calibration range and following the maximum size of dilution allowed, the result cannot be quantified and as such the result will appear as a greater than symbol (>) with the accreditation removed. This data should be used for indicative purposes only. |
| F | Based on the sample history, appearance and smell a dilution was applied prior to testing. Unfortunately, the result is either above (>) or below (<) our calibration range. Results above our calibration range have accreditation removed. The data should be used for indicative purposes only. |
| G | The day 5 oxygen reading was below the capability of the instrument to detect, and therefore the calculated BOD has been reported unaccredited for guidance purposes only. |

HWOL Acronym Key

| Acronym | Description |
|---------|---|
| HS | Headspace Analysis |
| EH | Extractable Hydrocarbons - i.e everything extracted by the solvent(s) |
| CU | Clean up - e.g. by florisil, silica gel |
| 1D | GC - Single coil gas chromatography |
| Total | Aliphatics & Aromatics |
| AL | Aliphatics only |
| AR | Aromatics only |
| + | Operator to indicate cumulative e.g. EH_CU+HS_1D_Total |



Additional Information

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Results within this report relate only to the samples tested.

In the accreditation column of analysis report the codes are as follows:

- U = UKAS accredited analysis
- M = MCERT accredited analysis
- N = Unaccredited analysis

Any units marked with ^ signify results are reported on a dry weight basis of 105 ° C.

All Air Dried and Ground Samples (ADG) are oven dried at less than 35° c.

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Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any samples marked with * are not covered by our scope of UKAS accreditation. If applicable, further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with ‡ have had MCERTS accreditation removed for this result

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

- IS = Insufficient Sample to complete analysis
- NA = Sample is not amenable for the required analysis
- ND = Results cannot be determined

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the Subcontracted lab for information regarding any deviancies for this analysis.

End of Certificate of Analysis



Environmental Chemistry

Certificate of Analysis

Client: BCL Consultant Hydrogeologists Limited Project: 22040086 Quote: BEC220124100 V1.1 Project Ref: Wrotham Site: Wrotham Contact: Matt Clewes Address: Technology Centre Wolverhampton Science Park Wolverhampton West Midlands WV10 9RU

E-Mail: matt@bclhydro.co.uk

Phone: 0000000000

No. Samples Received: 2

Date Received: 01/04/2022

Analysis Date: 12/04/2022

Date Issued: 13/04/2022

Report Type: Final Version 01

This report supercedes any versions previously issued by the laboratory

L. Dunsk

Account Manager Ayshea Dunsby 01283 554434

Authorised by the Operations Manager Becky Batham

SOCOTEC UK, Ashby Road, Bretby, Burton-on-Trent, UK, DE15 0YZ



Samples Analysed

| Sample Reference | Text ID | Sample Date | Sample Type | Sample Description |
|------------------|--------------|---------------------|-------------|---------------------|
| PZ2/21 | 22040086-001 | 28/03/2022 00:00:00 | WATER | Unclassified Liquid |
| PZ3/21 | 22040086-002 | 28/03/2022 00:00:00 | WATER | Unclassified Liquid |



Analysis Results

| | | | S | ample ID | 001 | 002 |
|--------------------------|-----------------------|---------|----------|----------|------------|------------|
| | | | Cus | tomer ID | PZ2/21 | PZ3/21 |
| | | | Sam | ple Type | WATER | WATER |
| | | | Sampl | ing Date | 28/03/2022 | 28/03/2022 |
| Analysis | Method Code | MDL | Units | Accred. | | |
| Ammoniacal Nitrogen as N | KONENS | 0.01 | mg/l | N | 0.02 | 0.03 |
| рН | PHCONDW | 1 | pH units | N | 6.0 | 6.9 |
| TDS as mg/L | WSLM27 | 5 | mg/l | N | 758 | 433 |
| Chloride as Cl | KONENS | 1 | mg/l | N | 178 | 43 |
| Fluoride as F | ISEF | 0.1 | mg/i | N | <0.1 | 0.1 |
| Dissolved Organic Carbon | WSLM13 | 0.2 | mg/l | N | 1.2 | 2.7 |
| Total Organic Carbon | WSLM13 | 0.2 | mg/l | N | 1.2 | 2.7 |
| Antimony as Sb | ICPMSW (Dissolved) | 0.001 | mg/ī | N | <0.001 | <0.001 |
| Arsenic as As | ICPMSW (Dissolved) | 0.001 | mg/i | N | <0.001 | <0.001 |
| Cadmium as Cd | ICPMSW (Dissolved) | 0.00002 | mg/l | N | 0.00009 | 0.00003 |
| Total Chromium as Cr | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Copper as Cu | ICPMSW (Dissolved) | 0.001 | mg/l | N | 0.003 | 0.002 |
| Lead as Pb | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Mercury as Hg | ICPMSW (Dissolved) | 0.00003 | mg/l | N | <0.00003 | <0.00003 |
| Molybdenum as Mo | ICPMSW (Dissolved) | 0.001 | mg/ī | N | <0.001 | <0.001 |
| Nickel as Ni | ICPMSW (Dissolved) | 0.001 | mg/l | N | 0.091 | 0.002 |
| Selenium as Se | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 |
| Zinc as Zn | ICPMSW (Dissolved) | 0.002 | mg/l | N | 0.099 | 0.027 |
| Barium as Ba | ICPWATVAR (Dissolved) | 0.01 | mg/l | N | 0.06 | 0.03 |

Page 3 of 8



Analysis Results

| | Sample ID | | Sample ID | 001 | 002 | | |
|--------------------------|-----------------------|------|-------------|------------|---------------|------------|--|
| | | | Cu | stomer ID | PZ2/21 | PZ3/21 | |
| | | | Sample Type | | WATER | WATER | |
| | | | Samp | oling Date | 28/03/2022 | 28/03/2022 | |
| Analysis | Method Code | MDL | Units | Accred. | 1.1.1.1.1.1.1 | 1 | |
| Total Sulphur as SO4 | ICPWATVAR (Dissolved) | 3 | mg/l | N | 135 | 116 | |
| Benzene HS_1D_AR | BTEXHSA | 5 | hð\[| N | <5 | <5 | |
| Ethylbenzene HS_1D_AR | BTEXHSA | 5 | µg/l | N | <5 | <5 | |
| m/p-Xylene HS_1D_AR | BTEXHSA | 10 | µg/l | N | <10 | <10 | |
| o-Xylene HS_1D_AR | BTEXHSA | 5 | hð\l | N | <5 | <5 | |
| Toluene HS_1D_AR | BTEXHSA | 5 | µg/l | N | <5 | <5 | |
| Acenaphthene | PAHMSW | 0.01 | hð\[| N | <0.01 | <0.01 | |
| Acenaphthylene | PAHMSW | 0.01 | hðy | N | <0.01 | <0.01 | |
| Anthracene | PAHMSW | 0.01 | hð\ | N | <0.01 | <0.01 | |
| Benzo[a]anthracene | PAHMSW | 0.01 | hðy | N | <0.01 | <0.01 | |
| Benzo[a]pyrene | PAHMSW | 0.01 | hð\[| N | <0.01 в | <0.01 в | |
| Benzo[b]fluoranthene | PAHMSW | 0.01 | hðy | N | <0.01 | <0.01 | |
| Benzo[g,h,i]perylene | PAHMSW | 0.01 | hð\į | N | <0.01 | <0.01 | |
| Benzo[k]fluoranthene | PAHMSW | 0.01 | hây | N | <0.01 | <0.01 | |
| Chrysene | PAHMSW | 0.01 | µg/l | N | <0.01 | <0.01 | |
| Dibenzo[a,h]anthracene | PAHMSW | 0.01 | hð\į | N | <0.01 | <0.01 | |
| Fluoranthene | PAHMSW | 0.01 | hð\į | N | 0.01 | <0.01 | |
| Fluorene | PAHMSW | 0.01 | µg/l | N | <0.01 | <0.01 | |
| Indeno[1,2,3-cd]pyrene | PAHMSW | 0.01 | µg/l | N | 0.01 | <0.01 | |



Analysis Results

| | | | Sample ID | | 001 | 002 | |
|-----------------------|-------------|-------|-----------|-----------|------------|------------|--|
| | | | Cus | tomer ID | PZ2/21 | PZ3/21 | |
| | | | Sam | ple Type | WATER | WATER | |
| | | | Samp | ling Date | 28/03/2022 | 28/03/2022 | |
| Analysis | Method Code | MDL | Units | Accred. | | | |
| Naphthalene | PAHMSW | 0.01 | µg/l | N | <0.01 | <0.01 | |
| Phenanthrene | PAHMSW | 0.01 | µg/l | N | <0.01 | <0.01 | |
| Pyrene | PAHMSW | 0.01 | hð\[| N | 0.02 | <0.01 | |
| Total PAH 16 | PAHMSW | 0.16 | hðų | N | 0.17 | <0.16 | |
| PCB 101 | PCBECD | 0.01 | µg/l | N | <0.01 | <0.01 | |
| PCB 118 | PCBECD | 0.01 | µg/l | N | <0.01 | <0.01 | |
| PCB 138 | PCBECD | 0.01 | µg/l | N | <0.01 | <0.01 | |
| PCB 153 | PCBECD | 0.01 | hð\ | N | <0.01 | <0.01 | |
| PCB 180 | PCBECD | 0.01 | hðų | N | <0.01 | <0.01 | |
| PCB 28 | PCBECD | 0.01 | hây | N | <0.01 | <0.01 | |
| PCB 52 | PCBECD | 0.01 | µg/l | N | <0.01 | <0.01 | |
| 2,4,5-Trichlorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 | |
| 2,4,6-Trichlorophenol | svocsw | 0.02 | mg/l | N | <0.020 | <0.020 | |
| 2,4-Dichlorophenol | svocsw | 0.02 | mg/l | N | <0.020 | <0.020 | |
| 2,4-Dimethylphenol | SVOCSW | 0.02 | тgЛ | N | <0.020 | <0.020 | |
| 2,4-Dinitrophenol | SVOCSW | 0.01 | mg/l | N | <0.010 | <0.010 | |
| 2-Chlorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 | |
| 2-Methylphenol | svocsw | 0.005 | mg/l | N | <0.005 | <0.005 | |
| 2-Nitrophenol | svocsw | 0.02 | mg/l | N | <0.020 | <0.020 | |



Concelle ID

004

Analysis Results

| | | | 18 | Sample ID | 001 | 002 | |
|----------------------------|-------------|-------|-------------|------------|-----------------------|------------|--|
| | | | Customer ID | | PZ2/21 | PZ3/21 | |
| | | | Sar | nple Type | WATER | WATER | |
| | | | Samp | oling Date | 28/03/2022 | 28/03/2022 | |
| Analysis | Method Code | MDL | Units | Accred. | a construction of the | | |
| 3- & 4-Methylphenol | svocsw | 0.02 | mg/i | N | <0.020 | <0.020 | |
| 4,6-Dinitro-2-methylphenol | SVOCSW | 0.05 | mg/l | N | <0.050 | <0.050 | |
| 4-Chloro-3-methylphenol | SVOCSW | 0.005 | mg/l | N | <0.005 | <0.005 | |
| 4-Chiorophenol | svocsw | 0.02 | mg/l | N | <0.020 | <0.020 | |
| 4-Nitrophenol | svocsw | 0.05 | mg/l | N | <0.050 | <0.050 | |
| Pentachlorophenol | svocsw | 0.05 | mg/l | N | <0.050 | <0.050 | |
| Phenol | svocsw | 0.02 | mg/l | N | <0.020 | <0.020 | |
| Total (15) Phenols | SVOCSW | 0.35 | mg/l | N | <0.350 | <0.350 | |



| Deviating Sample Repor | <u>t</u> | | ntainer | Ð | | Preservative | Date | |
|------------------------|----------|---------------|---------------|----------------|-----------|----------------|-------------|--------------|
| Sample Reference | Text ID | Reported Name | Incorrect Con | Incorrect Labe | Headspace | Incorrect/No F | No Sampling | Holding Time |

Analysis Method

| Analysis | Analysis Type | Analysis Method |
|-----------------------|---------------|-----------------|
| BTEXHSA | ORGANIC | Unfiltered |
| ICPMSW (Dissolved) | METALS | Filtered |
| ICPWATVAR (Dissolved) | METALS | Filtered |
| ISEF | INORGANIC | Unfiltered |
| KONENS | INORGANIC | Filtered |
| PAHMSW | ORGANIC | Unfiltered |
| PCBECD | ORGANIC | Unfiltered |
| PHCONDW | INORGANIC | Unfiltered |
| SVOCSW | ORGANIC | Unfiltered |
| WSLM13 | INORGANIC | Unfiltered |
| WSLM27 | INORGANIC | Filtered |
| | | |

Result Report Notes

Letters alongside results signify that the result has associated report notes. The report notes are a follows:

| Letter | Note |
|--------|--|
| A | Due to the matrix of the sample the laboratory has had to deviate from our standard protocols to be able to process the sample and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data. |
| В | The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised. |
| С | Due to matrix interference the internal standard and/or surrogate has not met the QMS requirements. This should be taken into consideration when utilising the data. |
| D | A non-standard volume or mass has been used for this test which has resulted in a raised detection limit. |
| E | Due to recoveries beyond our calibration range and following the maximum size of dilution allowed, the result cannot be quantified and as such the result will appear as a greater than symbol (>) with the accreditation removed. This data should be used for indicative purposes only. |
| F | Based on the sample history, appearance and smell a dilution was applied prior to testing. Unfortunately, the result is either above (>) or below (<) our calibration range. Results above our calibration range have accreditation removed. The data should be used for indicative purposes only. |
| G | The day 5 oxygen reading was below the capability of the instrument to detect, and therefore the calculated BOD has been reported unaccredited for guidance purposes only. |



HWOL Acronym Key

| Acronym | Description |
|---------|---|
| HS | Headspace Analysis |
| EH | Extractable Hydrocarbons - i.e everything extracted by the solvent(s) |
| CU | Clean up - e.g. by florisil, silica gel |
| 1D | GC - Single coil gas chromatography |
| Total | Aliphatics & Aromatics |
| AL | Aliphatics only |
| AR | Aromatics only |
| + | Operator to indicate cumulative e.g. EH_CU+HS_1D_Total |

Additional Information

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- M = MCERT accredited analysis
- N = Unaccredited analysis

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End of Certificate of Analysis



Certificate of Analysis

Client: BCL Consultant Hydrogeologists Limited Project: 22050304 Quote: BEC220124100 V1.1 Project Ref: Wrotham Site: Wrotham Contact: Matt Clewes Address: Technology Centre Wolverhampton Science Park Wolverhampton West Midlands WV10 9RU

E-Mail: matt@bclhydro.co.uk

Phone: 0000000000

No. Samples Received: 3

Date Received: 06/05/2022

Analysis Date: 23/05/2022

Date Issued: 25/05/2022

Report Type: Final Version 01

This report supercedes any versions previously issued by the laboratory

Aunsty

Account Manager Ayshea Dunsby 01283 554434

Authorised by the Operations Manager Becky Batham

SOCOTEC UK, Ashby Road, Bretby, Burton-on-Trent, UK, DE15 0YZ



Samples Analysed

| Sample Reference | Text ID | Sample Date | Sample Type | Sample Description |
|------------------|--------------|---------------------|-------------|---------------------|
| PZ4/21 | 22050304-001 | 27/04/2022 00:00:00 | WATER | Unclassified Liquid |
| PZ2/21 | 22050304-002 | 27/04/2022 00:00:00 | WATER | Unclassified Liquid |
| PZ3/21 | 22050304-003 | 27/04/2022 00:00:00 | WATER | Unclassified Liquid |



| | | | Sar | mple ID | 001 | 002 | 003 |
|--------------------------|-----------------------|---------|----------|---------|------------------------|---------------------------------------|------------|
| | Customer ID | | | | PZ4/21 | PZ2/21 | PZ3/21 |
| | | | Samp | le Type | WATER | WATER | WATER |
| | | | Samplin | ng Date | 27/04/2022 | 27/04/2022 | 27/04/2022 |
| Analysis | Method Code | MDL | Units | Accred. | A second second second | · · · · · · · · · · · · · · · · · · · | 1 |
| Ammoniacal Nitrogen as N | KONENS | 0.01 | mg/l | N | <0.01 | 0.05 | 0.04 |
| pH | PHCONDW | 1 | pH units | N | 7.1 | 6.3 | 7.2 |
| TDS as mg/L | WSLM27 | 5 | mg/l | N | 421 | 878 | 515 |
| Chloride as Cl | KONENS | 1 | mg/i | N | 33 | 50 | 49 |
| Fluoride as F | ISEF | 0.1 | mg/l | N | 0.1 | <0.1 | 0.1 |
| Dissolved Organic Carbon | WSLM13 | 0.2 | mg/l | N | 2.9 | 0.92 | 2.7 |
| Total Organic Carbon | WSLM13 | 0.2 | mg/l | N | 3.6 | 0.96 | 2.9 |
| Antimony as Sb | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 | <0.001 |
| Arsenic as As | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 | <0.001 |
| Cadmium as Cd | ICPMSW (Dissolved) | 0.00002 | mg/l | N | 0.00006 | 0.00005 | 0.00005 |
| Total Chromium as Cr | ICPMSW (Dissolved) | 0.001 | mg/l | N | <0.001 | <0.001 | <0.001 |
| Copper as Cu | ICPMSW (Dissolved) | 0.001 | mg/l | N | 0.002 | <0.001 | <0.001 |
| Lead as Pb | ICPMSW (Dissolved) | 0.001 | mg/l | N | 0.001 | <0.001 | <0.001 |
| Mercury as Hg | ICPMSW (Dissolved) | 0.00003 | mg/l | N | <0.00003 | <0.00003 | <0.00003 |
| Molybdenum as Mo | ICPMSW (Dissolved) | 0.001 | тgЛ | N | <0.001 | <0.001 | <0.001 |
| Nickel as Ni | ICPMSW (Dissolved) | 0.001 | mg/l | N | 0.003 | 0.001 | 0.001 |
| Selenium as Se | ICPMSW (Dissolved) | 0.001 | mgЛ | N | <0.001 | <0.001 | <0.001 |
| Zinc as Zn | ICPMSW (Dissolved) | 0.002 | mg/l | N | 0.037 | 0.010 | 0.029 |
| Barium as Ba | ICPWATVAR (Dissolved) | 0.01 | mg/l | N | 0.03 | 0.03 | 0.03 |

Page 3 of 9



| | | | Sa | ample ID | 001 | 002 | 003 |
|--------------------------|-----------------------|------|-------|----------|------------|-------------|------------|
| | | | Cust | tomer ID | PZ4/21 | PZ2/21 | PZ3/21 |
| | | | Sam | ple Type | WATER | WATER | WATER |
| | | | | ing Date | 27/04/2022 | 27/04/2022 | 27/04/2022 |
| Analysis | Method Code | MDL | Units | Accred. | | CACO DE CON | |
| Total Sulphur as SO4 | ICPWATVAR (Dissolved) | 3 | mg/l | N | 57 | 163 | 166 |
| Benzene HS_1D_AR | BTEXHSA | 5 | hây | N | <5 | <5 | <5 |
| Ethylbenzene HS_1D_AR | BTEXHSA | 5 | hâų | N | <5 | <5 | <5 |
| m/p-Xylene HS_1D_AR | BTEXHSA | 10 | hð\l | N | <10 | <10 | <10 |
| o-Xylene HS_1D_AR | BTEXHSA | 5 | µg/l | N | <5 | <5 | <5 |
| Toluene HS_1D_AR | BTEXHSA | 5 | hðų | N | <5 | <5 | <5 |
| Acenaphthene | PAHMSW | 0.01 | hãų | N | <0.01 | <0.01 | <0.01 |
| Acenaphthylene | PAHMSW | 0.01 | µg/l | N | <0.01 | <0.01 | <0.01 |
| Anthracene | PAHMSW | 0.01 | hðų | N | <0.01 | <0.01 | <0.01 |
| Benzo[a]anthracene | PAHMSW | 0.01 | hðy | N | <0.01 | <0.01 | <0.01 |
| Benzo[a]pyrene | PAHMSW | 0.01 | hð\[| N | <0.01 | <0.01 | <0.01 |
| Benzo[b]fluoranthene | PAHMSW | 0.01 | hây | N | <0.01 | <0.01 | <0.01 |
| Benzo[g,h,i]perylene | PAHMSW | 0.01 | hâ\į | N | <0.01 | <0.01 | <0.01 |
| Benzo[k]fluoranthene | PAHMSW | 0.01 | hây | N | <0.01 | <0.01 | <0.01 |
| Chrysene | PAHMSW | 0.01 | hây | N | <0.01 | <0.01 | <0.01 |
| Dibenzo[a,h]anthracene | PAHMSW | 0.01 | hð\j | N | <0.01 | <0.01 | <0.01 |
| Fluoranthene | PAHMSW | 0.01 | hð\j | N | <0.01 | <0.01 | <0.01 |
| Fluorene | PAHMSW | 0.01 | hðų | N | <0.01 | <0.01 | <0.01 |
| Indeno[1,2,3-cd]pyrene | PAHMSW | 0.01 | hðy | N | <0.01 | <0.01 | <0.01 |

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| | | | S | ample ID | 001 | 002 | 003 |
|-----------------------|-------------|-------|-------|----------|------------|------------|------------|
| | | | Cus | tomer ID | PZ4/21 | PZ2/21 | PZ3/21 |
| | | | Sam | ple Type | WATER | WATER | WATER |
| | | | Sampl | ing Date | 27/04/2022 | 27/04/2022 | 27/04/2022 |
| Analysis | Method Code | MDL | Units | Accred. | | | |
| Naphthalene | PAHMSW | 0.01 | hð\[| N | <0.01 | <0.01 | <0.01 |
| Phenanthrene | PAHMSW | 0.01 | häv | N | <0.01 | <0.01 | <0.01 |
| Pyrene | PAHMSW | 0.01 | hð\l | N | <0.01 в | <0.01 e | <0.01 в |
| Total PAH 16 | PAHMSW | 0.16 | hðų | N | <0.16 | <0.16 | <0.16 |
| PCB 101 | PCBECD | 0.01 | hð\[| N | <0.01 | <0.01 | <0.01 |
| PCB 118 | PCBECD | 0.01 | µg/l | N | <0.01 | <0.01 | <0.01 |
| PCB 138 | PCBECD | 0.01 | µg/l | N | <0.01 | <0.01 | <0.01 |
| PCB 153 | PCBECD | 0.01 | hð\[| N | <0.01 | <0.01 | <0.01 |
| PCB 180 | PCBECD | 0.01 | hðy | N | <0.01 | <0.01 | <0.01 |
| PCB 28 | PCBECD | 0.01 | hðy | N | <0.01 | <0.01 | <0.01 |
| PCB 52 | PCBECD | 0.01 | hây | N | <0.01 | <0.01 | <0.01 |
| 2,4,5-Trichlorophenol | svocsw | 0.02 | mg/l | N | <0.020 | <0.020 | <0.020 |
| 2,4,6-Trichlorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 | <0.020 |
| 2,4-Dichlorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 | <0.020 |
| 2,4-Dimethylphenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 | <0.020 |
| 2,4-Dinitrophenol | SVOCSW | 0.01 | mg/l | N | <0.010 | <0.010 | <0.010 |
| 2-Chlorophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 | <0.020 |
| 2-Methylphenol | SVOCSW | 0.005 | mg/l | N | <0.005 | <0.005 | <0.005 |
| 2-Nitrophenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 | <0.020 |

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| | | | s | ample ID | 001 | 002 | 003 |
|----------------------------|-------------|-------|-------|-----------|------------|---------------|------------|
| | | | Cus | tomer ID | PZ4/21 | PZ2/21 | PZ3/21 |
| | | | San | ple Type | WATER | WATER | WATER |
| | | | Samp | ling Date | 27/04/2022 | 27/04/2022 | 27/04/2022 |
| Analysis | Method Code | MDL | Units | Accred. | 1.000 | 1.1.1.1.1.1.1 | |
| 3- & 4-Methylphenol | SVOCSW | 0.02 | mg/l | N | <0.020 | <0.020 | <0.020 |
| 4,6-Dinitro-2-methylphenol | SVOCSW | 0.05 | mg/l | N | <0.050 | <0.050 | <0.050 |
| 4-Chioro-3-methylphenol | svocsw | 0.005 | mg/l | N | <0.005 | <0.005 | <0.005 |
| 4-Chlorophenol | svocsw | 0,02 | mg/l | N | <0.020 | <0.020 | <0.020 |
| 4-Nitrophenol | svocsw | 0.05 | mg/l | N | <0.050 | <0.050 | <0.050 |
| Pentachlorophenol | SVOCSW | 0.05 | mg/l | N | <0.050 | <0.050 | <0.050 |
| Phenol | svocsw | 0.02 | mg/l | N | <0.020 | <0.020 | <0.020 |
| Total (15) Phenols | SVOCSW | 0.35 | mg/[| N | <0.350 | < 0.350 | < 0.350 |

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| Deviating Sample Re | port | | | | | tive | 1 | 6 |
|---------------------|--------------|---------------|---------------------|-----------------|-----------|---------------------------|------------------|--------------|
| Sample Reference | Text ID | Reported Name | Incorrect Container | Incorrect Label | Headspace | Incorrect/No Preservative | No Sampling Date | Holding Time |
| PZ4/21 | 22050304-001 | KONENS | | | | | | 1 |
| PZ4/21 | 22050304-001 | KONENS | | | | | | 1 |
| PZ4/21 | 22050304-001 | PHCONDW | | | | | | 1 |
| PZ4/21 | 22050304-001 | BTEXHSA | | | | | | 1 |
| PZ4/21 | 22050304-001 | WSLM13 | i = | | J | ÷ = - | | 1 |
| PZ4/21 | 22050304-001 | PAHMSW | | | | | | 1 |
| PZ2/21 | 22050304-002 | PHCONDW | | | 1 | | | 1 |
| PZ2/21 | 22050304-002 | BTEXHSA | | | <u></u> | | 1 | 1 |
| PZ2/21 | 22050304-002 | WSLM13 | | | 5 | | | 1 |
| PZ2/21 | 22050304-002 | PAHMSW | | | į , | | | 1 |
| PZ3/21 | 22050304-003 | PHCONDW | | | | | | 1 |
| PZ3/21 | 22050304-003 | BTEXHSA | | | 1 | | | 1 |
| PZ3/21 | 22050304-003 | WSLM13 | | | 1 | 1 E - | | 1 |
| PZ3/21 | 22050304-003 | PAHMSW | | | [] | | | 1 |

Analysis Method

| Analysis | Analysis Type | Analysis Method |
|-----------------------|---------------|-----------------|
| BTEXHSA | ORGANIC | Unfiltered |
| ICPMSW (Dissolved) | METALS | Filtered |
| ICPWATVAR (Dissolved) | METALS | Filtered |
| ISEF | INORGANIC | Unfiltered |
| KONENS | INORGANIC | Filtered |
| PAHMSW | ORGANIC | Unfiltered |
| PCBECD | ORGANIC | Unfiltered |
| PHCONDW | INORGANIC | Unfiltered |
| SVOCSW | ORGANIC | Unfiltered |
| WSLM13 | INORGANIC | Unfiltered |
| WSLM27 | INORGANIC | Filtered |



Result Report Notes

Letters alongside results signify that the result has associated report notes. The report notes are a follows:

| Letter | Note |
|--------|--|
| A | Due to the matrix of the sample the laboratory has had to deviate from our standard protocols to be able to process the sample and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data. |
| В | The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised. |
| С | Due to matrix interference the internal standard and/or surrogate has not met the QMS requirements. This should be taken into consideration when utilising the data. |
| D | A non-standard volume or mass has been used for this test which has resulted in a raised detection limit. |
| E | Due to recoveries beyond our calibration range and following the maximum size of dilution allowed, the result cannot be quantified and as such the result will appear as a greater than symbol (>) with the accreditation removed. This data should be used for indicative purposes only. |
| F | Based on the sample history, appearance and smell a dilution was applied prior to testing. Unfortunately, the result is either above (>) or below (<) our calibration range. Results above our calibration range have accreditation removed. The data should be used for indicative purposes only. |
| G | The day 5 oxygen reading was below the capability of the instrument to detect, and therefore the calculated BOD has been reported unaccredited for guidance purposes only. |

HWOL Acronym Key

| Acronym | Description |
|---------|---|
| HS | Headspace Analysis |
| EH | Extractable Hydrocarbons - i.e everything extracted by the solvent(s) |
| CU | Clean up - e.g. by florisil, silica gel |
| 1D | GC - Single coil gas chromatography |
| Total | Aliphatics & Aromatics |
| AL | Aliphatics only |
| AR | Aromatics only |
| + | Operator to indicate cumulative e.g. EH_CU+HS_1D_Total |



Additional Information

This report refers to samples as received, and SOCOTEC UK Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

In the accreditation column of analysis report the codes are as follows:

U = UKAS accredited analysis

M = MCERT accredited analysis

N = Unaccredited analysis

Any units marked with ^ signify results are reported on a dry weight basis of 105 ° C.

All Air Dried and Ground Samples (ADG) are oven dried at less than 35° c.

This report shall not be reproduced except in full and with approval from the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any samples marked with * are not covered by our scope of UKAS accreditation. If applicable, further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with ‡ have had MCERTS accreditation removed for this result

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

- IS = Insufficient Sample to complete analysis
- NA = Sample is not amenable for the required analysis
- ND = Results cannot be determined

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the Subcontracted lab for information regarding any deviancies for this analysis.

End of Certificate of Analysis



Ferns Group Wrotham Quarry Addington, Kent

Environmental Permit Application Buttressing of Quarry Faces Using Inert Materials Hydrogeological Risk Assessment

Version 3 16th June 2022

Appendix 5 Literature WAC Testing Data



Technology Centre, Wolverhampton Science Park, Glashier Drive, Wolverhampton West Midlands, WV10 9RU. Tel: 01902 824111, Fax: 01902 824112 email: info@bclhydro.co.uk, web: http://www.bchydro.co.uk Registered Office: 33, Wolverhampton Road, Cannock, West Midlands, WV11 1AP Registered in England & Wales. Company Registration Number: 4043373

| | BH02B | BH03 | BH01 | BH04 | TP11 | TP13 | TP16 | TP18 | TP20 | TP21 | TP22 | TP01 | TP02 | TP04 | TP06 | TP07 | TP08 | TP09 | TP11 | TP10 |
|---|--|--|---|---|---|--|---|--|--|--|--|--|--|---|---|--|--|---|---|---|
| Arsenic | 0.019 | 0.006 | 0.005 | 0.004 | 0.004 | 0.009 | 0.005 | 0.008 | 0.005 | 0.004 | 0.006 | 0.003 | 0.005 | 0.002 | 0.002 | 0.002 | 0.001 | 0.023 | 0.00317 | 0.0043 |
| Barium | 0.13 | 0.12 | 0.14 | 0.08 | 0.14 | 0.11 | 0.29 | 0.15 | 0.16 | 0.23 | 0.25 | 0.27 | 0.11 | 0.1 | 0.09 | 0.09 | 0.09 | 0.13 | 0.0299 | 0.023 |
| Cadmium | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Chromium | 0.005 | 0.001 | 0.01 | 0.008 | 0.018 | 0.011 | 0.007 | 0.004 | 0.004 | 0.022 | 0.007 | 0.005 | 0.012 | 0.02 | 0.016 | 0.01 | 0.025 | 0.002 | 0.00171 | 0.0023 |
| Copper | 0.019 | 0.004 | 0.013 | 0.009 | 0.013 | 0.019 | 0.017 | 0.013 | 0.01 | 0.014 | 0.012 | 0.005 | 0.004 | 0.007 | 0.007 | 0.006 | 0.027 | 0.007 | 0.0108 | 0.0076 |
| Mercury | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0000247 | 0.00003 |
| Molybdenum | 0.01 | 0.019 | 0.021 | 0.011 | 0.028 | 0.006 | 0.008 | 0.03 | 0.018 | 0.025 | 0.009 | 0.009 | 0.009 | 0.005 | 0.009 | 0.007 | 0.006 | 0.004 | 0.00597 | 0.005 |
| Nickel | 0.004 | 0.003 | 0.002 | 0.002 | 0.001 | 0.002 | 0.005 | 0.002 | 0.003 | 0.003 | 0.002 | 0.002 | 0.001 | 0.002 | 0.001 | 0.001 | 0.006 | 0.002 | 0.00196 | 0.0013 |
| Lead | 0.019 | 0.004 | 0.002 | 0.002 | 0.001 | 0.004 | 0.034 | 0.007 | 0.008 | 0.027 | 0.006 | 0.002 | 0.001 | 0.002 | 0.001 | 0.001 | 0.001 | 0.002 | 0.00126 | 0.0019 |
| Antimony | 0.009 | 0.005 | 0.027 | 800.0 | 0.056 | 0.014 | 0.006 | 0.011 | 0.01 | 0.01 | 0.008 | 0.004 | 0.01 | 0.014 | 0.009 | 0.014 | 0.005 | 0.016 | 0.0114 | 0.0079 |
| Selenium | 0.003 | 0.004 | 0.002 | 0.002 | 0.005 | 0.002 | 0.001 | 0.002 | 0.002 | 0.001 | 0.001 | 0.001 | 0.003 | 0.002 | 0.001 | 0.001 | 0.001 | 0.004 | 0.00159 | 0.0012 |
| Zinc | 0.021 | 0.013 | 0.03 | 0.016 | 0.017 | 0.013 | 0.134 | 0.026 | 0.048 | 0.073 | 0.078 | 0.095 | 0.006 | 0.025 | 0.01 | 0.008 | 0.014 | 0.025 | 0.00296 | 0.0017 |
| Chloride | 13 | 4,7 | 5.2 | 1.3 | 21 | 1.6 | 1,6 | 4 | 1.7 | 1,9 | 6.7 | 3,1 | 1.8 | 3.6 | 2.6 | 2.4 | 4,2 | 1.5 | 2 | 2 |
| Fluoride | 0.4 | 0.6 | 0.7 | 0.5 | 1 | 0.4 | 0.6 | 0.6 | 0.6 | 0.8 | 0.6 | 0.6 | 0.6 | 0.3 | 0.3 | 0.4 | 3.6 | 0.4 | 0.5 | 0.56 |
| Sulphate | 72.3 | 158.2 | 174.8 | 245.8 | 53.2 | 146.9 | 11.3 | 160.4 | 28.9 | 59 | 30.4 | 22.2 | 545.5 | 78.6 | 103.6 | 144.4 | 60.8 | 58 | 203 | 83,4 |
| Cadmium | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.000 |
| Chloride | 13 | 4.7 | 2.6 | 0.65 | 1.05 | 0.8 | 0.8 | 2 | 0.85 | 0.95 | 6.7 | 3.1 | 0.9 | 3.6 | 2.6 | 1.2 | 4.2 | 0.75 | 1 | 1 |
| Flouride | 0.4 | 0.6 | 0.7 | 0.5 | 1 | 0,4 | 0.6 | 0.6 | 0.6 | 0.8 | 0.6 | 0,6 | 0,6 | 0,3 | 0.3 | 0.4 | 3.6 | 0.4 | 0.025 | 0.56 |
| Mercury | 0.0001 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.0000247 | 0.00003 |
| Nickel | 0.004 | 0.003 | 0.002 | 0.001 | 0.0005 | 0.002 | 0.005 | 0.002 | 0.003 | 0.003 | 0.002 | 0.002 | 0.0005 | 0.001 | 0.0005 | 0.0005 | 0.006 | 0.002 | 0.00196 | 0.0013 |
| | TP07 | TP07 | TP09 | TP23 | TP24 | TP17 | TP18 | TP19 | TP20 | TP12 | TP13 | TP04 | TP03 | TP21 | TP22 | TP08 | TP01 | TP02 | TP14 | TP15 |
| Arsenic | 0.0049 | 0.00169 | 0.00504 | 0.00512 | 0.00501 | 0.0157 | 0.00762 | 0.00536 | 0.00486 | 0.00385 | 0.00565 | 0.00201 | 0.00377 | 0.00474 | 0.00458 | 0.00363 | 0.00513 | 0.00697 | 0.00352 | 0.003 |
| Barium | 0.0221 | 0.0391 | 0.0234 | 0.0239 | 0.0231 | 0.0153 | 0.02 | 0.0161 | 0.0171 | 0.0269 | 0.0098 | 0.0453 | 0.0211 | 0.0261 | 0.0256 | 0.0256 | 0.0229 | 0.033 | 0.0322 | 0.027 |
| Cadmium | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.00 |
| Chromium | 0.0032 | 0.00194 | 0.00286 | 0.00239 | 0.0034 | 0.00189 | 0.00243 | 0.00213 | 0.00476 | 0.00202 | 0.00309 | 0.00171 | 0.00236 | 0.00214 | 0.0016 | 0.00237 | 0.00245 | 0.00379 | 0.00372 | 0.0035 |
| Copper | 0.00713 | 0.00968 | 0.00971 | 0.00933 | 0.00951 | 0.0114 | 0.012 | 0.0105 | 0.0063 | 0.0123 | 0.0106 | 0.00708 | 0.00658 | 0.0111 | 0.0105 | 0.00778 | 0.00829 | 0.0125 | 0.00381 | 0.0037 |
| | 4,55E-05 | 0.0000163 | 0.0000628 | 0.0000376 | 0.0000175 | 0.0000154 | 0.0000487 | 0.0000204 | 0.00001 | 0.0000384 | 0.00002 | 0.0000182 | 0.0000193 | 0.0000564 | 0.0000466 | 0.000091 | 0.0000235 | 0.0000823 | 0.00001 | 0.00001 |
| Mercury | 4.00E-00 | | | | 0.00601 | 0.00505 | 0.00499 | 0.00253 | 0.00457 | 0.00675 | 0.00268 | 0.0118 | 0.00376 | 0.00538 | 0.00534 | 0.00816 | 0.00427 | 0.00437 | 0.00332 | 0.0029 |
| Mercury Molybdenum | 0.0058 | 0.00527 | 0.0211 | 0.00602 | 0.00601 | | | | | 0.00203 | 0.000929 | 0.00455 | 0.00181 | 0.00189 | 0.00199 | 0.00198 | 0.00193 | 0.00154 | 0.00221 | 0.001 |
| | | | 0.0211 0.00196 | 0.00602 | 0.00176 | 0.0039 | 0.00133 | 0.00119 | 0.00146 | 0.00203 | 0.000929 | | | | | | | | | |
| Molybdenum | 0.0058 | 0.00527 | | | | 0.0039 | 0.00133 0.00607 | 0.00119 0.00358 | 0.000146 | 0.00203 | 0.00342 | 0.000153 | 0.00322 | 0.00471 | 0.00473 | 0.00126 | 0.00263 | 0.00417 | 0.000924 | 0.0024 |
| Molybdenum Nickel | 0.0058 | 0.00527 | 0.00196 | 0.00158 | 0.00176 | | | | | | | | 0.00322 0.00325 | 0.00471 0.00556 | 0.00473 0.00643 | 0.00126 | 0.00263 | 0.00417 0.0128 | 0.000924 0.00791 | 0.0024 |
| Molybdenum Nickel Lead | 0.0058 0.00142 0.00185 | 0.00527 0.00399 0.00165 | 0.00196 | 0.00158 | 0.00176 0.00137 | 0.001 | 0.00607 | 0.00358 | 0.000216 | 0.00318 | 0.00342 | 0.000153 0.00697 0.00218 | | 0.00556 | | | | 0.0128 | | 0.0069 |
| Molybdenum Nickel Lead Antimony | 0.0058 0.00142 0.00185 0.00737 | 0.00527 0.00399 0.00165 0.00839 | 0.00196 0.00504 0.00809 | 0.00158 0.00251 0.00699 | 0.00176 0.00137 0.00905 | 0.001 0.00542 | 0.00607 0.00615 | 0.00358 | 0.000216 0.0134 | 0.00318 0.00734 | 0.00342 0.00681 | 0.000153 | 0.00325 | 0.00556 | 0.00643 | 0.0115 | 0.00763 | 0.0128 | 0.00791 | 0.0069 |
| Molybdenum Nickel Lead Antimony Selenium | 0.0058 0.00142 0.00185 0.00737 0.00161 | 0.00527 0.00399 0.00165 0.00839 0.000933 | 0.00196 0.00504 0.00809 0.00204 | 0.00158 0.00251 0.00699 0.00163 | 0.00176 0.00137 0.00905 0.00178 | 0.001 0.00542 0.0016 | 0.00607 0.00615 0.00201 | 0.00358 0.0108 0.00074 | 0.000216 0.0134 0.00096 | 0.00318 0.00734 0.00162 | 0.00342 0.00681 0.000837 | 0.000153 0.00697 0.00218 | 0.00325 0.00137 | 0.00556 | 0.00643 | 0.0115 0.00251 | 0.00763 | 0.0128 | 0.00791 0.00154 | |
| Molybdenum Nickel Lead Antimony Selenium Zinc | 0.0058 0.00142 0.00185 0.00737 0.00161 0.00199 | 0.00527 0.00399 0.00165 0.00839 0.000933 0.0115 | 0.00196 0.00504 0.00809 0.00204 0.00204 | 0.00158 0.00251 0.00699 0.00163 0.0026 | 0.00176 0.00137 0.00905 0.00178 0.00174 | 0.001 0.00542 0.0016 0.00319 | 0.00607 0.00615 0.00201 0.00428 | 0.00358 0.0108 0.00074 0.00393 | 0.000216 0.0134 0.00096 0.00041 | 0.00318 0.00734 0.00162 0.00835 | 0.00342 0.00681 0.000837 0.00374 | 0.000153 0.00697 0.00218 0.0117 | 0.00325 0.00137 0.00457 | 0.00556 0.00168 0.00477 | 0.00643 0.00109 0.00734 | 0.0115 0.00251 0.00435 | 0.00763 0.000766 0.00371 | 0.0128 0.00128 0.00436 2 0.5 | 0.00791 0.00154 0.00289 | 0.0069 |
| Molybdenum Nickel Lead Antimony Selenium Zinc Chloride | 0.0058 0.00142 0.00185 0.00737 0.00161 0.00199 2 0.5 78,4 | 0.00527 0.00399 0.00165 0.00839 0.000933 0.0115 2 0.5 514 | 0.00196 0.00504 0.00809 0.00204 0.00408 2 0.5 128 | 0.00158 0.00251 0.00699 0.00163 0.0026 2 0.5 67.4 | 0.00176 0.00137 0.00905 0.00178 0.00174 2 0.5 199 | 0.001 0.00542 0.0016 0.00319 2 0.5 22,4 | 0.00607 0.00615 0.00201 0.00428 2 | 0.00358 0.0108 0.00074 0.00393 2 0.5 17.6 | 0.000216 0.0134 0.00096 0.00041 2 0.5 216 | 0.00318 0.00734 0.00162 0.00835 2 0.5 139 | 0.00342 0.00681 0.000837 0.00374 2 0.5 7.24 | 0.000153 0.00697 0.00218 0.0117 2 0.702 516 | 0.00325 0.00137 0.00457 2 0.5 80,3 | 0.00556 0.00168 0.00477 2 0.5 161 | 0.00643 0.00109 0.00734 2 0.5 162 | 0.0115 0.00251 0.00435 2.03 0.5 194 | 0.00763 0.000766 0.00371 3.45 0.5 199 | 0.0128 0.00128 0.00436 2 0.5 96.7 | 0.00791 0.00154 0.00289 2 0.5 336 | 0.0069 0.0013 0.0039 2 0.5 261 |
| Molybdenum Nickel Lead Antimony Selenium Zinc Chloride Fluoride | 0.0058 0.00142 0.00185 0.00737 0.00161 0.00199 2 0.5 | 0.00527 0.00399 0.00165 0.00839 0.000933 0.0115 2 0.5 | 0.00196 0.00504 0.00809 0.00204 0.00408 2 0.5 | 0.00158 0.00251 0.00699 0.00163 0.0026 2 0.5 | 0.00176 0.00137 0.00905 0.00178 0.00174 2 0.5 | 0.001 0.00542 0.0016 0.00319 2 0.5 | 0.00607 0.00615 0.00201 0.00428 2 0.5 | 0.00358 0.0108 0.00074 0.00393 2 0.5 | 0.000216 0.0134 0.00096 0.00041 2 0.5 | 0.00318 0.00734 0.00162 0.00835 2 0.5 | 0.00342 0.00681 0.000837 0.00374 2 0.5 | 0.000153 0.00697 0.00218 0.0117 2 0.702 | 0.00325 0.00137 0.00457 2 0.5 | 0.00556 0.00168 0.00477 2 0.5 | 0.00643 0.00109 0.00734 2 0.5 | 0.0115 0.00251 0.00435 2.03 0.5 194 0.0005 | 0.00763 0.000766 0.00371 3.45 0.5 199 0.0005 | 0.0128 0.00128 0.00436 2 0.5 | 0.00791 0.00154 0.00289 2 0.5 | 0.0069 0.0013 0.0039 2 0.5 261 |
| Molybdenum Nickel Lead Antimony Selenium Zinc Chloride Fluoride Sulphate Cadmium Chloride | 0.0058 0.00142 0.00185 0.00737 0.00161 0.00199 2 0.5 78,4 0.0005 1 | 0.00527 0.00399 0.00165 0.00839 0.000933 0.0115 2 0.5 514 0.0005 1 | 0.00196 0.00504 0.00809 0.00204 0.00408 2 0.5 128 0.0005 1 | 0,00158 0.00251 0.00699 0.00163 0.0026 2 0.5 67.4 0.0005 1 | 0.00176 0.00137 0.00905 0.00178 0.00174 2 0.5 199 0.0005 1 | 0.001 0.00542 0.0016 0.00319 2 0.5 22.4 0.0005 1 | 0.00607 0.00615 0.00201 0.00428 2 0.5 49.4 0.0005 1 | 0.00358 0.0108 0.00074 0.00393 2 0.5 17.6 0.0005 1 | 0.000218 0.0134 0.00096 0.00041 2 0.5 216 0.0005 1 | 0.00318 0.00734 0.00162 0.00835 2 0.5 139 0.0005 1 | 0.00342 0.00681 0.000837 0.00374 2 0.5 7.24 0.0005 1 | 0.000153 0.00697 0.00218 0.0117 2 0.702 516 0.0005 1 | 0.00325 0.00137 0.00457 2 0.5 80,3 0.0005 1 | 0.00556 0.00168 0.00477 2 0.5 161 0.0005 1 | 0.00643 0.00109 0.00734 2 0.5 162 0.0005 1 | 0.0115 0.00251 0.00435 2.03 0.5 194 0.0005 2.03 | 0.00763 0.000766 0.00371 3.45 0.5 199 0.0005 3.45 | 0.0128 0.00128 0.00436 2 0.5 96.7 0.0005 1 | 0.00791 0.00154 0.00289 2 0.5 336 0.0005 1 | 0.0069 0.0013 0.0039 2 0.5 261 0.000 1 |
| Molybdenum Nickel Lead Antimony Selenium Zinc Chloride Fluoride Sulphate Cadmlum | 0.0058 0.00142 0.00185 0.00737 0.00161 0.00199 2 0.5 78.4 0.0005 | 0.00527 0.00399 0.00165 0.00839 0.000933 0.0115 2 0.5 514 0.0005 | 0.00196 0.00504 0.00809 0.00204 0.00408 2 0.5 128 0.0005 | 0,00158 0.00251 0.00699 0.00163 0.0026 2 0.5 67.4 0.0005 | 0.00176 0.00137 0.00905 0.00178 0.00174 2 0.5 199 0.0005 | 0.001 0.00542 0.0016 0.00319 2 0.5 22.4 0.0005 | 0.00607 0.00615 0.00201 0.00428 2 0.5 49.4 0.0005 | 0.00358 0.0108 0.00074 0.00393 2 0.5 17.6 0.0005 | 0.000216 0.0134 0.00096 0.00041 2 0.5 216 0.0005 | 0.00318 0.00734 0.00162 0.00835 2 0.5 139 0.0005 | 0.00342 0.00681 0.000837 0.00374 2 0.5 7.24 0.0005 | 0.000153 0.00697 0.00218 0.0117 2 0.702 516 0.0005 | 0.00325 0.00137 0.00457 2 0.5 80.3 0.0005 | 0.00556 0.00168 0.00477 2 0.5 161 0.0005 | 0.00643 0.00109 0.00734 2 0.5 162 0.0005 | 0.0115 0.00251 0.00435 2.03 0.5 194 0.0005 | 0.00763 0.000766 0.00371 3.45 0.5 199 0.0005 | 0.0128 0.00128 0.00436 2 0.5 96.7 0.0005 | 0.00791 0.00154 0.00289 2 0.5 336 0.0005 | 0.0069 0.0013 0.0039 2 0.5 261 0.000 |
| Molybdenum Nickel Lead Antimony Selenium Zinc Chloride Fluoride Sulphate Cadmium Chloride | 0.0058 0.00142 0.00185 0.00737 0.00161 0.00199 2 0.5 78,4 0.0005 1 | 0.00527 0.00399 0.00165 0.00839 0.000933 0.0115 2 0.5 514 0.0005 1 | 0.00196 0.00504 0.00809 0.00204 0.00408 2 0.5 128 0.0005 1 | 0,00158 0.00251 0.00699 0.00163 0.0026 2 0.5 67.4 0.0005 1 | 0.00176 0.00137 0.00905 0.00178 0.00174 2 0.5 199 0.0005 1 | 0.001 0.00542 0.0016 0.00319 2 0.5 22.4 0.0005 1 | 0.00607 0.00615 0.00201 0.00428 2 0.5 49.4 0.0005 1 | 0.00358 0.0108 0.00074 0.00393 2 0.5 17.6 0.0005 1 | 0.000218 0.0134 0.00096 0.00041 2 0.5 216 0.0005 1 | 0.00318 0.00734 0.00162 0.00835 2 0.5 139 0.0005 1 | 0.00342 0.00681 0.000837 0.00374 2 0.5 7.24 0.0005 1 | 0.000153 0.00697 0.00218 0.0117 2 0.702 516 0.0005 1 | 0.00325 0.00137 0.00457 2 0.5 80,3 0.0005 1 | 0.00556 0.00168 0.00477 2 0.5 161 0.0005 1 | 0.00643 0.00109 0.00734 2 0.5 162 0.0005 1 | 0.0115 0.00251 0.00435 2.03 0.5 194 0.0005 2.03 | 0.00763 0.000766 0.00371 3.45 0.5 199 0.0005 3.45 | 0.0128 0.00128 0.00436 2 0.5 96.7 0.0005 1 | 0.00791 0.00154 0.00289 2 0.5 336 0.0005 1 | 0.0069 0.0013 0.0039 2 0.5 261 0.000 1 |



Ferns Group Wrotham Quarry Addington, Kent

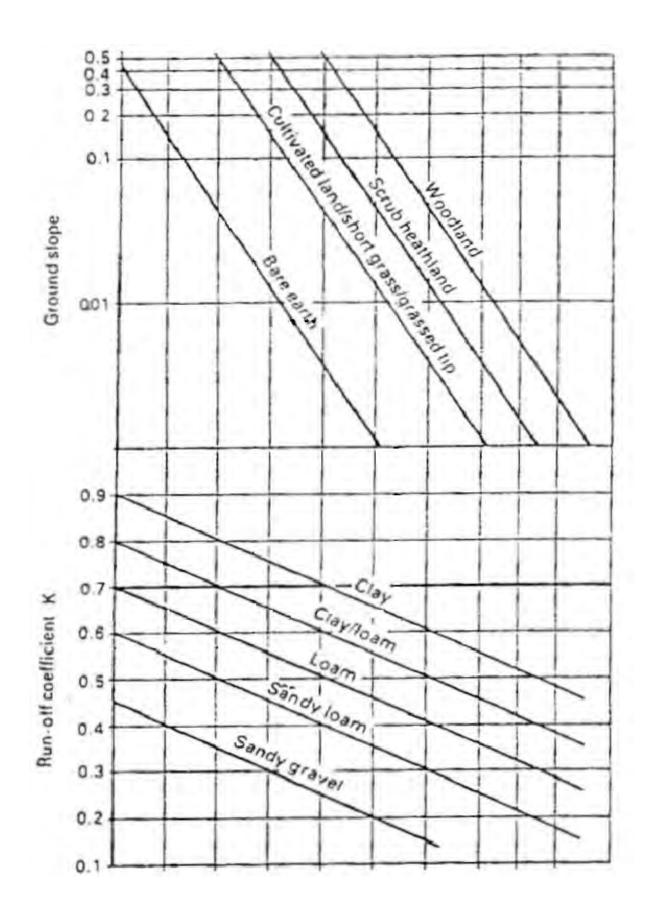
Environmental Permit Application Buttressing of Quarry Faces Using Inert Materials Hydrogeological Risk Assessment

Version 3 16th June 2022

Appendix 6 NCB Nomogram



Technology Centre, Wolverhampton Science Park, Glashier Drive, Wolverhampton West Midlands, WV10 9RU. Tel: 01902 824111, Fax: 01902 824112 email: info@bclhydro.co.uk, web: http://www.bclhydro.co.uk Registered Office: 33, Wolverhampton Road, Cannock, West Midlands, WV11 1AP Registered in England & Wales. Company Registration Number: 4043373





Ferns Group Wrotham Quarry Addington, Kent

Environmental Permit Application Buttressing of Quarry Faces Using Inert Materials Hydrogeological Risk Assessment

Version 3 16th June 2022

Appendix 7 Model Results



Technology Centre, Wolverhampton Science Park, Glashier Drive, Wolverhampton West Midlands, WV10 9RU. Tel: 01902 824111, Fax: 01902 824112 email: info@bclhydro.co.uk, web: http://www.bclhydro.co.uk Registered Office: 33, Wolverhampton Road, Cannock, West Midlands, WV11 1AP Registered in England & Wales. Company Registration Number: 4043373

iHRA Max Head

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Probability

Maximum Head Probability

| 0.127517 | 1 |
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| 0.143394 | 0.979592 |
| 0.16233 | 0.959184 |
| .171086 | 0.938776 |
| 0.182548 | 0.918367 |
| 0.188941 | 0.897959 |
| .194951 | 0.877551 |
| 0.200345 | 0.857143 |
| 0.204606 | 0.836735 |
| 0.210029 | 0.816327 |
| .215188 | 0.795918 |
| .219761 | 0.77551 |
| .223335 | 0.755102 |
| .227788 | 0.734694 |
| .232408 | 0.714286 |
| 0.236227 | 0.693878 |
| 0.240224 | 0.673469 |
| 245828 | 0.653061 |
| 0.249188 | 0.632653 |
| 0.25292 | 0.612245 |
| .256589 | 0.591837 |
| .259659 | 0.571429 |
| 0.264063 | 0.55102 |
| .268338 | 0.530612 |
| .272546 | 0.510204 |
| .277244 | 0.489796 |
| 0.282433 | 0.469388 |
| 0.287477 | 0.44898 |
| 0.291956 | 0.428571 |
| 0.295786 | 0.408163 |
| 0.299759 | 0.387755 |
| 0.303204 | 0.367347 |
| 0.30786 | 0.346939 |
| 0.312523 | 0.326531 |
| 0.317464 | 0.306122 |
| 0.323121 | 0.285714 |
| .328653 | 0.265306 |
| 334304 | 0.265506 |
| 0.338522 | 0.22449 |
| 0.336979 | 0.22449 |
| 0.353293 | 0.183673 |
| 0.36112 | 0.1836/3 |
| 0.369748 | 0.163265 |
| | |
| 0.376465 | 0.122449 |
| 0.381549 | 0.102041 |
| 0.390205 | 0.0816327 |
| 0.395923 | 0.0612245 |
| 0.410335 | 0.0408163 |
| 0.42413 | 0.0204082 |
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| 2 | 3277.21 | 3277.21 | 3277.21 | 3277.21 | 3277.21 | 3277.21 | 3277.21 |
| | 3277.21 | 3277.21 | 3277.21 | 3277.21 | 3277.21 | 3277.21 | 3277.21 |
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| 5 | 1989.32 | 1989.32 | 1969.32 | 1949.37 | 1989.32 | 1989.37 | 1969.37 |
| 8 | 1989.32 | | 1989.32 | 1989.32 | 1989.32 | 1989.32 | 1989.57 |
| 7 | | | 1903.32 | 1989.32 | 1905.32 | 1989.32 | 1989.52 |
| | 1989.32 | | 1903.32 | 1989.32 | 1989.32 | 1989.32 | 1969.52 |
| | 1989.32 | | 1903.32 | 1989.32 | 1989.32 | 1989.32 | 1969.57 |
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| 10 | 1989.32 | 1989.32 | 1909.32 | 1969_32 | 1989.32 | 1969.32 | 1989.32 |
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| 19 | 1989.32 | 1989.32 | 1969.37 | 1989.37 | 1989.32 | 1989.32 | 1989.37 |
| 21 | 1989.32 | 1989.32 | 1989.32 | 1989.37 | 1989.32 | 1989.32 | 1989.37 |
| 23 | 1989.37 | 1989.32 | 1989.32 | 1989.32 | 1989.32 | 1969.32 | 1969.37 |
| 25 | 1989.32 | 1989.32 | 1989.32 | 1989.32 | 1989.32 | 1969.32 | 1989.37 |
| 28 | 1989.37 | 1969.32 | 1989.32 | 1999.32 | 1989.32 | 1989.52 | 1969.37 |
| 32 | 1989.37 | 1989.32 | 1969.37 | 1989.37 | 1909.32 | 1989.32 | 1989.37 |
| 35 | 1989.32 | | 1989.32 | 1989.37 | 1989.32 | 1989.32 | 1989.32 |
| 39 | 1989.32 | | 1989.32 | 1989.32 | 1989.32 | 1989.32 | 1969.32 |
| 43 | 1989.32 | | 1989.32 | 1989.32 | 1989.32 | 1989.32 | 1969.32 |
| 47 | 1989.32 | 1969.32 | 1969.32 | 1989.32 | 1985.32 | 1989.32 | 1989.37 |
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| 52 | 1989.32 | | 1969.37 | 1989.37 | 1989.32 | 1989.32 | 1909.37 |
| 57 | 1989.32 | 1989.32 | 1969.32 | 1989.32 | 1989.32 | 1989.32 | 1909.37 |
| 64 | 1989.52 | | 1969.32 | 1985.32 | 1989.32 | 1989.32 | 2909.37 |
| 70 | 1989,32 | | 1969.32 | 1989.37 | 1989.32 | 1989,32 | 1989.32 |
| 78 | 1989.32 | 1989.32 | 1983.37 | 1989.32 | 1989.32 | 1989.32 | 1989.37 |
| 105 | 1989.32 | | 1983.37 | 1989.32 | 1989.32 | 1909.32 | 1989.37 |
| 95 | 1989.32 | 1989.32 | 1983.37 | 1989.32 | 1989.32 | 1989.32 | 2989.37 |
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| 115 | 1989.32 | 1989.32 | 1989.32 | 1989.32 | 1989.32 | 1989.32 | 1969.37 |
| 126 | 1989.32 | 1989.32 | 1969.52 | 1949.32 | 1989.32 | 1969.32 | 1969.37 |
| 141 | 1989.32 | 1989.32 | 1969.52 | 1909.32 | 1989.32 | 1969.32 | 1969.37 |
| 155 | 1989.32 | 1989.32 | 1969.52 | 1909.37 | 1989.32 | 1989.32 | 1969.37 |
| 172 | 1989.32 | 1989.32 | 1909.32 | 1989.32 | 1989.32 | 1989.32 | 1989.57 |
| 190 | 1989.32 | 1989.32 | 1989.32 | 1989.82 | 1989.32 | 1989.32 | 1989.57 |
| 210 | 1989.32 | 1989.32 | 1909.32 | 1989.32 | 1989.32 | 1989.32 | 1989.57 |
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| 300 | 1969.32 | | 1969.32 | 1999.32 | 1909.32 | 1969.32 | 1969.30 |
| 312 | 1989.32 | | 1989.32 | 1989.37 | 1989.32 | 1989.32 | 1969.32 |
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| 505 | 1989.32 | 1969.32 | 1989.37 | 1999.32 | 1989.32 | 1989.32 | 1999.37 |
| 624 | 1989.32 | 1989.32 | 1969.37 | 1983.32 | 1989.32 | 1989.32 | 1989.37 |
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| 761 | 1989.32 | 1989.32 | 1989.32 | 1989.32 | 1989.32 | 1989.32 | 2989.32 |
| 840 | 1989.32 | 1989.32 | 1989.32 | 1989.82 | 1989.32 | 1989.32 | 1969.32 |
| 928 | 1989.32 | 1969.32 | 1989.32 | 1989.32 | 1989.32 | 1989.32 | 1989.37 |
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| 5519 | 1969.32 | 1989.32 | 1969.32 | 1999.32 | 1909.32 | | 1969.32 |
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| 8202 | 1989.32 | | 1989.37 | 1989.37 | 1989.32 | 1989.32 | 1989.32 |
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| | 7.606-1 | | | 1.008-00 | 6.385-00 | 6.688+01 | 6.808-01 | 7.262-01 | 7.248-01 | 7 908-01 | 8.128-01 | 1.008-00 | 7.436-02 | 9 188-07 | 1.628-01 | 1.896-01 | 1.788-01 | 1.928-20 | 2.158-01 |
| | 7.596-0 | 14 5.985-04 | | 2.006+00 | 6.386+01 | 6.668+01 | 6.786+01 | 7.236+01 | 7.736-01 | 7.886+01 | 8.106-01 | 2.006-00 | 7.428-02 | 9.168-02 | 1.025-01 | 1.886-01 | 1.786-01 | 1.928-05 | 2.158-01 |
| | 7.596- | | | 3 008-00 | 6.378-00 | 6.646+01 | 6.758+01 | 7.238+01 | 7.718-01 | 7.875+01 | 8.076-01 | 5,008-00 | 7.406-02 | 9.158-02 | 1.028-01 | 1,386,01 | 1.776-01 | 1.906-01 | 2.146-01 |
| | 7,576-4 | | | 4.005-00 | 6.346-00 | 6.628-01 | 6.506-01 | 7.196+01 | 7.708-01 | 7.856+01 | 8.046-01 | 4.006-00 5.006-00 | 7,396-02 | 9.146-02 | 1.028-01 | 1,878-01 | 1,776-01 | 1,906-01 | 2,136-01 |
| | 7,425-4 | 1.065-04 | | 6.008-00 | 5.908+01 | 6.296+01 | 6.446-01 | 6.958-01 | 7.476-01 | 7.618-01 | 7.436-01 | 6.008-00 | 7.206-02 | 8.906-02 | 3.865-02 | 1.346-01 | 1.726-01 | 1.835-01 | 2.065-01 |
| | 7.158-4 | | | 7,006=00 | 5.656+01 | 6.118-01 | 6.262-01 | 6.858-01 | 7.348-01 | 7,525+01 | 7.766-01 | 7,006-00 | 7.096-02 | 8.776-02 | 9.718-02 | 1.518-01 | 1.706-01 | 1.815-01 | 2.056-01 |
| | 7,3064 | | | 8.005-00 | 5.306-00 | 5.91E+01 5.77E+01 | 6.128-01 | 6.746+01 | 7.248-01 | 7.425+01 | 7.696-01 | 8.006-00 | 7.096-02 | 8.5%6-02 | 9.546-02 | 1.296-01 | 1.646-01 | 1.796-00 | 2.005-01 |
| | 7.2364 | 8518-04 | | 1.008-01 | 4.638+00 | \$ \$58-01 | 5.818-00 | 6.546+01 | 7.106+01 | 7.246+01 | 7.548-01 | 1.006-01 | 6.856-02 | 8.256-02 | 9.138-02 | 1.266-01 | 1436-01 | 1.748-00 | 1.966-01 |
| | 7.196- | | | 1.105+01 | 4.356+00 | 5.336+01 | 5.656-05 | 6.458+01 | 7.018-01 | 7.158+01 | 7.476+01 | 1.105=01 | 6.778-02 | 8.076-02 | 8.976-02 | 1,248-01 | 1618-01 | 1.725-01 | 1.962-01 |
| | 7,1384 | | | 1.805-01 | 3.856+00 | 4.975+01 | 5.368+05 | 6.268+01 | 6.348-01 | 6.998+01 | 7.548-01 | 1.306-01 | 6.468-02 | 7.756-02 | 8.668-02 | 1.218-01 | 1588-01 | 1,675-00 | 1.926-01 |
| | 6.925- | | | 1.605-01 | 3 186+00 | 4.436+01 | 4.942-01 | 6.015+01 | 6.608-01 | \$.77E+01 | 7.156=01 | 1.605-01 | 5.896-02 | 7.256-02 | 8.246-02 | 1.168-01 | 1538-01 | 1.615-01 | 1.858-01 |
| | 6.2564 | | | 1.705-01 | 2.908+00 | 4,268+01 | 4.818-01 | 5.925+01 | 6.546-01 | 6.715+01 | 7.096-01 | 1.706+01 | 5.496-02 | 7,096-02 | 8.056-02 | 1.146-01 | 1.50(-01 | 1.605-00 | 1.836-01 |
| | 6.7254 | | | 2.106-01 | 2.628+00 | 3.976+01 | 4,538+01 | 5.752+01 5.596+01 | 6.276+01 | 6.455+01 | 6.970-01 | 1.900=01 | 5.196-02 | 6.776-02 | 7.796-02 | 1.118-01 | 14/6-01 | 1.576-01 | 1.786-01 |
| | 6.546- | | | 2.306=01 | 2.028+05 | 3.446+01 | 4,055-01 | 5.410-01 | 6.146-01 | 6.338+01 | 6.736-01 | 2.306-01 | 4,538-02 | 6.236-02 | 7.226-02 | 1.046-01 | 1418-01 | 1.505-01 | 1.726-01 |
| | 6.425- | | | 2.605-01 | 1.65E+01 | 8.096+01 | 3.69(-01 | \$.186+01 | 5.946-01 | 6.158+01 | 6.568-01 | 2.60€=01 | 3.966-02 | \$.788-02 | 6.725-02 | 1.005-01 | 1.376-01 | 1.458-01 | 1.676-01 |
| | 6.3664 | | | 2.808=01 | 1.448+01 | 2.878+01 2.496+01 | 3,468-01 | 5.028-01 | 5.830-01 | 6.048-01 | 6.458-01 | 2.808-01 3.206-01 | 1.558-02 | 5.48E-02 5.09E-02 | 6.498-02 | 9.806-02 | 1,346-01 | 1498-00 | 1.646-01 |
| | 6.05E-4 | 7.065-04 | | 3.506-01 | 8.996-00 | 2.228-01 | 2,796-01 | 4.516-01 | 5.448-01 | 5.668+01 | 6.118-01 | 3 506-01 | 2.426-02 | 4.706-02 | 5.636-02 | 8.996-02 | 1.246-01 | 1336-01 | 1.536-01 |
| | 5.8864 | | | 3.908-01 | 6.928+00 | 1.925+01 | 2.496+01 | 4.246+01 | 5.238+01 | 5.448+01 | 5.926-01 | 5.906-01 | 1.958-02 | 4.246-02 | 5.388-02 | 8.556-02 | 1196-01 | 1.286-01 | 1.408-01 |
| | 5.7154 | | | 4.305-01 | 5.325+00 | 1.648-01 | 2.218-01 | 4.015+01 | 5.046-01 | 5.238+01 | 5.736-01 | 4.305-01 4.705-01 | 1.586-02 | 1.73E-02 3.366-02 | 4.825-02 | 8.128-02 | 1.546-01 | 1.236-01 | 1.446-01 |
| | 5.406- | 6.355-04 | | 5.208+01 | 2.958+00 | 1.206+01 | 1.706+01 | 1.496+01 | 4.625-01 | 4.818+01 | 5.318-01 | \$ 206=01 | 9.655-00 | 2.858-02 | 3.976-02 | 7.236-02 | 1.058-01 | 1.125-00 | 1.325-01 |
| | 5.2364 | | | 5.706+01 | 2.136+00 | 9.985+00 | 1.476+01 | 3.236+01 | 4.425-01 | 4.606+01 | 5.106-01 | 5.706+01 | 7.296-03 | 2.458-02 | 3.578-02 | 6.838-02 | 1.005-01 | 1.086-01 | 1.265-01 |
| | 5.0464 | | | 8.40E+01 7.00E+01 | 1.346+00 | 7.758+00 | 1.005+01 | 2.918+01 | 4.128-01 | 4,838+03 | 4.816-01 4.605-01 | 6.40E+01 7.00E+01 | 4.976-05 | 2.006-02 | 3.036-02 | 6.268-02 5.825-02 | 9.336-42 | 1.026-00 | 1.195-01 |
| | 4.656.2 | | | 7.808-01 | 5.366-00 | 4.665+00 | 7.818-00 | 2.875+01 | 8.5%6-01 | 1.5 H -CL | 4.548+01 | 7.808-01 | 2,826-03 | 1.818-02 | 2.198-02 | 5 305-02 | 8.248-02 | 9.088-00 | 1.076-01 |
| | 4,452-1 | | | 8.605-01 | 3.178-00 | 3,490+00 | 6.256+00 | 2.105-01 | 3.328-01 | 3.578+01 | 4.076-01 | 8.606=01 | 1.505-03 | 1.068-02 | 1.806-02 | 4.828-02 | 7.668-02 | 8.536-02 | 1.026-01 |
| | 4,2664 | | | 9.505-01 | 1,766-00 | 2.526+00 | 4,785-00 | 1.855-01 | 3.01E-01 | 3.296+01 | 3.518-01 | 9.506+01 | 8,368-04 | 5.985-03 | 1 1456-02 | 4,336-02 | 7.506-02 | 7.908-00 | 9.516-02 |
| | 3.585- | | | 1.145-02 | 4.446-02 | 1.186-00 | 2.556-00 | 1.562-01 | 2.516-01 | 2.736+01 | 3.226-01 | 1.168-02 | 2.968-04 | 4,215-03 | 8.665-02 | 1.334-02 | 5.946-02 | 6.718-02 | 8.078-02 |
| | 3.666-6 | | | 1,285-02 | 2.026-02 | 7,625-01 | 1.796-00 | 1.136+01 | 2.246-01 | 2.466+03 | 2.956-01 | 1.286-02 | 1.588-04 | 2.996-03 | 6.385-03 | 2.896-02 | \$316-02 | 6.096-02 | 7.406-02 |
| | 1.396- | | | 1.412-02 | 8.615-00 | 4.768-01 | 1.228-00 | 9.332-00 | 1.986-01 | 2 186-01 | 2.676-01 | 1.418=02 | 7.962-05 | 2.018-03 | 4.610-03 | 2.476-02 | 4.846-02 | 5.556-02 | 6.746-02 |
| | 2.9764 | | | 1.728-02 | L136-03 | 1.556-01 | 4.886-01 | 5.846+00 | 148-01 | 1.678-01 | 2.116-91 | 1.726=02 | 1.546-05 | 7,896-04 | 2.126-08 | 1.686-02 | 3,745-02 | 4,328-02 | 5.416-02 |
| | 2.7664 | 3.435-04 | | 1.905-02 | 1.465-04 | 8.076-02 | 2.846-01 | 4.445+00 | 1.246-01 | 1.446+01 | 1.846-01 | 1.906-02 | 4.075-06 | 4.725-04 | 1386-03 | 1.356-02 | 3.246-02 | 1.836-02 | 4.818-02 |
| | 2.568-4 | 14 3.168-04 14 2.898-04 | | 2.108+02 | 9.338-05 1.238-05 | 5.91E-02 1.76E-02 | 1.578-01 | 5.298+00 | 1.025-01 | 1.228+01 | 1.596+01 | 2.108+02 | 2.048-06 | 2.668-04 | 8.478-04 4.908-04 | 1.068-02 | 2.766-02 | 3.278-02 | 4.576-02 |
| | 2.1464 | | | 2.568+02 | 4.578-06 | 7.386-02 | 4.005-02 | 1.662+00 | 6.540-00 | 8,268+00 | 1.178-01 | 2.548+02 | 1.645-07 | 6.675-05 | 2.675-04 | 5.875-03 | 1,005-02 | 2.196-02 | 3.016-02 |
| | 1.946-4 | 2.468-04 | | 2.628-02 | 8.838-07 | 2.686-03 | 1.858-02 | 1.136+00 | 5.218+00 | 6.645+00 | 9.246-00 | 2.826+02 | 3.956-08 | 1.018-05 | 1418-04 | 4236-08 | 1546-02 | 1.996-02 | 2.576-02 |
| | 1.846- | | | 1.006-02 | 2.558-07 | 1.506-03 | 1.066-02 | 8.568-01 | 4.405-00 | 5.708+00 | 8.058-00 | 3.00E+02 | 1.482-08 | 1.74E-05 | 3 128-05 | 3.368-03 | 1.346-02 | 1.696-02 | 2.266-02 |
| | 1,775-4 | | | 3 446 -02 | 1.165-07 | 9,715-04 | 7.526-03 | 7.136-01 | 2.915-00 | 5.156+00 | 7,346+00 | 8.125=02 | 7.638-09 | 1.206-05 | 6.825-05 | 2.918-03 | 1.218-02 | 1.546-02 | 2,105-02 |
| | 1.436-4 | 1 1718-04 | | 3.806-01 | 1,346-09 | 8.185-05 | 3.418-04 | 2,588-01 | 2.076-00 | 2.885+00 | 4.402-00 | 3.806-02 | 1,858-00 | 1,506-06 | 1.318-05 | 1,258-08 | 7,118-05 | 9,576-03 | 1,306-02 |
| | 1.2964 | | | 4.208-02 | 9.766-11 | 1.905-05 | 2.965-04 | 1.425-01 | 1.425-00 | 2.056+00 | 3.266-00 | 4.206-02 | 2.078-11 | 4.435-07 | 4.932-06 | 7.618-04 | 5.176-08 | 6.938-03 | 1.096-02 |
| | 1.1964 | | | 4.648-02 | 5.456-12 | 3.818-04 6.625-07 | 7.505-05 | 7.328-02 | 9.356-01 | 1.455-00 | 2,346+00 | 4,646+02 5,126+02 | 1.868-12 | 1.156-07 | 1.646-06 | 4.428-04 | 3.706-08 | 5.056-03 | 8.145-03 |
| | 1.0964 | | | 5.658-02 | 7.246-25 | 9.566-06 | 3.948-06 | 1.606-02 | 8.618-01 | 5.946-01 | 1.090-00 | 5.456-02 | 2.396-15 | \$ 288-09 | 1.946-07 | 1275.04 | 1.676-03 | 2.446-03 | 4.296-03 |
| | 1.056-4 | | | 6.246+02 | 1.518-16 | 1.115-06 | 6.838-07 | 6.658-03 | 2.066-01 | 1.596-01 | 7.006-01 | 6.246+02 | 2.928-16 | 8.846-10 | 3 206-06 | 6.088-05 | 1056-03 | 1.615-00 | 2.916-03 |
| | 1.0154 | | | 6.8%=02 | 2.136-18 | 1.046-09 | 5.905-05 | 2.496-03 | 1136-01 | 2.066-01 | 4.296-01 | 6.896+02 | 8.325-38 | 1.236-10 | 6.446-09 | 2,496-05 | 6.362-04 | 1.025-08 | 1.956-03 |
| | 9.518- | | | 8.405+02 | 1.076-22 | 4.186-12 | 1.126-09 | 2 536-04 | 2,706-02 | 5.662-02 | 1.376-01 | 8.406+02 | 2.146-21 | 1.278-12 | 1.546-10 | 4148-06 | 1.965-04 | 1425-04 | 7.538-04 |
| | 9.2964 | | | 9.285-02 | 3.336-25 | 1.696-13 | 8.366-11 | 6.946-05 | 1,176-02 | 2.676-02 | 7.056-02 | 9.286-02 | 1.796-29 | 8.836-14 | 1.796-11 | 1.385-06 | 8.906-05 | 1946-04 | 4.2(6-04 |
| | 9.258-4 | | | 1.005-03 | 2.965-27 6.145-28 | 1.228-14 | 9.618-12 4.718-12 | 2.576-05 | 5.936-03 | 1.458-02 | 4.086-02 | 1.005+03 | 1.156-25 | 9.97E-15 4.82E-15 | 2.958-12 | 5.63E-07 6.13E-07 | 5.68E-05 4.72E-05 | 1.152-04 | 2.662-04 |
| | 9.068-4 | 1 136-04 | | 1.136-08 | 0.008+00 | 1.025-16 | 1.966-13 | 3.318-06 | 1,728-08 | 4.725-03 | 1.518-02 | 1.136-03 | 2.588-28 | 1.836-16 | 1.166-13 | 1.116-07 | 2.036-05 | 4.396-05 | 1.185-04 |
| | 1.675- | | | 1.258+08 | 0.005-00 | 1.386-18 | 5.896-25 | 5.606-07 | 5.618-04 | 1.725-03 | 6.16E-03 | 1.256+03 1.346+03 | 0.00E+00 | 4.925-18 | 6.276-25 | 2.565-08 | 8.106-06 | 1.916-05 | 5.5HE-05 2.418-05 |
| | 8.5064 | | | 1.546-00 | 0.006-00 | 1.206-20 | 1.248-25 | 7 90E-08 9.03E-09 | 1.646-04 | 5.68E-04 1.66E-04 | 2.296-03 7.696-04 | 1.546-03 | 0.006+00 | 9.176-20 | 2.528-16 | 8.428-10 | 3.008-06 | 7 566-06 | 2.436-05 |
| | 8.1764 | 1.136-04 | | 1.685-00 | 0.005-00 | 1.965-25 | 1,575-20 | \$365-10 | 9.546-06 | 4.306-05 | 2.325-04 | 1.686-03 | 0.006+00 | 8.776-24 | 1.455-19 | 1.168-10 | 2.666-07 | 9.696-07 | 3.608-06 |
| | 7.5764 | | | 1.846-05 | 0.008-00 | 5.296-28 | 8.668-23 | 5.996-11 3.228-12 | 1.846-06 | 9.652-06 | 4.136-05 1.416-05 | 1.866-03 | 0.008+00 | 4.115-26 | 1.918-21 | 1.298-11 | 7.226-08 | 2.928-07 | 1.218-06 |
| | 7,7184 | | | 2.266+03 | 0.00(+00 | 0.000 +000 | 4.856-28 | 1.306-13 | 3.886.48 | 2.968-07 | 2,796-06 | 2.266-05 | 0.006-00 | 0.000+00 | 8.376-26 | 7.556-14 | 2.916-09 | 1.628-08 | 3.645-08 |
| | 7,6264 | 05 1.13E-04 | | 2.506+03 | 0.008+00 | 0.006+000 | 0.008+00 | 3.726-45 | 4.198-09 | 3.948-08 | 4.656-07 | 2.506+03 | 0.008-00 | 0.008+00 | 2.588-28 | 3.978-15 | 4.688-10 | \$.08E-09 | 2.228-06 |
| | 7,468-4 | | | 2.768-03 | 0.006+00 | 0.005+00 | 0.005-00 | 7,415-17 | 3.618-10 3.736-11 | 4.118-09 | 6.452-08 | 2,768=03 | 0.005+00 | 0.005+00 | 0.005-00 | 1.546-16 | 6.12E-11 9.28E-12 | 4.952-12 | 4.346-09 |
| | 7,468-4 | | | 3.008-03 | 0.000+00 | 0.000+00 | 0.008-00 | 2,836-12 | 2.416-11 | 3.728-10 | 7.308-09 | 3.056-03 | 0.008-00 | 0.000+000 | 0.008-00 | 4.296-18 | 5.476-12 | 5.495-11 | 7.156-10 |
| | 7,468-4 | 5 1.138-04 | | 3.362-03 | 0.006+00 | 0.000 +000 | 0.008-00 | 8.296-21 | 1.226-12 | 2.488-11 | 6.576-10 | 8.368+03 | 0.006+00 | 0.005+00 | 0.008-00 | 8.218-20 | 5.348-13 | 4.885-12 | 9.746-11 |
| | 7.562- | | | 3.715=03 | 0.006+00 | 0.000+000 | 0.008+00 | 4.196-23 | 4,435-14 | 1.246-12 | 4.578-11 | 8.715=03 | 0.006+00 | 0.000+000 | 0.005-00 | 1.016-21 | 1.476-14 | 5.806-13 | 1.076-11 |
| | 7,3664 | | | 4105-08 | 0.00E+00 | 0.005+00 | 0.005-00 | 1.258-25 | 1.156-15 | 4.548-14 | 2,446-12 9,536-14 | 4,10(+0) 4,516+03 | 0.005+00 | 0.005+00 | 0.005-00 | 8,296-24 4 018-26 | 1.696-15 5.996-17 | 2.016-15 | 9.476-18 6.465-14 |
| | 7.368- | | | 5.008-03 | 0.006+00 | 0.000+000 | 0.005-00 | 0.000+000 | 2,378-19 | 2.128-17 | 2.656-15 | 5.000-03 | 0.006+00 | 0.000+000 | 0.008-00 | 1115-28 | 1.495-18 | 7.136-17 | 3.996-15 |
| | 7,226-4 | | | 5.525+08 | 0.006-00 | 0.006-00 | 0.006-00 | 0.005+00 | 1746-21 | 2.506-19 | 5.10E-17 6.48E-19 | 5.526+03 | 0.00E+00 0.00E+00 | 0.005+00 | 0.005-00 | 0.005+00 | 2.546-20 | 1,796-18 | 1.336-16 |
| | 6.546- | | | 6.090-03 | 0.005+00 | 0.005-00 | 0.005-00 | 0.005+00 | 7.625-24 | 1.828-21 7.946-24 | 6.48E-19 5.26E-21 | 6.090-03 | 0.008+00 | 0.005-00 | 0.008-00 | 0.000+00 | 2,836-22 | 1.006-30 | 1.706-18 |
| | 6.0464 | 1 125-04 | | 7.438-08 | 0.008+00 | 0.006+00 | 0.005-00 | 0.000+00 | 2.566-29 | 1.996-26 | 2.588-23 | 7,436=03 | 0.006+00 | 0.006+00 | 0.008-00 | 0.006+00 | 8.266-27 | 2.828-24 | 8.626-22 |
| | 5.6184 | | | 8.206-03 | 0.006+00 | 0.006-00 | 0.006-00 | 0.006+00 | 0.008-00 | 2.646-29 | 7.26E-26 | 8.206-03 | 0.005-300.0 | 0.006+00 | 0.006-00 | 0.006+00 | 1,936-29 | \$ \$26-27 | 6.096-24 |
| | 5.186-0 | | | 9.068-08 | 0.005-00 | 0.005+00 | 0.005-00 | 0.006+00 | 0.008-00 | 0.005+00 | 1.126-28 | 9.062-03 | 0.005+00 | 0.005+00 | 0.005-00 | 0.006+00 | 0.006-00 | 2.226-29 | 3.356-26 |
| | 4.746-4 | 1.125-04 | | 1.005-04 | 6.005+00 | 0.006+00 | 0.005-00 | 0.000 +00 | 0.005-00 | 0.005+00 | 0.008-00 | 1.006=04 | 0.008+000 | 0.005+00 | 0.006 -00 | 0.006+00 | 0.005-00 | 0.006+00 | 9.268-29 |
| | 4.306-4 | | | 1.105-04 | 0.008+00 | 0.006+000 | 0.008+00 | 0.000+00 | 0.008+00 | 0.000 +00 | 0.000-00 | 1.106-04 | 6.00E+00 | 0.000 +00 | 0.005-00 | 0.006+00 | 6.008-00 | 0.008+00 | 0.008+00 |
| | 1.966-0 | | | 1.228+04 | 0.006+00 | 0.005+00 | 0.008-00 | 0.006+00 | 0.005-00 | 0.005+00 | 0.005-00 | 1.225+04 | 0.005+00 | 0.005+00 | 0.005-00 | 0.005+00 | 0.005-00 | 0.005+00 | 0.005+00 |
| | 3,438-4 | | | 1.352-04 | 0.008+00 | 0.006+00 | 0.008-00 | 0.008+00 | 0.008-00 | 0.008+00 | 0.008-00 | 1.356-04 | 0.008+00 | 0.008+00 | 0.008-00 | 0.00E+00 | 0.008-00 | 0.008+00 | 0.008-00 |
| | 2.606- | 1 121-04 | | 1.646+04 | 0.005+00 | 0.000 +000 | 0.005-00 | 0.006+00 | 0.005-00 | 0.005+00 | 0.005-00 | 1.645+04 | 0.006+00 | 0.005+00 | 0.005-00 | 0.006+00 | 0.006-00 | 0.006+00 | 0.005+00 |
| | 2,2164 | | | 1.818-04 | 0.006-00 | 0.006-00 | 0.008-00 | 0.006+00 | 0.005-00 | 0.005-00 | 0.005-00 | 1.818-04 | 0.005-00 | 0.006+00 | 0.005-00 | 0.000+00 | 0.006-00 | 0.005+00 | 0.006+00 |
| | 1.0024 | 1 1 1 1 1 0 4 | | -000-004 | 0.008+00 | 0.006+000 | 0.008+00 | 00+100 | 0.008-00 | 0.008+00 | 0.008+00 | 2.006*04 | ~ 308 + 900 | 0.008+00 | 1008-000 | 0.000+00 | 3 006 = 00 | 0.005+00 | 1006+00 |

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| 995 Percentile | Time locard | Lat Percentil | 5th Percenti | 10th Parquet | SOIN Percent | SOIS Parcent | 15th Parcen | 19th Percentile | Time lyaars1 | Let Percentil | 5th Percenti | 12h Percer | SOD Fanjant | 10th Percent | 15th Perceni | 19th Percen |
| 0,008-00 | 0.008-00 | 0.00(+00 | 0.008-00 | 0.006-00 | 0.006+00 | 0,008-90 | 0.006+00 | 0.006+00 | 0.006+00 | 0.008-00 | 0.008+00 | 0.008+00 | 0.005-00 | 0.006+00 | 0.008-00 | 0.006+00 |
| 0.005-00 | 1.006-00 | 0.000-00 | 0.006-00 | 0.008-00 | 0.005+00 | 5.368-17 | 2.095.16 | 1.905-04 | 1,006+00 | 0.006+00 | 0.005+00 | 0.006+00 | 0.006-00 | D-00E+00 | 0.005-00 | 0.008-00 |
| 0.005-00 | 2.005-00 | 0.008+00 | 0.006-00 | 0.006-00 | 3.436-15 | 8.995-10 | 2,905-09 | 6.566-08 | 2.005+00 | 0.005-00 | 0.008+00 | 0.006+00 | 0.005-00 | 0.005+00 | 0.006-00 | 0.008+00 |
| 0.000+00 | 4.005-00 | 7 214-00 | 1425-00 | 1.578-07 | 2.826-05 | 4 196-04 | 1.405-00 | 2.146-02 | 4.005+00 | 0.006-00 | 0.008+00 | 0.006+00 | 0.005-00 | 0.006+00 | 0.006+00 | 0.008-00 |
| 0.005-00 | 5.008-00 | 1.365-04 | 5.962-04 | 1,415-08 | 1.876-02 | 7.588-02 | 9.005-00 | 1286-01 | 5.006+00 | 0.006+00 | 0.005+00 | 0.006+00 | 0.006-00 | 0.008+00 | 0.005+00 | 0.008-00 |
| 0.005-00 | 6.006-00 | 2.266-05 | 8.905-03 | 1.445-02 | 7.216-02 | 1.005-01 | 2.226-01 | 2.936-01 | 6.008+00 | 0.006+00 | 0.005+06 | 0.008+00 | 0.006-00 | 0.005+00 | 0.005+00 | 0.006+00 |
| 0.005+00 | 7.006-00 8.008-00 | 3.678-02 | 2,978-02 | 4.068-02 | 1.846-01 | 2,878-01 | 3 628-05 | 4.636-01 | 7.000+00 | 0.006-00 | 0.008+00 | 0.006+00 | 0.008-00 | 0.005+00 | 0.008-00 | 0.008+00 |
| 0.006-00 | 9.005-00 | 2.048.402 | 1412-02 | 4.718.402 | 1,796-01 | 4.996-01 | 5.685.05 | 2.496-01 | 9.005+00 | 0.008+00 | 0.008+00 | 0.006+00 | 0.008-00 | C-D0E+00 | 0.006-00 | 0.000+00 |
| 0.008-00 | 1.006-01 | 1.806-02 | 2.896-02 | 8.856.42 | 1.518-01 | \$ 258-01 | 4.506-05 | 8.285-25 | 1.008+01 | 0.008-000 | 0.006+00 | 0.006+00 | 0.008-000 | D.DOE+00 | 0.006+00 | 0.008+000 |
| 0.008-00 | 1.10(+01 | 1.668-02 | 2.576-02 | 3.528 402 | 1,376-01 | 4,875-01 | 6.040-05 | 8.90E-01 8.506-01 | 1.008-05 | 0.006-00 | 0.008+00 | 0.006+00 | 0.008-00 | 0.006+00 | 0.006-00 | 0.006-00 |
| 0.001-00 | 1.406-01 | 1.605-00 | 2436-02 | 8.356.402 | 1,296-01 | 4 106-01 | 5.866-05 | 8.346-01 | 1.405+05 | 0.005-00 | 0.008-00 | 0.006+00 | 0.006-00 | 0.005+00 | 0.006+00 | 0.006-00 |
| 0.008-00 | 1.606-01 | 1.565-02 | 2.348-02 | 3.268-02 | 1.246-01 | 3.968-01 | 5.596-01 | 8.046-01 | 1.608-01 | 0.000-00 | 0.008-00 | 0.006+00 | 0.006-00 | 0.008+00 | 0.005-00 | 0.008-00 |
| 0.006-00 | 1.706-01 | 1.536-02 | 2.346-02 | 1.216-02 | 1.246-01 | 1.958-01 | \$.\$26-01 | 7.925-01 | 1.706-01 | 0.006+00 | 0.006-00 | 0.006+00 | 0.005-00 | 0.005+00 | 0.00E=00 | 0.008-00 |
| 0.996+90 | 1.906=01 | 1.496-02 | 2.288-02 | 3.146-02 | 1.218-01 | 3.856-01 | 5.346-01 | 7.78E-01 7.63E-01 | 1.908+01 | 0.005-00 | 0.008-00 | 0.008+00 | 0.005-00 | 0.008+00 | 0.008-00 | 0.008-00 |
| 0.008-00 | 2.306-01 | 1.365-02 | 2.168-02 | 2.976-02 | 1345-01 | 1436-01 | 5.118-01 | 7.496-01 | 2.308+01 | 0.006+00 | 0.008-00 | 0.008+00 | 0.005-00 | 0.008+00 | 0.005+00 | 0.008-00 |
| 0.008-00 | 2.606-01 | 1.362-02 | 2.138-40 | 2.858-02 | 1.526-01 | 3 548-01 | 4,985-01 | 7.316-01 | 2.606+05 | 0.008+00 | 0.008-00 | 0.008+00 | 0.006-00 | 0.005+00 | 0.00E+00 | 0.008-00 |
| 0.000-00 | 2.808+01 3.206+01 | 1.328-02 | 2.078-02 | 2.768-02 | 1.106-01 | 1.508-01 | 4,955-01 | 7.236-01 | 2.808+01 | 0.008-00 | 0.008+00 | 0.000+00 | 0.008-00 | 0.008+00 | 0.008-00 | 0.008-00 |
| 0.008+00 | 3.508-01 | 1.296-02 | 1.996-02 | 2.625-02 | 1045-01 | 1,195-01 | 4.586-01 | 6.805-01 | 3.505+05 | 0.006+00 | 0.006+00 | 0.006+00 | 0.006-00 | 0.008+00 | 0.006+00 | 0.006+00 |
| 0.008-00 | 3.906-01 | 1.546-02 | 1.886-02 | 2.546-02 | 1.015-01 | 3.166-01 | 4,438-01 | 6.705-01 | 3.908+01 | 0.006+00 | 0.005+00 | 0.006+00 | 0.006-00 | 0.005+00 | 0.005+00 | 0.006+00 |
| 0.005-00 | 4.305-01 | 1.066-02 | 1.796-02 | 2.446-02 | \$ 706-02 | 3.046-01 | 4.246-01 | 6.516-01 | 4.305-00 | 0.006+00 | 0.005+00 | 6.005+00 | 0.005-00 | 0.006+00 | 0.005+00 | 0.006+00 |
| 0.008-00 | 4.708=01 5.206=01 | 5.756-00 6.666-00 | 1678-02 | 2.196-02 2.176-02 | 9.336-02 8.776-02 | 2.918-01 | 4.076-01 | 6.315-01 | 4.708+01 | 0.005-00 | 0.008-00 | 6.008+00 | 0.005-00 | 0.008-00 | 0.006-00 | 0.008-00 |
| 0.008-00 | \$.706-01 | 7.686-05 | 1.446-02 | 2.026-02 | 8.236-02 | 2,968-01 | 3.668-05 | 5.808-01 | \$ 706+05 | 0.008-00 | 0.006+00 | 0.006+00 | 0.000 -00 | 0.000+00 | 0.000=00 | 0.006+00 |
| 0.008-00 | 6.408-01 | 6.265-03 | 1.216-02 | 1.846-02 | 7 666-02 | 2,528-01 | 25-846-25 | 5.628-02 | 6.408+01 | 0.008+00 | 0.006+00 | 0.006+00 | 0.008-00 | 0.008+00 | 0.006-00 | 0.008-000 |
| 0.008-00 | 7.006-01 7.806-01 | 4,875-03 | 1,238-02 | 1.728-02 | 7.296-02 | 2,306-01 | 3.228-05 | 5.376-01 | 7,000+05 | 0.006-00 | 0.000+00 | 0.008+00 | 0.008-00 | 0.008+00 | 0.005-00 | 0.006-00 |
| 0.008-00 | 7.808-01 # 608-01 | 1 425-03 | 1 139-02 | 1.468.402 | 6.285-02 | 2.186-01 | 2.876-05 | 4.826-01 | 7.80E+05 8.60E+05 | 0.008-00 | 0.008+00 | 0.006+00 | 0.008-00 | 0.008+00 | 0.006-00 | 0.008-00 |
| 0.008-00 | 9.505-01 | 2.958-03 | 8.046-03 | 1.858.02 | 5.525-22 | 2.088-01 | 2.725.00 | 4.606-01 | \$.506+01 | 0.005-000 | 0.005+00 | 0.006+00 | 0.005-00 | 0.000 +00 | 0.006+00 | 0.008-00 |
| 0.000 -00 | 1.096-02 | 2.075-03 | 7.885-03 | 1.225-02 | 5.475-02 | 1.946-01 | 2,958-01 | 4,366-21 | 1.056+02 | 0.005-00 | 0.006+00 | 0.006+00 | 0.005-00 | 0.006+00 | 0.005+00 | 0.006+00 |
| 0.008-00 | 1.148-02 | 1.425-00 | 5.546-03 | 1.076-02 | 5.005-02 | 1.796-01 | 2.346-01 | 4.078-01 | 1.168+02 3.2M+02 | 0.005+00 | 0.005+00 | 0.000+00 | 0.005-00 | 0.008+00 | 0.005+00 | 0.008+00 |
| 0.008-00 | 1401-02 | 7 578-04 | 4.462-03 | 8.008-03 | 4.058-02 | 1.496-01 | 2.068-01 | 3.496-01 | 1.418+02 | 0.008-00 | 0.000+00 | 0.008+00 | 0.005-00 | 0.008+00 | 0.008+00 | 0.008+00 |
| 0.005-00 | 1.548-02 | 4.978-04 | 3.478-08 | 6.476-03 | 3 546-02 | 1.118-01 | 1.876-01 | 3-216-01 | 1.548+02 | 0.000+000 | 0.008+00 | 0.008+00 | 0.006-00 | 0.005+00 | 0.006 +00 | 0.006+00 |
| 0.006+00 | 1.728-02 | 3196-04 | 2.638-03 | 5.196-03 | 3.106-02 | 1.171.01 | 1.631-01 | 2.906-01 | 3.728+00 | 0.006+00 | 0.006+00 | 0.000+00 | 0.008-00 | 0.006+00 | 0.006+00 | 1.965-18 |
| 0.008-00 | 1.908+02 | 1.796-04 | 1.146.03 | 4 186-05 | 2.646-02 | 1.028-01 | 1.485-01 | 2.636-03 2.11M-05 | 1.908+02 | 0.006-00 | 0.008+00 | 0.008+00 | 0.008-00 | 0.005+00 | 0.008-00 | 1.965-16 |
| 0.008-00 | 2.326-02 | 3 375-05 | 5,228-04 | 2,425-01 | 1.805-00 | 7.665-02 | 1,116-01 | 2.116-01 | 2.326+02 | 0.006+00 | 0.008+00 | 0.006+00 | 0.005-00 | 0.005+00 | 0.006-00 | 1.605-12 |
| 0.006-00 | 2.566-02 | 1296-05 | 5.562-04 | 1.726-03 | 1.596-02 | 6.685-02 | 1.686-02 | 1.906-01 | 2.566+02 | 0.006-00 | 0.005+00 | 0.006+00 | 0.005-00 | 0.006+00 | 0.005-00 | 8.896-11 |
| 0.006-00 | 2.828=02 | 4.505-06 | 3.136-04 | 1.146-03 | 5.276-02 | 5.625-02 | 8 186-02 | 1.676-01 | 2.828+02 | 0.005+00 | 0.008-08 | 0.008+00 | 0.006-00 | 0.005+00 | 0.006-00 | 5.826-10 |
| 0.008-00 | 3.138-02 | 4 962-07 | 1.012-04 | 4.708-04 | 7.496-03 | 3.662-52 | 5.548.422 | 1.116-01 | 1.526+02 | 0.008-00 | 0.005+00 | 2.005+00 | 0.008-00 | 5.008+00 | 0.005+00 | 6.716.09 |
| 0.008-00 | 1441-02 | 1586-07 | 4.725-05 | 2,828,04 | \$ 516-25 | 1176-02 | 4 540 02 | 8.936-02 | 3.440+02 | 0.006-00 | 0.000+00 | 0.008+00 | 0.005-00 | 0.008+00 | 0.006+00 | 4 138 -08 |
| 0.008-00 | 3.806-02 | 4,735-08 | 2.028-05 | 1.552-04 | 4 065-00 | 2.528-02 | 3.458-02 | 7.5M-02 | 3.808+02 | 0.006~00 | 0.006+00 | 0.006+00 | 0.005-00 | 0.008+00 | 0.005-00 | 1.258-07 |
| 0.000-00 | 4.208=02 | 1.268-08 | 1446-06 | 8.346-05 | 2.525-00 | 1.998-02 | 2.768-02 2.156-02 | 6.258-82 5.278-82 | 4.208+02 | 0.005-00 | 0.008+00 | 0.008+00 | 0.005-00 | 0.005+00 | 0.005-00 | 2.676-07 |
| 0.008-00 | 5.128+02 | 7.968-30 | 1.525-06 | 2.278-05 | 1 542-00 | 1.178-02 | 1.746-02 | 4.536-02 | 5.325+02 | 0.006+00 | 0.008+00 | 0.000+00 | 0.008-00 | 0.005+00 | 0.000-00 | 8.005-07 |
| 0.006+00 | \$.656+02 | 2.948-37 | 7.078-07 | 1.436-05 | 3.196-00 | 9.568-03 | 1,476-02 | 3.796-02 | 5.658+00 | 0.005+90 | 0.006+00 | 0.008+00 | 0.006-000 | 0.008+00 | 0.005+00 | 1.186-06 |
| 0.006-00 | 6.248-02 | 9 562-11 | 3.318-07 | 6.805-06 | 1.482-04 | 7.362-03 | 1.178-02 | 3.016-02 | 6.246+02 | 0.006+00 | 0.005+00 | 0.008+00 | 0.008-00 | 0.005+00 | 5.00E+00 | 1.608-06 |
| 0.000-00 | 4.890+02 7.408+02 | 1.994-11 | 1.058-07 | 2.548-06 9.528-07 | 5.046-04 | 5.30E-03 L496-03 | 8.456-03 | 2.298-02 | 6.896+02 7.616+02 | 0.006-00 | 0.005+00 | 0.000+00 | 0.006-00 | 0.005+00 | 1.126-18 | 2.008-06 |
| 0.008-00 | 8.406-02 | 1.976-14 | 6.096-20 | 2546-07 | 1.536-04 | 2.455-02 | 3.715-03 | 1.156-02 | 8.406-02 | 0.005+00 | 0.000+000 | 0.006+00 | 0.005-00 | 0.005+00 | 1.425-04 | 2.648-06 |
| 0.008-00 | 9.288-02 | 3.575-14 | 1326-09 | 4.535.05 | 7.706-05 | 1.555-03 | 2,415-08 | 7.626-08 | 9.268+02 | 0.006-00 | 0.008+00 | 0.006+00 | 0.006-000 | 0.006+00 | 4.396-13 | 4.205-06 |
| 0.000-00 | 1.005-03 | 0.008-00 | 3.405-00 | 1.975-08 | 3.556-25 | 3:068-04 | 1.445-01 | 4.966-00 | 1.006-00 | 0.005-00 | 0.005-00 | 0.000-00 | 0.005-00 | 0.000+00 | 4.706-12 | 5.396-06 |
| 0.008-00 | 1.134-03 | 2.175-13 | 3.156-10 | 2,956-09 | 6.086-06 | 3.238-04 | 5.265-04 | 1.786-08 | 1.136-00 | 0.008-00 | 0.008+00 | 0.008+00 | 0.006-00 | 0.000+00 | 6.726-11 | 8.176-06 |
| 0.005-00 | 1.258-08 | 6.905-11 | 2.058-10 | 1.095-09 | 2 225-06 | 1.462-04 | 2.455-04 | 9.576-04 | 1,258-00 | 0.006+00 | 0.008+00 | 0.006+00 | 0.008-00 | 0.008+00 | 3.206-10 | 4,336-06 |
| 0.000-00 | 1.888-03 | 0.008-00 | 4.618-11 | 5.256-22 | 7.586-07 | 7.185-05 | 1.945-04 | 4.796-04 | 1.500+05 | 0.008-00 | 0.008-00 | 0.006+00 | 0.008-00 | 0.008+00 | 1.212-09 | 8.238.06 |
| 0.006-00 | 1.528-03 | 2 818-14 | 2.156-11 | 2.928-10 | 2546-07 | 1.546.05 | 7.178-05 | 2.542-04 | 1.528+08 | 0.008-00 | 0.008-00 | 0.006+00 | 0.005-00 | 0.008+00 | 7.818-09 | 4.228-06 |
| 0.008-00 | 1.866-03 | 2358-04 | 2.296-62 | 3.826-11 | 3.236-06 | 8.425-06 | 2.098-05 | 2.268-05 | 1.866+08 | 0.006+00 | 0.000+00 | 0.006+00 | 0.008-00 | 0.006+00 | 1,746-08 | 5.548-06 |
| 0.008-00 | 2.058-03 | 4.618-25 | 5.068-03 | 6.838-42 | 1,806-08 | 4.708-06 | 1.258.05 | 5-258-25 | 2.058+08 | 0.008-00 | 0.008-00 | 0.006+00 | 0.005-00 | 0.005+00 | 8.118-08 | 5.138-06 |
| 0.008-00 | 2.266+03 | 1406-15 | 1446-03 | 1408-12 | 1,876-09 | 1.635-06 | 4.836-06 | 2.088-05 | 2,265+08 2,505+09 | 0.006-00 | 0.006+00 | 0.006+00 | 0.005-00 | 0.005+00 | 1.545-08 | 4.768-06 |
| 0.000-00 | 2.508=01 2.798=03 | 0.006-00 | 0.008-00 | 2.998-13 | 6.905-11 | 4.798-07 | 6.135-07 | 7.958-06 | 2.768+00 | 0.006-00 | 0.008+00 | 0.008+00 | 0.000-00 | 0.000+00 | 4.358-08 | 3.798-08 |
| 0.000-00 | 3.006-03 | 0.000-00 | 1.478-16 | 6.025-15 | 1.896-11 | 1435-08 | 1.746-07 | 8.326-07 | 3.000+00 | 0.006-00 | 0.006+00 | 0.000+00 | 0.005-00 | 0.008+00 | 4.006-08 | 3.166-06 |
| 0.006-00 | 3.056-03 | 0.008-00 | 4.008-00 | 1.815-15 | 2.306-1.2 | 6.818-09 | 4.555-08 | 2.196-07 | 3.056+00 | 0.008-00 | 0.008+06 | 0.008+00 | 0.006-00 | 0.006+00 | 3.968-08 | 1.165-05 |
| 0.000-00 | 3.368-03 | 0.008-00 | 0.006-00 | 0.008-00 | 1.586-03 | 1.425-09 | 1.015-08 | 5.096-08 | 3.348+07 | 0.008-00 | 0.008-00 | 0.000+00 | 0.005-00 | 1.428-18 | 4.018-08 | 2.348-06 |
| 0.008-00 | 3.718=03 | 0.008+00 | 1.008-00 | 0.008-00 | 5.35E-L3 2.94E-L5 | 2.158-10 | 2,448-35 | 2,346-09 | 3.736+09 4.306+05 | 0.008-00 | 0.008-00 | 0.000+00 | 0.008-00 | 2.628-17 6.236-17 | 2.495-08 | 2.138-06 |
| 0.008+00 | 4.530-01 | D.DOE+00 | 0.006-00 | 2,405-16 | 8.346-15 | 2.455-12 | 2.696-11 | 3.236-00 | 4.536+03 | 0.006-00 | 0.008-00 | 0.006+00 | 0.006-00 | 6.878-17 | 1.768-08 | 2.368.06 |
| 0.006-00 | 5.005-03 | 0.006+00 | 0.006+00 | 7.396-16 | \$.976-15 | 4.465-13 | 4.355-12 | 3.396-22 | 5.006+08 | 0.006+00 | 0.008+00 | 0.006+00 | 0.005-00 | 1.096-16 | 1.216-08 | 2.058-06 |
| 1.876-18 6.336-18 | 5.525-03 | 0.008-00 | 0.008+00 | 0.008-00 | 4.276-05 | 8.248-14 | 8.586-13 | 1.198-11 | 5.525+00 6.095+00 | 0.006+00 | 0.008+00 | 0.006+00 | 0.006-00 | 1.296-18 | 7.346-09 | 2.198-06 |
| 1.482-16 | 6.730-03 | 0.008-00 | 0.000+00 | 0.008-00 | 3.715-15 | 4.805-14 | 8.578-14 | 6.605-13 | 6.736+03 | 0.006+00 | 0.005+00 | 0.000+00 | 0.006=00 | \$.126-17 | 3.178-09 | 1.116-06 |
| 2.176-15 | 7.436=03 | 0.006+00 | 0.006-00 | 1.976-16 | 3.296-04 | 1.586-13 | 2.226-13 | 3.968-13 | 7.436-00 | 0.006-00 | 0.006-06 | 0.008+00 | 0.005-00 | \$1M-17 | 1.496-09 | 7.186-07 |
| 2.236-14 | 8.206-03 | 0.008+00 | 0.006+00 | 0.095+00 | 5.006+00 | 9.406-14 | 1.808-13 | 4.186-13 | 6.206+00 | 0.006+00 | 0.008+00 | 0.006+00 | 0.006-00 | 1.526-17 | 5.246-10 | 4.718-07 |
| 2.908-13 | 9.048-03 | 0.008+00 | 0.006-00 | 0.008-00 | 5.518-04 | 5.058-13 | 7.518-13 | 1.468-12 | \$066+03 1006+08 | 0.006-00 | 0.008+00 | 0.006+00 | 0.005-00 | 1.346-17 | 4.258-10 | 8.248.47 2.688.47 |
| 2.428-12 | 1.008-04 | 0.000+00 | 0.000-00 | 2.678-24 | 4.646-03 | 1.306-12 | 1.688-12 | 2.536-02 | 1.008+04 | 0.000-00 | 0.008-00 | 0.000+00 | 0.000 -000 | 2.886-17 | 1.498-10 | 2.688.407 |
| 1.366-13 | 1.106-04 | 0.006+00 | 0.006-00 | 1.000-14 | 2,896-53 | 1,425-12 | 2.586-52 | 5.136-12 | 1.006+04 | 0.006-00 | 0.000 -000 | 0.006+00 | 0.006-00 | 4,985-12 | 6.246-01 | 1.636-07 |
| 4.518-11 | 1.228-04 | 0.008-00 | 0.006-00 | 4366-16 | 1.406-13 | 1.208-12 | 1.696-12 | 5.136-12 | 1.726+04 | 0.005+00 | 0.005-00 | 0.006+00 | 0.005-00 | 2.996-47 | 1.325-11 | 1.105-07 |
| 1.496-10 | 1.156-04 | 0.006+00 | 5.006-00 | 4.386-56 | 1,266-13 | \$796-13 | 1.718-12 | 5.20E-02 8.93E-02 | 1,356+04 | 0.005-00 | 0.008-00 | 0.006+00 | 0.005-00 | 4.126-17 | 4.196-52 | 6.458-08 |
| 1.495-09 | 1642-04 | 7.662-18 | 4125-16 | 1176-15 | 1418-13 | 1.505-12 | 2.876-12 | 8.952-12 | 1.640-04 | 0.000-00 | 0.008-00 | 0.000-00 | 0.000-00 | 3.552-36 | 1.446-13 | 1.625-08 |
| 158.09 | 1.818-04 | 0.008-00 | 8.478-17 | 2.008-16 | 1.806-15 | 9.178-15 | 1.405-14 | 3.086-14 | 1.818-04 | 0.008+00 | 0.008-00 | 0.000+00 | 0.008-00 | 1.485-16 | 4.075-14 | 9,776-09 |
| 7.640.09 | 2.000-04 | 0.008+00 | 0.005-00 | 0.008-00 | 1.828-03 | 8.842-15 | 1.496-14 | 3 736-14 | 2.008+04 | 0.005+00 | 0.008+06 | 0.000+00 | 0.005-00 | 3.548-35 | 1.328-14 | 3 486-09 |

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| Alter Alter <th< td=""><td>100 100-0 1</td><td>Steve Steve <th< td=""><td>BARK-D: DOX-M: <thdox-m:< th=""> <thdox-m:< th=""> <thdox-m:< t<="" td=""><td>8.552-0. 5.574-00 5.251-00 5.051-00 5.555-00 5.555-00 5.255-00 5.555-0000000000</td><td>5.002-01 5.002-00 2.002-00 5.002-00 5.002-00 5.002-00 5.002-00 3.502-01 5.002-00 5.002-00 5.002-00 5.002-00 5.002-00 5.002-00</td><td>8.605+01 1.445-03 1.905-02 1.445-02 5.285-02 2.185-01 2.885-01 4.836-01</td><td>8.625-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 9.008-00 0.008-0000000000</td></thdox-m:<></thdox-m:<></thdox-m:<></td></th<></td></th<> | 100 100-0 1 | Steve Steve <th< td=""><td>BARK-D: DOX-M: <thdox-m:< th=""> <thdox-m:< th=""> <thdox-m:< t<="" td=""><td>8.552-0. 5.574-00 5.251-00 5.051-00 5.555-00 5.555-00 5.255-00 5.555-0000000000</td><td>5.002-01 5.002-00 2.002-00 5.002-00 5.002-00 5.002-00 5.002-00 3.502-01 5.002-00 5.002-00 5.002-00 5.002-00 5.002-00 5.002-00</td><td>8.605+01 1.445-03 1.905-02 1.445-02 5.285-02 2.185-01 2.885-01 4.836-01</td><td>8.625-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 9.008-00 0.008-0000000000</td></thdox-m:<></thdox-m:<></thdox-m:<></td></th<> | BARK-D: DOX-M: DOX-M: <thdox-m:< th=""> <thdox-m:< th=""> <thdox-m:< t<="" td=""><td>8.552-0. 5.574-00 5.251-00 5.051-00 5.555-00 5.555-00 5.255-00 5.555-0000000000</td><td>5.002-01 5.002-00 2.002-00 5.002-00 5.002-00 5.002-00 5.002-00 3.502-01 5.002-00 5.002-00 5.002-00 5.002-00 5.002-00 5.002-00</td><td>8.605+01 1.445-03 1.905-02 1.445-02 5.285-02 2.185-01 2.885-01 4.836-01</td><td>8.625-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 9.008-00 0.008-0000000000</td></thdox-m:<></thdox-m:<></thdox-m:<> | 8.552-0. 5.574-00 5.251-00 5.051-00 5.555-00 5.555-00 5.255-00 5.555-0000000000 | 5.002-01 5.002-00 2.002-00 5.002-00 5.002-00 5.002-00 5.002-00 3.502-01 5.002-00 5.002-00 5.002-00 5.002-00 5.002-00 5.002-00 | 8.605+01 1.445-03 1.905-02 1.445-02 5.285-02 2.185-01 2.885-01 4.836-01 | 8.625-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 9.008-00 0.008-0000000000 |
| NINE Link NINE Link NINE Link NINE Link NINE NINE <th< td=""><td>0 0.00-0 0.0-0-0 <th0.0-0< th=""></th0.0-0<></td><td>ART-R SORT-RI <thsort-ri< th=""> <thsort-ri< th=""> <thsor< td=""><td>518-45 508-90 508-90 508-90 508-90 508-90 508-90 508-90 508-90 508-90 108-45 508-90 508-90 508-90 508-90 508-90 508-90 508-90 508-90 118-52 508-90 508-90 508-90 508-90 508-90 508-90 508-90 508-90 128-52 508-90 508</td><td>9.526-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 1.002-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 1.102-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00</td><td>3.502-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00</td><td></td><td>9.508-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00</td></thsor<></thsort-ri<></thsort-ri<></td></th<> | 0 0.00-0 0.0-0-0 <th0.0-0< th=""></th0.0-0<> | ART-R SORT-RI SORT-RI <thsort-ri< th=""> <thsort-ri< th=""> <thsor< td=""><td>518-45 508-90 508-90 508-90 508-90 508-90 508-90 508-90 508-90 508-90 108-45 508-90 508-90 508-90 508-90 508-90 508-90 508-90 508-90 118-52 508-90 508-90 508-90 508-90 508-90 508-90 508-90 508-90 128-52 508-90 508</td><td>9.526-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 1.002-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 1.102-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00</td><td>3.502-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00</td><td></td><td>9.508-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00</td></thsor<></thsort-ri<></thsort-ri<> | 518-45 508-90 508-90 508-90 508-90 508-90 508-90 508-90 508-90 508-90 108-45 508-90 508-90 508-90 508-90 508-90 508-90 508-90 508-90 118-52 508-90 508-90 508-90 508-90 508-90 508-90 508-90 508-90 128-52 508-90 508 | 9.526-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 1.002-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 1.102-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 3.502-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | | 9.508-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| Marcia Link Link <thlink< th=""> Link Link <t< td=""><td>8-00 528-06 508-06 508-06 508-06 508-06 508-06 508-06 1186-02 508-06 508</td><td>308-80 0.008-00 1.388-82 2.388-85 4.708-54 1.346-85 8.388-85 3.766-82 5.328-82 1.088-82 308-80 0.008-90 1.388-82 5.986-64 5.986-84 5.986-84 5.986-84 5.986-84 5.986-84 5.986-94 5.986-</td><td>118-01 0.02-00 0.020-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00</td><td>1362-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00</td><td></td><td></td><td></td></t<></thlink<> | 8-00 528-06 508-06 508-06 508-06 508-06 508-06 508-06 1186-02 508-06 508 | 308-80 0.008-00 1.388-82 2.388-85 4.708-54 1.346-85 8.388-85 3.766-82 5.328-82 1.088-82 308-80 0.008-90 1.388-82 5.986-64 5.986-84 5.986-84 5.986-84 5.986-84 5.986-84 5.986-94 5.986- | 118-01 0.02-00 0.020-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 1362-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | | | |
| Nice Nice <th< td=""><td>8-08 5385-06 5385-06 5385-06 5385-06 5385-06 5385-06 1.385-07 5385-060</td><td>005-00 0.002+00 1.28E-02 5.08E-06 3.29E-04 5.18E-04 7.49E-03 3.28E-02 4.31E-03 9.21E-03 005+00 0.002+00 1.44E-02 3.44E-04 2.59E-04 6.59E-04 6.07E-03 2.74E-02 3.68E-02 8.20E-02</td><td>1388-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00</td><td></td><td>1242-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00</td><td>1058-02 2008-03 7,879-03 1208-02 5,468-02 1348-01 2558-01 4,348-01 1368-00 1438-03 6,825-03 1,076-02 5,056-02 1,405-01 2,356-01 4,076-01</td><td>1.05(-02 0.000-000-</td></th<> | 8-08 5385-06 5385-06 5385-06 5385-06 5385-06 5385-06 1.385-07 5385-060 | 005-00 0.002+00 1.28E-02 5.08E-06 3.29E-04 5.18E-04 7.49E-03 3.28E-02 4.31E-03 9.21E-03 005+00 0.002+00 1.44E-02 3.44E-04 2.59E-04 6.59E-04 6.07E-03 2.74E-02 3.68E-02 8.20E-02 | 1388-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | | 1242-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1058-02 2008-03 7,879-03 1208-02 5,468-02 1348-01 2558-01 4,348-01 1368-00 1438-03 6,825-03 1,076-02 5,056-02 1,405-01 2,356-01 4,076-01 | 1.05(-02 0.000-000- |
| Name Name <th< td=""><td>1-00 8.000-00 5.000-00-00-00-00-00-00-00-00-00-00-00-00</td><td></td><td></td><td>1.288-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00</td><td>1288-62 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00</td><td>1288-00 1048-00 5.858-05 9.988-08 4.538-07 1.628-01 2.268-01 1.788-01</td><td>1288-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00</td></th<> | 1-00 8.000-00 5.000-00-00-00-00-00-00-00-00-00-00-00-00 | | | 1.288-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1288-62 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1288-00 1048-00 5.858-05 9.988-08 4.538-07 1.628-01 2.268-01 1.788-01 | 1288-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 |
| 1 | | | 1542-12 0.001-00 0.002-00 0.002-00 0.002-00 0.001-00 0.001-00 | L42F-02 030E-00 | 1.412-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 1.542-02 0.002-0000000000 | 1402-02 7536-04 4508-03 8.046-03 4.046-02 1498-01 2.046-01 1508-01 1548-02 4.946-04 1.446-03 4.496-03 1.546-02 1.326-03 1.878-03 1.226-04 | 1412-02 0.00E-00 0.00E-000E-0 |
| Nome Abord Line Line <thline< th=""> Line Line <th< td=""><td>16-00 8.00E-00 8.00E-00</td><td>008-00 0.008-00 1728-02 8538-07 5.M6.05 2.746.04 8.896.03 1.866.02 2.556.02 5.836.02</td><td>1.726-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00</td><td>1726-02 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00</td><td>1726-02 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00</td><td>1705-02 3306.04 2446.03 5228.05 3126.02 1176.03 1.846.01 2918.01</td><td>1728-02 0.006+00 0.008+00 0.006+00 0.006+00 0.008+00 1.866-18</td></th<></thline<> | 16-00 8.00E-00 | 008-00 0.008-00 1728-02 8538-07 5.M6.05 2.746.04 8.896.03 1.866.02 2.556.02 5.836.02 | 1.726-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 1726-02 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 1726-02 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 1705-02 3306.04 2446.03 5228.05 3126.02 1176.03 1.846.01 2918.01 | 1728-02 0.006+00 0.008+00 0.006+00 0.006+00 0.008+00 1.866-18 |
| Dist Dist <thdist< th=""> Dist Dist <thd< td=""><td>R-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.00E-00 1.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00</td><td>008-00 0.008-00 1.508-02 1.118-07 2.502-05 1.528-04 2.758-03 1.508-02 2.058-02 4.678-02</td><td>1562-02 0.082-00 0.082-00 0.002-00 0.082-00 0.082-00 0.002-00 0.082-0000000000000000000000000000000000</td><td>1302-02 0302-00 0302-00 0302-00 0302-00 0302-00 0302-00 2.020-02 0302-00 0302-00 0302-00 0302-00 0302-00</td><td>1.90E-02 0.00E-00 0.00E-0000000000</td><td>1908-02 1846-04 1.868-03 4.186-03 2.656-02 1.018-01 1.478-01 2.418-01 2.188-02 8.218-06 1.386-03 3.388-08 1.906.07 8.028-03 1.338-08 2.386-05</td><td>1305-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 1.965-15</td></thd<></thdist<> | R-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.00E-00 1.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 008-00 0.008-00 1.508-02 1.118-07 2.502-05 1.528-04 2.758-03 1.508-02 2.058-02 4.678-02 | 1562-02 0.082-00 0.082-00 0.002-00 0.082-00 0.082-00 0.002-00 0.082-0000000000000000000000000000000000 | 1302-02 0302-00 0302-00 0302-00 0302-00 0302-00 0302-00 2.020-02 0302-00 0302-00 0302-00 0302-00 0302-00 | 1.90E-02 0.00E-00 0.00E-0000000000 | 1908-02 1846-04 1.868-03 4.186-03 2.656-02 1.018-01 1.478-01 2.418-01 2.188-02 8.218-06 1.386-03 3.388-08 1.906.07 8.028-03 1.338-08 2.386-05 | 1305-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 1.965-15 |
| District | 8-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 2.221-02 0.008-00 0.008-00 0.008-00 0.008-00 | 008-00 0.008-00 2.128-02 8.76.08 6.276.06 6.756.05 1.666.01 8.566.01 1.856.02 2.968.02 | 2 828-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.028-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2 121-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2 828-00 3 428-06 8 256-06 2 428-08 1 888-02 7 706-02 1 118-01 2 118-01 | 2 828-02 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 1.625-12 |
| Alterial Alterial Janese Janese <thjanese< th=""> Janese Janese</thjanese<> | R-00 5.8E-00 5.0E-00 5.0E-00 5.0E-00 5.0E-00 5.0E-00 2.5E-00 2.5E-00 5.0E-00 5.0E-00 5.0E-00 5.0E-00 | 200-00 0.000-00 2.582-00 2.082-00 2.082-05 2.582-05 8.582-00 8.582-00 8.582-00 2.522-00 2.522-00 9.592-00 2.522-00 1.522-00 9.592-00 1.522-000 1.522-00000000000000000000000000000000000 | 2542-02 5.002-06 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 2.582-52 0.002-500-500-500-500-500-500-500-500-500- | 2.542-02 0.002+00 0.002-00 0.002+00 0.002+00 0.002+00 0.002+00 | 2548-02 1308-08 5.606-04 1.746-05 1.608-02 5.678-02 9.678-02 1.908-05 | 1.542-52 0.508-60 0.508-60 0.508-60 0.508-60 0.508-60 0.508-60 1.335-13 1.528-52 0.508-50 0.508-60 0.508-60 0.508-50 0.508-50 0.508-50 0.525-55 |
| 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1. | 14-00 5301-00 53001-0000000000000000000000000000000000 | 008-00 0.008-00 2.828-02 4.488.00 7.348.67 9.419.08 6.388.04 4.978.08 7.458.63 1.958.02 008-00 0.008-00 1.008-02 7.408.01 2.068.07 3.838.04 4.278.04 3.958.08 5.438.03 1.958.02 | 2,828-02 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 3,008-03 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 | 2.828-02 0.008-0000000000 | 2.828-02 0008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 8.008-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.829-02 4.558.06 8.296.06 1.256.00 1.286.02 6.486.02 6.256.02 1.676.02 8.008-02 1.488.06 1.826.04 7.568.04 9.876.03 4.676.02 4.716.02 1.888.01 | 2.828-02 0.008+0000000000 |
| NAME Line Line <thline< th=""> Line Line <thl< td=""><td>8-00 0.08-00 0.08-00 0.08-00 0.08-00 0.08-00 0.08-00 0.08-00 0.125-00 0.08-00 0.08-00 0.08-00 0.08-00</td><td>008-00 0.088-00 8125-02 1345-11 6398-08 1598-08 2546-04 2506-03 8398-03 1178-02</td><td>\$118-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00</td><td>3.126-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00</td><td>3.225-02 0.006-00 0.006-00 0.006-00 0.006-00 0.008-00 0.008-00</td><td>3126-02 4568-07 1088-04 4388-04 3.488-03 3.878-02 5.346-02 1128-01</td><td>3.138-02 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 6.738-09</td></thl<></thline<> | 8-00 0.08-00 0.08-00 0.08-00 0.08-00 0.08-00 0.08-00 0.08-00 0.125-00 0.08-00 0.08-00 0.08-00 0.08-00 | 008-00 0.088-00 8125-02 1345-11 6398-08 1598-08 2546-04 2506-03 8398-03 1178-02 | \$118-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 3.126-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 3.225-02 0.006-00 0.006-00 0.006-00 0.006-00 0.008-00 0.008-00 | 3126-02 4568-07 1088-04 4388-04 3.488-03 3.878-02 5.346-02 1128-01 | 3.138-02 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 6.738-09 |
| Deck Deck <thdeck< th=""> Deck Deck <thd< td=""><td>0-300-00 0-300-00-00-00-00-00-00-00-00-00-00-00-0</td><td></td><td>1446-02 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 1800-02 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00</td><td>3440-02 0.000-06 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00</td><td>1440-02 0000-00 0000-00 0000-00 0000-00 0000-00 0000-00 1300-07 0000-00 0000-00 0000-00 0000-00 0000-00</td><td>5.440-00 1.638-07 4.776-05 2.846-04 5.568-03 3.188-02 4.358-02 8.576-02 3.806-02 4.856-08 2.546-06 1.556-04 4.086-01 2.506-02 3.446-02 7.536-02</td><td>1.441-52 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 4.150-00 1.009-02 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 1.250.07</td></thd<></thdeck<> | 0-300-00-00-00-00-00-00-00-00-00-00-00-0 | | 1446-02 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 1800-02 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 3440-02 0.000-06 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 1440-02 0000-00 0000-00 0000-00 0000-00 0000-00 0000-00 1300-07 0000-00 0000-00 0000-00 0000-00 0000-00 | 5.440-00 1.638-07 4.776-05 2.846-04 5.568-03 3.188-02 4.358-02 8.576-02 3.806-02 4.856-08 2.546-06 1.556-04 4.086-01 2.506-02 3.446-02 7.536-02 | 1.441-52 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 4.150-00 1.009-02 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 1.250.07 |
| Matc Matc <th< td=""><td>THE SATENE LOTTER DATEN SATENE SATENE SATENE SATENE SATENE SATENE SATENE SATENE SATENE</td><td></td><td>4.06+02 5.06+06 5.06+00 5.06+00 5.06+00 5.06+00 5.06+00 4.06+02 5.06+00 5.06+00 5.06+00 5.06+00 5.06+00 5.00+00</td><td>4.20E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00</td><td>4.206-02 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00</td><td>4.200-02 1.216-08 0.306-06 0.306-06 0.306-02 1.306-02 0.306-02 0.306-02</td><td>420E-02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 2.57E-07</td></th<> | THE SATENE LOTTER DATEN SATENE SATENE SATENE SATENE SATENE SATENE SATENE SATENE SATENE | | 4.06+02 5.06+06 5.06+00 5.06+00 5.06+00 5.06+00 5.06+00 4.06+02 5.06+00 5.06+00 5.06+00 5.06+00 5.06+00 5.00+00 | 4.20E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 4.206-02 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 4.200-02 1.216-08 0.306-06 0.306-06 0.306-02 1.306-02 0.306-02 0.306-02 | 420E-02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 2.57E-07 |
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| NAME-10 NAME-10 <t< td=""><td>8-00 5.085-00 5.005-00 5.005-00 5.005-00 5.005-00 5.055-00 5.005-005-005-005-005-005-005-005-005-00</td><td></td><td>5128-02 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00</td><td>1.121-02 0.001-00 0.001-00 0.002-00 0.001-00 0.001-00 0.001-00 0.001-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00</td><td>5125-02 0.005-0000000000</td><td>5 128-02 7 566-10 1.005-06 2.358-05 1.566-00 1.178-02 1.788-02 4.528-02 5.582-02 3.782-02 3.782-02 1.292-02 3.582-02 3.782-02-02-02-02-02-02-02-02-02-02-02-02-02</td><td>5.128-02 0.008-0000000000</td></t<> | 8-00 5.085-00 5.005-00 5.005-00 5.005-00 5.005-00 5.055-00 5.005-005-005-005-005-005-005-005-005-00 | | 5128-02 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 1.121-02 0.001-00 0.001-00 0.002-00 0.001-00 0.001-00 0.001-00 0.001-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 5125-02 0.005-0000000000 | 5 128-02 7 566-10 1.005-06 2.358-05 1.566-00 1.178-02 1.788-02 4.528-02 5.582-02 3.782-02 3.782-02 1.292-02 3.582-02 3.782-02-02-02-02-02-02-02-02-02-02-02-02-02 | 5.128-02 0.008-0000000000 |
| Name Name <th< td=""><td>00-3063 00-3060 00-3063 00-3063 00-3063 00-3063 00-3063 00-3063 00-3063 00-3063 00-3063 00-3063</td><td></td><td>8,24E-42 0,00E-00 0,00E-00 0,00E-00 0,00E-00 0,00E-00 0,00E-00</td><td>62+800.0 00+300 00-800.0 00+800.0 00+800.0 00+300.0 0.008+30</td><td>6.346-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00</td><td>8.246-02 8.828-11 8.258-07 4.668-06 8.418-04 7.398-03 1.568-02 5.048-02</td><td>6.246-02 0.006-00 0.008-00 0.006-00 0.006-00 0.006+00 1.408-06</td></th<> | 00-3063 00-3060 00-3063 00-3063 00-3063 00-3063 00-3063 00-3063 00-3063 00-3063 00-3063 00-3063 | | 8,24E-42 0,00E-00 0,00E-00 0,00E-00 0,00E-00 0,00E-00 0,00E-00 | 62+800.0 00+300 00-800.0 00+800.0 00+800.0 00+300.0 0.008+30 | 6.346-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 8.246-02 8.828-11 8.258-07 4.668-06 8.418-04 7.398-03 1.568-02 5.048-02 | 6.246-02 0.006-00 0.008-00 0.006-00 0.006-00 0.006+00 1.408-06 |
| MACC DATE John John <thjohn< th=""> John John <thj< td=""><td>X=00 5385=06 5385=06 5385=06 5385=06 5395=06 5</td><td>005-00 7.355-25 6.395-02 0.005-00 2.995-13 4.646-11 1.255-08 7.425-05 1.425-04 4.525-04 005-00 8.015-14 7.555-04 7.525-04 7.095-14 4.705-12 4.286-47 1.715-05 7.235-05 2.535-04</td><td>4.8%5-02 0.8%5-08 0.8%5-06 0.0%5-08 0.0%5-08 0.8%5-06 0.8%5-08 7.425-02 0.8%5-08 0.9%5-09 0.0%5-00 0.0%5-00 0.0%5-00 0.0%5-00</td><td>4.256-02 6.005-00 0.005-00 0.005-00 6.005-06 0.005-06 0.005-00 7.512-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00</td><td>4.2%<02 0.000-000-</td><td>6.895-02 1236-11 1236-07 2466-06 4.995-04 5266-03 8.366-03 2286-02 7.628-02 1.126-02 1.886-08 8.970-07 2.796-04 8.666-03 3.546-03 1.646-02</td><td>6.896-02 0.005-00 0.005-00 0.005-00 0.005-00 1.121-18 2.005-05 7.612-02 0.005-00 0.005-00 0.005-00 0.005-00 2.742-35 2.828-05</td></thj<></thjohn<> | X=00 5385=06 5385=06 5385=06 5385=06 5395=06 5 | 005-00 7.355-25 6.395-02 0.005-00 2.995-13 4.646-11 1.255-08 7.425-05 1.425-04 4.525-04 005-00 8.015-14 7.555-04 7.525-04 7.095-14 4.705-12 4.286-47 1.715-05 7.235-05 2.535-04 | 4.8%5-02 0.8%5-08 0.8%5-06 0.0%5-08 0.0%5-08 0.8%5-06 0.8%5-08 7.425-02 0.8%5-08 0.9%5-09 0.0%5-00 0.0%5-00 0.0%5-00 0.0%5-00 | 4.256-02 6.005-00 0.005-00 0.005-00 6.005-06 0.005-06 0.005-00 7.512-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 4.2%<02 0.000-000- | 6.895-02 1236-11 1236-07 2466-06 4.995-04 5266-03 8.366-03 2286-02 7.628-02 1.126-02 1.886-08 8.970-07 2.796-04 8.666-03 3.546-03 1.646-02 | 6.896-02 0.005-00 0.005-00 0.005-00 0.005-00 1.121-18 2.005-05 7.612-02 0.005-00 0.005-00 0.005-00 0.005-00 2.742-35 2.828-05 |
| Single Date Dista Dista <thdista< th=""> Dista <thd< td=""><td>8-00 0.008-00 0.008-00 0.008-00 2.546.14 1.588-10 5.586.47 8.408-02 0.008-00 0.008-00 0.008-00 0.008-00</td><td>00-00 11M-12 E408-07 0.008-00 0.008-00 4148-01 1.81E-07 1476-05 8.3ME-05 1.1ME-04</td><td>8.408-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00</td><td>140-00 000-00 000-00 000-00 000-00 000-00 000-00</td><td>8498-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00</td><td>8.408-02 3.408-18 8.648-09 2.496-07 1.518-08 2.418-03 3.478-03 1.248-07</td><td>8.408-02 0.008-00 0.008-00 0.008-00 0.008-00 1.028-04 2.648.08</td></thd<></thdista<> | 8-00 0.008-00 0.008-00 0.008-00 2.546.14 1.588-10 5.586.47 8.408-02 0.008-00 0.008-00 0.008-00 0.008-00 | 00-00 11M-12 E408-07 0.008-00 0.008-00 4148-01 1.81E-07 1476-05 8.3ME-05 1.1ME-04 | 8.408-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 140-00 000-00 000-00 000-00 000-00 000-00 000-00 | 8498-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 8.408-02 3.408-18 8.648-09 2.496-07 1.518-08 2.418-03 3.478-03 1.248-07 | 8.408-02 0.008-00 0.008-00 0.008-00 0.008-00 1.028-04 2.648.08 |
| Chick Binder State Linke Linke <t< td=""><td>10-00 5.000-00 5.000-00 5.000-00 5.000-10 5.000-00-00-000-000-000-00-00-000-00-00-0</td><td>005-00 2328-11 5382-01 3432-04 1428-13 3496-13 3476-08 708-06 1388-05 5586-05 006-00 1498-13 1008-03 0.006-00 1598-58 1286-18 526-09 2468-06 4426-08 2596-06</td><td>9.285-02 0.085-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00</td><td>8.282-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 1.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00</td><td>5.562-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 1.002-00 0.002-000000-0000-</td><td>\$285-02 \$3%6.13 1.226.09 6.626.08 7.626.05 1.546.03 2.376.03 7.628.03 1.006-03 1.028.14 1.578.10 1.916-08 1.486.05 9.008.04 1.416.08 4.918.03</td><td>8.288-52 0.008-60 0.008-00 0.008-00 0.008-00 0.008-00 4.388-13 4.208.06 1.008-53 0.008-50 0.008-00 0.008-00 0.008-00 0.008-00 4.708-12 5.398-08</td></t<> | 10-00 5.000-00 5.000-00 5.000-00 5.000-10 5.000-00-00-000-000-000-00-00-000-00-00-0 | 005-00 2328-11 5382-01 3432-04 1428-13 3496-13 3476-08 708-06 1388-05 5586-05 006-00 1498-13 1008-03 0.006-00 1598-58 1286-18 526-09 2468-06 4426-08 2596-06 | 9.285-02 0.085-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 8.282-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 1.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 5.562-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 1.002-00 0.002-000000-0000- | \$285-02 \$3%6.13 1.226.09 6.626.08 7.626.05 1.546.03 2.376.03 7.628.03 1.006-03 1.028.14 1.578.10 1.916-08 1.486.05 9.008.04 1.416.08 4.918.03 | 8.288-52 0.008-60 0.008-00 0.008-00 0.008-00 0.008-00 4.388-13 4.208.06 1.008-53 0.008-50 0.008-00 0.008-00 0.008-00 0.008-00 4.708-12 5.398-08 |
| Infer Date Link Link Link Link Link Link Date Date <thdate< th=""> Date Date <th< td=""><td>1-00 538-00 538-00 538-00 538-00 1325-0 128-0 138-0 138-0 538-0 538-0 538-0 538-0 538-0 588-0 138-0 1</td><td></td><td>100-0 000-0 000-0 000-0 000-0 000-0 000-0 000-0 000-0</td><td>1000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 1.000-00 0.000-000-</td><td>1.00(+0) 0.00(+0000000000</td><td>1008+08 1038-14 1178-20 1162-08 1482-05 1006-04 1482-08 1020+09 3.792-15 1.882-29 6.625-09 1452-05 5.225-04 8.376-04 1.522-03</td><td>1.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 4.70E+12 5.29E+08 1.02E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 7.92E+12 5.27E+06</td></th<></thdate<> | 1-00 538-00 538-00 538-00 538-00 1325-0 128-0 138-0 138-0 538-0 538-0 538-0 538-0 538-0 588-0 138-0 1 | | 100-0 000-0 000-0 000-0 000-0 000-0 000-0 000-0 000-0 | 1000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 1.000-00 0.000-000- | 1.00(+0) 0.00(+0000000000 | 1008+08 1038-14 1178-20 1162-08 1482-05 1006-04 1482-08 1020+09 3.792-15 1.882-29 6.625-09 1452-05 5.225-04 8.376-04 1.522-03 | 1.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 4.70E+12 5.29E+08 1.02E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 7.92E+12 5.27E+06 |
| Michael Disco Disco <thdisco< th=""> Disco Disco <t< td=""><td>R-00 500E-06 500E-00 500E-00 186E-06 141E-07 527E-06 L13E-03 500E-06 500E-06 500E-06 500E-06 500E-06</td><td>000-00 3782-03 1132-03 0.000-00 2.538-34 1.482-03 1.675-09 2.996-07 1.040-06 4.646-06</td><td>1136-03 0-006-00 0-006-00 0-006-00 0-006-00 0-006-00 0-006-00</td><td>1.13E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00</td><td>1.112-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00</td><td>138-01 1435-13 1862-10 1346-09 1888-06 2718-04 1258-04 1718-01</td><td>L1NE-03 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 6.72E-11 3.57E-06</td></t<></thdisco<> | R-00 500E-06 500E-00 500E-00 186E-06 141E-07 527E-06 L13E-03 500E-06 500E-06 500E-06 500E-06 500E-06 | 000-00 3782-03 1132-03 0.000-00 2.538-34 1.482-03 1.675-09 2.996-07 1.040-06 4.646-06 | 1136-03 0-006-00 0-006-00 0-006-00 0-006-00 0-006-00 0-006-00 | 1.13E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1.112-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 138-01 1435-13 1862-10 1346-09 1888-06 2718-04 1258-04 1718-01 | L1NE-03 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 6.72E-11 3.57E-06 |
| 100 00004 0 | 1(-00 0.00(-0000000000 | | 129E-03 0.08E-00 0.00E-00 | 129E-08 5.00E-00 5.00E-00 5.00E-00 5.00E-00 5.00E-00 5.00E-00 1.38E-09 5.00E-00 5.00E-00 5.00E-00 5.00E-00 5.00E-00 5.00E-00 | 1256-03 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 1.366-03 0.006-00 0.006-00 0.006-00 0.008-00 0.008-00 0.006-00 | 1256-01 1586-03 1596-00 1416-09 2196-06 1466-04 2456-04 5526-04 1598-08 6596-13 7486-01 5,756-07 7518-07 7188-05 1,588-04 4,756-04 | 1256-03 0.006-00 0.008-00 0.006-00 0.006-00 0.006-00 3.206.00 4.336.06 1.386-03 0.006-00 0.008-00 0.006-00 0.006-00 0.006-00 1.216-09 5.204-06 |
| No. Obset Like Like Like Obset Like Obset Obset <thobset< th=""> <thobset< th=""> <thobset< t<="" td=""><td>8-00 8.086-00 5.086-00 8.086-00 8.396-07 2.506-06 1.546-05 1.526-08 5.086-00 5.086-00 5.086-00 5.086-00 5.086-00</td><td>008-00 8378-09 1528-08 0008-00 6.876-04 1578-03 1108-00 1076-08 8446-08 1708-07</td><td>1535-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00</td><td>13.28-08 0.008-00 0.008-00 0.008-00 0.008-00 0.006-00 0.008-00</td><td>1525+03 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00</td><td>1526-00 1536-00 1400-01 2346-00 2786-07 8798-05 8.098-05 2788-04</td><td>1.538+03 0.306+30 0.008+00 0.008+00 0.306+30 0.006+00 3.476-09 4.218-06</td></thobset<></thobset<></thobset<> | 8-00 8.086-00 5.086-00 8.086-00 8.396-07 2.506-06 1.546-05 1.526-08 5.086-00 5.086-00 5.086-00 5.086-00 5.086-00 | 008-00 8378-09 1528-08 0008-00 6.876-04 1578-03 1108-00 1076-08 8446-08 1708-07 | 1535-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 13.28-08 0.008-00 0.008-00 0.008-00 0.008-00 0.006-00 0.008-00 | 1525+03 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 | 1526-00 1536-00 1400-01 2346-00 2786-07 8798-05 8.098-05 2788-04 | 1.538+03 0.306+30 0.008+00 0.008+00 0.306+30 0.006+00 3.476-09 4.218-06 |
| No. Open Open Dist L Dist Dist L Dist Dist L Dist Dist <thdis< th=""> <thdist< th=""> <thdist< th=""></thdist<></thdist<></thdis<> | 8-00 8.008-06 8.008-06 8.046-17 1595-06 3.005-06 1.446-05 1.485-08 8.005-06-06-06-005-06-06-005-005-005-06-0005-005- | | 1.68E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.88E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1482-03 5202-06 5202-06 5202-06 5202-06 5202-08 5202-06 5202-06 1882-03 5202-06 5202-06 5202-06 5202-06 5202-06 5202-06 | 1.682-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1.682-00 1.396-14 9.396-12 7.482-11 1.346-07 2.725-05 8.546-05 2.605.04 1.662-00 1.105.04 3.735-12 2.235-11 1.296.07 3.662.05 1.125.04 4.365.04 | 1482-03 0.002-06 0.002-00 0.002-06 0.002-00 0.002-00 7.810-05 5.620-06 1.802-03 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 1.740-02 5.530-06 |
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| Union Difference Difference </td <td>#+00 600E+00 106E-06 5525-07 1725-05 105E-05 627E-05 226E+00 630E+00 630E+00 630E+00 630E+00 630E+00</td> <td>128-15 5.578-09 1288-03 0.008-00 1.178-36 1.188-15 8.328-13 1.286-09 1.808-09 1.628-08</td> <td>2266-00 6306-00 5306-00 6306-00 6306-00 5306-00 6306-06</td> <td>2.266-03 5.005-06 5.005-06 5.005-06 5.005-06 5.005-06 5.005-06</td> <td>2242-03 0.005-00 0.002-00 0.005-00 0.005-00 0.005-00 0.005-00</td> <td>2360+00 5128-07 2396-03 1226-02 2406-08 1436-05 4,856-05 2,086-04</td> <td>2.268-03 0.008-00 0.008-00 0.008-00 5.225-36 4.576-06 4.766-06</td> | #+00 600E+00 106E-06 5525-07 1725-05 105E-05 627E-05 226E+00 630E+00 630E+00 630E+00 630E+00 630E+00 | 128-15 5.578-09 1288-03 0.008-00 1.178-36 1.188-15 8.328-13 1.286-09 1.808-09 1.628-08 | 2266-00 6306-00 5306-00 6306-00 6306-00 5306-00 6306-06 | 2.266-03 5.005-06 5.005-06 5.005-06 5.005-06 5.005-06 5.005-06 | 2242-03 0.005-00 0.002-00 0.005-00 0.005-00 0.005-00 0.005-00 | 2360+00 5128-07 2396-03 1226-02 2406-08 1436-05 4,856-05 2,086-04 | 2.268-03 0.008-00 0.008-00 0.008-00 5.225-36 4.576-06 4.766-06 |
| No. Control Control <thcontrol< th=""> <thcontrol< th=""> <thcontr< td=""><td>R+00 E-001+00 4.001-04 1.001-05 4.001-05 1.001-05 1.001-05 5.001-05 <td< td=""><td></td><td>2382-03 6-082-00 5-002-00 5-002-00 5-002-00 5-002-00 5-002-00 2.762-03 5-005-00 5-002-00 5-002-00 5-002-00 5-002-00 5-00</td><td>2.50E-01 0.00E-00 0.00E-0000000000</td><td>1305-03 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 1306-03 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00</td><td>2502-00 1632-05 7206-04 4396-03 4202-29 4475-04 1802-05 8125-05 2762-03 0202-00 8325-04 1496-04 5566-00 1202-04 4275-06 1278-05</td><td>2.528-53 0.308-50 0.008-50 0.008-50 0.008-50 1.642-55 6.128-56 1.862-55 1.768-53 0.308-50 0.008-50 0.008-50 0.008-50 0.648-54 6.893-56 6.683-56</td></td<></td></thcontr<></thcontrol<></thcontrol<> | R+00 E-001+00 4.001-04 1.001-05 4.001-05 1.001-05 1.001-05 5.001-05 <td< td=""><td></td><td>2382-03 6-082-00 5-002-00 5-002-00 5-002-00 5-002-00 5-002-00 2.762-03 5-005-00 5-002-00 5-002-00 5-002-00 5-002-00 5-00</td><td>2.50E-01 0.00E-00 0.00E-0000000000</td><td>1305-03 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 1306-03 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00</td><td>2502-00 1632-05 7206-04 4396-03 4202-29 4475-04 1802-05 8125-05 2762-03 0202-00 8325-04 1496-04 5566-00 1202-04 4275-06 1278-05</td><td>2.528-53 0.308-50 0.008-50 0.008-50 0.008-50 1.642-55 6.128-56 1.862-55 1.768-53 0.308-50 0.008-50 0.008-50 0.008-50 0.648-54 6.893-56 6.683-56</td></td<> | | 2382-03 6-082-00 5-002-00 5-002-00 5-002-00 5-002-00 5-002-00 2.762-03 5-005-00 5-002-00 5-002-00 5-002-00 5-002-00 5-00 | 2.50E-01 0.00E-00 0.00E-0000000000 | 1305-03 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 1306-03 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 2502-00 1632-05 7206-04 4396-03 4202-29 4475-04 1802-05 8125-05 2762-03 0202-00 8325-04 1496-04 5566-00 1202-04 4275-06 1278-05 | 2.528-53 0.308-50 0.008-50 0.008-50 0.008-50 1.642-55 6.128-56 1.862-55 1.768-53 0.308-50 0.008-50 0.008-50 0.008-50 0.648-54 6.893-56 6.683-56 |
| 984-03 0008-40 0.008-40 0.008-40 0.008-40 1.586-88 1.776-56 7.596-58 4.236-55 1.586-88 0.008-40 0.008-40 0.008-40 1.546-58 6.49 126-01 0.008-40 0.008-40 0.008-40 0.008-40 1.266-17 1.003-58 1.586-15 4.236-80 0.008-40 0.008-40 1.516-88 7.28 126-01 0.008-40 0.008-40 0.008-40 7.256-58 1.256-88 1.566-17 1.266-18 4.236-80 0.008-40 0.008-40 1.566-40 5.556-10 7.28 | E-00 0.008-00 2.%E-00 4.876.04 4.756.05 7.806.05 1.516.04 1.008-01 0.008-00 0.008-00 0.008-00 0.008-00 | 106-11 176-08 1006-08 0.006-00 0.008-00 4.942-05 4.996-03 2.398-03 2.896-01 | 1008-00 00-000 00-000 00-000 00-000 00-000 0.008-00 0.008-00 | 5.00E-05 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1.002-03 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1000-01 0.000-00 0.000-00 4.648-05 4.506-01 1.518-07 1.746-06 8.246-06 | 5.00E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 2.67E-03 7.50E-0E 5.22E-06 |
| 12-03 0.005+00 0.005+00 5.008-00 5.585.53 2.896.57 1.025-36 5.885.56 5.712-08 0.005+00 6.005+00 5.318.08 7.84 26-03 0.005+00 0.005+00 0.005+00 7.725.58 8.125-28 1.416-17 2.418.56 4.255-08 0.005+00 0.005+00 0.005+00 7.81 | X+00 0.000+00 4.216.00 5.076.06 4.746.05 7.566.05 1.586.04 3.056+00 0.000+000+ | 136-11 108-08 1364-01 0006-00 0006-00 936-06 936-06 936-04 1126-13 1376-12 1352-00 556-08 3362-01 0006-00 0006-00 0006-00 03752-04 1346-13 1226-12 | 3.052-03 0.052-00 0.002-00 0.002-00 0.002-00 0.005-00 0.005-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 105E-01 030E-00 | 3.5%-03 0.00%-00 0.00%-00 0.00%-00 0.00%-00 0.00%-00 0.00%-00 3.5%-03 0.00%-00 0.00%-00 0.00%-00 0.00%-00 0.00%-00 1.5%-05 | 3.056-03 0.000-08 0.000-00 0.008-00 2.646.02 6.526.08 4.826.07 2.316.06 3.868-03 0.000-06 0.000-00 0.008-00 4.856.03 1.126-08 3.446-08 5.598-07 | 1.056-03 0.008-00 0.008-00 0.008-00 0.006-00 3.086-03 8.508-08 3.236-08 3.362-03 0.008-00 0.008-00 0.008-00 0.000-00 5.086-03 8.008-08 2.386-04 |
| 01-03 0.001-00 0.001-00 0.001-00 7.725-18 8.125-28 1.416-17 1.418-14 4.201-08 0.001-00 0.001-00 5.525-08 7.48 | R-00 6.008-06 3.138.08 7.846.06 5.368.05 6.396.06 5.766.06 5.718-08 5.008-00 0.008-00 0.008-00 0.008-00 1.746.18 | 176-07 L046-07 1.715-08 0.005-00 0.005-06 0.005-06 1.246-15 1.965-18 1.965-13 | 1712-05 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1712-05 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1712-03 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 1.428-03 | 1712-05 0.002-00 0.002-00 0.002-00 1.286-14 1.412.05 1.726.08 1.516.07 | 3 712-03 0.006-00 0.002-00 0.006-00 0.006-00 1.276-03 7.406-06 2.158-06 |
| | N-00 0.008-00 5.525.08 7.638.05 5.676.05 5.396.05 1.516.06 4.106-08 0.008-00 0.008-00 0.008-00 0.008-00 1.426-08 | 258-09 1466-07 4.006-08 0.006-08 0.006-08 0.006-08 2.406-06 2.406-05 5.196-05 2.406-04 | 4 30E-08 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 4 106-01 0 006-00 0 006-00 0 006-00 0 006-00 0 006-00 0 006-00 | 6.00E+08 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 2.82E+12 | 4.308-08 0.008-00 0.008-00 0.008-00 7.848-15 1.928-10 2.618-09 2.448-08 | # 106-01 0.006-00 0.008-00 0.006-00 0.006-00 1.666-12 6.106-08 2.086-08 |
| 04-01 0.001-00 | R+00 0.000+00 5.952-06 7.462-06 5.252-06 7.862-05 1.2725-04 4538-05 0.000+00 0.000+00 0.000+00 0.000+00 5.302-05 5.302-00 0.000+000+ | 198-09 2181-07 4.588-08 0.088-08 0.080-08 6.986-08 4.986-05 7.028-05 2.396-04 106-09 2.786.07 0.088-08 0.088-08 0.089-08 6.116.08 3.786.08 0.089-08 0.089-08 | 4580-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 4.53E-03 0.30E-00 0.00E-06 0.00E-00 0.30E-06 0.30E-06 0.30E-00 0.30E-0000000000000000000000000000000000 | 4528-03 0388-08 0388-08 0388-08 0388-08 0388-08 0388-08 2375-11 5388-03 0388-08 0388-08 0388-08 0388-08 0388-08 4375.15 1385.00 | 4586-00 0.008-00 0.002-00 0.008-00 1.275-14 1.078-13 2.895-30 1.596-09 5.008-00 0.006-00 0.002-00 0.008-00 8.346-15 2.728-13 1.675-11 5.576-30 | 4.584-01 0.008-00 0.008-00 0.008-00 0.008-00 1.738-02 3.756-08 2.538-08 5.008-01 0.008-00 0.008-00 0.008-00 5.008-01 5.566.08 2.588.08 |
| 22-03 0.000-00 0.000-00 8.000-00 8.116-19 8.976-38 7.266-38 2.096-17 5.526-68 0.000-00 8.000-00 8.000-00 8.400-00 | 8-00 8.008-06 1.418-08 4.058-06 4.208-05 6.208-05 1.558-04 5.5225-03 0.008-06 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1426-09 1808-07 5528-01 0.008-00 0.008-00 5.086-06 5.086-06 4.046-05 6.648-05 1.586-04 | 5125-03 0302-00 0306-00 0302-00 0.002-00 0.002-00 0.002-00 | 5.528-03 5.008-00 0.008-00 5.008-00 5.008-00 0.008-00 5.008-00 | 5.528-03 0.008-00 0.008-00 0.008-00 0.008-00 3.186-17 3.206-09 | 5.52E-03 0.008-00 0.008-00 7.11E-15 6.17E-13 0.79E-12 1.23E-10 | 5.528-01 0.008-00 0.008-00 0.008-00 0.008-00 0.746-13 2.138-06 2.438-0 |
| | 100 0.002-00 6.002-00 3.362.06 3.296.05 3.395.05 1.382.04 6.096-00 0.002-00 0.002-00 0.002-00 2.032.12 | | 6.0%-03 5.001-0005-00 5.001-0005-0005-0005-0005-0005-0005-0005 | 6.296-00 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 6.700+00 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 | 6.29E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.22E-13 4.846.09 6.73E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 2.84E-04 1.38E-08 | 4.098-63 0.002-00 0.002-00 0.002-00 1.076-34 1.446-13 3.546-12 5.608-11 6.798-63 0.002-00 0.002-00 0.002-00 1.546-15 7.656-14 3.006-13 5.546-12 | 6.0%-03 0.00-00 0.001-00 0.001-00 0.000-00 6.012-03 1.001-08 1.801-08 6.782-03 0.008-00 0.008-00 0.008-00 0.008-00 1.576-03 1.296-08 1.128-08 |
| 48E-03 0.00E-00 0.00E-00 0.00E-00 1.98E-18 2.54E-17 4.59E-17 1.478-16 7.418-08 0.00E-00 0.00E-00 5.80E-00 9.44 | | 125-29 6.695-27 7.495-03 0.005-00 0.005-00 0.005-00 2.255-34 1.905-34 1.945-13 | 7.432-03 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 7.432-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 7.416-03 0.006+00 0.006+00 0.006+00 0.006+00 4.125-13 2.325-08 | 7.405+03 0.000+00 0.000+00 0.000+00 1.456-16 8.678-14 1.668-13 4.536-13 | 7.412-01 0.002+00 0.002+00 0.002+00 0.002+00 5.602-34 7.522-09 8.2222-07 |
| 02-03 0.008-00 0.008-00 0.008-00 4.146-18 5.326-17 9.126-17 2.346-16 8.308-08 0.008-00 0.008-00 1.526-10 4.96 | 8-08 8386-08 1476-08 1388-06 2388-05 8488-05 8488-05 6396-08 8306-08 8 | 126-09 1102-06 8.300-03 0.000-00 0.000-00 0.000-00 3.300-04 3.000-3 1200-3 1200-3 1200-0 0.000-000- | 8.205-03 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 8.208-08 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 9.088-08 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 8.208-03 0.008-00 0.008-00 0.008-00 0.008-00 9.990-25 1.718-12 2.346-08 | 8,208-00 0.008-00 0.008-00 0.008-00 0.008-00 8,158-14 1,588-13 1,498-13 | \$208-03 0.008-00 0.008-00 0.008-00 1.34E-34 2.54E-06 5.58E-07 |
| 006-04 0.008-00 0.008-00 0.008-00 1.296-08 1.576-06 2.578-06 1.056-04 0.008-00 0.008-00 0.008-00 0.986-12 8.46 | 8/00 6388/00 5386-20 5462-07 1542-05 1982-05 7375-05 7482-03 5308/00 5308/00 6388/00 6388-00000000000000000000000000000000000 | LOBE-DE LOBE-DE 100E-DE 0.00E-DE 0.00E-DE 0.00E-DE 0.00E-DE 0.00E-DE 1.00E-DE 1.00E-DE 1.00E-DE 0.00E-DE 0.00E-DE | 1006-04 0.005-00 0.006-00 0.006-00 0.006-00 0.006-00 0.008-00 | 10+800 00+800 00-800 00-8000 00+800 00+800 00+800 00+800 | 8.568-03 0.008-00 0.008-00 0.008-00 0.008-00 5.876-07 2.246-03 6.886-08 1.008-04 0.008-00 0.008-00 0.008-00 0.426-05 1.058-00 9.075-08 | \$068+03 0.005+06 0.005+00 0.005+00 1.586.13 7.786-03 1.556.12 1.995-02 1.005+04 0.005+00 0.005+00 0.005104 1.558-02 1.516-03 4.305.42 | 8088-03 0.008-00 0.008-00 0.008-00 0.008-00 1.976-03 2.188-09 8.246-07 1.008-04 0.008-00 0.008-00 0.008-00 0.088-00 2.888-05 8.476-00 2.888-07 |
| 00E-04 0.00E-00 0.00E-00 0.00E-00 1.09E-07 1.346-06 1.87E-16 4.03E-16 1.00E-04 0.00E-00 0.00E-00 8.82E-12 8.45 | 10-10 2010-10 | 108-08 1086-06 1008-04 0.008-00 0.086-02 5.936-17 1406-13 5526-13 7.626-13 1266-12 | 1.005-00 5.005-00 5.005-00 5.005-00 5.005-00 5.005-00 5.005-00 | 1005-04 5205-00 6201-00 0.005-00 5205-00 5205-00 5205-00 | 1,006-04 0,006-00 0,006-00 0,006-00 0,006-00 1,486-05 1,356-05 5,076-08 | 1.006+04 0.000-00 0.000-00 0.000+00 2.346-13 1.466-12 1.946-12 1.186-12 | 1008-04 0.008-00 0.008-00 0.008-00 2.728-06 9.506-00 2.488-07 |
| | Norm Link Market Link Link Market Link Link Market Link | | 1.582-04 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1.101-04 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 | 1.00-04 0.000-00 0.000-00 0.000-00 0.000-00 1.270-34 4.902-00 1.200-00 1.270-04 0.000-00 0.000-00 0.000-00 4.900-03 1.000.00 1.400.07 | 1.606-04 0.000-00 0.000-00 0.000-00 2.006-03 1.505-02 2.186-02 4.340-02 1.226-04 0.000-00 1.846.05 1.546.04 2.546.03 1.806.03 3.006.02 4.046.03 | 1.004-94 0.000-00 0.000-00 0.000-00 1.396-36 2.518-30 1.876-07 1.228-56 0.000-00 0.000-00 0.000-00 1.718-36 5.956-11 1.118-07 |
| 182-04 0.002-00 0.002-00 0.002-00 4.046-07 1.725-06 4.455-06 5.066-06 1.002-00 0.002-00 1.405-03 1.40 | Born Same Same <th< td=""><td>136-09 786-07 136-04 848-06 1386-04 1396-04 1396-03 8396-03 1356-02 2366-02</td><td>1356-04 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00</td><td>1356-04 0.006-00 0.005-00 0.006-00 0.006-00 0.006-00 0.008-00</td><td>1,958-04 0,008-00 0,008-00 0,008-00 0,008-00 3,958-12 2,798-09 2,198-07</td><td>1356+04 0.005+00 2.025-04 4.026-04 3.786-03 1.866-02 2.586-02 5.576-02</td><td>1.358-04 0.508+00 0.008+00 0.008+00 0.508+00 1.728-06 2.076-11 6.468-08</td></th<> | 136-09 786-07 136-04 848-06 1386-04 1396-04 1396-03 8396-03 1356-02 2366-02 | 1356-04 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1356-04 0.006-00 0.005-00 0.006-00 0.006-00 0.006-00 0.008-00 | 1,958-04 0,008-00 0,008-00 0,008-00 0,008-00 3,958-12 2,798-09 2,198-07 | 1356+04 0.005+00 2.025-04 4.026-04 3.786-03 1.866-02 2.586-02 5.576-02 | 1.358-04 0.508+00 0.008+00 0.008+00 0.508+00 1.728-06 2.076-11 6.468-08 |
| | Bornell Status | | 1496-04 0.005-00 0.005-00 0.005-00 0.008-00 0.005-00 0.005-00 1496-04 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1480-04 0300-00 0300-00 0308-00 0300-00 0300-00 0308-00 1440-08 0300-00 0308-00 0308-00 0308-00 0308-00 0308-00 | 1498-04 0.008-00 0.008-00 0.008-00 0.008-00 2.528-01 6.568-08 1.096-07 1.648-06 0.008-00 0.008-00 0.008-00 1.208.00 1.208.00 1.178.06 1.568-07 | 1491-94 1146-17 1738-14 5086-94 4308-13 2138-12 5308-12 6508-12 1448-94 4405.17 9398-16 5338-13 2446-13 5728-13 2438-12 5348-12 | 1498-94 0.008-90 0.008-90 0.008-90 0.008-90 3.308-98 6.008-12 3.998-98 1446-94 0.008-90 0.008-90 0.008-90 0.008-90 6.228-94 2.998-92 2.178-08 |
| LEIE-04 0.00E-00 0.00E-00 0.00E-00 7.44E-19 1.55E-18 1.81E-04 0.00E-00 2.50E-17 1.84E-15 5.50 | Berg Line Line <thlin< th=""> <thline< th=""> Line <thlin< td=""><td></td><td>1812-04 2.088-00 5.005-00 2.082-00 2.082-00 2.005-00 0.002-00</td><td>LALE-04 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00</td><td>1,812-04 0,002-00 0,002-00 0,002-00 0,002-00 0,002-00 4,632-07</td><td>1818-04 8.008-00 8.008-00 4.508-17 1.118-15 7.198-15 1.076-14 2.778-14</td><td>LEIT-04 0.00E-00 0.00E-00 0.00E-00 0.00E-00 2.825-36 8.835-13 1.30E-08</td></thlin<></thline<></thlin<> | | 1812-04 2.088-00 5.005-00 2.082-00 2.082-00 2.005-00 0.002-00 | LALE-04 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1,812-04 0,002-00 0,002-00 0,002-00 0,002-00 0,002-00 4,632-07 | 1818-04 8.008-00 8.008-00 4.508-17 1.118-15 7.198-15 1.076-14 2.778-14 | LEIT-04 0.00E-00 0.00E-00 0.00E-00 0.00E-00 2.825-36 8.835-13 1.30E-08 |
| 2,000-04 0,000-00 0,000-00 1,000-00 1,000-09 1,756-08 4,596-08 1,306-17 2,000-06 0,000-00 1,506-17 1,606-05 1,20 | Bornell State < | 146-09 7.706-07 1.810-04 0.000-00 0.000-00 0.000-06 1.080-16 1.980-15 2.910-15 5.780-15 | 2001-04 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 2,005-04 0,005-00 0,002-00 0,005-00 0,005-00 0,005-00 0,005-00 | 2,006-04 0,006-00 0,006-00 0,006-00 0,006-00 0,006-00 0,006-00 6,046-07 | 2006-04 0.006-00 0.006-00 0.066-05 9.396-35 3.596-34 3.516-34 | 2.006-04 0.006-00 0.006-00 0.006-00 0.006-00 2.586-06 1.276-03 1.946.09 |

| Sulphate Concertoratio | n in providue | ther leng/1 | | | | | | Concentration | in groundw | anar (ing/i) | | | | | |
|---------------------------|---------------|----------------------|--------------------------|--------------------|----------|----------------------|----------|----------------------|------------|----------------------|----------------------|-------------------------|----------|--------------------------|--------------------------|
| Time (sears) 0.006-00 | | | 2005 Parcary 0.005-00 | | | | 0.00E-00 | Time (vears) | | | 306 Parcent 0.008-00 | 500 Parcent 0-005-00 | | 95th Percent 0.008-00 | 59th Parcent 0.005-00 |
| | | | | | | | | | | | | | | | |
| 2.006-00 | 0.005-00 | 0.006-00 | 0.005-00 | 0.008+00 | 6.025-17 | 2.346-16 | 3.076-04 | 2.005-00 | 0.005+00 | 0.008+00 | 0.005-00 | 0.005-00 | 0.005+00 | 0.008+00 | 0.005-00 |
| 1.006+00 | 1000-00 | 0.008-00 | 1.118-07 | 3.056-15 | 1.962-10 | 5,216-09 | 6.325-08 | 1.008-00 | 0.008+00 | 0.000+00 | 0.008-00 | 0.008-00 | 0.008+00 | 0.006+00 | 0.006-00 |
| 4.000-00 | 1.000-00 | 1 16.05 | 7.266-05 | 1,726,40 | 1,126.07 | 1.516.02 | 1.766.67 | 4.005-00 | 0.000-00 | 0.000 +00 | 2000-00 | 0.000-00 | 0.000+00 | 0.005+00 | 1.000-000 |
| 5.000-00 | 1415-04 | 8.615-04 | 1.916-08 | 2.146.02 | 7.666.02 | 8.848-02 | 1.758-75 | 5.008-00 | 0.005+00 | 0.008+00 | 0.008-00 | 1000-00 | 0.000+00 | 0.008+00 | 0.000-00 |
| 4.000-00 | 2.6% 05 | 1.026-02 | 1.608-00 | 7.346-02 | 1.758-05 | 2.528-05 | 2.846.05 | 6.008-00 | 0.000-00 | 0.008+00 | 0.008-00 | 0.008-00 | 0.008+00 | 0.000+00 | 0.008-00 |
| 7.000=00 | 1.856-02 | 8.106-02 | 4.216-62 | 1.425-01 | 2.9M-01 | 1518-01 | 4.536-01 | 7.006+00 | 0.008+00 | 0.00K =00 | 0.008-00 | 0.008+30 | 0.006+00 | 0.000+00 | 0.008.+00 |
| 8.006-00 | 2,368-02 | 3.846-02 | \$276.42 | 1.876-05 | 4.168.03 | 4.806-01 | 5.968-01 | 8.008-00 | 0.006+00 | 0.005 +00 | 0.008-00 | 0.008-00 | 0.008+00 | 0.008+00 | 0.006-00 |
| 5.000-00 | 2.068-02 | 1.445-02 | 4816-02 | 1.806-01 | 5-028-01 | 3.996-01 | 7,476-01 | 9.005-00 | 0.006+00 | 0.006+00 | 0.006+00 | 0.005+00 | 0.008+00 | 0.006+00 | 2.005-00 |
| 1,005-01 | 1.886-02 | 2.948-02 | 1.96-12 | 1.546-01 | 5.296-01 | \$ 452-01 | 8416-01 | 1.008-01 | 0.508+50 | 0.006=00 | 0.008+00 | 108-10 | 0.006+00 | 0.008+00 | 5.002+00 |
| 1.336+05 | 1.646-02 | 1,596-42 | 1316-42 | 1.396-05 | 4,918-05 | 6.778-01 | 8.066.41 | 1.106-01 | 0.006-00 | 0.006+00 | 0.006<00 | 0.006-00 | 0.006+00 | 0.008+00 | 0.006+00 |
| 1.806+00 | 1436-02 | 1,46.02 | 3.406-02 | 1.318-01 | 4.228-01 | 6.126-01 | 8.762-01 | 1.306-01 | 0.006-00 | 0.006+00 | 0.006-00 | 0.005-00 | 0.005+00 | 0.008+00 | 0.005-00 |
| | 1.638-02 | 2.426-82 | 1.946-02 | 1.296-01 | 4128-01 | 5.918-01 | | 1.405-01 | 0.008-00 | 0.006=00 | 0.008-00 | | 0.006+00 | | |
| 1.601+01 | 1548-02 | 2,876-02 | 1,308-42 | 1,268-05 | 1.996-05 | 5.458-01 | 3.062-01 | 1 608-01 | 0.008-00 | 0.005+00 | 0.008-00 | 0.008-00 | 0.000+00 | 0.008+00 | 0.000-00 |
| 1.706+00 | 1546-02 | 2.346-02 | 8.216-82 | 1,258-05 | 2.965-01 | 1.558-01 | 7.948-01 | 1.706-01 | 0.006+00 | 0.005+00 | 0.008-00 | 0.006-00 | 0.005+00 | 0.006+00 | 0.005-00 |
| 1 908-00 | 1496.02 | 2.296-02 | 1346-00 | 1.228.45 | 8.868-01 | 5.468-01 | 7.808-05 | 1.908-01 | 0.008+00 | 0.008-00 | 0.008-00 | 0.006-00 | 0.008+00 | 0.008+00 | 0.008-00 |
| 2.336+01 | 1.456-02 | 2,226-02 | 25-340.1 | 1.196-01 | 3.766-01 | 5.256-01 | 7.646-05 | 2.106+01 | 0.008+00 | 0.005+00 | 0.006-00 | 0.005+00 | 0.005+00 | 0.005+00 | 0.005-00 |
| 2.306+06 | 148-02 | 1,006-02 | 3 006-62 | 1.148-01 | 1.676-01 | 3.148-01 | 7.538-01 | 2.306-01 | 0.005+00 | 0.008+00 | 0.008-00 | 0.006+00 | 0.006+00 | 0.008+00 | 0.000-00 |
| 2.426+00 | 1.578-42 | 2.186-02 | 2.906-02 | 1136-05 | 3.568-01 | 5.046-01 | 7.848.05 | 2.806-01 | 0.006+00 | 0.008+00 | 0.008-00 | 0.006+00 | 0.008+00 | 0.006+00 | 0.008-00 |
| 2.806-05 | 1326-02 | 1496-02 | 2.776-00 | 1.128-05 | 3.505-01 | 4.976-01 | 7,276-01 | 2.806-01 | 0.005-00 | 0.008-00 | 0.008-00 | 0.005-00 | 0.005+00 | 0.005+00 | 0.005-00 |
| 3.200=01 | 1,298-02 | 2,906-02 | 2.676-62 | 1.075-01 | 8.376-01 | 4.706-01 4.576-01 | 7.008-04 | 8.206-01 | 0.006+00 | 0.008+00 | 0.008-00 | 0.008-00 | 0.000+00 | 0.008+00 | 0.000-00 |
| 3 506-00 | 1.208-02 | 1.946-02 | 2.618-00 | 1.046-01 | 3.268-01 | 4.572-01 | 6.890-01 | 3.506-01 | 0.008+00 | 0.008+00 | 0.008-00 | 5.008+00 | 0.008+00 | 0.006+00 | 0.000-00 |
| 4.806-00 | 1.346-02 | 1.96-02 | 2536-02 | 9 696-01 | 1.018-01 | 4.435-05 | 6.508-01 | 3.905-01 4.305-01 | 0.008+00 | 6.00E+00 | 0.008-00 | 0.006+00 | 0.000+00 | 0.008+00 | 0.008-00 |
| 4.705-00 | 3,796-03 | 1.566-02 | 2408-02 | 9.696-02 | 2.918-01 | 4,016-01 | 6.308-01 | 4.706-01 | 0.008+00 | 0.008+00 | 0.008-00 | 0.008+00 | 0.008+00 | 0.008+00 | 0.008-00 |
| 5.206+01 | 8,756-05 | 1,546-02 | 2378-40 | 8.786-02 | 2.796-01 | 3.846-01 | 6.306-01 | 5.206-01 | 0.008+00 | 0.006+00 | 0.008-00 | 0.008-00 | 0.006+00 | 0.000+00 | 0.008-00 |
| | | | | | | | | 2.885-94 | | | | | | | |
| 5.788-01 | 2746-05 | 1.445-02 | 2 808-62 | 6.816-62 | 2478-01 | 1677-01 | 5.896-01 | 5.205-01 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-30 | 0.005+00 | 0.000+00 | 6.002-00 |
| 5.700+01 | 2.746-05 | 1286-02 | 2.008-02 | 2.786-02 | 2.678-01 | 1476-01 | 5.896-01 | 5.706+01 | 0.005+00 | 0.008+00 | 0.008-00 | 0.008-00 | 0.005+00 | 0.008+00 | 0.008-00 |
| 2.000+00 | 4.986-05 | 1.296-02 | 1,715,42 | 7,798,402 | 2.596-05 | 1.296.01 | 5.636-01 | 2.408-01 | 0.008+00 | 0.008+00 | 0.008-00 | 0.008-30 | 0.008+00 | 0.008+00 | 0.008-00 |
| 7.826-00 | 4,011,03 | 1,128-02 | 1418-02 | 4.858.02 | 2.296-03 | 1.086-01 | 5.100-01 | 7.806-01 | 0.005+00 | 0.008-00 | 0.008-00 | 5.005-00 | 0.008-00 | 0.006+00 | 0.005-00 |
| 8.400-00 | 1.446-03 | 1.005-02 | 146-0 | 6.286-02 | 2.186-01 | 2.665-01 | 4.816-05 | 8.605-01 | 0.008-00 | 0.006-00 | 208-00 | 0.000-00 | 0.006+00 | 0.008-00 | 0.005-00 |
| 8,500-01 | 2,996-08 | R.#1E-03 | 1,86.40 | 5.908-02 | 2,076-03 | 2,728-01 | 4.605-01 | \$ 506-01 | 0.005-00 | 0.000 -00 | 0.000-00 | 0.000-00 | 0.000+00 | 0.008+00 | 0.000-00 |
| 1.068-02 | 2.086-03 | 7.878-03 | 1,206-02 | 5.468.00 | 1.948-05 | 2.558-01 | 4.348-05 | 1.056-02 | 0.008+00 | 0.008-00 | 0.008-00 | 0.006-00 | 0.008+00 | 0.008+00 | 0.008-00 |
| 1.166+02 | 1.428-03 | 6.825-03 | 1.0%-02 | 5.006-02 | 1.806-01 | 2.296-01 | 4.076-01 | 1.166-02 | 0.005-00 | 0.005-00 | 0.005-00 | 0.006-00 | 0.006+00 | 0.008+00 | 0.005-00 |
| 1.288-02 | 1.045-05 | 5.852-03 | 9.382-00 | 4.536-00 | 1.625-01 | 2.248-01 | 3.788-01 | 0.286+02 | 0.008-00 | 0.005+00 | 0.008-00 | 0.008-30 | 0.000+00 | 0.008+00 | 0.000-00 |
| 1.406+02 | 7.538-04 | 4.506-03 | 8.046-08 | 4.068-02 | 1.496-01 | 2.048-01 | 1508-01 | 1.418-02 | 0.008+00 | 0.006+00 | 0.008+00 | 0.305+30 | 0.006+00 | 0.008+00 | 0.005-00 |
| 1.946+02 | 4.962-04 | 1.482-03 | 6496-03 | 1.546-02 | 1.335-01 | 1.878-01 | 8-256-05 | 1.568-02 | 0.008+00 | 0.00E+00 | 0.006+00 | 0.008-00 | 0.006+00 | 0.006+00 | 0.00000 |
| 1.726-02 | 3.206-04 | 2.646-03 | \$.216-08 | 3.136-02 | 1.176-05 | 1.646-01 | 2.958-05 | 1.726-02 | 0.006+00 | 0.006+00 | 0.006-00 | 0.006-00 | 0.005+00 | 0.006+00 | 1.066-18 |
| 1.905-02 | 1.845-04 | 1.962-03 | 416-0 | 2.656-02 | 1.018-01 | 1.476-01 | 2.616-01 | 1.906-02 | 0.008-00 | 0.006-00 | 0.006-00 | 0.005-00 | 0.000-00 | 0.006-00 | 1.968-16 |
| 2.506+00 | 8.238-05 | 1.198.49 | 1,342-43 | 2.906-02 | 9-028-02 | 1.528-01 | 2.336-01 | 2.606-02 | 0.008-00 | 0.00E-00 | 0.008-00 | 0.008-00 | 0.006+00 | 0.006-00 | 3.282-14 |
| 2,828+02 | 1.428-05 | 8.258-06 5.605-04 | 2.425-05 | 1.938-02 | 7.706-02 | 1.118-01 | 2 118-01 | 2,828+02 | 0.005+00 | 0.008-00 | 0.006-00 | 0.005+30 | 0.005+00 | 0.008+00 | 1,606-12 |
| 2 548-02 | 1308-05 | 5.605-04 | 1.16-08 | 1.405-02 | 5.685-02 | 9.676-02 | 1.908-01 | 2.548+02 | 0.008+00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.000+00 | 0.008+00 | 1.338-13 |
| 2.828-02 | 4.558.06 | 1.296-06 | 1.1%-08 | 1.298-02 | 4.675-02 | 8.388-02 | 1.676-05 | 2.826-02 | 0.008+00 | 0.008-00 | 0.008-00 | 0.008+00 | 0.008+00 | 0.006+00 | 1 105-08 |
| 3.006-00 | 1488-06 | 1.035-04 | 7.362-04 | 9.975-08 | 8.675-02 | 8,798-02 | 1.125-01 | 3.008-02 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008+00 | 0.008+00 | 5,738-09 |
| 3.126+02 | 1.638-07 | 4715-04 | 4.768-04 | 3.565-00 | 3.876-02 | 5.346-02 | 8.976-62 | 3.128-02 | 0.008+00 | 0.008+00 | 0.008-00 | 0.008-00 | 0.006+00 | 0.008+00 | 4136-08 |
| 3.836-02 | 4416-05 | 2046-05 | 1.552.04 | 4.080-01 | 2 506-02 | 3.445-02 | 7.586-02 | 5.808-02 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.005+00 | 0.008+00 | 1,258-08 |
| 4.336+02 | 1218-08 | 1.101-06 | 8.285-25 | 2,818,419 | 1 925-02 | 1.768.47 | 6.268.02 | 4.206-07 | 0.005+00 | 0.000 -00 | 0.000-00 | 0.000-00 | 0.000+00 | 0.000+00 | 2.675-07 |
| 4 645-02 | 2.938-09 | 1.428-06 | 4.408-05 | 2.088.08 | 1.478-02 | 2.188-02 | 5.296.02 | 4.545-07 | 5.008+00 | 0.008-00 | 0.008-00 | 0.006-00 | 0.008+00 | 0.008+00 | 5.962-07 |
| \$ 126-02 | 7.646-10 | 1.105-06 | 2.368-65 | 1.546-00 | 1176-02 | 1786-02 | 4.525-02 | 5.126-02 | 0.005-00 | 0.008-00 | 0.005-00 | 6.005-00 | 0.006+00 | 0.006+00 | 8.008-07 |
| 5.450×02 | 2.7%8-10 | 7.628-67 | 1.426-68 | 1.186-05 | 9.546-03 | 1.448-02 | 3.786-02 | 5.658+02 | 0.008+00 | 0.008+00 | 0.005+00 | 0.008-00 | 0.000+00 | 0.008+00 | 1.182-06 |
| 4.246+02 | 8.925-11 | 8.258-07 | 4.665-06 | 8.405.04 | 7.398-03 | 1166-02 | 5.048.42 | 6.246-02 | 0.306-00 | 0.008-00 | 0.008-00 | 0.006+00 | 0.008+00 | 0.000+00 | 1.608-08 |
| 4.890-00 | 1.236-11 | 1.036-07 | 2466-06 | 4.995-04 | 5.266-03 | 6.386-88 | 2.286-02 | 6.896-02 | 0.005-00 | 0.006-00 | 0.005-00 | 0.005-00 | 0.005+00 | 1.125-18 | 2.005-06 |
| 7.618+02 | 1.128-12 | 2.846-08 | 6.976-07 | 2,796-04 | 1.662-03 | 3.546-01 | 1.646-02 | 7.618-02 | 0.005-00 | 0.008+00 | 0.008-00 | 0.008-00 | 0.006+00 | 2.746-06 | 2.838-06 |
| 8.408-02 | 3.668-14 | 1.546-09 | 2496-07 | 1.518-04 | 2.418-03 | 3478-01 | 1.146-02 | 8.408-02 | 0.006+00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008+00 | 1.625-04 | 2.648-08 |
| 9.286+02 | 5.746-13 | 1.228-09 | 4.625-08 | 7.458-05 | 1.542-03 | 2,376-08 | 7.628-08 | 8.288-02 | 0.008-00 | 0.00E+00 | 0.008-00 | 0.008+00 | 0.008+00 | 4.381-13 | 4.218-06 |
| 1.00(+0) | 3.018-14 | 3,575-10 | 1.916-08 | 3.486-05 | 9.006-04 | 1406-08 | 4.958-23 | 1.006-08 | 0.306+30 | 0.008-00 | 0.006-00 | 0.006-00 | 0.006+00 | 4,705-12 | 5.396-06 |
| 1.025+09 | 8.796-15 | 1.668-10 | 6.625-09 | 1.456-05 | 5.228-04 | 8.575-04 | 2.926-08 | 1.028-08 | 0.006+00 | 0.008+00 | 0.008+00 | 0.005+00 | 0.006+00 | 7.926-12 | 5.178-06 |
| 1.138-08 | 3.435-13 | 1.956-10 | 3.346-09 | 5.ME-06 2.1%L06 | 2788-04 | 5.258-04 | 1.716-09 | 1,256-03 | 0.008+00 | 0.00E+00 0.00E+00 | 0.008-00 | 0.008-00 | 0.006+00 | 8.725-11 | 4,006,06 |
| 1.395+00 | 1,588-13 | 1.998-10 | 3,756-02 | 2.196-06 | 1458-04 | 1.385-04 | 9.528-04 | 1.258-08 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008+00 | 3.208-00 | 4,338-06 |
| 1.526-08 | 1518-13 | 1408-11 | 3.756-02 | 2.786.47 | 1.758-05 | 1.385-04 | 4.755-04 | 1.588-08 | 0.306-30 | 0.008+00 | 0.008-00 | 0.008-00 | 0.008+00 | 1478-09 | 4.228-06 |
| 1.680-00 | 1,295-14 | 9,295-12 | 7.415-11 | 1,146-07 | 2.726-05 | 1.142-05 | 2.608-04 | 1.605-03 | 0.000-00 | 0.000-00 | 4.000-00 | 0.000-00 | 0.000+00 | 7.816-09 | 5.626-06 |
| 1.842-00 | 1100-14 | 1.788-12 | 2.218-11 | 1,296-07 | 1.861-05 | 1125-04 | 4 142-04 | 1.668-03 | 0.002-00 | 0.008-00 | 0.002-00 | 0.002-00 | 0.008+00 | 1.740-05 | 5.535-06 |
| 2.065-03 | 1.445-15 | 1.046-12 | 4.026-12 | 1,258,47 | 4.728-05 | 128-04 | 4.290-04 | 2.056-03 | 0.005+00 | 0.005-00 | 0.008-00 | 1.005-30 | 8.046-05 | 1.02-08 | 510.00 |
| 2.366+00 | \$128-17 | 2.096-13 | 1.715-12 | 2.435-08 | 1.436-05 | 4 256-05 | 2.005-04 | 2.266-03 | 0.005+00 | 0.005+00 | 0.008+00 | 6.005-00 | 5.225-26 | 6.576-08 | 4765-06 |
| 2.908+00 | 1418-15 | 7.196-14 | 4,996-13 | 4.065-05 | 4.672-06 | 1,852-05 | 83345 | 2,506-03 | 0.008+00 | 0.005+00 | 0.000 -00 | 0.008-00 | 1.662-15 | 6.128-06 | 1.865-06 |
| 2.768-03 | 0.005-00 | 8.828-04 | 1.496.04 | 5.558-20 | 1.828-06 | 6.075-06 | 2.788-05 | 2.766-03 | 0.006+00 | 0.005-00 | 0.008-00 | 5.006-00 | 1436-24 | 5.858-08 | 1.625-06 |
| 1.000-01 | 0.005-00 | 0.000-00 | 4.662-03 | 4,506-11 | 3.318-07 | 1,746-06 | 8.246-06 | 5.008-03 | 0.006-00 | 0.005+00 | 0.000-00 | 6.008-00 | 2.476-53 | 7.508-06 | 8.228-06 |
| 3.056+03 | 0.005-00 | 1.006-00 | 0.005-00 | 2.646-02 | 6.525-08 | 4.425-07 | 2,316-06 | 1.056-08 | 0.005+00 | 0.005 +00 | 0.005-00 | 0.006+00 | 3.496-53 | 1.105-08 | 3.236-06 |
| 3.86*01 | 0.008-05 | 0.800-90 | 0.008+00 | 4.856-13 | 1.125-08 | 1445-08 | 5.918-07 | 8.368-08 | 0.006-00 | 0.006+00 | 8.018-00 | 0.005+00 | 5.085-13 | 6.038-08 | 2.968-06 |
| 1.71g+05 | 0.006-00 | 0.000-00 | 0.008-00 | 1.286-14 | 1418-09 | 1.728-08 | 1.116-07 | 3.718-08 | 0.006-00 | 0.00E-00 | 0.008-00 | 0.008-00 | 1.276-52 | 7.406.08 | 2.158-06 |
| 4.326+09 | 0.005-00 | 0.006-00 | 0.005+00 | 7.846-25 | 1.925-10 | 2.615-09 | 2,446,08 | 4.106-03 | 0.306+30 | 0.008+00 | 0.006-00 | 0.005-00 | 1.466.52 | 6.106-08 | 2.085-06 |
| 4586+08 | 0.008-05 | 0.805+90 | 0.008+00 | 1.276-14 | 1.078-13 | 2.896-10 | 1.906-09 | 4 536~01 | 0.008+00 | 0.006+00 | 0.0KE+00 | 0.305+00 | 1.736-52 | 3.756-08 | 2.528-06 |
| 5.008-05 | 0.006-00 | 0.008-00 | 0.008-00 | 8.346-15 | 2.728-12 | 3478-11 | 5.576-30 | 5-006-03 | 0.008+00 | 0.00E=00 | 0.008-00 | 0.000+00 | 6.096-13 | 3 146-08 | 2.188-06 |
| 5.528+04 | 1.008-08 | 0.008-00 | 0.006+00 | 7.118-15 | 6178-18 | 8.796-12 | 1.236-10 | 5.528-08 | 0.008+00 | 0.006=00 | 0.018-00 | 5.008-00 | 8.746-13 | 2.101-06 | 2.425-06 |
| 6.090-03 | 0.008-00 | 0.000-00 | 0.008-00 | 1.075-14 | 1466-13 | 3.106-13 | 5.608-12 | 6.090-03 | 0.008+00 | 0.008-00 | 0.008-00 | 0.005-00 | 4.002-03 | 1.431-08 | 1,855-05 |
| 5.790+00 | 0.005-00 | 0.006-00 | 0.008-00 | 1.455-15 | 7.658-14 | 3.306-13 | 5.966-12 | 6.73E=08 7.4HE=08 | 0.008+00 | 0.008+00 | 0.008-00 | 0.008+00 | 2.576-58 | 1,296-08 | 1128-06 |
| 7.410+00 8.208+00 | 0.000-00 | 0.000-00 | 0.008+00 | 0.008+00 | 8.158-14 | 1,556-13 | 4.536-13 | 7.436=03 | 0.008+00 | 0.008+00 | 0.008+00 | 0.000+00 | 1.142-14 | 7.518-09 | 5.988-07 |
| 8,068-03 | 0.005-00 | 0.000-00 | 0.008-00 | 1.586-00 | 2.796-13 | 1 196-12 | 1.996-12 | 8.208-03 | 0.008+00 | 0.008+00 | 0.006-00 | 0.008-00 | 1.946-24 | 2.968-09 | 1,248-07 |
| \$ 06E+05 1 00E+04 | 0.008-00 | 0.006-00 | 0.008-00 | 1.006-13 | 2.796-13 | 1.158-12 | 4.808-12 | 9 068-03 | 0.008+00 | 0.008+00 | 0.008-00 | 0.000 -00 | 2.695-25 | 2.348-09 | 2.486.07 |
| 1.000-04 | 0.000-00 | 0.006-00 | 0.008-00 | 2,346-12 | 1.498-12 | 1.96-12 | 3.186-12 | 1.008-04 | 0.006-00 | 0.008-00 | 0.000-00 | 0.006-00 | 2,726-26 | 9.505-00 | 2.486-07 |
| 1.000-04 | 0.008-08 | 0.000-00 | 0.008-00 | 2.096-12 | 1.318-12 | 2.186-12 | 8.146-12 | 1.008-04 | 0.308-30 | 0.008+00 | 0.008-00 | 0.008-00 | 1.798-06 | 2.518-10 | 1.475-07 |
| 1,225+04 | 1005-00 | 1.646-15 | 1.545-14 | 2.008-12 | 1.008-12 | 2.006-02 | 4.040-02 | 1,228-04 | 0.005+00 | 0.000+00 | 0.008-00 | 0.008-00 | 1.718-08 | 2.518-00 | 1108-07 |
| 1.356+04 | 0.000-00 | 2.025-14 | 4525-04 | 3,796-13 | 1.965-12 | 2.585-12 | 5.575-12 | 1,155-04 | 0.005+00 | 0.008+00 | 0.005-00 | 0.005-00 | 1.726-26 | 2.076-11 | 6.466-05 |
| 1490-04 | 1146-17 | 1.78-14 | 5.016-14 | 4.818-13 | 2.198-12 | 3.306-12 | 6.056-12 | 1.495-04 | 0.005-00 | 0.008+00 | 0.008-00 | 0.008-00 | 3,308-16 | 6.008-12 | 1938-08 |
| | 1406.17 | 9,356-14 | 5.536.45 | 2446.13 | 1.738-12 | 1.428-12 | 3.046.02 | 1.645-04 | 0.008+00 | 0.008+00 | 0.008-00 | 0.008-00 | 6.228-04 | 2.996-12 | 2.178-08 |
| 1461-04 | | | | | | | | | | | | | | | |

| Ammonia cal N | Asserie | Cadmium | Disette | Categori | Land | Metany |
|---|--|--|---|--|--|---|
| Concentration in groundwater [mg/f] Time Intern Lin Persentia 595 Persent 2016 Persent 5066 Persent 5956 Persent 1956 Persentilie 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 | Concentration III generates [Ing/I] Time lvesn() Ist Persent 30h Persent 50h Persent 50h Persent 50h Persent 50h Persent 50h Persentile このビージの 5.00ビージ 0.00ビージ 0.00ビージ 0.00ビージ 0.00ビージ 0.00ビージ 0.00ビージ 0.00ビージ | Concentration in providuates [leg?] Tane Leard 2xt Persenti 5th Persent 20th Persent 50th Persent 95th Persent 95th Persentile 0.002+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 | Concentration in general-state [leg] Tame (eary) 2d Personii 3dh Personii 2dh Personi 3dh Personi 3dh Personi 9dh Personiile 2002-00 2002-00 2003-00 2003-00 5202-00 5202-00 5202-00 5203-00 | Consertation is ground-safer [rsg1] Sime Assed 2xt Percenti Sti Percent 20th Percent 50th Percent 50th Percent 50th Percentite 3x6(~x5 5x0(~x5 5x0(~ | Concentration in genundwater (regil) Time locani: bit Persanti Shi Persanti 20th Persant S0th Persant 90th Persant 90th Persantile 0.004-00 0.004-00 0.004-00 0.004-00 0.004-00 | Cancertration in providential (leg)() Time Learn) 24 Percenti Stit Fercanti 2011 Percent S011 Percent 5011 Percent 5011 Percent 5011 Percent 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 |
| 1002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1.005-00 0.005-00 0.008-00 0.005-00 0.005-00 0.008-00 0.005-00 | 1.002-00 5.002-00 5.002-00 0.002-00 0.002-00 0.002-00 | 1000-00 0.000-00 0.000-00 0.000-00 0.270-00 0.270-00 0.046-07 2.110-05 | 1005-00 0.002-00 0.000-00 0.000-00 0.000-00 0.000-00 | 100-00 000-00 000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 1002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 |
| 2.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 2.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 2.550-00 | 2488-30 5388-30 5388-30 5388-30 5388-30 5388-30 5388-30 5388-30 | 1002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 2.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 |
| 00-300.0 00-300.0 00-300.0 00-300.0 00-300.0 00-300.0 00-300.0 | 1.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 1.00E-00 1.00E-00 1.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1008-00 0.008-00 0.008-00 0.008-00 1.876-0° 6.218-06 1.276-04 1.126-04 | 1.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.006-00 0.006-00 | 1.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 |
| 4.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 4.00(+00 0.006+00 0.006+00 0.006+00 0.006+00 0.006+00 0.006+00 | 4.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 4.00E-00 0.00E-00 9.82E-13 8.09E-09 4.62E-05 2.06E-08 3.79E-08 7.56E-08 | 4.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 4.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 4.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 |
| 5.00E-00 0.00E-00 0.00E-000E-0 | 5.005-00 5.005-00 0.008-00 0.005-00 0.005-00 5.005-00 5.005-00 5.005-00 | 5005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 5.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | \$006-00 0.008-00 6.025-02 2.06-07 8.096-04 1.065-02 2.025-00 4.768-02 5.008-00 0.008-00 2.096-04 5.086-05 6.086-03 5.066-02 7.026-00 1.066-01 | 5.00E-00 0.00E-00 0.00E-00000E-0000000000 | 5.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 5.006-00 5.006-00 0.008-00 0.006-00 0.006-00 5.006-00 0.006-00 5.008-00 5.006-00 5.008-00 5.008-00 5.006-00 5.006-00 |
| 7.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 1.045-19 | 7.006+00 0.006+00 0.008+00 0.008+00 0.008+00 0.006+00 0.006+00 | 7005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 7.008-00 0.008-00 6.788-05 1.198-03 2.698-02 9.698-02 1.108-01 1.688-01 | 7.00(-00 0.00(-00 0.00(-00 0.00(-00 0.00(-00 0.00(-00 0.00(-00 | 7.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 7.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 |
| 8.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 1.448-18 | 8.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 8.008-00 0.006-00 0.006-00 0.006-00 0.008-00 0.008-00 0.006-00 | 8.008-00 5.506-03 1.168-02 1.688-02 5.728-02 1.498-05 1.788-05 2.576-05 | 8.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 8.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 8.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 |
| \$006+00 0.006+00 0.006+00 0.006+00 0.006+00 0.006+00 1.116-15 1.006+00 0.006+00 0.006+00 0.006+00 0.006+00 3.456-18 2.636-15 4.696-12 | 5.00E+00 6.00E+00 0.00E+00 0.00E+00 0.00E+06 0.00E+000E+000E+000E+000E+000E+000E+000 | 9.00E-06 5.00E-06 5.00E-00 5.00E-00 0.00E-00 0.00E-00 0.00E-00 1.00E-05 0.00E-06 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | \$006-00 1086-02 1676-02 2366-02 8046-02 1996-01 2366-01 2396-01 1086-06 8586-00 1476-02 1598-02 7.798-02 2228-01 2788-04 3556-01 | 5305-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 1.005-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 5.055-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 1.055-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | \$005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 1.005-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 |
| 1000-01 0.000-00 0.000-00 0.000-00 0.000-00 1.000-01 1.000-01 1.775.10 | 100-01 0.00-00 0.00-00 0.00-00 0.00-00 0.00-00 0.00-00 | 1102-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1000-01 8580-01 14/1-02 1200-02 7.758-02 2.220-01 2.758-01 1508-01 1000-01 2.858.01 1308.02 1408.02 4.758.02 2.318.01 2.968.08 1508.01 | 100-01 000-00 0000-00 0000-00 0000-00 0000-00 0000-00 | 100-01 000-00 000-00 000-00 000-00 000-00 000-00 000-00 | 100-01 0.00-00 0.00-00 0.00-00 0.00-00 0.00-00 0.00-00 |
| 1.008-00 0.008-00 0.008-00 0.008-00 0.008-00 1.668-12 1.138-30 2.018-08 | 1,306+01 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 | LICE-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | LINE-GE 7336-05 1176-02 1538-02 5.746-02 2.006-01 2.006-01 4.006-01 | 1.88-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.008-01 0.008-00 5.008-00 5.008-00 5.008-00 5.008-00 5.008-00 | 1.508-01 0.508-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 1406-01 0.006-00 0.006-00 0.008-00 0.008-00 1.346-13 5.598-00 5.768-08 | 1406+01 0.006+00 0.006+00 0.006+00 0.006+00 0.006+00 0.006+00 | 1408-01 2,008-00 2,008-00 2,008-00 0,008-00 0,008-00 0,008-00 | 1408-01 7076-03 1115-02 1478-02 5428-02 1308-01 2548-01 4256-01 | 140(-01 0.00(+00 0.000,00 0.000,00 0.000-00 0.00(+00 0.00(+00 | 1406-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1406-01 0.006-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 1.60E+05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.568.20 7.42E.09 0.96E.07 | 1.60E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 1.606-01 0.006-00 0.006-00 0.006+00 0.006-00 0.006-00 0.006-00 | 1408-01 4396-03 1306-02 1446-02 5306-02 1806-01 2476-01 4318-01 | 1406-01 0.006-00 0.008-00 0.008-00 0.006-00 0.006-00 0.006-00 | 1.606-05 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 1806-01 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 |
| 1306-00 0.006-00 0.006-00 0.006-00 0.006-00 1.186-09 1.616-08 7.046-03 | 1795-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1708-01 2.006-00 2.006-00 0.008-00 0.008-00 0.008-00 2.006-00 | 1708-01 6.006-03 1006-02 1428-02 5.488-02 1708-01 2.488-01 4.076-01 | 1706-01 5306-00 5306-00 5306-00 5306-00 5306-00 5306-00 | 1708-05 0.008-00 5.008-00 5.008-00 5.008-00 5.008-00 5.008-00 | 1705-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 |
| 1.90E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 9.185-09 1.04E-07 2.40E-06 2.10E+00 0.00E+00 0.00E+00 0.00E+00 0.84E-09 0.00E-07 4.94E-06 | 1.90E+EL 0.00E+00 0.00E+00000E+00000000E+0000000000 | 1902-03 5.002-00 5.002-00 5.002-00 5.002-00 5.002-00 5.002-00 2.102-03 5.002-00 5.002-00 5.002-00 5.002-00 5.002-00 5.002-00 | 1908-01 6.796-01 1.046-02 1.408-02 5.338-02 1.796-01 2.376-01 1.996-03 2.598-02 6.676-03 1.046-02 1.376-02 5.288-02 1.756-03 2.346-03 3.946-03 | 190E-01 0.00E-00 0.00E-00000E-0000000000 | 1.502-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1.908-01 0.005-0000000000 |
| 2305-05 0.005-00 0.005-00 0.005-00 2.236-17 1.296-07 7.846-07 9.426-06 | 2.106+01 0.008+00 0.008+00 0.008+00 0.006+00 0.008+00 0.008+00 | 2.108-01 0.005-00 0.006-00 0.008+00 0.008-00 0.008-00 0.006-00 | 2.808-00 6.986-03 1.008-02 1.398-02 5.196-02 1.876-05 2.308-05 8.876-05 | 2.805-01 5.005-00 5.005-00 5.005-00 5.005-00 5.005-00 5.005-00 | 2.108-05 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.806+05 0.006+00 0.005+00 0.006+00 0.006+00 0.006+00 0.006+00 |
| 2.626-01 0.006-00 0.006-00 0.006-00 1.746-15 4.666-07 2.516-06 1.796-05 | 2.606-01 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 2405-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 2408-01 6468-03 9346-03 1326-02 5346-02 1426-01 2368-01 1796-01 | 2.426-01 0.005-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 2406-05 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 2.606-01 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 |
| 2.50E+01 0.00E+00 0.00E+00 0.00E+00 1.51E-04 9.23E-07 4.34E-06 2.43E-05 3.20E+01 0.00E+00 0.00E+00 0.00E+00 9.71E-33 2.74E-06 9.63E-06 4.23E-06 | 2.80E+01 0.00E+00 000E+00 0.00E+00 0.00E+0000E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+0 | 2.602-01 0.002-0000000000 | 2.002-01 6.002-01 9.702-01 1.270-02 4.970-02 1.602-01 2.206-01 9.702-01 1.200-01 5.406.01 9.406.05 1.246.01 4.646.02 1.566.01 2.106.01 9.666.01 | 2.808-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.808-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 3.308-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.808-01 0.008-0000000000 |
| 3.200-01 0.000-00 0.000-00 0.000-00 3.400-11 4.400.06 3.500-06 4.220-05 | 3.528-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1528-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1508-01 5308-03 5408-03 1248-02 1348-02 1508-01 2388-01 1508-01 5308-03 5208-05 1208-02 4348-02 1528-01 2388-01 | 1528-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1528-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1528-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 |
| 3.908+01 0.008-00 0.008+00 0.008+00 1.685-30 8.538-36 2.448-35 7.878-35 | 3.906-01 0.006-00 0.008-00 0.008-00 0.006-00 0.006-00 0.006-00 | 3.906-01 0.096-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 1902-01 5.206-01 9.016-01 1168-02 4.616-02 1.486-01 1.496-01 1.496-01 | 3.908-00 00-3003 00-3003 00-3003 00-3003 00-3003 00-3004 00 | 3.908-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.906+01 0.306+00 0.306+00 0.006+00 0.006+00 0.306+30 0.306+30 |
| 4.308+05 0.008+00 0.008+00 0.008+00 1.612-09 1.452-05 1.146-05 9.585-05 | 4.008-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 4308-01 5008-00 5308-00 5308-00 5308-00 5308-00 5308-00 | 4.886-05 5.056-05 8.796-05 1126-02 4.486-02 1.446-01 2.056-01 3.406-01 | 4306-01 0306-00 0306-00 0306-00 0306-00 0308-00 0308-00 | 4.508-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 4.508-01 0.508-50 0.508-50 0.508-50 0.508-50 0.508-50 0.508-50 |
| 4.708-01 0.008-00 0.008-00 0.008-00 7.818-09 1.588-05 8.188-05 1.138-04 5.208-05 0.008-00 0.008-00 1.088-18 1.818-08 1.008-05 5.888-05 1.448-04 | 4.708+61 6.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 5.708+01 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 | 4.70E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 5.20E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 4.782-01 4.902-01 8.482-01 1.082-02 4.392-02 1.402-01 1.502-01 5.208-01 4.275-01 7.812-01 1.042-02 4.302-02 1.342-01 1.916-01 1.792-01 | 4.70E-01 0.90E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.20E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 4.708-01 0.008-0000000000 | 4.70E+01 0.00E+00 0.00E+000E+0 |
| 5.00% CMEW CMEW 128-18 128-18 128-18 128-18 128-18 | sales even cours course course course course | | 5-05% \$2-740 (3054) 10647 \$20541 12645 12645 12645 | | | source early early early early early early early |
| 5.708-01 0.008-00 0.008-00 5.908-17 1.488-07 1.988-05 7.408-06 1.688-04 | 5708-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 5.708-01 8.008-00 8.008-00 6.008-00 6.008-00 6.008-00 8.008-00 | 5.706-01 3.906-03 7.406-03 1.006-02 4.056-02 1.006-01 1.046-01 1.046-01 | 5702-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 5.708+01 0.008+06 0.008+06 0.008+06 0.008+06 0.008+06 0.008+06 | 5.708-01 0.008-00 0.008-00 0.008-00 0.008-00 0.006-00 0.006-00 |
| 6.402-01 0.002-02 4.54E-03 5.54E-05 4.58E-07 5.14E-05 5.28E-05 1.87E-04 7.002-05 0.002-02 6.32E-07 1.67E-01 1.28E-06 6.44E-05 1.09E-04 2.02E-04 | 6.405-01 0.005-00 0.005-00 0.008-00 0.005-0000000000 | 6.402-01 0.002-0000000000 | 6.408-01 3.056-01 6.906-03 9.446-03 1.846-02 1.256-01 1.758-01 2.906-01 7.908-01 3.316-03 6.326-03 8.056-03 1.846-02 1.326-01 1.846-01 2.756-01 | 6.405-01 0.002-0000000000 | 6.408-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 7.008-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 6.402-01 0.002-0000000000 |
| 7.00E+05 0.00E+00 6.03E-17 1.09E-18 1.28E-06 6.44E-05 1.09E-04 2.02E-04 7.00E+05 0.00E+05 5.44E-15 4.71E-12 2.99E-06 7.72E-05 1.28E-04 2.23E-04 | 7.008+01 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 | 7.00E-01 0.00E-00 0.00E-00 0.00E+00 0.00E+00 0.00E+00 0.00E-00 0.00E-000E-0 | 7308-01 1310-03 6,500-03 8,360-03 1360-02 1300-01 1460-01 1260-01 7808-01 1260-03 5,360-03 8,360-03 3,470-02 1,360-01 1560-01 1260-01 | 7.808-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 7.808-00 0.008-00 0.008-00 | 7.808-05 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 7,008-01 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 |
| 8.508+01 0.008+00 1.688-13 8.226-11 5.896-06 8.758-05 1.378-04 2.638-04 | 8.606-01 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 8.408-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 8408-01 2556-01 5458-03 7.756-09 3.278-02 1.108-06 1.508-06 2.496-01 | 5.525-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 8.528-05 0.008-00 5.008-00 0.002-00 0.008-00 0.001-00 0.008-00 | 8.608-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 9.508-01 0.008-00 4.708-12 6.688-10 9.518-06 1.058-04 1.538-04 2.788-04 | \$ 508-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 9.50E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 8508-01 2,096-01 5,028-03 7,328-03 3,186-02 1,068-01 1,446-05 2,408-01 | \$ 50E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 5.50E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | \$ 50E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 |
| 1058-02 1505-18 1308-10 5308-09 1388-05 1368-04 1746-04 2308-04 | 105E+52 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 1.05E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1058-02 1368-03 4576-03 6.688-03 2.988-02 1028-01 1368-03 2.988-03 1368-03 1.988-03 4.988-03 4.348-03 1398-03 5.988-03 1398-03 | 1/56-02 0-000-00 0-000-00 0-000-00 0-000-00 0-000-00 0-000-00 | 1056-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1056-02 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 |
| 1385-02 2226-03 1396-08 1426-07 2366-05 1396-04 1496-04 1496-04 | 1364-62 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1284-02 5208-00 5308-00 5308-00 5308-00 5308-00 5308-00 5308-00 1286-02 5208-00 5308-00 5308-00 5308-00 5308-00 5308-00 | 1364-00 1366-01 4366-03 4346-03 1306-00 9316-01 1366-01 2306-01 | 136-01 0300-00 0300-00 0300-00 0300-00 0300-00 0300-00 | 1282-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1262-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 1262-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 |
| 1.418+02 1.098-12 3.788-08 3.898-07 2.578-05 1.388-04 2.088-04 1.528-04 | 1.412+02 0.005+00 0.002+00 0.005-00 0.006+00 0.005+00 0.005+00 | L41E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1418-01 8258-04 2.898-05 4.898-05 2.308-02 8.898-01 1.898-01 | 1418-01 000E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1418-52 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.416-02 0.006-00 0.008-00 0.008-00 0.008-00 0.006-00 0.006-00 |
| 1566-02 1766-15 2.176.07 1.596-06 3.026-05 1.436-04 2.026-04 2.896-04 | 1566+02 0.006+00 0.006+00 0.006+00 0.006+00 0.006+00 0.006+00 | 1546-03 2.006-00 2.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 1,568-02 5,086-04 2,586-03 4,228-05 2,058-02 7,546-02 8,768-02 1,828-01 | 1542-00 00-300.0 00-300.0 00-300.0 00-300.0 00-300.0 00-300.0 | 1.546-02 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 1546-02 0,006-00 0,006-00 0,006-00 0,006-00 0,006-00 0,006-00 |
| 1726-02 2176-08 8746-07 2.896-06 3236-06 1516-04 2.086-04 3.876-04 1.808-02 5.186-08 1.586-06 4.786-06 3.516-05 1.676-04 2.086-04 3.876-04 | 1.72E+02 0.30E+00 0.00E+00 0000000000 | 1728-02 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 1.906-02 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 1726-00 425E-04 214E-03 164E-03 123E-02 647E-02 847E-02 172E-01 198E-02 147E-04 142E-03 104E-03 143E-02 818E-02 158E-03 | 1.725-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 1.905-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1.725-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 1.902-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1725-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 |
| 2108-02 4146-07 2438-06 4.388-06 1408-05 1498-04 2138-04 1438-04 | 2.008-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2108-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2396-02 1376-04 1296-05 2516-05 1406-02 5366-02 7,216-02 1466-01 | 2.108-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2108-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.508-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 2.328-02 7.296-07 3.586-06 6.276-06 3.596-05 1.406-04 2.146-04 3.288-04 | 2.828-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.528-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.528-60 8.968-65 9.468-64 2.008-09 L208-02 4.808-02 6.548-02 L308-01 | 2.328-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.328-52 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.328-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.098-00 |
| 254E-02 920E-07 140E-06 4.08E-06 151E-05 134E-04 210E-04 201E-04 2.62E-02 558E-07 3.22E-06 5.78E-06 1.25E-05 123E-04 158E-04 3.18E-04 | 2.56E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 2.82E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.20E+00 | 256E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 2.82E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 2568-02 4446-05 6356-04 1406-03 1086-02 4286-02 5358-02 1186-01 1828-02 1896-05 4456-04 1228-05 8386-03 3256-02 5356-02 1246-01 | 154E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.82E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 2548-02 0.008-00 | 2548-02 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 2.828-02 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 |
| 1002-02 5502-07 3.222-08 5.702-08 3.252-05 1.222-08 1.002-04 1.002-02 1.002.07 3.022.05 4.002.06 3.002.05 1.002.04 1.002.04 | 1004-07 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2011-02 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 2011-02 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 108-00 1382-0 1492-04 128-03 1382-01 1382-0 108-00 1082-01 | 148-42 048-40 0494-0 048-40 048-40 048-40 048-40 048-40 | 100+00 000+00 000+00 000+00 000+00 000+00 000+00 000+00 | 100-00 0.00-00 0.00-00 0.00-00 0.00-00 0.00-00 0.00-00 |
| 3128-02 2386-07 1836-06 4,068-06 2,698-05 1,08-04 1788-04 3368-04 | 3 128-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 3.238-13 | 1128-02 8.008-00 8.008-00 8.008-00 8.008-00 8.008-00 8.008-00 | 1.128-02 2.618-06 1.878-04 6.188-04 5.808-08 2.728-02 1.688-02 7.948-02 | 00-9063 00-9063 06-9063 00-9063 00-9063 00-9063 00-9064 | 3129-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 3 128 402 0.006 00 0.006 00 0.006 00 0.008 00 0.006 00 0.006 00 0.006 00 |
| 3.446+02 1.426-07 1.296-06 3.116-06 2.276-05 9.546-05 1.506-04 2.718-04 | 3.446+62 0.006+00 0.006+00 0.006+00 0.006+00 0.006+00 1.956-11 | 144E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1446-42 9.076-07 1.126-04 4.138-04 4.646-03 2.236-02 3.036-02 6.758-02 | 1446-03 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 3.442-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 3.446-02 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 |
| \$305-02 \$3%6.08 8.468.07 1346.06 1.858.05 1326.04 2.406.04 5.558.07 2.568.08 5.058.07 1.358.06 1.476.05 6.858.05 1.086.08 2.668.04 | 1.80(+02 0.00(+0000000000 | 8.808-40 5.008-40 5.808-40 5.808-40 5.008-5.0 | 1305-00 3305-07 4075-05 2305-04 5325-08 1395-02 2356-02 5405-02 4306-00 1395-07 1755-05 1465-04 1395-00 1395-07 1465-01 4465-07 | 1.00E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 8.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1.006-02 0.005-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 |
| 4 64E-02 1 45E-08 1 03E 07 1 16E-05 5 55E-05 8 8810 05 1 77E-04 | 4.646-02 0.008-00 0.008-00 0.008-00 0.008-00 2.716-13 1.508-08 | 4.642-07 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 4.648-40 3.458-08 3.328-05 4.788-05 2.646-03 3.218-02 3.646-02 | 4 648-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 4440-07 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 4.846-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 5.128-02 8.568.09 1.608.07 4.968.07 7.876.06 4.458.05 7.128.05 1.408.04 | \$128-02 0.008-00 0.008-00 0.008-00 0.008-00 4.058-08 1.018-08 4.688-08 | \$12E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | \$128-02 1296-08 \$728-06 \$308-05 1388-08 \$358-08 \$388-02 \$256-02 | \$ 128-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 5.128-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | \$ 128-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 5.656-02 2.106-09 9.016-08 2.896-07 5.646-06 1.366-05 5.656-05 1.096-04 6.246-02 6.506-02 4.796-08 1.646-07 4.346-06 2.656-05 4.096-05 7.876-05 | 5.656+02 0.006+00 0.008+00 0.006+00 1.826-05 1.826-00 1.096-00 5.366+02 0.006+00 0.008+00 0.008+00 0.006+00 5.936-11 1.566-09 2.446-07 | 5.65E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.44E-08 6.24E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 2.75E-07 | 5.652-02 4.962-09 1.292-06 1.102-05 1.292-03 7.752-03 1.102-02 2.752-02 8.292-02 2.292-09 1.892-08 2.092-05 9.752-04 8.602-03 1.002-02 2.892-02 | 1.655-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 1.245-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 5.658-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 5.262-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 5.658-02 0.005-00 0.008-00 0.008-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 |
| 6.560-02 2.130-10 1.590-08 1.540-07 4.540-08 2.550-05 4.000-05 7.270-05 6.850-02 2.130-10 1.530-08 7.560-05 1.540-05 2.850-05 | 6.246+02 0.008+00 0.008+00 0.008+00 0.008+00 1.536-01 1.546-09 2.446-07 6.296+02 0.008+00 0.008+00 0.008+00 1.535-11 7.536-08 5.346-07 | 6.246-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 2.08-07 6.896-02 0.008-06 0.008-00 0.008-00 0.008-00 0.008-00 1.562-36 | 6,996-40 2,966-49 2,896-48 2,086-68 3,796-68 6,808-60 2,006-62 2,006-62 4,896-60 4,462-36 6,828-67 3,338-66 6,528-64 4,896-60 7,696-60 1,956-62 | 4.240-02 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 6.990+02 0.000+06 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 6.990+02 0.000+06 0.000+00 0.000+00 0.000+06 0.000+06 | 4.246+02 0.306+30 0.306+30 0.306+30 0.306+30 0.306+30 0.306+30 |
| 7.618+02 5.746-11 8.066-09 3.366-08 1.756-06 1.876-05 2.138-05 4.546-05 | 7.612+02 0.002+00 0.002+00 0.002+00 0.002+00 4.632-10 4.072-08 1.042-06 | 7.616+02 0.006+00 0.006+00 0.006+00 0.008+00 0.008+00 4.206-15 | 7.618402 7.558-11 2.588-07 1.798-06 4.548-04 1.608-03 5.648-05 1.538-02 | 7.618-62 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 7.618-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 7.628-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 8-808-02 1236-03 2,838-09 1,338-08 1,048-06 9,588-06 1,488-05 3,368-05 9,188-00 2,786-03 2,688-00 5,288-09 6,288-07 6,478-06 1,088-05 1,338-05 | E40E+02 0.00E+00 0.00E+00 0.00E+00 5.01E-09 1.23E-07 1.79E-06 5.78E+02 0.00E+00 0.00E+00 0.00E+00 5.00E+00 5.00E-00 1.08E-07 1.58E-06 | 8.408-02 6.008-00 6.008-00 0.008-00 0.008-00 0.008-00 1.548.04 9.108-00 5.008-00 5.008-00 5.008-00 5.008-00 5.008-00 5.008-00 | 8486-00 1040-01 6468-06 1396-06 2346-04 2586-08 1376-09 1346-00 9386-00 9426-01 1386-08 1386-09 1496-04 1866-08 1776-08 6366-08 | 8426-42 0-006-00 0-006-00 0-006-00 0-006-00 0-006-00 9-06-47 0-066-00 0-066-00 0-066-00 0-066-00 0-006-00 | 8.402-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 8.402-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 |
| 5.282+02 2.786-12 7.686-10 5.282-09 6.082-07 6.476-06 1.082-05 2.182-09 1.082-01 1.082-12 2.282-00 1.782-09 3.182-07 4.282-06 6.778-06 1.582-05 | 5.282+02 0.002+00 0.002+00 0.002+00 1.002+00 1.002+01 1.002+01 1.002+01 0.002+0000000000 | 5282-02 5202-00 5202-00 5202-00 5202-00 5202-00 5202-00 2405-11 1202-01 5202-00 5202-00 5202-00 5202-00 5202-00 5202-11 | 528-02 5670-03 178-08 528-07 1490-04 1482-08 2770-08 E302-08 1090-03 4590-12 4770-28 1480-07 1130-06 1230-08 1802-08 | 128-40 038-40 038-40 028-40 028-40 038-40 038-40 038-40 | 528-02 0.00-00 0.00-00 0.00-00 0.00-00 0.00-00 0.00-00 0.00-00 | 528-02 0.002-000 |
| 1.028-03 4346-13 5.366-11 5.386-10 1.896-07 2.546-06 4.896-06 1.326-05 | 1.028-05 0.008-00 0.008-00 0.008-08 5.386-18 1.158-07 8.896-07 4.338-06 | 1028-03 6.008-00 6.008-00 0.008-00 0.008-00 0.008-00 1.408-12 | 1028-03 6716-12 1.708-09 5.288-08 4.040-05 7.888-04 1.246-09 1.990-09 | 1025-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.028-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1428-00 0.006-00 0.006-00 0.008-00 0.008-00 0.006-00 0.006-00 |
| 1.106-03 3.606-63 2.636-63 2.476-00 1.106-07 2.076-06 3.286-06 9.046-06 | 1.136+05 0.008+00 0.008+00 0.008+00 1.328-15 3.918-07 1.858-06 7.108-06 | E13E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 9.85E-02 | L18-03 5-06-12 8500-30 1570-08 1.ME-05 4320-04 7.518-04 2.746-01 | 1136-03 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 1136-05 0.006-00 0.006-00 0.008-00 0.006-00 0.006-00 0.006-00 | LINE-05 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E+00 |
| 1258-00 1508-03 7.476-02 6.856-01 5.008-08 1.288-06 2.008-06 5.768-06 1.888-00 4.158-14 2.898-02 1.316-01 2.218-06 6.898-09 1.208-06 1.548-06 | 1256-08 0.006-00 0.006-00 0.008-00 6.486.14 8.286.07 2.876.06 3.746.06 1.386.08 0.006-00 0.008-00 1.476.13 1.486.06 4.566.06 1.386.06 | 1256-03 5.006-00 5.006-00 5.006-00 5.006-00 5.036-0005-0005-0005-0005-0005-0005-0005-0 | 1296-01 1276-12 4385-10 4296-09 8.408-04 1290-04 4486-04 1686-03 1396-01 4395-03 1296-04 1296-04 1296-04 1296-04 1296-04 | 125E-03 0.00E-00 0.00E-0000000000 | 1258-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 1.008-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1258-03 5306-00 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 |
| 1528-08 1.798-15 7.228-13 3.076-12 9.146-09 3.446-07 5.946-07 1.958-06 | 1.52E+25 0.00E+00 0.00E+00 0.00E+00 2.95E-11 2.51E-06 6.46E-06 1.67E-05 | 1528-05 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 8.208-00 | 152-01 2540-13 4750-11 1020-09 1340-06 6280-05 1540-04 5170-04 | 1528-03 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1522-03 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1528-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 1486-08 1136-16 1936-13 1426-12 5096-09 1346-07 5296-07 1046-06 | 1 ME-DE 0.00E-00 0.00E-00 0.00E-00 2 ME-DD E42E-06 8.77E-06 2 26E-05 | 1488-03 0.008-00 0.008-00 0.008-00 0.008-00 1.968-17 2.678-09 | 1408-01 1368-11 2328-12 2368-10 6346-07 4518-05 5318-05 5328-04 | 148E-05 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1488-08 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1486-08 0.006-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 1.866+03 4.776-16 4.166-04 4.656-03 9.716-03 7.566-08 1.766-07 5.896-07 1.056+03 5.502-07 3.866-05 1.086-01 1.396-09 1.566-09 5.286-09 1.468-06 | 1.86E-08 0.00E-00 0.00E-00 0.00E-00 2.06E-09 5.28E-06 1.21E-05 2.85E-05 2.05E-08 0.00E-00 0.00E-00 0.00E-00 3.62E-09 7.55E-06 1.54E-05 3.42E-05 | 1868-03 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 2.755.16 6.725.09 2.058-03 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 2.445.15 1.225-08 | 186-01 6126-14 9476-12 8486-11 4486-07 4136-05 1006-04 8126-04 1088-01 6316-15 1226-12 1396-11 5478-07 7486-05 1566-04 5156-04 | 136F-08 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 2.056-08 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1.562-03 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 2.058-03 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 2.886-03 0.00F-00 0.00E-00 0.00E-000E-0 |
| 1008-00 5302-17 3388-15 1088-11 1398-09 1388-07 518-07 1488-06 1388-03 1198-17 1588-14 1388-14 6478-35 1188-07 1488-07 | 2062-00 0.002-000-000-000-000-000-000-00-000-00-00 | 2308-03 0308-00 0308-00 0308-00 0308-00 246-03 128-08 | 2010-01 6305-03 2220-02 1200-01 5670-07 760-05 1240-04 5200-04 2780-03 2780-04 5780-05 12470-07 12470-05 1240-04 5200-04 | 2012-03 0302-00 0302-00 0302-00 0302-00 0302-00 0302-00 | 2354-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2016-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 2.508+03 1.478-18 7.546-16 3.996-15 1.636-53 4.318-08 1.208-07 3.886-07 | 2506+05 0.006+00 0.008+00 1.508-05 1.206-07 1.856-05 3.106-05 6.566-05 | 2508-03 0.008-00 0.008-00 0.008-00 0.008-00 1.008-12 4.266-08 | 1500-01 1790-05 1800-01 1200-02 1370-00 1220-05 1200-05 1220-04 | 2308-03 0308-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.508-03 0.002-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.508-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 2.768-05 0.008-00 2.728-17 5.708-16 3.248-11 1.608-08 4.568-06 1.778-07 | 2746+03 0.008+00 1.496-18 1.246-13 5.276-07 2.486-05 4.486-05 9.596-05 | 2.762-03 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 1.172-11 4.522-08 | 2746-00 02000-00 1110-15 1570-13 6,990-09 4,360-06 1,300-05 4,820-05 | 2.762-03 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 2.746-05 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.008-00 | 2.746-03 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 |
| 1,000-00 0,000-00 7,000-00 9,000-00 9,000-00 1,000-00 1,000-00 0,000-00 9,000-00 9,000-00 1,000-00 9,000-00 9,000-00 1,000-00 2,700-00 2,700-00 | 1.008-00 0.008-00 1.996-16 3.176-12 7.536-07 3.318-05 5.986-06 1.226-04 3.058-03 0.008-00 1.786-35 4.816-12 8.986-07 3.596-05 6.076-05 1.276-04 | 1002-03 8.002-06 8.002-00 0.002-00 0.002-00 1.526-27 3.635-11 6.628-08 3.052-03 0.002-00 0.002-00 0.002-00 0.006-00 5.706.17 5.106.01 6.816.08 | 1008-01 0.008-00 1458-25 1.068-04 1.258-05 1.296-06 4.468-06 1.976-05 1.088-01 0.008-00 4.538.17 1.498-15 1.498-30 1.408.37 1.568.06 8.638.06 | 1002-03 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1002-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1002-01 5302-00 5302-00 5302-00 5302-00 5302-00 5302-00 5302-00 |
| 3.362-08 0.002-00 0.002-00 1.872-18 1.632-13 4.632-30 2.118-06 1.018-08 | 1.562-05 0.000-00 1.720-14 7.480-11 1.640.06 4.070-05 7.100-05 1.420-04 | 1142-01 0.002-00 0.002-00 0.002-00 1.136.14 4.802-10 9.072-08 | 1342-01 0.002-00 0.002-00 0.002-00 3.052-12 3.482-08 4.716-07 2.052-04 | 1367-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 3.562-03 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1342-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 |
| 3.716+01 0.00E+00 0.00E+00 0.00E-00 1.0E5.34 1.0EE.30 6.176-30 3.146.09 | 3.712-03 0.002-00 9.750-13 7.940-30 3.252-06 4.395-09 8.376-05 1.602-04 | 3.726-03 0.008-00 0.008-00 0.008-00 0.008-00 6.308-18 2.826.09 1.296.07 | 1718-03 0.008-00 0.008-00 0.008-00 1.918-12 1.828-08 1.208-07 5.908-07 | 1.758-08 0-00E-00 0-00E-00 0-00E-00 0-00E-00 0-00E-00 0-00E-00 | 3.758-03 0.006-00 0.008-00 0.008-00 0.008-00 0.006-00 0.008-00 | 3.732-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 |
| 4.30(+0) 0.00(+00 0.00(+00 0.00(+00 1.546.05 2.276.13 1.546.02 8.70(-10 | 4.006-08 0.008-00 8.178-01 8.188-09 8.288-06 5.286-05 8.838-06 1.618-04 | 430E-03 500E-00 500E-00 530E-00 530E-00 4.62E-12 7.66E.09 125E-07 | 4.308-03 0.008-00 0.008-00 0.008-00 2.048-03 3.308-09 2.758-08 1.546.07 | 4.20[=08 0.00[=00 0.008=00 0.008=00 0.008=00 0.008=00 0.008=00 | 4.20E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 4,306-63 0,006-00 0,006-00 0,006-00 0,006-00 0,006-00 0,006-00 |
| 4586-03 0.000-00 0.000-00 3.586-19 1.996-06 4.086-12 8.126-11 2.116-10 5.000-00 0.000-00 0.000-00 0.000-00 0.000-01 5.456-12 4.106-11 | 4.516-08 1.356-08 5.186-09 2.796-08 7.126-06 5.636-05 5.626-05 1.686-04 5.006-09 1.676-05 1.076-09 1.776-09 5.786-06 5.616-05 5.516-06 1.696-04 | #536-03 0.056-00 0.006-00 0.006-00 0.056-00 8.005-11 1.328-08 1.556-07 5.008-03 0.006-00 0.006-00 0.006-00 2.346-00 2.046-08 2.206-07 | 8.518-03 0.008-06 0.008-00 0.008-00 2.738-04 5.346-03 5.408-08 3.408-08 5.008-08 0.008-00 0.008-00 4.578-03 5.598-03 5.408-03 6.808-09 | 4 538-45 538540 538540 539640 539640 539540 539540 539540 | 4.538-03 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 4.538-03 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 5.005-0 |
| 5.528-08 0.008-00 0.008-00 0.008-00 1.356-17 6.908-04 7.548-03 8.188-02 | 5.52E-08 4.37E-03 1.49E-06 1.44E-07 1.15E-05 6.24E-05 6.92E-05 1.54E-04 | 5325-03 2.00E-00 2.00E-00 0.00E-00 5.628-10 2.40E-08 2.54E-07 | 5528-05 0.008-00 0.008-00 0.008-05 1.080-01 2.346.05 1.946.09 | 5/20-03 000+00 00000 00000 00000 00000 00000 00000 0000 | 5.528-08 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 5.525-03 0.005-00 0.008-00 0.008-00 0.008-00 0.008-00 0.006-00 0.006-00 |
| 6.096+00 0.006+00 0.006+00 2.066.19 1.216-17 4.036-14 5.746-13 7.236-12 | 6296-08 3.406-11 7.296-08 6.376-07 1.246-05 6.346-05 9.096-05 1.546-04 | 6.09E-03 5.00E-00 5.00E-00 0.00E-00 5.05E-00 3.72E-08 2.59E-07 | 6.0H-03 0.00E-00 0.00E-00 3.236-06 8.646-05 7.466-02 1.346-00 1.136-09 | 6.096-03 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 6.0HE-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | \$296-03 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 4.008-03 |
| 6.718-00 0.008-00 0.008-00 0.008-00 0.346-00 4.218-05 7.386-04 1.138-02 7.418-00 0.008-00 0.008-00 7.006-00 7.006-00 7.006-06 5.086-06 1.138-02 | 673E-00 112E-00 2.58E-07 8.72E-07 1.28E-05 6.54E-05 9.24E-05 1.79E-04 7.41E-03 6.04E-09 2.58E-07 1.79E-04 1.75E-05 6.44E-05 5.38E-05 1.59E-04 | 6.718-03 0.008-00 0.008-00 0.008-00 0.008-00 2.448-09 1.048-08 2.428-07 7.418-03 0.008-00 0.008-00 0.008-00 0.018-00 0.428-09 5.782-08 5.782-07 | 878-01 0.00-00 0.005-00 0.005-00 4.605-05 7.825-01 1.965-01 1.965-00 7.816-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-01 1.015-01 1.015-01 | 4.738-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 6.738-08 5.008-00 5.008-00 5.008-00 5.008-00 5.008-00 5.008-00 7.008-00 5.008-00 5.008-00 5.008-00 5.008-00 | 6738-05 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 3.286-02 7.688-01 0.008-00 0.008-00 0.008-00 0.008-00 3.546-00 3.286-01 |
| 7.408-00 0.008-00 0.008-00 0.008-00 7.800-03 2.088-05 5.888-05 1.298-03 8.308-01 0.008-00 0.088-00 0.008-00 0.008-00 0.308.17 1.998.14 1.298.14 | 7.432-03 6.032-09 2.96-07 1.02-08 1.252-05 6.440-05 5.382-05 1.592-04 8.522-08 6.232.06 1.492.07 1.092.08 1.202.05 6.122.08 8.892.05 1.592.04 | 748-40 0.008-40 0.008-40 0.008-40 0.008-40 1.475-49 6.728-48 1.246-47 8.208-40 0.008-40 0.008-40 0.008-40 0.008-40 6.4758.49 7.446.48 3.778.47 | 748-03 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 1.000-01 1.000-01 0.000-00 | 748-43 538-40 538-40 538-40 538-40 538-40 538-40 538-40 538-40 | 7.402+03 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 | 748-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 1.540-05 1.540-01 8.202-01 0.002-00 0.002-00 0.002-00 0.002-00 1.340.07 6.850.01 |
| 9.042-03 0.002-00 0.002-00 3.378-18 4.740-17 3.540-16 5.802-16 L450-15 | 5066-03 2.516-09 2.616-07 5.116-07 1.068-05 5.728-05 7.518-05 1.628-04 | \$.04E-03 6.00E-00 6.00E-00 0.00E-00 7.136.09 7.83E-08 5.52E-07 | 8.04E-08 0.00E-00 0.00E-00 0.00E-00 1.90E-14 1.296-13 4.896-13 1.236-12 | 10+3042 00-3003 00-3003 00-3002 00-3002 00-3004 00-3004 00 | 9.042-05 0.001-00 0.002-00 0.002-00 0.002-00 0.001-00 0.002-00 | 3.044-03 0.006-00 0.006-00 0.008-00 0.008-00 1.176-03 3.728-00 |
| 1.008-04 0.008-00 0.008-00 0.008-00 1.780-17 4.446-16 7.846-16 2.146-15 | 1002+04 1562-05 1532-07 5.702-07 5.922-06 4.852-05 5.832-05 1.642-04 | 1002-04 0.002-00 0.002-00 0.002-00 0.002-00 0.685-09 0.446-08 0.482-07 | 1008-04 0.002-00 0.008-00 0.008-00 4.365-14 9.265-13 1.576-12 3.656-12 | 1302-04 5302-05 5302-05 5302-06 5302-06 5302-06 5302-05 5302-05 | 1.002-04 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1002-04 0302-00 0302-00 0302-00 0302-00 0302-00 2325-04 1555-09 |
| 1000-04 0.000-00 0.000-00 0.070-07 2.440-36 4.180-36 8.830-36 1.100-08 0.000-00 0.000-00 0.130.17 2.640.36 4.770.36 3.190.35 | 100E-04 1.96E-09 1.58E-07 5.70E-07 8.91E-06 4.85E-05 4.85E-05 1.64E-04 1.02E-04 8.12E-02 8.42E-08 1.58E-07 6.53E-06 4.08E-06 5.87E-08 1.12E-04 | 1.00E-04 0.00E-00 0.00E-0000000000 | 1008-04 0.008-00 0.008-00 0.008-00 7.328-34 5.088-38 6.718-33 1.388-52 1.308-04 0.008-00 0.008-00 6.008-00 6.218.34 7.286.33 1.386.02 2.666.02 | L002-04 5002-0005-0005 | 1.008-04 0.008-0000000000 | 1.00E-04 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 2.32E-34 1.54E-09 1.00E-54 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.34E-19 2.00E-10 4.34E-09 |
| 1.228+04 0.008+00 0.008+00 0.008+00 2.338-17 2.642-06 4.778-16 3.358-15 1.228+04 0.008+00 0.008+00 0.008+00 3.588-17 3.588-16 8.538-16 4.688-15 | 1226-04 8326-00 8406.08 1246.07 8538.06 6068.05 5828.05 1228.04 1228-04 6348.00 1688.08 1258.07 6228.06 1258.05 6388.05 1238.04 | 110E-04 0.00E-00 0.00E-00 0.00E-00 0.00E-00 8.58E-09 5.17E-08 6.88E-07 1.228-04 0.00E-00 0.00E-00 0.00E-00 9.17E-09 6.12E-08 6.38E-07 | L108+04 0.008+00 0.008+00 0.008+00 6.288-14 7.258-13 1.286-12 2.668-12 1.228+04 0.008+00 0.008+00 0.008+00 6.878-04 6.788-03 1.186-12 2.808-12 | LIDE-04 0.00E-00 0.00E-000E-0 | 1.35E=04 0.05E=06 0.05E=06 0.05E=06 0.30E=06 0.05E=06 0.0 | 1308+04 0.008+00 0.008+00 0.008+00 0.008+00 2.106-09 2.506-03 4.396-09 1228+06 0.008+00 0.008+00 0.008+00 1.146-07 2.476-02 8.256-09 |
| 1.858-04 0.006-00 0.006-00 4.706.20 7.618-27 5.458-28 8.418-26 2.538-15 | 1,952-04 1,868-00 1.418-08 8,225-08 2,758.06 2,475-05 4,228-05 9,468-05 | 1.551-04 0.006-00 0.006-00 0.006-00 9.586.09 6.626.08 6.028.07 | LH6+04 0308-00 1168-05 8368-05 1408-08 8128-03 1258-02 2828-02 | 1 115-04 0.00(-00 0.005-00 0.005-00 0.005-00 0.006-00 0.005-00 | 1.858-04 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1.998-04 5308-00 0.008-00 0.008-00 0.008-00 8.996-06 1.088-01 1.458-08 |
| 1.496-04 0.006-00 0.006-00 0.006-00 4.696-17 4.005-06 6.526-16 1.446-15 1.646-06 0.006-00 0.006-00 4.196-00 1.646-06 1.796-15 1.996-15 0.696-15 | 1496-04 4716-11 4206-09 1406-08 1426-04 1746-05 3226-05 7296-05 1486-04 1746-11 1405-09 1746-09 8786-07 1746-05 7786-05 1746-05 | 1486-04 0.008-00 0.008-00 0.008-00 0.008-00 9.908-09 6.688-08 5.246-07 1488-04 0.008-00 0.008-00 0.008-00 1116-08 5.186-08 5.186-07 | 1486404 2.72542 1536-24 1396-24 2.246-23 1.126-22 1.725-22 3.736-22 | 1.455-04 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1465-04 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 148-04 0.005-00 0.005-00 0.005-00 0.005-00 6.096-05 5.096-01 2.066-08 |
| 1645+04 0.005+00 0.005+00 4.135-20 1.685-26 1.125-25 1.505-15 3.425-15 1.815+04 0.008+00 0.008+00 0.005+00 4.855.29 1.455.27 8.778.17 1.525.16 | 154E+04 156E-01 165E-09 138E-08 E.76E-07 156E-05 2.18E-05 512E-05 181E-04 148E-02 452E-05 4528.09 453E-07 745E-06 142E-06 822E-05 | 1448-04 0.000-00 0.000-00 0.000-00 1.115-08 6.135-08 6.385-07 1.818-04 0.000-00 0.000-00 0.000-00 1.186.08 6.526.08 6.596.07 | 1440-04 4400-07 5.775-34 1340-04 2226-03 1300-02 1505-02 4400-02 1818-04 0.000-00 0.000-00 1459-07 8.090-06 7.000.05 1408.04 8.000.04 | 1640-04 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 1818-04 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 1.545-04 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 1.535-06 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1645-04 0.005-00 0.005-00 0.005-00 0.005-00 5.775-04 1.105-00 3.545-08 1.826-06 0.005-00 0.008-00 0.008-00 0.005-00 5.805.01 5.465-00 5.825.08 |
| 2.008-04 0.008-00 0.008-00 0.008-00 6.968-09 8.308-08 1.608-07 7.978-07 | 220(+04 13163) 146-32 1386-09 2196-07 4376-06 8566-06 2566-06 | 2008-04 5.005-00 5.005-00 0.005-00 1.0%-08 5.405.08 7.825.07 | 2008-04 2008-00 2008-00 2008-00 2206-06 7575-05 1226-04 4028-04 | 2.005-04 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 2.005-04 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 2.006-04 0.006-00 0.006-00 0.006-00 0.006-00 0.525-12 1126-09 7.426-08 |
| | | | | | | |

| | | Sulphane Concentratio | - prontes | nier (reg/) | | | | | | 2nd Concentration | n pointes | If get an | | | | | |
|-----------|----------------|--------------------------|-----------|--------------------------|-------------|---------------------|----------------------|-------------------------|----------------------|----------------------|-----------|--------------------------|----------|---------------------------|----------------------|----------------------|----------|
| | 999 Percentile | | DOX -OD | 5th Percenti D 006-00 | 10th Renjam | | | 9565 Persen 0.005-00 | 99th Persentile | Time Ivears? | D.205-00 | 5th Percenti 0.005-00 | | 508 Parcent 5-305-30 | 50% Feruet | | |
| 208+00 | 0.008-00 | 0.008-00 | | | | 0.006+00 | 0.006-00 | | 0.006-00 | 0.008+00 | | | 0.006-00 | | | 5.008-00 | |
| 306+30 | 0.008+00 | 1.008-00 | 5.008-00 | 0.000-00 | 0.000+00 | 0.008+00 | 6.887-18 1.146-10 | 7.665-17 | 5.398-15 | 1.006+00 | 0.008-00 | 0.008-00 | 5.008-00 | 0.008-00 | 0.308-00 | 0.008+00 | 0.008+00 |
| 306+00 | 0.000 +00 | 1.006-00 | 0.006-00 | 2.006-00 | 0.000+00 | 3.786.47 | 1.356-04 | 2,835.04 | 6.736.04 | 1.008 +00 | 0.008 -00 | 0.006-00 | 0.006-00 | 0.000+00 | 0.005+00 | 0.008+00 | 0.008+00 |
| 206+00 | 0.006-00 | 4.008-00 | 0.00(-00 | 2 626 - 52 | 1.806-06 | 1.096-04 | 5.326-03 | \$ 30(-0) | 1,876-02 | 4.006+00 | 0.006+000 | 0.006-00 | 0.006-00 | 0.006+00 | 0.006-00 | 0.006-00 | 0.000-00 |
| 205-20 | 0.005+00 | 5.005-00 | 0.005-00 | 1.196-03 | 5.405-07 | 2.258-03 | 4.648-02 | 6.146-02 | 5768-02 | 5.005-00 | 0.006+00 | 0.000-00 | 0.005-00 | 0.005-00 | 0.005-00 | 0.005-00 | 0.008-00 |
| 206+30 | 0.000-00 | 6.005-00 | 0.005-00 | 6.136-06 | 2.646-04 | 1.836-02 | 1.126-01 | 2 775-01 | 2.496-01 | 5.005+00 | 0.006+00 | 0.006-00 | 0.005-00 | 0.005+00 | 0.005+00 | 0.005+00 | 0.006-00 |
| 306+30 | 0.005-00 | 8.008-00 | 1,228-62 | 1.708-01 | 8.965-02 | 1.836-01 | 8.226-01 | 4.096-01 | 5.405-01 | 8.005+00 | 0.005+00 | 0.006-00 | 0.006-00 | 0.005+00 | 0.005+00 | 0.008-00 | 0.008+00 |
| 206+20 | 0.006-00 | 9.005-00 | 2.346-02 | 1.876-02 | 5.325-82 | 1.886-01 | 4.106-01 | 5.076-01 | 6.448-01 | 9.006+00 | 0.006+00 | 0.005-00 | 0.005-00 | 6.005-00 | 5.00E+00 | 6.60E+00 | 0.006+00 |
| 306+90 | 0.006-00 | 1.005-01 | 1.996-02 | 3.428-82 | 4.668-02 | 1.846-01 | 5.086-01 | 6.026-01 | 7.806-01 | 1.008-01 | 0.006+00 | 0.006-00 | 0.005-00 | 0.005+00 | 0.205-00 | 0.005 =00 | 0.008+08 |
| 306+30 | 0.000+00 | 1.105-01 | 1.796-02 | 2.958-02 | 4.025-02 | 1.586-01 | 5.152-01 | 6.906-01 | 8.396-05 | 1.000+00 | 0.005+00 | 0.008-00 | 0.005-00 | 0.008-00 | 0.008-00 | 0.000-00 | 0.005+00 |
| 306+30 | 0.008-00 | 1.405-01 | 1,708-02 | 2.628-02 | 1.546-422 | 1.875.45 | 4.405.00 | 6.346.01 | 6.986-01 | 1.408-01 | 0.008-00 | 0.006-00 | 0.005-00 | 0.005-00 | 0.005-00 | 0.008-00 | 0.008+00 |
| 206+00 | 0.001-00 | 1408-01 | 1496-02 | 2.596-02 | 1546.02 | 1 Milds | 4.246.45 | 5.905-01 | 1.496.01 | 1 608 400 | 0.008-00 | 0.008-00 | 0.008-00 | 0.001-00 | 0.005-00 | 0.005-00 | 0.005-00 |
| 308+30 | 0.008-00 | 1,008-01 | 1.698-02 | 2.596-02 | 1.446-02 | 1.848-01 | 4.226-00 | 5.935-01 | 8.368-01 | 1,508+01 | 0.008+00 | 0.006-00 | 0.008-00 | 0.008+00 | 0.308+00 | 0.008+00 | 0.008+00 |
| 206+00 | 0.006-00 | 1.908-01 | 1.668-02 | 2.586-02 | 1.476-02 | 1.346-05 | 4176-05 | 5.834-01 | 8.246-05 | 1.908+01 | 0.008+00 | 0.006-00 | 0.006-00 | 6.006+00 | 6.006+00 | 0.008+00 | 0.000+00 |
| 206+00 | 0.00(-00 | 2.326-05 | 1648-02 | 2.506-02 | 3.446.42 | 1.826-05 | 4138-05 | 5.768-01 | 8.156-01 | 2.506+05 | 0.001+00 | 0.006-00 | 0.006-00 | 0-006+00 | 0.306-00 | 0.008+00 | 0.006-00 |
| 005-00 | 0.005-00 | 2.308-01 | 148-02 | 2.466-02 | 3.415-02 | 1.818-01 | 4.106.01 | 5.758-01 | 8.046-01 | 2.305+01 2.605+01 | 0.008-00 | 0.006-00 | 0.006-00 | 0.005-00 | 0.006-00 | 0.006-00 | 0.006-00 |
| 306+30 | 0.000-00 | 2.808-01 | 1.596-02 | 2498-02 | 1.176-02 | 1.288-01 | 4,046-01 | 5.618-01 | 7.896-01 | 2.808-01 | 0.008+00 | 0.008-00 | 1.001-00 | 0.000-00 | 0.005-00 | 0.008-00 | 0.008-00 |
| 306-30 | 0.000-00 | 3.08-01 | 1.568-02 | 2.396-02 | 1,286-02 | 1.36-01 | 1962-01 | 5.536-01 | 7.806-01 | 1.205-01 | 0.000-00 | 6.008-00 | 0.005-00 | 0.000-00 | 0.308-00 | 0.000-00 | 0.000+00 |
| 306+30 | 0.000-00 | 3 508-03 | 1.548-02 | 2.378-02 | 1,258-02 | 1,258-05 | 3.996-01 | 5.506-01 | 7.758-01 | 3 500+01 | 0.008+00 | 0.008-00 | 0.008-00 | 0.008+00 | D-30E-30 | 0.008-00 | 0.008-00 |
| 306+30 | 0.005+00 | 3.908-01 | 1.526-82 | 2.356-02 | 3.196-02 | 1.346-01 | 3.876-01 | 5.435-01 | 7.688-01 | 5.906+01 | 0.008+00 | 0.008-00 | 0.005-00 | 0.006+00 | 0.005+00 | 0.006+00 | 0.008-00 |
| 306+30 | 0.005+00 | 4.308-01 | 1496-02 | 2.296-02 | 1.146-02 | 1.226-01 | 3.816-01 | 5.886-01 | 7.628-01 | 4.806+01 | 0.008+00 | 5.008-00 | 5.008-00 | 0.000+00 | 0.50E+00 0.50E+00 | 0.008-00 | 0.008+00 |
| 306+30 | 0.000-00 | 4.706+01 | 1.402-02 | 2.298-02 | 1.066-02 | 1.306-01 | 3.758-01 | 5.238-01 5.138-01 | 7.558-01 | 8.708+01 8.208+01 | 0.008+00 | 0.008-00 | 0.008-00 | 0.005+00 | 0.005-00 | 0.008-00 | 0.008+00 |
| | | | | | | | | | | 100.000 | | | | | 100.00 | | |
| 008-00 | 0.000-00 | 5.706-01 | 137642 | 1.146-02 | 2,826-62 | 134-0 | 1575-01 | 5.025-01 | 7.898-01 | 5.708-01 | 0.008-00 | 0.000-00 | 1.005-00 | 0.008-00 | 0.002-00 | 0.008-00 | 0.008-00 |
| 306-00 | 0.000-00 | 6.408-01 | 1.146-02 | 2,096,42 | 1.828-02 | 1.016-01 | 1476-01 | 4,915-01 | 7,238-01 | 6.408.405 | 0.008-00 | 0.006-00 | 0.008-00 | 0.000-00 | 0.005-00 | 0.005-00 | 0.006+00 |
| 306+30 | 0.005-00 | 7.006-01 | 1,326-02 | 2.046-02 | 2.696-02 | 1.096-01 | 8.406-05 | 4.775-01 | 7.096-01 | 7.008+01 | 0.008+00 | 0.006-00 | 0.006-00 | 0.005+00 | 0.305+30 | 0.005-00 | 0.006+08 |
| 306+00 | 0.005+00 | 7.806+01 | 1.285-02 | 1.996-02 | 2.456-02 | 1.075-01 | 3.316-01 | 4.656-01 | 6.998-01 | 7.806+00 | 0.005+00 | 0.005-00 | 5.005-00 | 5.005-00 | 0.005-00 | 0.005+00 | 0.000+00 |
| 305+30 | 0.000+00 | 9 508-01 | 1.196-02 | 1.946-02 | 2.586-02 | 1.046-01 | 3 156-01 | 4.525-01 | 6.808-01 | 8.605+01 | 0.008+00 | 0.005+00 | 0.005-00 | 0.008+00 | 0.008-00 | 0.008+00 | 0.006+08 |
| 005+00 | 0.005+00 | 1.058-02 | 1078-02 | 1.805.027 | 2.445.427 | 8,758,027 | 3 058-05 | 4 185-01 | 6.516.01 | 1.058+02 | 0.005+00 | 0.005-00 | 0.008-00 | 6-006-00 | 0.008+00 | 0.008-00 | 0.000+00 |
| 206+20 | 0.005-00 | 1.168-03 | 9.308-08 | 1.696-02 | 2.848-62 | 9.496.02 | 2.958-01 | 4.088-01 | 6.946-01 | 1.048+02 | 0.008-00 | 0.008-00 | 0.006-00 | 0.005+00 | 0.006+00 | 0.000 -00 | 0.006+00 |
| 206+20 | 0.005+00 | 1.285-02 | 1.085-03 | 1.605-02 | 2.205-62 | 9.076-00 | 2.846-01 | 3.876-01 | 8.136-01 | 1.285+02 | 0.008 +00 | 0.006-00 | 0.005-00 | 6.006-00 | 0.305-00 | 0.005+00 | 2,976-20 |
| 008+90 | 0.008+00 | 1,418-02 | 4.196-03 | 1.498-02 | 2.096-02 | 8.408-02 | 2.728-05 | 3,746-01 | 5.946-05 | 1.544+02 | 0.008-00 | 0.008-00 | 0.008-00 | 0.000-00 | 0.008-00 | 0.008-00 | 1.034-15 |
| 205-30 | 0.008-00 | 1.728-02 | 1.001-03 | 1,256-02 | 1,815-02 | 7.526-02 | 2.476.05 | 3376-01 | 5.516-01 | 1.726+02 | 0.008+00 | 0.008-00 | 0.005-00 | 0.005-00 | 0.305-00 | 0.005-00 | 2.596-36 |
| 305+00 | 0.008-00 | 1.908-02 | 4.368-03 | 1.156-02 | 1.668-02 | 7.005-02 | 2,346-01 | 8.156-01 | 5.286-01 | 1,905+02 | 0.008+00 | 0.008-00 | 0.005-00 | 0.005+00 | 0.305-30 | 0.005+00 | 5.056-15 |
| 306-90 | 0.005-00 | 2.306+02 | 3 695-03 | 1.086-02 | 1.515-82 | 6.518-02 | 2.226-01 | 2,946-01 | 4.546-01 | 2.106+02 | 0.006-00 | 0.006-00 | 0.005-00 | 6.008-00 | 0.005-00 | 6.008+00 | 7.176-14 |
| 306+00 | 0.008 +00 | 2.828+02 | 1096-03 | 1.171-01 | 1.376-02 | 5.576-02 | 2.096-01 | 2.768-01 | 4.658-01 | 2.828+02 | 0.008+00 | 0.006-00 | 0.906-90 | 0.000-00 | 0.005+00 | 0.005+00 | 8.104-12 |
| 308+00 | 0.005+00 | 2.548+02 2.628+02 | 2.075-08 | 7.956-03 | 1.218-82 | 5.525-82 | 1,908-01 | 2.568-01 | 4.085-01 | 2.546+02 | 0.008-00 | 0.006-00 | 0.005-00 | 0.005-00 | 0.005+00 | 0.005+00 | 1.455-11 |
| 308+00 | 0.000+00 | 3.006-02 | 1.046-03 | 5.516-00 | \$278-03 | 4.496-02 | 1.605-01 | 2,296-01 | 3.778-01 | 1.008-02 | 0.008+00 | 0.006-00 | 0.008-00 | 0.008-00 | 0.005-00 | 0.008+00 | 5.938-09 |
| 306+30 | 0.000-00 | 3 128-02 | 7,312-04 | 4,306-05 | 7,806-03 | 1.968-02 | 1.468-01 | 2.088-01 | 3 466-05 | 3 528+02 | 0.008+00 | 0.008-00 | 0.005-00 | 6.008+00 | 0.005+00 | 0.008+00 | 1.296-08 |
| 306+30 | 0.008+00 | 3.44(-02 | 4.535-04 | 1.412-03 | E.462-03 | 3 536 42 | 1.316-05 | 1.846-01 | 3.226-01 | 1.440+02 | 0.008+00 | 0.006+00 | 0.008-00 | 0.006+00 | 0.006+00 | 0.008+00 | 4.386-08 |
| 206+00 | 0.006-00 | 8.808-00 | 1.198-04 | 2.588-03 | 5.198-05 | 8 096 40 | 1.176.41 | 1406-01 | 2.936-01 | 8.806+02 | 0.006-00 | 0.008-00 | 0.006-00 | 0.006+00 | 0.006+00 | 5.006+00 | 1.186-07 |
| 006+00 | 0.000+00 | 4.005-02 | 1.675-04 | 1.846-03 | 4.185-00 | 2.676-02 | 1.098-01 | 1406-01 | 2.636-01 | 4.205+02 | 0.008-00 | 0.006-00 | 0.005-00 | 0.005-00 | 0.005-00 | 6.005-00 | 2.616-07 |
| 308+00 | 0.008-00 | 8.126-02 | 4.068-05 | 8.648-04 | 2.578-05 | 2.018.02 | 8.106-02 | 1136-01 | 2.158-01 | 5.128+02 | 0.008-00 | 0.008-00 | 0.006-00 | 6.005-00 | 0.005+00 | 2.308-19 | 1146-06 |
| 206+00 | 0.001+00 | 5.658-02 | 2.155-05 | 7.276-04 | 2.096-03 | 1.826-02 | 7.376-02 | 1.066-01 | 1.996-01 | 5.658+00 | 0.008+00 | 0.008-00 | 0.006-00 | 6.006+00 | 0.005+00 | 1.806-17 | 2.2%-06 |
| 305+90 | 0.005+00 | 6.248402 | 1.196-05 | 5.462-04 | 1.676-00 | 1.625-02 | 6.795-02 | 9.725-02 | 1.896-01 | 6.246+02 | 0.005+00 | 0.005-00 | 0.005-00 | 0.005+00 | 0.005+00 | 1.216-25 | 4.118-06 |
| 306+30 | 0.005+00 | 6.295×02 7.618×02 | 4176-06 | 1.285-04 | 1186-03 | 1.276-82 | 5.668-02 | 8.306-02 | 1676-02 | 6.896+02 | 0.005+00 | 0.008-00 | 0.008-00 | 0.000-00 | 0.005+00 | 1.996-13 | 6.708-06 |
| 308+30 | 0.000+00 | 7.618+02 | 1.546-05 | 1045-04 | 4.755.04 | 9.996-00 7.5%-00 | 4.706-02 | 5.546-02 | 1.146-01 | 7.618+02 | 0.008+00 | 0.006-00 | 0.008-00 | 0.000+00 | 0.005+00 | 2.446-32 | 1.055.05 |
| 006-00 | 0.005-00 | 9.286-02 | 1455-07 | 5.096-05 | 2,836-04 | 5.676-00 | 3.266-02 | 4.405-02 | 5.006-02 | 9.286+02 | 0.006-00 | 0.006-00 | 0.005-00 | 0.005-00 | 1.915-19 | 2.485-09 | 1.296-05 |
| 308+00 | 0.008-00 | 1.008-03 | 5.776-08 | 1284-05 | L5H-04 | 4.156-00 | 2.586-02 | 3.558-02 | 7.596-02 | 1.008-00 | 0.008-00 | 0.006-00 | 0.008-00 | 0.006+00 | 5.438-18 | E.646-05 | 1.418-09 |
| 305-30 | 0.006-00 | 1.028-08 | 1,748-68 | 8.810-06 | 8.438-05 | 2,976-00 | 1.976-02 | 2.854.41 | 6.136-02 | 1,426+05 | 0.008+00 | 0.008-00 | 0.008-00 | 4.008-00 | 1.516-17 | 1.146-08 | 1.438-05 |
| 006+00 | 0.008-00 | 1.138-03 | 1.262-09 | 1.128-06 | 4.155-05 | 2.056-03 | 1.466-02 | 2.218-02 | 4,968-02 | 1.138+00 | 0.008+00 | 0.008-00 | 0.008-00 | 0.008-00 | 1.070-05 | 5.742-08 1.965-07 | 1.986-05 |
| 200-00 | 0.008-00 | 1.258-03 | 1.1412-09 | 1.128-06 | 1,746-05 | 1,946-05 | 1.088.02 | 1 456-02 | 3.1968-02 | 1,385+00 | 0.008+00 | 0.008-00 | 0.000-00 | 0.008-00 | 2,885-12 | 1,986-07 | 2.058-05 |
| 306+90 | 0.008-00 | 1.528-08 | 6.638-10 | 1,308-07 | 2.875-06 | 5.596-04 | 5.900-00 | 8.778-03 | 2.096-02 | 1.528+00 | 0.008+00 | 0.008-00 | 0.008-00 | 0.008-00 | 4.338-55 | 6.256-07 | 2.305-05 |
| 206+30 | 0.008-00 | 1.688-03 | 8.628-10 | 4,366-08 | 1.179-06 | 5.905-04 | 4.746-03 | 7.756-03 | 1.958-02 | 1.688+03 | 0.008-00 | 0.008-00 | 0.006-00 | 0.006+00 | 2.428-00 | 1236-06 | 2.196-05 |
| 206+00 | 0.001-00 | 1.868-03 | 8.165-11 | 2.496-08 | \$325-07 | 4.216-04 | 5.626-03 | 9425-03 | 2,306-02 | 1.862+00 | 0.008+00 | 0.008-00 | 0.006-00 | 6-306+30 | 1,005-09 | 2.005-06 | 2.326-05 |
| 305+90 | 0.005+00 | 2.058-03 | 7.528-12 | 2.786-08 | 1146-06 | 8.545-04 | 1.058-02 | 1436-02 | 5.048-02 | 2.056+08 | 0.008+00 | 0.008-00 | 0.006-00 | 0.005+00 | 4.518-09 | 2.236-06 | 2.008-05 |
| 305+00 | 0.000+00 | 2.508-03 | 1296-62 | 5.156-00 | 5.596-06 | 1.552-04 | 3.965-03 | 4.556-02 | 2.1.84-02 | 2.508+00 | 0.008+00 | 0.008-00 | 0.004-00 | 0.000-00 | 1,218-07 | 3.765-06 | 2.146-05 |
| 306+90 | 0.008+00 | 2,766+03 | 7.638-34 | 1.486-10 | 1.116-08 | 4.485-05 | 2.296-03 | 3 906-03 | 1.286-02 | 2.768+05 | 0.005+00 | 0.000-00 | 0.008-00 | 0.008-00 | 3,796-07 | A 958-06 | 2.438-09 |
| 006+00 | 0.005-00 | 1.006-03 | 6.146-15 | 1.165-11 | 1.836-09 | 2.406-05 | 1.206-03 | 2306-03 | 7.528-03 | 1.006+00 | 0.006-00 | 0.005-00 | 0.005-00 | 6.005-00 | 3,876-87 | 4.305-06 | 2.446-05 |
| 308-30 | 0.000-00 | 1.052-03 | 0.008-00 | 7.018-63 | 1.788-30 | 518-06 1288-06 | 6.305-04 | 1256-03 | 4.238-08 | 3.052+00 | 0.008-00 | 0.006-00 | 0.008-00 | 0.000-00 | 4.076-07 7.325-07 | 4.185-06 4.475-06 | 2.428-09 |
| 308+30 | 0.008+00 | 3 728-03 | 0.008-00 | 0.008-00 | 5.148-12 | 9.806-07 | 1,196.04 | 3.0%6.04 | 1096-08 | 3.718+00 | 0.008+00 | 0.008-00 | 0.008-00 | 0.000-00 | 8.588-07 | 4,290-06 | 1.848-05 |
| 306+30 | 0.006-00 | 4.108-03 | 0.006-00 | 0.006-00 | 7.438-13 | 2.496.47 | 5.746-05 | 1.896.04 | 5.268-04 | 4.108+08 | 0.008-00 | 0.008-00 | 0.006-00 | 0.006+00 | 7.8%-07 | 4.568-06 | 1678-05 |
| 206+00 | 5.015-18 | 4538-03 | 0.008-00 | 1.246-05 | 4.275-34 | 5.576-08 | 2.156-05 | 5.908-05 | 2.418-04 | 4.536+00 | 0.008+00 | 0.006-00 | 0.005-00 | \$ 006+00 | 1.205-06 | 1.665-06 | 1.656-05 |
| 205+30 | 6.096-16 | 5.005+03 | 0.005-00 | \$5H-16 24H-17 | 1.628-14 | 1.258-08 | 7.708-06 | 2.318-05 | 9.58E-05 4.96E-05 | 5.000+00 | 0.008+00 | 0.008-00 | 0.005-00 | 0.005+00 | 5.452-07 | 1.596-06 | 1.538-05 |
| 208+00 | 2.546-04 | 5.528-03 | 0.008-00 | 2.498-07 | 5.768-05 | 5.238-09 | 1.308-06 | 1088-05 | 4,968-05 | 5.528+00 | 0.008+00 | 0.008-00 | 0.000-00 | 0.000+00 | 8.828-07 | 4.218-06 | 1.828-05 |
| 305+30 | 3.285-12 | 6.738-03 | 0.008-00 | 0.008-00 | 1.838-25 | 2.475-27 | 6.115-07 | 2,745-06 | 118-05 | 6.736+02 | 0.008+00 | 0.008-00 | 0.005-00 | 0.000-00 | 1,778-07 | 1.00-06 | 1.175-05 |
| 1546-15 | 1,765-11 | 7.438-03 | 0.006-00 | 0.000-00 | 0.006+00 | 2.526-11 | 1.546-07 | 7.896-07 | 1.606-06 | 7.436=00 | 0.006-00 | 0.008-00 | 0.006-00 | 6.008-00 | 7.316-07 | 3.425-06 | 1.906-05 |
| 1396-17 | 6.856-11 | 8.206-03 | 0.008-00 | 0.000-00 | 0.000-00 | 1.468-12 | 1046-08 | 2.048-07 | 1.036-06 | 8.208+09 | 0.006+00 | 0.008-00 | 0.008-00 | 0.000+00 | 7.058-07 | 1.756-06 | 1.106-0 |
| 178-05 | 3.728-66 | 9.046-03 | 0.005+00 | 6.008-00 | 0.006-00 | 7.336-13 | 3.176-09 | 4.615-08 | 2.438-07 | 9.066+05 | 0.005+00 | 0.008-00 | 0.008-00 | 0.008+90 | 5.186-07 | 2,246-06 | 1.276-08 |
| 325-14 | 1.555-09 | 1.005-04 | 0.008-00 | 0.008-00 | 0.000-00 | 7.876-13 | 9.206-25 | 8.905-09 | 5.838-08 | 1.008+04 | 0.008-00 | 0.006-00 | 0.005-00 | 0.000-00 | 4,658-07 | 1.768-06 | 1126-09 |
| 1325-14 | 1.562-09 | 1.005-04 | 0.008-00 | 0.008+00 | 0.008+00 | 1.296-12 | 7.416-10 | 4.076-09 | 3.828-08 | 1,000,+04 | 0.008+00 | 0.006-00 | 0.006-00 | 0.008+90 | 4.128-07 | 1.768-06 | 1.128-09 |
| 1476-12 | 8.256.49 | 1.226-04 | 0.008-00 | 0.306-30 | 9.886-05 | 2.446-12 | 2.546-20 | 7.306-10 | 2.796-09 | 1.228+04 | 0.008+00 | 0.008-00 | 0.008-00 | 0.008-00 | 8.125-07 | 1.510-06 | 1.075-05 |
| 1.066-113 | 1.458-08 | 1,358-04 | 0.006-00 | 4.178-15 | 4.358-34 | 1.798-12 | 7.618-11 | 2.186-10 | 1058-09 | 1.056+04 | 0.005-00 | 0.008-00 | 0.006-00 | 0.006+00 | 2,868.07 | 1.168-06 | 8.885-06 |
| 1.018-11 | 2.062-09 | 1.496-04 | 0.006-00 | \$1006-00 | 0.006+00 | 7.906-18 | 1.368-11 | 4.405-12 | 2.805-10 | 1.496+04 | 0.005+00 | 0.006-06 | 0.006-00 | 6.006+00 | 1,696-07 | 9.686-07 | 6.458-06 |
| 1.185-10 | 3.546-08 | 1.648+04 | 0.005-00 | 0.008+00 | 5.018-15 | 5.816.04 | 8.586-12 8.446-12 | 2.18E-12 9.846-12 | 1.508-10 | 1.848+04 | 0.008-00 | 0.008-00 | 0.005-00 | 0.008-00 | 1.158-07 | 7.738-07 | 5.181-06 |
| 1486-00 | 7.425-08 | 2.005-04 | 0.006-00 | 1.518-08 | 5.008-04 | 3.818.04 | 1.458-12 | 9.846-12 | 3.176-11 | 2.008+04 | 0.008-00 | 0.008-00 | 0.006-00 | 0.006-00 | 5.416-08 | 3.518-07 | 5.428.08 |

| American N | Anaria | Catmium | Diante | Creater | Level | Mantuny | Suphane | 244 |
|--|---|--|--|--|--|--|--|--|
| Concentration in groundwater [ing/] Time Sward: List Persenti Sith Persenti 10th Persent 50th Persent 30th Persent 39th Persentile | Concentration in groundwater (mg/l) Time Ivaan) 1st Penaetti Sch Penaetti 2016 Penaett 5016 Penaett 5016 Penaett 3506 Penaett 3506 Penaettia | Concentration in groundwater [mg]] They fusured to Parcanti Stri Parcanti 20th Parcant SOth Parcant 10th Parcant 19th Parcantile | Concentration in groundwater [mg/l] Time locard: Lit Percentil (dr. Percentil 20th Percent 30th Percent 30th Percent 39th Percentile | Concentration in groundwater (eg/l) Time Leard: Sit Percent: Sitt Percent: 20th Recent: S0th Recent With Recent With Percentine | Concentration in proundwares [eg/] Time [used] List Percentil Str. Percentil 20th Percent 10th Percent 10th Percent 19th Percentile | Concentration in groundwater [mg/l] Time Ivanis] 3it Perianti 365 Perianti 305 Periant 305 Periant 305 Periant 355 Perianti 405 Periantia | Concentration in groundwater [mg/] Time learni 1:01 Percenti 501 Percenti 1:00 Percent 500 Percent 300 Percent 350 Percentile | Concentration in groundwater (eg/) Time (versi) Lit Percenti lith Percenti 10h Percent 50h Percent 90h Percent 99h Percent |
| 0.006-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 0-300.0 0-300.0 0-300.0 0-300.0 00-300.0 00-300.0 90-300.0 | 808-00 0.08-00 0.088-00 0.089-00 0.089-00 0.088-00 0.088-00 | 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 0-305 0-305 0-305 0-306 0-305 0-305 0-305 0-306 0-305 | 5.008-00 0.005-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 | 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 |
| 1.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1008-00 5:008-00 0.008-00 0.008-00 0.008-00 1418-17 7.688-17 8.608-05 | 1005-00 5005-00 5005-00 5005-00 5005-00 5005-00 5005-00 5005-00 | 1008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1008-00 0.008-00 0.008-00 0.008-00 3.508-17 1.468-16 1.988-14 | 1.008+00 5.008-00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 |
| 2.00E+00 0.00E+00 | 2.00E+00 8.00E+00 0.00E+00 8.00E+00 0.00E+00 | 2008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.00E+00 0.00E+00 0.00E+00 0.00E+00 9.58E-06 2.22E-08 5.956-00 2.756-06 1.00E+00 0.00E+00 0.00E+00 1.47E-08 5.752.06 1.00E-04 1.47E-04 8.322.04 | 1.96E-90 0.99E-90 0.99E-96 0.92E-90 0.92E-96 0.99E-96 0.99E-96 0.92E-96 1.92E-90 0.92E-90 0.92E-96 0.92E-90 0.92E-96 0.92E-96 0.92E-96 | 2.008-00 5.002-000 5.002-000 5.002-000 5.002-000 5.002-000 5.002-000 5.002-000 5.002-000 5.002-000 5.002-000 5.002-000 5.002-000 5.002-000 5.002-0000000000000000000000000000000000 | 2.50E+00 6.00E+06 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 5.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 2008+00 0.008+00 0.008+00 0.008+00 2.886-15 5.018-00 1.488-09 4.178-08 3.008+00 0.008+00 0.008+00 7.586.08 1.326.05 2.346.04 3.818.04 6.856.04 | 2.00E+00 0.00E+00 0.00E+0000000000 |
| 1.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 4.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 1004-00 0.004-00 0.004-00 0.004-00 0.004-00 0.004-00 0.004-00 0.004-00 0.004-00 | 100E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 4.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 108-00 5005-00 5005-00 1475-08 5751-06 1205-04 1575-04 1312-04 4008-00 5005-00 7128-06 1208-05 5388-04 8208-03 5208-03 5208-03 | 1.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 4.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 9.008+00 5.008+00 5.008+00 5.008+00 5.008+00 5.008+00 5.008+00 4.008+00 5.008+00 5.008+00 5.008+00 5.008+00 5.008+00 5.008+00 | 120E-00 030E-00 030E-00 030E-00 030E-00 030E-00 030E-00 030E-00 430E-00 030E-00 030E-00 030E-00 030E-00 030E-00 030E-00 | 1001-00 0.001-00 0.002-00 7.590.00 1.020-05 2.340.04 3.801.04 6.850.04 4.005-00 0.001-00 1.808.05 5.416.05 1.346.03 1.346.03 1.336.02 1.776.02 | 3.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 |
| 5.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 | 5.008-00 6.068-06 6.008-00 6.088-06 6.008-06 6.008-06 6.088-06 | 5008-06 5208-05 5308-06 5308-06 5308-06 5308-06 5308-06 | 5305-00 4456-05 2486-04 5766-04 7.496-05 2786-02 3.486-02 5.486-02 | 5.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 5.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 5.008-06 6.008-06 0.008-00 0.008-06 6.008-06 6.008-06 6.008-06 | 5.000-00 1.200-04 6.040-04 1.376-03 1.726-02 6.226-02 7.628-02 1.096-01 | 5.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 |
| 5.002-00 0.000-00 0.002-0000000000 | 6.008-00 0.002-00 0.002-00 0.008-00 0.002-00 0.002-00 0.002-00 0.002-00 | 6.00E-00 0.00E-00 | 6.008-00 1.056-03 1.006-03 5.528-03 2.798-02 6.898-02 5.528-02 1.228-01 7.008-00 6.386-03 1.198-02 1.858-02 5.798-02 1.258-03 1.518-03 1.998-03 | 102-00 0.02-00 0.02-00 0.02-00 0.02-00 0.02-00 0.02-00 0.02-00 0.02-00 0.02-00 0.02-00 0.02-00 0.02-00 0.02-00 | 6.008-00 5.002-00 0.002-00 5.002-0005-0005-0005-0005-0005-0005-0005 | 6.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 6.00E-00 2.25E-01 7.79E-03 1.27E-01 6.33E-03 1.57E-04 3.80E-05 2.57E-05 | 8.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 7.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 8.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 4.00E-00 8.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.11E-18 | 7.000+00 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 | 1000-40 0.000-40 0.000-40 0.000-40 0.000-40 0.000-40 0.000-40 | 1000-00 6.000-01 1200-02 1600-02 5.700-01 1200-01 1200-01 1200-01 8.000-00 6.000-01 1400-02 1200-01 7.040-01 1200-01 2.000-01 2.000-01 | 8004-00 5008-00 5008-00 5002-00 5002-00 5002-00 5002-00 5002-00 | 2.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 7.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 8.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 | 7.001+00 1.606-02 2.746-02 3.818-02 1.838-01 2.776-01 3.276-01 4.146-01 8.008+00 2.548-02 3.828-02 8.256-02 1.848-01 4.568-04 4.668-05 5.766-05 | 8.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 |
| 9.006+00 0.006+00 0.006+00 0.006+00 0.006+00 1.506-09 2.426-08 2.056-04 | 9,006-00 0,008-00 0,006-00 0,006-00 0,006-00 0,006-00 0,006-00 | 9006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 8008-00 8.576-08 1.526-02 2.026-02 7.726-02 2.226-03 2.686-05 8.296-01 | 6-306-300 0.008-00 0.306-30 0.008-30 0.306-30 0.306-30 0.306-30 | \$.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 9.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | \$008-00 2.556-02 3.556-02 4.846-02 1.856-01 4.966-01 5.846-01 7.886-01 | 9.006+00 0.006+00 0.006+00 0.006+00 0.006+00 0.006+00 0.006+00 |
| 1088-01 0.008-00 0.008-00 0.008-00 0.008-00 1138-06 1598-14 1218-11 | 1006-01 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 1002-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1000-01 7,200-03 1,240-02 1,050-02 0,500-02 2,270-01 2,050-01 3,520-01 | 1088-01 0.088-00 0.008-00 0.088-00 0.088-00 0.088-00 0.088-00 0.008-00 | 1002-05 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1006-01 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 108-01 188-02 2546-02 1596-02 1596-01 5326-01 6466-01 8286-01 | 1.008+01 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 |
| 1.10E=01 0.00E=00 0.00E=00 0.00E=00 0.00E=00 0.346.34 1.342.12 5.32E=00 1.80E=00 0.00E=00 0.00E=00 0.00E=00 1.226.01 4.346.00 2.00E=00 | 1.30E+01 0.00E+06 0.00E+00 0.00E+00 0.00E+06 | 1.10E-01 0.00E-00 0.00E-0000000000 | 1108-01 6346-01 1096-02 1428-02 5438-02 2096-01 2346-01 4096-01 1458-02 6546-01 1056-02 1366-02 5186-02 1296-02 2456-02 4366-03 | 1.52K-61 0.00K-00 0.00K-00 0.00K-00 0.00K-00 0.00K-00 0.00K-00 1.80K-01 0.00K-00 0.00K-00 0.00K-00 0.00K-00 0.00K-00 0.00K-00 | 1.305+05 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 1.605+05 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 | 1.50E-61 0.00E-90 0.0 | 1308-03 1708-02 2.658-02 3.596-02 1.396-03 4.596-03 6.836-03 1.596-03 1.626-02 2.698-02 1.626-020-02-020-020-020-020-020-020-020-0 | 1.5%+51 0.00F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 |
| 1408-01 0.000-00 0.000-00 0.000-00 7.838-20 5.996-11 1.688-09 4.518-08 | 1406-01 0.008-00 0.008-00 0.006-00 0.008-00 0.008-00 0.008-00 | 1408-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1402-01 6.010-00 5.070-00 1308-02 5.056-02 1408-01 2.400-01 4.040-01 | 1406-01 0.008-00 0.005-00 0.005-00 0.008-00 0.008-00 0.008-00 | 148-01 0.001-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1406-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1408-01 1418-02 2408-02 3.308-02 1208-01 4.128-01 5.908-01 8.408-01 | 1406-01 0.006-00 0.008-00 0.006-00 0.008-00 0.008-00 0.008-00 |
| L428-0L 0.000-00 0.000-00 0.000-00 1.925-17 5.796-10 L1NE-08 2.886-07 | 1478-911 0.005-00 0.0050 00-800.0 00-800.0 00-800.0 00-800.0 10-809.0 | 1408-01 0.005-00 0.002-00 0.002-00 0.005-00 0.005-00 0.008-00 | 1405-01 5486-05 5396-05 1238-02 4858-02 1586-01 2266-01 8406-01 | 1408-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1428-01 0.002-00 5.002-00 0.002-00 0.008-00 0.002-00 0.008-00 | 1408-01 5065-06 5005-00 5005-00 5005-00 5005-00 5005-00 | 1408-01 1548-02 2378-02 E308-02 L278-01 4008-01 55688-01 8278-01 | 1.606-01 E.008-00 0.008-00 0.088-00 0.008-00 E.008-00 0.008-00 0.008-00 |
| 1.70E+05 0.00E+00 0.00E+00 0.00E+00 2.40E+16 1.20E-09 2.80E-08 6.54E-07 1.90E+05 0.00E+00 0.00E+00 0.00E+00 6.79E-15 5.07E-06 1.12E-07 2.04E-05 | 1.798-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 170E-01 0.00E-00 | 1.708-01 5.346-03 8.346-03 1.298-02 4.708-01 1.546-01 2.228-03 1.728-03 1.958-01 5.206-03 8.766-03 1.186-02 4.516-03 1.846-03 2.136-03 1.586-03 | 178-41 0.08-40 0.000-400-400-400-400-400-400-400-400-40 | 1,705-05 0,005-00 0,0000000000 | 1.70E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.80E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1708-05 1548-02 2,348-02 3,286-02 1,286-05 3,348-01 5,568-01 7,878-01 1,988-05 1,528-02 2,298-02 3,148-02 1,228-01 3,878-01 5,468-01 7,858-01 | 1.798-61 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 1.908-61 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 108-01 0004-00 0008-00 0008-00 1108-11 2408-08 1108-07 1488-08 | 2336-01 0.009-00 0.009-00 0.009-00 0.009-00 0.009-00 0.009-00 | 110K-01 0.00K-00 0.00K-00 0.00K-00 0.00K-00 0.00K-00 0.00K-00 | 1200-01 4308-01 8.308-01 1208-02 4.508-01 1408-01 2.108-01 1508-01 | 110-01 0.00-00 0.00-00 0.00-00 0.00-00 0.00-00 0.00-00 | 2.00-01 0.001-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1308-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.10F-01 1.46F-02 2.21F-02 ED4E-02 1.20F-01 F.74F-01 7.46F-01 7.46F-01 | 2.50E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 |
| 2.105+05 0.005+00 0.005+00 0.005+00 9.745-13 1.005-07 8.765-07 7.346-06 | 2305-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 2306-01 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 2308-01 4425-03 7.825-09 1.045-02 4.195-02 1.875-01 1.885-01 1.885-01 | 1.008-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2305-05 0305-00 5305-00 0305-00 0305-00 0305-00 0305-00 | 2306-01 6306-00 0306-00 0306-00 0306-00 0306-00 0306-00 0306-00 | 2308-01 1486-02 2206-02 3026-02 1176-01 8486-01 5176-01 7586-01 | 2.305-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 |
| 2.608-05 0.008-00 0.008-00 0.008-00 4.718-12 4.818-07 2.768-06 1.308-05 2.808-05 0.008-00 0.008-00 1.276.58 1.008-13 1.276.06 4.858.06 1.896.05 | 2.688-01 0.008-0000000000 | 2.40E+01 0.00E+00 0.00E+0E 0.00E+00 | 2.682.401 3.995.401 7.286.40 9.932.407 3.996.402 3.828.41 1.876.41 3.826.41 | 1426-01 0.088-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 1406-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 2588-05 0.005-00 0.002-00 0.008-00 0.005-00 0.005-00 0.005-00 0.002-00 0.002-00 0.005-0000000000 | 2.601-01 0.001-00 0.001-00 0.008-00 0.001-000-000-000-000-000-000-000-000-00 | 2.608-01 1.378-02 2.148-02 2.598-01 1.198-01 3.568-01 5.048-01 7.378-01 2.609-00 1.588.02 2.088.02 2.388.02 1.188.01 3.508.01 5.388.01 7.388.01 | 2.4XX+61 0.000-00 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 2.8XX+61 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 |
| 1200-01 0.000-00 1.000-00 1.270-08 1.000-01 1.000-06 1.200-05 1.00 | 2,004-01 0,004-00 0,004-00 0,004-00 0,004-00 0,004-00 0,004-00 0,004-00 0,004-00 | 320E-03 020E-00 020E-00 020E-00 020E-00 020E-00 020E-00 020E-00 | 200-01 120-01 6.06-01 6.06-01 120-01 120-01 120-01 120-01 | 2.88E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 2,008-05 5,008-00 5,008-00 5,008-00 5,008-00 5,008-00 5,008-00 3,008-05 5,008-00 5,008-00 5,008-00 5,008-00 5,008-00 5,008-00 | 3.206+05 0.006+00 0.006+00 0.006+00 0.006+00 0.006+00 0.006+00 0.006+00 | 2.664-05 1.556-02 2.086-02 2.786-02 1.185-05 1.506-05 4.576-05 7.586-05 3.206-05 1.296-02 2.026-02 1.686-02 1.086-05 3.396-05 4.726-05 7.546-05 | 1.264+05 0.004+06 0.006+00 0.004+00 0.004+00 0.006+00 0.006+00 0.006+00 |
| 3.508-05 0.808-00 7.028-18 9.476-16 5.096-10 5.458-06 1.846-06 4.598-05 | 3.508-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 3.502-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 3500-01 2,046-03 5,500-05 7,506-07 3,356-02 1,100-01 1,506-01 2,616-01 | 1502-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 3.502-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1502-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 3508-01 1208-02 1398-02 2.618-02 1.048-01 3.278-01 4.608-01 6.918-01 | 1.50E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 |
| 1908-05 0.006-00 2.168-06 1.876-04 6.076-09 1.076-06 2.758-05 6.476-05 4.008-05 0.008-00 4.106-05 1.138-03 5.078-08 1.778-05 3.538-05 7.828-05 | 1.566+01 0.00E+00 0.00E+000E+0 | 1.50E+01 0.00E+00 | 1988-d1 2086-01 1.046-00 7.416-03 1.186-02 1.078-01 1.478-01 1.466-01 4.989-01 1.788-03 4.586-03 6.706-03 1.986-02 1.016-03 1.396-04 2.328-01 | 8.90E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 4.90E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1.968-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 4.005-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 8 505-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 4 505-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1908-01 1345-02 1898-02 2546-02 1028-01 8368-01 4446-01 6328-01 4.898-01 1878-02 1898-02 2446-02 9378-02 5546-01 4388-01 6556-01 | 1908-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 4 70E-01 1.69E-19 4.99E-14 6-21E-13 2.29E-07 2.69E-05 6-448E-05 9.9E-05 | 4.708+01 0.088-00 0.008+00 0.088-00 0.008+00 0.008+00 0.088+00 | 4.70E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 4.70E-01 1.71E-03 4.05E-03 4.05E-03 2.66E-02 9.42E-02 1.73E-01 1.71E-01 | 4.708-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 4.708-05 5.008-00 5.008-00 5.008-00 5.008-00 5.008-00 5.008-00 | 4.708-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 4708-01 5326-03 1498-02 2328-02 5388-02 2328-01 4398-01 6388-01 | 4.708-01 0.008-00 0.008-00 0.002-00 0.008-00 0.008-00 0.008-00 |
| \$205-05 1.885-17 \$326-13 \$566-12 \$305-07 \$746-05 \$356-05 1.226-04 | 5.258+01 0.058-00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 | 5,20E+01 0,00E+00 0,00E+00 0,00E+00 0,00E+00 0,00E+00 0,00E+00 | 5208-01 5486-04 8346-08 8298-08 2498-02 8498-02 1288-01 2086-01 | 5.205-01 0.005+00 0.005+00 0.005-00 0.005-00 0.005-00 0.005+00 | \$306-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 8.208-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | \$205-01 8305-08 1356-02 2386-02 8.878-02 2.806-01 8.886-01 6.118-01 | \$208+01 0.005+00 0.006+00 0.006+00 0.005+00 0.006+00 0.006+00 |
| | | | | | | | | |
| 5706-01 1796-06 1868-12 5405-11 2246-06 4488-05 7268-05 1446-04 5402-01 5276-05 9302-12 1286-09 4728-06 5786-05 8286-05 1528-04 | 5.705-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 5,708-01 508-00 5.00E-00 5.00E-0005.00E | 5.70E-01 6.5ME.04 2.0E-03 4.60E.03 2.15E-02 5.0E-02 1.0E-01 1.5ME-01 6.40E+01 4.5ME-04 2.42E-08 1.57E-05 1.5ME-02 7.21E-02 9.45E-02 1.79E-01 | 5.70E-01 0.00E-00 0.00E-0000000000 | 5.758-01 0.056-00 0.008-00 0.028-00 0.008-00 0.006-06 0.026-00 0.008-00 5.458-01 0.005-00 0.008-00 0.008-00 0.008-00 0.006-00 0.008-00 | 5.70E-01 0.00E-00 0.00E-0000000000 | 5,706-01 7,856-05 1,406,02 2,046,02 8,368,02 2,686-01 3,696,01 5,828-01 6,406-01 6,486,03 1,586,42 1,586,42 7,806,42 2,556,41 3,506,01 5,656,41 | 5.70(+01 0.00(+00 0.00(+00 0.00(+00 0.000(+000 |
| 7.00E-05 5.85E-04 6.18E-11 1.05E-08 7.52E-06 6.66E-05 9.79E-05 1.72E-04 | 7.006+01 0.006+00 0.006+00 0.006+00 0.006+00 0.006+00 0.006+00 | 7 006-01 0.006+00 0.006+00 0.006+00 0.006+00 0.006+00 0.006+00 | 7008-01 1376-04 1898-08 1418-08 1726-02 6538-02 8436-02 1476-01 | 1005-03 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 7.006-05 0.006-00 0.006+00 0.006+00 0.006+00 0.006+00 0.006+00 | 7.006-02 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 7.008-03 5.286-08 1.286-02 1.746-02 7.276-02 2.416-05 3.286-03 5.496-05 | 7.006+01 0.006+00 0.006+00 0.006+00 0.006+00 0.006+00 0.006+00 |
| 7.882-01 1.462-03 5.625-00 4.376-08 1.062-05 7.512-05 1.082-04 1.756-04 8.608-05 1.056-13 8.402-09 1.818-07 1.462-05 8.302-05 1.196-04 1.512-04 | 7.802-01 0.902-0000-000-000-000-000-000-000-000-000 | 7.805-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 7.802+01 2.346-04 1.576-08 2.906-08 1.558-02 4.025-02 7.966-02 1.588-01 8.402+03 1.386-04 1.306-08 2.446-08 1.388-02 5.526-02 7.296-02 1.425-01 | 7.88441 0.58440 0.58440 0.58440 0.58440 0.58440 0.58440 0.58440 0.58440 | 7.888-01 0.001-00 0.088-00 0.088-00 0.088-00 0.000-00 0.008-00 0.000-000- | 7.808-01 0.998-96 0.992-96 0.998-96 0.998-96 0.998-96 0.998-96 0.998-96 0.998-96 0.992-962-960-992-992-96 0.992-96 0.992-96 0.992-96 0.992-96 0.992-96 0.992 | 7.805401 4.17648 1.94642 1.68642 6.88642 2.31641 3.18641 5.18641 8408406 1.47648 1.02642 1.50642 6.34640 2.20643 2.90641 4.89641 | 7.50E=01 E-00E=00 0.00E=00 0.50E=00 0.00E=00 0.00E=00 0.50E=00 0.50E=00 0.00E=00 0.50E=00 0.50E=00 0.50E=00 0.50E=00 0.50E=00 |
| 550E-05 1786-05 5256-06 8346-07 1208-05 8296-06 1206-04 2346-04 | 9.50(+01 0.00(+00 0.00(+00 0.00(+00 0.00(+00 0.00(+00 0.00(+00 | \$ 50E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 8 50E-01 8 16E 05 8 46E 06 2 03E 03 1 34E 01 6 82E 02 6 56E 02 1 32E 01 | 8 50E-01 0 00E-00 0 00E-00 0 00E-00 0 00E-00 0 00E-00 0 00E-00 | \$50E-05 0.00E-00 0.00E+00 0.00E+00 0.00E-00 0.00E-00 0.00E+00 | \$50E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | \$525-01 1016-05 \$375-01 1.565-02 5.565-02 2.056-01 2.746-01 4.646-01 | 9.58+01 0.00F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 0.00F+00 |
| 1058-02 8386-03 1326-07 1396-04 2026-05 8356-05 1386-04 2306-04 1388-00 1396-33 5766-07 1496-04 1396-05 6466-05 1396-04 2416-04 | 1.002-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 1.002-00 1.002-00 0.002-000 0.002-0000 0.002-0000 0.002-0000 0.002-000 0.002-0000 0.002-0000000000 | 1052-02 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 1052-02 5.552-05 7.070-04 1.852-03 1.070-02 4.335-02 5.562-02 1.352-01 1.562-02 2.4252-05 4.952-04 1.2752-05 9.152-03 3.852-02 5.385.02 1.062-03 | 1052-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 1.102-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1084-02 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 1255-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1099-00 2.385-03 8.135-03 1.396-02 5.535-02 1.976-03 2.586-03 4.586-03 1.886-03001000000000000000000000000000000000 | 1062-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 |
| L18E-02 2.11E-03 5.75E-07 2.41E-06 2.24E-05 9.44E-06 2.31E-04 2.41E-04 1.28E-02 1.54E-03 8.20E-07 2.72E-06 2.23E-05 9.52E-05 1.32E-04 2.34E-04 | 1.352+02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.38E+02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1.162-02 0.082-00 0.002-00 0.002-00 0.082-00 0.082-00 0.082-00 0.082-00 1.282-02 0.082-0000000000000000000000000000000000 | 1.160-02 2.426-05 4.956-04 1.276-03 9.156-03 3.806-02 5.186-02 1.066-01 1.286-02 9.976-06 3.426-04 9.396-04 7.546-03 3.306-02 4.366-02 9.396-02 | L384-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 L388-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.146-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.28E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1162-01 6306-06 5306-06 5306-00 5306-06 5306-06 5306-06 5306-00 1236-02 5306-05 5306-05 5306-05 5306-05 5306-05 5306-05 5306-05 | 1.562-02 1.468-03 6.876-03 1.088-02 5.076-02 1.818-01 2.396-01 4.096-01 1.288-07 1.086-03 5.966-03 5.528-03 4.588-07 1.618-03 2.278-03 3.808-04 | 1.382=02 0.00E=00 0.00E=0000000000 |
| L438-02 5.58E-04 6.77E-07 2.77E-06 2.23E-05 9.08E-05 L33E-04 2.31E-04 | 1418-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.432-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1482-02 3.875-06 2.562-04 6.762-04 6.562-03 2.805-02 3.755-02 8.562-02 | 1412-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1412-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1.412-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1486-02 7796-04 4596-03 8186-03 4106-02 1496-01 2.076-01 1586-01 | 1.412-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 |
| 1548-02 5218-04 7408-07 2468-06 2028-05 528-05 1328-04 2428-04 1728-02 1386-04 4796-07 1386-06 1728-05 5186-05 1386-04 2308-04 | 1.548+02 6.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 | 1568-02 0208-00 0208-00 0208-00 0208-00 0208-00 0208-00 0208-00 1725-02 0208-00 0208-00 0208-00 0208-00 0208-00 0208-00 0208-00 | 1588-02 1288-06 1288-06 4378-06 4378-08 2388-02 5386-02 6388-02 1728-02 1398-07 6578-06 1388-08 13878-02 2486-02 5386-02 | 1562-02 0.008-0000000000 | 1568-00 0306-00 0306-00 0306-00 0306-00 0306-00 0306-00 0306-00 0306-00 0306-00 0306-00 0306-00 0306-00 0306-00 | 156F-02 0.00E-00 | 1568-02 518-04 8398-03 6568-03 8408-02 1398-01 8408-01 8278-01 1728-02 8326-04 2728-01 5366-03 8346-02 1398-01 1466-01 2375-01 | 1548-42 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 1.725-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| L908=02 2.15E-14 2.40E-07 1.3HE-06 1.42E-05 6.60E-05 1.03E-04 2.00E-04 | 1.908-02 0.908-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.508-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | L908-02 L206-07 1096-08 L616-04 2,656-00 1546-02 2,096-02 4,626-02 | 1.908-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.902-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1508-02 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.008-00 | 1.908-02 2.005-04 1.938-03 4.318-03 2.498-02 1.046-01 1.488-01 2.478-01 | 1.908-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 1.226-14 |
| 2,226-02 5,280.04 1,406.07 8,246.07 1,086.05 5,546.05 8,570.05 1,496.04 | 2306-02 0,006-00 0,006-00 0,006-00 0,006-00 0,006-00 0,006-00 | 2.106-02 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 2100-02 3400.08 1400.05 3218.05 2000.05 1220.02 1446.02 3300.02 | 2,008-02 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 | 2.306-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 2.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 2,106-02 8,996-05 1,396-03 8,128-03 2,328-02 8,128-02 1,836-02 2,376-04 | 2108+02 2:008-00 0.008+00 0.008+00 0.008+00 2:008+00 2:008+00 |
| 2,125-02 1,6M-04 9,825-05 4,465-07 8,055-06 4,485-05 7,095-05 1,515-04 2,565-02 8,445-05 4,925-08 2,415-07 5,555-06 1,525-06 5,705-05 1,345-04 | 2.325+02 0.005+0000000000 | 2.325-02 0.00E-00 0.30E-00 0.00E-00 0.00E-0000000000 | 2328-02 \$905.09 5396.06 4396.05 1505.03 9366.03 2325.02 1046.02 2546-02 2376.09 2328.06 238.05 1036.08 6376.03 1026.02 2328.02 | 2,128-42 0.008-4008-4008-4008-4008-408-408-408-408- | 2,328-02 0,006-00 0,008-00 0,008-00 0,006-00 0,0000000000 | 2325-62 6.008-96 5.005-90 6.005-90 6.005-90 6.008-90 6.005-90 2.567-67 6.008-90 5.005-90 6.005-90 6.005-90 6.005-90 6.005-90 | 2.125-02 8.795-05 9.505-04 2.476-0 1.965-02 7.876-02 1.125-02 2.126-05 2.568-02 1.446-05 6.046-04 1.756-03 1.636-02 6.746-02 9.836-02 1.606-03 | 1326+02 0.006+00 0.006+00 5.006+00 5.006+00 5.006+00 0.006+00 4.23513 2.548+00 5.008+00 5.006+00 5.008+06 5.008+00 5.008+00 5.008+00 5.208.12 |
| 2.828+02 1.916-05 2.958-08 1.388-07 1.988-06 2.958-05 4.378-08 8.878-05 | 2.626+02 0.006+00 0.006+00 0.006+00 0.006+00 0.006+00 0.006+00 | 2.838-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.828-02 5.026-05 7.146-07 1.008-05 4.675-04 5.088-03 7.438-03 1.828-02 | 2.525-00.0 00-300.0 00-300.0 0.005-00 0.006-00 0.006-00 0.006-00 | 2.828-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 2.825-02 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 2.828-02 5.328-06 3.428-04 1.298-03 1.398-02 5.396-02 8.298-02 1.688-01 | 2.825+02 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 4.696-13 |
| 1006-02 1786-05 1006-06 5366-08 2466-06 1976-05 1186-06 7286-06 1128-02 1206-05 4376-09 1496-08 1486-06 1598-05 1796-06 618-05 | \$2004-02 0.0004-0004- | 1005-07 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 1.125-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1001-02 1805-01 2240-07 4336:08 4405-04 1456-03 5706-03 1565-02 1125-02 1325-01 7256-08 1858-06 1755-04 2586-03 1396-03 1226-02 | 1005-02 0005-00 0005-00 0005-00 0005-00 0005-00 0005-00 0005-00 1125-02 0005-00 0005-00 0005-00 0005-00 0005-00 0005-00 0005-00 | 8.00(=02 0.00(=00 0.000(=000(000(=00 0.000(=000(000(=000(000(=00 0.000(=000(| \$2054-00 5.008-00 0.006-00 0.006-00 5.006-00 0.006-00 0.006-00 \$1224-00 0.006-00 0.006-00 0.008-00 0.006-00 0.006-00 0.006-00 | 8.00(+02 1.646.06 1.988.04 7.706.04 1.028.02 4.786.02 8.886.02 1.416.01 8.121+02 5.306.07 1.056.04 4.826.04 7.776.03 8.916.02 5.426.02 1.156.01 | 8.00(+02 0.00(+00 0.0 |
| 140-02 8346-06 ES8E-09 1106-08 1008-06 1298-05 2198-05 6108-05 | 3.12*02 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 3.440+02 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 | 1.131+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.44E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 1.124-02 1.125-01 7.156-08 1.456-08 1.712-08 2.586-08 3.586-09 1.286-02 1.446-02 1.675-12 2.086-08 6.426-07 1.536-04 1.836-03 2.816-08 9.075-03 | 3.121-412 0.000-400-400-400-400-400-400-400-400-40 | 3.124-02 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 8.440-02 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 3.128-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 3.008-00 0.008-0000000000 | 3.124-02 5.00-07 1.00-04 4.021-04 7.742-03 3.912-02 5.403-02 1.392-01 3.440-02 1.002-07 5.146-05 2.396-04 5.762-03 3.222-02 4.466-02 9.306-02 | 3.124-02 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.780-00 3.446-02 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.780-00 |
| 1.805-02 1.836-06 4.856-00 4.036-06 5.828-07 6.746-06 1.136-05 2.788-05 | 3.80E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 3.00E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 3806-02 2406-13 4308-09 1458-07 8336-05 1266-03 1836-03 6-428-03 | 3.808-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.80E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | \$30E-C2 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | \$301-02 \$346.08 2.201-05 1.616.04 4.201-03 2.528-02 \$326.02 7.796.02 | 3.80E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.12E-0E |
| 4208-02 2348-36 1208-32 1305-39 3108-37 4308-36 7278-36 1278-36 4.649-02 1388-36 2.649-11 4126-03 1548-07 2718-36 4.649-36 1208-25 | 4208-02 8208-08 8208-08 8208-08 8208-08 8208-08 8208-08 8208-08 4446-02 8208-08 8208-08 8208-08 6208-08 8208-08 8208-08 | 4.20E-02 0.00E-00 0.00E-0000000000 | 4.208-40 8.676.14 1.086.49 4.756.08 4.275.08 7.086.04 1.226.03 4.286.03 4.668-40 1.568.14 2.058.05 1.168.08 2.296.04 4.576.04 8.026.04 2.758.03 | 4.25E-02 0.05E-00 0.05E-00 0.25E-00 0.05E-00 0.05E-000 0.05E-0000000000000000000000000000000000 | 4208-02 0.005-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 4.649-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 4.205-02 0.008-00 0.005-00 0.005-00 0.006-00 0.006-00 0.006-00 0.006-00 4.646-02 0.008-00 0.006-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 4.208-02 1.876-08 5.296-06 8.926-05 8.006-01 1.966-02 2.796-02 8.476-02 4.648-02 8.296-09 8.468-06 4.476-05 2.158-03 1.526-02 2.228-02 8.468-02 | 4.20E-02 5.00E-00 0.00E-00 5.00E-00 5.00E-00 5.00E-00 0.00E+00 4.31E-08 4.64E-02 5.00E-00 0.00E+00 5.00E+00 5.00E+00 5.00E+00 5.00E+00 1.09E-07 |
| \$128-02 5.985-17 4.808-12 1.118-10 7.281-08 1.585-06 2.475-06 7.348-06 | 5.128-02 0.088-08 0.008-00 0.088-08 0.008-00 0.008-00 6.488-19 | 5.128-02 0.NE-00 0.0E-00 0.0EE-00 0.0EE-00 0.0EE-00 0.0EE-00 0.0EE-00 | 5125-02 1565-14 5415-11 2765-05 1105-05 3156-04 5155-04 1505-05 | 5.128-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 5.128-02 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 5.139-02 0.008-00 0.002-00 0.002-00 0.008-00 0.008-00 0.008-00 | 5.128-02 8.436-05 1.386-06 2.426-05 1.586-03 1.186-02 1.776-02 4.656-02 | 5.125-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 1.765-07 |
| 5.658-62 2.318-38 8.138-33 3.176-31 3.408-08 9.958-07 1.538-06 4.316-06 6.268-62 2.318-09 2.098-33 1.076-11 2.028-08 5.328-07 1.048-06 3.238-06 | 5.652-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.13E-14 4.34E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 5458-302 0-305 00-305 00-305 00-300 0-305 00-30000000000 | 5451-02 7296-05 1126-01 1006-09 6470-06 2246-04 3796-04 1376-03 6248-02 7286-06 8486-02 3476-05 1596-06 1538-04 2446-04 8328-04 | 5455-03 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 4.000-00 4.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 5.628-02 0.00E-00 0.00E-000E-0 | 5452-02 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 5.65E+02 2.07E-00 7.45E-07 1.43E-05 1.20E-00 9.73E-00 1.48E-02 3.99E-02 4.24E+02 1.04E-02 3.54E-07 7.92E-06 8.69E-04 7.42E-03 1.39E-02 3.23E-02 | 5.552-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 5.752-07 5.346-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 5.732-07 |
| 4.248-02 2.316-09 2.048-13 1.076-11 2.028-08 5.528-07 1.048-08 3.238-06 4.898-02 0.008-00 2.928-14 2.228-02 8.208-09 3.118-07 5.776-07 1.948-06 | 6.396+02 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 2.008-00 6.396+02 0.008+00 0.008+00 0.008+00 0.008+00 1.376-07 2.138-08 | 6,246,400 0,008,40000000000 | 6.296-02 7.360-06 8.620-02 8.290-06 8.500-06 8.500-06 8.500-06 6.290-02 0.000-00 8.426-03 4.880-01 1.390-06 7.900-05 2.460-04 4.590-04 | 6.34E+02 0.00E+00 0.00E+000E+0 | 4.246+02 0.066+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 4.896+02 0.006+00 0.008+00 0.008+00 0.008+00 0.008+00 | 6.340-02 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 6.896-02 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 6.266-02 1.060-02 1.960-07 7.918-06 8.298-04 7.418-05 1.196-02 1.960-02 6.296-02 1.466-01 1.106-07 2.216-06 5.216-04 5.396-03 8.496-03 2.316-02 | 6.246+02 0.00E+00 0.00E+00000E+00 0.00E+0000000000 |
| 7.638=02 0.006=00 2.736-15 3.656-13 2.966-09 1.596-07 3.256-07 1.096-06 | 7.818+02 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 2.028-13 1.028-07 | 7.612-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 1.662-14 | 7.622-02 9.896-15 8.196-14 5.048-12 4.788-87 3.988-85 7.718-85 2.588-84 | 7.628-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 7.612+02 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 | 7.628-62 0.008-00 0.002-00 0.008-00 0.008-00 0.008-00 0.008-00 | 7.638-02 1.816-12 3.838-08 1.008-06 2.968-04 8.798-83 5.778-03 1.746-82 | 7.618+62 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 1.208-17 1.178-06 |
| 8.408-02 0.008-00 E048-16 4.296.64 8.966.60 7.646.08 E488.07 5.086.07 5.288-00 0.008-00 2.546.17 5.346.05 2.476.55 5.318.08 7.766.08 2.596.07 | 8.408-02 5.008-08 5.008-08 5.008-08 5.008-08 5.008-08 4.755-15 2.518-11 2.446.07 5.588-02 5.008-08 5.008-08 5.008-08 5.008-08 4.765.12 1.975.08 5.896.07 | 8.408-00 0.008-00 0.008-08 0.008-08 0.008-08 0.008-00 1.716-13 9.288-00 0.008-00 0.008-08 0.008-08 0.008-08 0.008-08 1.086-12 | 8.408-02 2.008-00 0.008-00 4.188-18 1.448-07 1.758-08 1.876-08 1.228-04 9.288-02 4.348-14 1.562-18 4.748-18 3.768-08 7.298-06 1.4282-05 1.758-08 | 8.408-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 9.208-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 8.405-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 9.305-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 8.408-40 5.008-00 5.008-00 5.008-00 5.008-00 5.008-00 5.008-00 5.208-01 5.008-00 5.008-00 5.008-00 5.008-00 5.008-00 | 8.408-02 0.008-00 7.686.09 2.686.07 1.846.04 2.526.03 8.776.03 1.226.02 9.288-02 5.766.03 1.816.09 7.146.04 8.256.05 1.586.03 2.466.05 8.246.05 | 8.402-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 1.046.03 1.470.04 9.266-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 4.170.14 3.216.04 |
| 1.008+03 0.008+00 2.968-36 1.538-34 6.548-33 1.308-08 1.446-08 1.226-07 | 1.008-05 0.008-00 0.008-00 0.008-00 0.578.10 1.076.08 9.376.07 | 1008-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 3.046-12 | 1008-03 0008-00 3180-04 1578-12 1018-08 2898-06 7130-06 2468-05 | 1008-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.008-03 0.308-00 0.308-00 0.008-00 0.308-00 0.308-00 0.508-00 | 1.008-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1008-03 2390-13 4.096-10 2.036-06 1.736-05 9.466-04 1.516-03 5.346-08 | 1.008-08 0.008-00 0.008-00 0.008-00 0.008-00 4.258-13 3.588-06 |
| 1021-03 0.008-00 8.648-06 2.348-04 2.086-03 5.868-09 1.508-08 6.528-08 1.138-03 0.008-06 4.178-36 1.708-04 8.108-03 1.348-09 6.138-08 2.278-08 | 1225-08 0305-00 0305-00 0305-00 0305-00 1705-33 1255-08 1385-06 1135-05 0305-06 0305-00 0305-05 0305-00 6375-25 1255-07 1345-06 | 1028-03 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.558-12 1130-03 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.558-11 | 1025-08 5005-08 0.086-00 1805-02 408-09 1025-06 2.988-06 1256-05 1186-08 6005-08 2.985-14 1.785-02 1496-09 3186-07 1.076-06 4.815-06 | 1528-08 5308-08 5308-06 5308-06 5306-06 5308-0608008-0608008-0608008-0608008-0008008-0 | 1025-08 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 1.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1.025+05 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 | 1021-03 2796-03 1796-03 8,306-09 1588-05 5,368-04 8,788-04 8,788-03 1188-03 4,558-03 3,458-03 8,446-09 4,338-06 2,858-04 5,458-04 1,756-05 | 1025-03 5005-00 0.008-00 0.005-00 0.005-00 8.005-00 8.025-13 3.505-06 1138-03 0.008-00 0.008-00 6.005-00 0.008-00 5.005-00 5.546-12 3.585-06 |
| 1256-08 0.606-60 2.046-16 6.376-15 2.826-12 6.068-00 2.156.09 8.306.49 | 1.25E+08 0.06E+00 0.00E+00 0.00E+00 0.00E+00 4.31E-08 4.05E-07 2.80E-06 | 1252-03 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 9.852-11 | 1252-03 0302-00 2468-14 5862-13 4398-30 9298-08 1898-07 1.982-06 | 1.252-03 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1292-03 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1.258-43 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1258-03 5158-03 2.096-00 1.276-08 2.388-06 1.488-04 2.808-04 8.618-04 | 1256-65 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 8.958-11 2.188-06 |
| 1.888-08 0.008-00 0.008-00 4.108.04 1.168.17 1.818-00 4.718-00 2.818-09 | 1.88E-08 0.00E-00 0.00E-00 0.00E-00 1.48E-07 8.49E-07 5.60E-06 | 1.88E-03 0.208-00 0.00E-00 0.00E-00 0.098-00 0.00E-00 0.096-00 | 1.88-08 5005-00 6.778-08 6.885-08 2.505-02 2.886-08 1286-07 6.886-07 | 1385-03 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1.888-08 0.306-30 0.308-00 0.208-00 0.308-00 0.306-30 0.306-30 | 188-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.006-00 | 1.00-01 9.00-01 6.438-02 8.00-07 7.406-05 1.406-04 4.876-04 | 1.884-08 5.005-00 0.001-00 0.005-00 0.005-00 0.005-00 8.688-00 8.194-04 |
| 1528-08 0.008-00 0.008-08 4.446.04 5.098.43 5.298-13 2.088-13 1.008-09 1468-08 0.008-00 1.058-18 4.218-17 1.578-18 1.428-11 5.846-11 2.978-00 | 1522-08 0.002-00 0.002-00 0.002-00 0.002-00 4.462.07 1496.06 7.546.04 1482-08 0.002-00 0.002-00 0.002-00 1.046.04 1.025.06 2.596.06 1.096.05 | 1535-05 5305-00 5305-06 5305-06 5305-06 5305-06 5305-06 5565-0 1485-03 5305-00 5305-06 5305-06 5305-06 5305-06 5305-00 2305-36 | 1.528-05 0.000-00 7.156.04 2.676.03 1.086.00 1.806.08 1.818.07 1.688-05 0.006-00 2.626.05 7.326.04 5.466.01 5.336.08 1.426.08 8.676.08 | 1.52E-03 0.00E-00 0.00E-000E-0 | L528-08 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1528-08 5.008-06 5.006-06 5.008-00 5.008-06 5.008-06 5.006-06 1.686-08 5.008-06 5.006-00 5.008-00 5.008-06 5.008-06 5.008-00 | 1525-03 1.20143 2.556.51 2.596.60 2.906.07 3.776.05 5.406.05 2.796.04 1.601+03 1.825.54 6.086.52 6.836.01 1.375.07 2.623.05 3.596.05 2.506.04 | 1.52E+03 0-00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.296.09 5.71E-04 1.68E+03 0.00E+00 0.00E+00 0.00E+00 0.00E+00 2.646.09 4.396.04 |
| L662-03 0.000-00 1.262-18 2.025-17 2.171-14 4.885-12 1.638-11 8.778-11 | 1862-03 0.002-00 0.002-00 0.002-00 4.495-13 1.622-06 3.312-06 1.382-05 | 1862-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1.862+03 1.536-16 1.156-15 1.848-14 1.386-11 2.636-09 1.286-08 8.736-08 | 1.82-05 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1842-03 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1.842-03 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1882-03 1535-34 4.076-12 2.826-01 1.296-07 3.886-05 1.106-04 4.076-04 | 1.542-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 7.658-09 5.078-06 |
| 2.058-05 0.000-00 0.000-00 6.818-20 2.601-15 1.058-13 7.378-13 5.788-00 2.266-08 0.006-00 0.008-00 9.836-19 2.008-15 1.886-12 1.226-12 1.296-00 | 2.552-08 0.002-00 0.002-00 0.002-00 1.882-08 4.492-06 8.578-06 2.278-05 2.266-08 0.002-00 0.002-00 1.978-15 1.986-07 1.128-05 2.006-06 4.688-05 | 2058-03 0.00F-00 0.00F-00 0.00F-00 0.00F-00 0.00F-00 6.04E-18 4.34E-09 2268-03 0.00F-00 0.00F-00 0.00F-00 0.00F-00 1.74E-15 4.25E-09 | 2082-01 2002-00 4392-16 1375-15 2375-12 1482-09 1296-08 5426-08 2382-09 2002-00 1398-06 1395-08 238-13 1396-09 1375-08 | 2.082-03 0.002-000-000-000-000-000-000-000-000-00 | 2002-00 0.002-0000000000 | 2.5%2+3% 5.0%2+30 5.0\%2+300000000000000000000000000000000000 | 2058-03 5388-05 1086-12 5186-02 5388-07 5186-05 1388-04 5306-04 2368-03 1426-05 2346-03 1386-02 2306-06 1486-05 5106-05 2346-04 | 2.062+01 0.002+00 0.002+00 0.002+00 0.002+00 1.075.18 2.296.08 3.196.04 2.362+01 0.002+00 0.002+00 0.002+00 1.575.14 4.316.08 5.296.08 |
| 2.508+03 0.008+00 1.546-15 1.596-08 1.346-15 5.518-04 1.706-12 2.408-01 | 2.508+03 0.008+00 0.008+00 5.176-13 7.346-07 2.208-05 3.546-05 7.798-05 | 2508-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 8.628-04 4.598-05 | 2508-03 0008-00 2408-35 5528-35 5798-13 1568-11 2238-33 2818-09 | 2.508-05 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2508-08 0.006-00 0.008-00 0.008-00 0.006-00 0.008-00 0.008-00 | 2508-00 0.008-00 0.005-00 0.008-00 0.008-00 0.005-00 0.005-00 | 2.508-00 2.312-05 3.342-14 5.456-13 4.462-05 5.216-06 1.306-05 8.796-05 | 2.588+03 0.008+00 0.008+00 0.008+00 0.008+00 3.828-15 7.056-06 4.128-06 |
| 2768-03 0.008-00 0.008-00 0.006-00 2.076-17 2.256-04 2.468-13 3.548-12 | 2.748+03 0.008+00 0.000+00 1.748-11 1.908-04 1.298-05 5.228-05 1.098-04 | 2.762-03 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 1.252-12 1.552-08 | 2782-03 0.002-00 0.002-00 0.002-00 6.890-35 5.546-12 1.996-11 1.780-10 | 2762-03 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 2762-03 0.002-40 0.002-06 0.002-00 0.002-00 0.002-06 0.002-06 | 2742-05 6.008-00 0.002-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.768+03 0.006+00 4.938-36 1.396-34 6.368-30 1.438-06 6.688-06 3.076-05 | 2.746+03 0.000+00 0.000+00 0.000+00 3.086-14 7.256-08 3.370-06 |
| 1000-03 0300-00 0300-00 0300-00 1466-17 1296-25 8336-25 3536-23 3.052-03 0300-00 0300-00 0300-00 4396-18 1126-16 4046-16 4016-14 | 1008-03 0.008-00 0.008-00 5.136-30 0.716-06 4.128-05 0.008-05 1.208-04 1058-05 0.008-00 0.008-00 7.808.30 1.518-06 4.148-05 6.548-05 1.308-04 | 1000-00 0.000-00 0.000-00 0.000-00 0.000-00 1.000-01 1.020-00 1.000-00 0.000-00 0.000-00 0.000-00 0.000-00 1.000.11 1.770.00 | 1002-01 0002-00 0002-00 0002-00 5478-05 5005-01 2405-02 1405-01 1002-00 0002-00 0002-00 0002-00 1402-05 9708-14 5536-13 5125.02 | 1002-12 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1000-00 5200-00 5200-00 5200-00 5200-00 5200-00 5200-00 5200-00 5200-00 5200-00 5200-00 5200-00 5200-00 5200-00 | 1001-03 5.001-00 5.001-00 5.008-00 5.001-00 5.001-00 5.001-00 1.001-03 5.008-00 5.001-00 5.001-00 5.001-00 5.001-00 | 1000-03 0.000-00 1.910-06 4.910-15 4.825-11 1.500-07 1.810-06 8.740-06 1.000-03 0.000-00 0.000-00 1.720.13 4.940-08 4.740-07 2.580-06 | 1.00E-01 0.00E-00 0.00E-00 0.00E-00 1.20E-01 8.10E-06 1.01E-06 1.00E-01 0.00E-00 0.00E-00 0.00E-00 1.70E-03 8.00E.08 1.90E.08 |
| 8368-03 6206-00 6388-00 6308-00 1706.18 1708.08 6798.18 5996.05 | 1.862-03 0.002-00 0.002-00 4.8120.05 1.546.06 4.798-05 1.536.04 | 8.56E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.02E-00 1.52E-00 2.54E-08 | 3.968-05 5.008-00 0.008-00 0.008-00 0.008-00 4.558-04 2.898-03 1.128-02 | 00-800.0 00-800.0 00-800.0 00-800.0 00-800.0 00-800.0 00-800.0 | 8.968-00 00-900.0 00-900.0 00-900.0 00-900.0 00-900.0 00-900.0 | 8366-08 0.008-00 0.006-00 0.008-00 0.006-00 0.008-00 4,376-18 | 8.568-03 0.008-00 0.008-00 0.008-00 4.818-03 1.385-08 1.036-07 4.508-07 | 5.562+05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 2.646-03 1.09E-07 2.79E-06 |
| 3.718-03 0.006-00 0.006-00 0.006-00 5.786-19 2.426-17 9.886-17 6.118-26 | 3.715-03 0.005-00 0.006-00 3.776-06 5.016-05 7.686-05 3.646-04 | 1712-03 0086-00 0.000-00 0.000-00 0.000-00 2.126-29 3.088-20 5.7%-36 4.000-03 0.000-00 0.000-00 0.000-00 3.186-27 4.575-20 9.996-38 | 1715-03 0.005-00 0.005-00 0.005-00 0.005-00 1.225-05 4.595-25 1.345-13 | 1715-05 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1718-08 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 3.716+03 0.006+00 0.006+00 0.006+00 0.006+00 0.006+00 7.166-16 | 1721-08 0.000-00 0.000-00 0.000-00 1.496-14 1.706-09 1.888-08 1.196-07 | 3.715+00 0.005+00 0.006+00 0.005+00 0.005+00 5.465-13 8.565-08 2.536-06 |
| 4.566+05 0.006+00 0.006+00 0.006+06 6.278-15 7.028-38 1.578-17 9.508-17 4.538+03 0.006+00 0.006+00 6.396-20 9.396.49 9.236-38 1.578-17 9.836-17 | 432E-05 030E-00 030E-00 733E-06 744E-06 538E-05 823E-05 138E-04 453E-08 030E-00 030E-00 853E-08 732E-06 538E-05 737E-05 125E-04 | 4.100-02 0.000-00 0.000-00 0.000-00 3.110-17 6.570-10 9.090-08 4.530-03 0.000-00 0.000-00 0.000-00 1.726-03 1.026.09 1.626.07 | 4.10K+05 0.00K+00 0.00K+00 0.00K+00 1.21E-34 2.07K-15 3.99K-15 1.34E-34 4.53K+05 0.00K+00 0.00K+00 0.00K+06 4.22E-38 3.756-15 4.39K-05 1.58E-34 | 4.055-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 4.588-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 4384-05 0306-00 0308-00 0308-00 0308-00 0306-00 0308-00 4586-03 0306-00 0308-00 0308-00 0308-00 0308-00 0308-00 | 410E-05 0.00E-06 0.00E-06 0.00E-00 0.00E-00 0.00E-00 0.27E-14 413E-05 0.00E-06 0.00E-06 0.00E-06 0.00E-06 0.30E-06 0.30E-06 1.34E-03 | 4.101<09 0.008<00 0.008<00 0.008<00 7.501-15 1.915-30 2.896-09 2.618-08 4.538<03 0.008<00 0.008<00 0.008<00 1.388.14 1.176.11 8.938.10 4.058.09 | 4.28(=05 0.000=00 0.000=00 0.000=00 0.000=00 2.345-03 5.506-08 2.102-06 4.536(=05 0.000=00 0.000=00 0.000=00 1.426-02 0.102-08 |
| 5.000-08 0.005-00 0.006-00 0.006-00 2.46615 1.425-18 4.776-18 2.386-17 | 5.00E-02 0.00E-00 0.00E-00 4.90E-08 4.90E-06 4.90E-05 7.11E-05 1.40E-04 | 5.005-03 0.005-00 0.005-00 0.005-00 5.005-00 4.415-04 2.055-09 2.355-07 | 5.00E-03 0.00E-00 0.00E-00 0.00E-06 4.218-06 4.276-05 5.876-05 1.22E-04 | 5.85E-05 0.00E-00 5.80E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 5.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 5.00E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.04E-11 | 5.001-03 0.005-00 0.005-00 0.001-00 7.145-15 2.645-13 3.246-11 4.345-00 | 5.005-03 0.005-00 0.005-00 0.005-00 0.001-00 1.505-12 5.205-08 2.195-06 |
| 5326-01 0.006-00 0.008-00 0.006-00 2.708-08 8.826-08 7.046-08 1.896-07 4.098-03 0.008-00 0.008-00 0.005-00 6.325-09 6.385-08 1.046-07 2.246-07 | 5.32E-03 0.00E-00 0.00E-00 2.43E-06 5.60E-06 4.45E-05 6.73E-06 1.40E-04 6.09E-03 0.00E-00 0.00E-00 1.09E-08 1.83E-06 1.65E-05 5.44E-05 1.24E-04 | 5.125-05 0.000-00 0.000-00 0.000-00 1.750.13 1.050.09 2.900.07 6.090-03 0.000-00 0.000-00 0.000-00 1.000-00 2.500.12 5.850.09 4.010-07 | 5328-03 0.006-00 0.006-00 0.006-00 5.006-06 5.075-05 7.706-05 1.346-04 6.096-08 0.006-00 0.008-00 0.008-00 1.776-05 1.346-04 1.586-04 1.386-04 | 5.525+03 0.00E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 5.09E+03 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 5.526-01 0.006-00 0.008-00 0.008-00 0.006-00 0.006-00 0.008-00 4.098-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 5325-03 5306-06 5306-06 5306-06 5206-06 5306-06 4286-09 7398-11 4396-08 5306-06 5306-06 5306-06 5306-06 5326-17 4356-35 | 5.528-03 0.008-00 0.008-00 0.008-00 7.695-03 8.258-02 1.496-00 6.098-03 0.008-00 0.008-00 8.268-04 1.188-04 1.646-03 8.398-12 6.268-01 | 5.526-05 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.696-12 3.586-08 2.26E-04 6.09E-08 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.096-12 2.516-06 2.13E-04 |
| 6.7%E=05 0.00E=00 0.00E=00 0.00E=00 6.26E-19 0.04E-18 1.41E-17 3.5%E-17 | 6.718-03 6.008-00 0.008-00 4.578-08 2.378-06 2.548-05 4.518-08 9.588-05 | 6.738-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 3.32E-12 6.88E-29 4.51E-07 | 6.788-03 0.000-00 0.000-00 0.000-00 1.000-05 1.700-14 1.100-14 5.400-14 | 6.732-33 0.502-60 0.002-60 0.002-00 0.002-00 0.002-00 0.002-00 | 6.792-08 0.502-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 6730-03 0.000-00 0.000-00 0.000-00 0.000-00 1.400-05 1.530-09 | 6.738-03 0.006+00 0.008-00 0.008-00 5.188-15 7.988-14 1.788-13 6.626-12 | 6.716+03 0.006+00 0.006+00 0.008+00 0.006+00 5.050-13 2.058-08 1.868-06 |
| 7484-08 0.004-00 0.008-00 0.005-00 1.555-18 2.028-07 8.428-07 8.298-07 8.298-08 0.008-00 0.008-00 2.488-08 8.7%-07 7.098-07 1.47%-08 | 7436-05 0.005-00 0.005-00 1405-09 1276-04 1495-05 1476-05 7496-05 8206-05 0.005-00 0.005-00 1495-05 4.785-07 1176-05 1405-05 5.785-05 | 7 428-03 0.002-00 0.002-00 0.008-00 0.008-00 5.008-02 7.228.09 4.688.07 5.205-03 0.002-00 0.005-00 0.008-00 5.048.02 1.048.08 6.448.07 | 748+08 0.00E+00 0.00E+00 0.00E+00 0.00E+00 2.080-04 4.580-04 1.428-03 8.20E+08 0.00E+08 0.00E+08 0.00E+08 2.476-04 5.20E-04 2.238-03 | 7.438-43 0.028-40 0.008-40 0.008-40 0.028-40 0.008-40 0.008-40 0.008-40 | 748-08 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 748-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 1.716-04 4.176-08 8.208-03 0.008-00 0.008-00 0.008-00 0.008-00 5.908-03 1.246-08 | 7.43(-63 0.00(-00 0.00(-00 0.00(-00 0.00(-00 7.56.04 1.396.03 2.996.03 8.20(-0) 0.00(-00 0.00(-00 0.00(-00 1.566.04 1.396.03 4.396.03 | 7436+08 0.000+00 0.000+00 0.000+00 0.000+00 1.000.13 1.410.08 1.340.06 0.200+00 0.000+00 0.000+00 0.000+00 0.000+00 1.610.14 5.300-09 7.640.07 |
| 8.208+08 0.008+00 0.008+00 0.008+00 2.686-18 0.776-07 7.096-07 1.478-06 9.062+08 0.008+00 0.008+00 0.008+00 2.086-17 1.446-06 2.168-16 4.188-16 | 820E+08 0.00E+00 0.00E+00 3.01E+09 6.70E-07 1.27E-05 2.30E-05 5.78E-05 5.06E+05 6.30E+06 0.00E+00 1.12E-18 3.30E-07 7.07E-06 1.44E-05 3.57E-05 | 8.208-03 0.008-00 0.008-08 0.008-00 0.008-00 8.646-02 1.088-08 8.468-07 9.062-03 0.008-00 0.008-06 0.008-00 0.088-00 1.138-11 5.008-08 1.096-06 | 8.201+01 0.002+00 0.002+00 0.002+00 0.002+00 2.476-14 5.205-14 2.235-13 5.062+03 0.002+00 0.002+00 0.000+00 6.295-14 3.235-13 6.255-13 | E.22E-08 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 5.06E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 8,208-09 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 3,045-08 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 8.208-08 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 5.908-03 1.248-08 9.068-05 0.008-00 0.008-00 0.008-00 0.008-00 1.156-17 4.258-12 1.798-08 | 8.208-03 5.008-00 5.008-00 0.008-00 5.008-00 5.585-34 1.568-13 4.346-13 5.048-03 0.008-00 0.008-00 0.008-00 1.438-13 7.788-13 1.248-12 2.058-32 | 8.20E+03 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.5E12-14 5.25E-09 7.64E-07 9.06E+03 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.55E-14 2.57E-09 6.80E-07 |
| 1008-04 0.005-00 0.005-00 0.005-00 2.525-18 1.705-06 3.495-16 7.546-06 | 1008+04 0.008+00 0.008+00 3.6MB-11 1.256-07 4.016-06 8.1ME-06 2.348-05 | 1005-04 0.005-00 0.005-00 0.005-00 0.005-00 2.405-11 1.065-08 1.145-06 | 1088-04 0.008-00 0.008-00 0.008-00 5.486-04 6.046-03 1.006-02 1.866-02 | 1.008-04 0.008-00 5.008-00 5.008-00 6.008-00 5.008-00 5.008-00 | 1008-04 0.008-00 0.008-06 0.008-00 0.008-00 0.008-00 0.008-00 | 1.008-04 0.008-00 0.008-00 0.008-00 0.008-00 3.515-36 3.785-11 2.676-08 | 1008-04 0.008-00 0.008-00 0.008-00 9.538-14 1.456-12 2.348-12 5.456-12 | 1005-04 0.005-00 0.005-00 0.005-00 0.005-00 1.745-15 1.735-09 1.475-07 |
| 1.082-04 0.002-00 0.082-00 0.002-00 2.136-17 1.492-36 2.178-16 4.782-36 1.002-00 0.002-00 0.002-00 1.055-17 1.302-36 2.018.16 4.942.58 | 1.008-04 0.008-00 0.008-00 1.648-11 1.258-07 4.018-06 6.188-06 2.348-05 1.308-04 0.008-00 0.008-00 8.786-12 8.278-08 2.078-06 4.648-06 1.218-08 | 1000-04 0.000-00 0.000-00 0.000-00 2.400-01 1.000-00 1.400-00 1.400-00 1.000-00 0.000-00 1.000-00 1.000-01 1.020.00 9.700.07 | 108-04 000-00 000-00 000-00 128-03 609-01 830-01 1492-02 139-04 000-00 1496-05 7408-05 1396-03 8496-03 1406-02 | 1.002-04 0.002-0000000000 | 1000-04 0100-00 0200-00 0200-00 0200-00 0200-00 0200-00 0200-00 0200-00 0200-00 0200-00 0200-00 0200-00 0200-00 | 1.00E-04 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.55E-16 0.79E-11 2.07E-08 1.00E-06 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.40E-15 1.58E-00 6.02E-08 | 1000-04 0.000-00 0.000-00 0.000-00 2.128-13 1.296-12 1.098-12 1.118-12 1.106-04 0.000-00 0.000-00 0.000-00 1.046.13 1.226.13 2.086.12 4.386.12 | 1.000-04 0.000-00 0.000-00 0.000-00 0.000-00 0.745-15 1.716-09 1.476-07 1.300-04 0.000-00 0.000-00 0.000-00 0.000-00 0.006-15 9.816.00 2.516.07 |
| 1228-04 0.005-00 0.008-00 0.008-00 1.405-17 1.876-08 2.366-16 4.416.05 | 1.22E+04 0.00E+00 0.00E+00 1.01E+12 1.80E-08 9.79E-07 2.29E-06 8.16E-06 | 1226-04 0.006-00 0.006-00 0.008-00 0.006-00 1.826-01 9.346-09 7.916-07 | 1228-04 4596-16 5476-15 1228-14 1086-13 6376-13 9306-13 1588-12 | 1.228-04 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 1228-04 0.006-00 0.008-00 0.008-00 0.006-00 0.008-00 0.008-00 | 1226-04 0.008-00 0.006-00 0.006-00 0.006-00 1.406-13 4.326-00 8.528-08 | 1228-04 0.008-00 2.5%-25 1.4%-04 2.828-03 1.318-02 2.056-02 4.008-02 | 1226-04 0.006-00 0.006-00 0.006-00 0.006-00 5.506-08 5.856-00 1.896-07 |
| L352+04 0.002+00 0.002+00 0.002+00 3.605-17 2.662-16 3.925-16 7.585-26 | 1352+04 0.000+00 0.000+00 3.426-13 5.776-29 4.678-07 1.078-06 2.786-06 | 1.352-04 0.502-00 0.002-00 0.002-00 0.002-00 1.435-11 6.682-09 7.575-07 | 1.88-04 7.348-17 1.126-14 1.718-14 1.718-13 8.258-13 1.138-12 2.128-12 | 1.55-04 0.008-00 0.005-00 0.005-00 0.008-00 0.008-00 0.008-00 | 1.552-04 0.005-00 0.008-00 0.008-00 0.005-00 0.008-00 0.008-00 | 1352-04 0.008-00 0.008-00 0.008-00 0.008-00 1435-12 1.018-09 1.108-07 | 1.352+04 0.008+00 1.746-14 4.856-04 1.998-13 1.876-12 2.926-12 5.908-12 | 1.052+04 0.002+00 0.002+00 0.002+00 0.002+00 4.512-15 1.082-00 1.152-07 |
| 1486-04 0.002-00 0.002-00 0.002-00 1.638-17 2.202-16 0.695-16 0.446-04 1.646-04 0.002-00 0.002-00 0.002-00 1.705-16 1.256-05 2.156-25 4.226-05 | 1486-04 0.008-00 0.006-00 5.01214 1.576-09 1.818-07 4.518-07 1.518-06 1446-06 0.008-00 0.006-00 2.768-14 4.176-00 4.496-08 1.966-07 7.208-07 | 1486-06 0.005-00 0.005-00 0.005-00 0.008-00 1.150-11 1.095.08 7.575.07 1.646-06 0.008-00 0.005-00 0.008-00 0.008-00 9.825.12 8.756.09 7.686.07 | 1400-04 1018-17 1.005-14 1.005-14 2.028-13 1.028-12 1.538-12 2.008-12 1.640-04 5.058-12 2.006-16 4.068-15 1.425-13 7.996-13 1.225-12 2.006-12 | L#8F-04 0.00E-00 0.00E-0000000000 | 1486-04 0.000-000- | 1.498-54 8.308-30 0.308-30 0.308-30 0.308-50 7.326-13 2.726-39 1.496-07 1.446-58 0.308-30 0.306-30 0.306-50 0.506-50 4.126-11 6.276-58 2.446.07 | 1498-04 0206-00 1706.14 6261.04 5090.13 2462-12 3396.12 6490.42 1648-04 0206-00 4796.16 5366.05 5206.03 1828.12 5396.12 5296.02 | 1496-04 0.005-00 0.005-00 0.005-00 0.005-00 1.480-14 2.416-11 4.205-08 1.446-04 0.005-00 0.005-00 0.005-00 0.005-00 9.046-16 1.006-11 8.305-08 |
| 1.8UE+04 0.00E+00 0.00E+00 0.00E+00 0.00E+00 8.47E-19 1.25E-18 3.44E-18 | 1818-04 0.008-00 7.580-17 7.790-15 9.508-11 1.248-08 6.990-08 3.168-07 | 1.818-04 0.008-00 0.008-00 0.008-00 0.006-00 1.256-02 2.908-09 7.686-07 | 1.818+04 0.008+00 0.008+00 5.548-18 1.058-06 2.006-05 2.890-05 5.728-05 | LALE-94 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1.818-04 0.005-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.816-04 0.000-00 0.000-00 0.000-00 0.000-00 1.400-10 1.740-08 2.570-07 | 1.818-04 0.000+00 0.000-00 6.820-07 1.028-05 7.440-05 1.218-04 3.836-04 | 1.816+04 0.006+00 0.006+00 0.006+00 3.125-16 3.415-12 2.106-08 |
| 2008-04 0.006-00 0.008-00 0.008-00 1.246-09 2.566-08 6.376-08 1.448-07 | 2008-04 0306-00 2258-07 1486-05 2286-01 7088-09 2308-08 1406-07 | 2006-04 0206-00 0206-00 0206-00 0206-00 5346-03 2266-09 7.656-07 | 2008-04 6006-06 6006-00 6008-00 2086-06 2466-05 8776-05 8706-05 | 2005-04 0205-00 0205-00 0205-00 0205-00 0205-00 0205-00 | 2008-00 0206-00 0208-00 0208-00 0208-00 0206-00 0206-00 | 2308-04 0308-00 0308-00 0308-00 0308-00 4306-02 2316-08 3-4% 67 | 200(-04 0206-00 0206-00 0206-00 938-06 6416-01 1466-04 0206-04 | 2.00E-04 0.00E-00 0.00E-00 0.00E-00 4.34E-16 1.818-12 8.96E-09 |
| | | | | | | | | |

| | Sulphine | e o ponte | | | | | | | Zes | e is grounds | | | | | | |
|-----------|----------------------|-------------|----------------------|--------------|-------------|--------------|----------------------|----------------------|----------------------|---------------|--------------|----------------------|--------------|-------------|------------|----------------------|
| Percentia | Time (search | 10 Parcenti | Sch Percenti | 10th Parcent | SDD Percent | 10th Parcent | 15th Percen | itte Parcentia | Time (vestal | Lit Percentil | Sch Panjanti | 10h Parcent | 500 Partient | 10th Fernan | Him Parcer | 190 Parcenti |
| 006-00 | 0.008-00 | 0.008+00 | 1.008-00 | 0.000-00 | 1.005-02 | 0.008+00 | 1.008+00 | 0.008+00 | 0.008+90 | 0.008-00 | 0.000+00 | 0.005-00 | 0.006-00 | 0.008-06 | 0.008-00 | 0.000-00 |
| 008-00 | 1.005-00 | 0.008-00 | 1008-00 | 0.005-00 | 2008-00 | 3 506-17 | 1.462-16 | 1.985-04 | 1.008+00 | 0.005-00 | 0.006+00 | 0.008-00 | 0.008-00 | 0.006-00 | 0.008+00 | 0.005-00 |
| 006-00 | 2.008.+00 | 0.006+00 | 0.008-06 | 0.002-00 | 2.886-15 | 5.618-10 | 148-09 | #176-08 | 2.005+00 | 0.008-00 | 0,008+00 | 0.008-00 | 0.008+00 | 0.008-00 | 0.008+00 | 0.005-00 |
| 006-00 | 3.008-00 | 0.008+90 | 0.008-00 | 7.5%6-08 | 1.326-05 | 2.346-04 | 3.818-08 | 6.856-04 1.776-02 | 3.008+00 | 5-005-00 | 0.008-00 | 0.005-00 | 0.008+00 | 0.008-00 | 0.008-00 | 0.008-00 |
| 005-00 | 5.000-000 | 1.742.04 | 6.040-04 | 1.176.03 | 1,796,00 | 6.716.02 | 741442 | 1,096-01 | 5.000+00 | 0.008-00 | 0.000+00 | 0.000-00 | 0.000+00 | 2008-00 | 0.008+00 | 0.000-00 |
| 000-00 | 6.008-00 | 2,256,410 | 7.798-03 | 1,276-40 | 6.308-00 | 1.578-04 | 3,828-05 | 2.578-01 | 6.008+00 | 0.000-00 | 0.008+00 | 0.008-00 | 0.000+00 | 0.008-00 | 0.008-00 | 0.008-00 |
| 008-00 | 7.005+00 | 1.606-82 | 2.746-02 | 3.818-82 | 1.328-01 | 2.776-01 | 3276-01 | 4.065-01 | 7.000=00 | 0.008-00 | 0.006+00 | 0.005-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.005-00 |
| 008-00 | 8.008-00 | 2.568-02 | 3.828-02 | 8.256-02 | 1.825-01 | 4.062-05 | 4.652-01 5.846-01 | 5.756-05 7.886-01 | 8.005-00 | 0.005-00 | 0.008+00 | 0.008-00 | 0.008-00 | 2.008-00 | 0.008-00 | 0.008-00 |
| 08-00 | 1.000-00 | 2,506-02 | 2.945-02 | 1.996-02 | 1.556-01 | 5.325-01 | 5.546-01 | 7.08-01 | 9.008-00 | 0.008-00 | 0.006+00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008+00 | 0.008-00 |
| 000-000 | 3.502-05 | 1.708-02 | 2.456-02 | 1.596-62 | 1,896-00 | 4 516-01 | 6.810-01 | 8.962-01 | 1,000-00 | 0.005-00 | 0.000+00 | 0.000-00 | 0.00K+00 | 0.006-00 | 0.008+00 | 0.000-00 |
| 006-00 | 3,349(+05 | 1.626-02 | 2 4/16-02 | 3.408-02 | 1.308-05 | 4,236-01 | 6.186-01 | 8.776-01 | 1.008+01 | 0.006-00 | 0.000+00 | 0.001-00 | 0.008+00 | 0.006+00 | 0.008+00 | 0.006-00 |
| 006-00 | 1408-01 | 1.615-02 | 2.426-02 | 3.396-62 | 1.296-01 | 4.125-01 | 5.986-01 | 8.456-01 | 1.405-01 | 0.005-00 | 0.005+00 | 0.008-00 | 0.006+00 | 5.006-00 | 0.008+00 | 0.005-00 |
| 000-00 | 148-01 | 1.546-62 | 2,878-62 | 1.094-02 | L278-01 | 4.005-01 | 5.668-01 | 8.075-04 | 1.605-01 | 1.008-00 | 0.008-00 | 0.001-00 | 0.008+00 | 1008-00 | 0.008+00 | 8-308-00 |
| 000-00 | 1.708-05 | 1.546-02 | 2,346-02 | 3,256,42 | 1.258-05 | 3.948-41 | 5.54E-01 5.46E-01 | 7,876-01 | 1.700-01 | 0.008-00 | 0.008-00 | 0.008-00 | 0.005+00 | 0.008-00 | 0.008-00 | 0.000-00 |
| 005-00 | 2 105-01 | 1.905-02 | 2.296-02 | 106-02 | 1.208-00 | 126-01 | 5.46640 | 7.656-01 | 2.508+01 | 0.008-00 | 0.008-00 | 0.001-00 | 0.008+00 | 2008-00 | 0.008+00 | 0.005-00 |
| 006-00 | 2.305-05 | 1406-02 | 2 206 402 | 1015-02 | 1176-01 | 1446-01 | 5.176-01 | 7.536-61 | 2.806-01 | 0.005-00 | 0.005-00 | 1.005-00 | 0.005-00 | 0.005-00 | 0.005-00 | 0.005-00 |
| 000-00 | 2.608.401 | 1.878-92 | 2.146-02 | 2.908-02 | 1.138-01 | 3.568-01 | 5.046-01 | 7.376-04 | 2.608+01 | 0.005-00 | 0.008+00 | 0.005-00 | 0.008+00 | 0.008+00 | 0.008+00 | 0.008-00 |
| 006-00 | 2.606-01 | 1.596-80 | 2.088.42 | 2.786-62 | 1118-01 | 1.506-01 | 4,975-01 | 7.286-05 | 2.808-01 | 0.005-00 | 0.008+00 | 6.008-00 | 0.008-00 | 2.006+00 | 0.008+00 | 0.008-00 |
| 006-00 | 3.206-05 | 1296-02 | 2,018,02 | 2.616-02 | 1.046-01 | 3,296-01 | 4,725-02 | 5.515-01 | 1.506+01 | 0.008-00 | 0.008+00 | 1005-00 | 0.008-00 | 0.006-00 | 0.008-00 | 0.005-00 |
| 005-00 | 1.908-01 | 1.146-02 | 1.896-02 | 2546-02 | 1.018-01 | 3.268-01 | 4.445-01 | 6.755-01 | 1.905-01 | 0.005-00 | 0.006+00 | 0.008-00 | 0.000+00 | 0.005-00 | 0.008+00 | 0.005-00 |
| 006-00 | 4.308-01 | 1.676-82 | 1.606-02 | 2,446-02 | 3.788-02 | 3.046-01 | 4 286-01 | 6.536-85 | 4,000-00 | 0.005-00 | 0.008+00 | 6.008-00 | 0.006+00 | 8.008-00 | 0.006+00 | 0.006-00 |
| 008-00 | 4.708+00 | \$30541 | 3.496-02 | 2.828.42 | 9.368-00 | 2,926-04 | 4.096-01 | 6.336-01 | 4.708+04 | 6.008-00 | 0.008+00 | 0.008-00 | 0.005+00 | 0.008-00 | 0.008+00 | 0.000-00 |
| 008-00 | 5.206-01 | 8.916-64 | 1.856.42 | 2.386-62 | 8.876-02 | 2,806-01 | 1.886-01 | 6.118-01 | 5.208-01 | 0.005-00 | 0.006+00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.005+00 | 0.308-30 |
| 00-00 | 5.705-01 | 7.885.04 | 148.07 | 1046-01 | 1.162.02 | 2 686-21 | Linker | 1.878-01 | 5.708-01 | 1.001-00 | 0.001+00 | 0.001-00 | 0.008-00 | 0.000-00 | 0.000-00 | 0.005-00 |
| 008-00 | 6.405-00 | 6.651-03 | 1.586-02 | 1.005-02 | 7.806-02 | 2.556-01 | 3.505-01 | 5.652-01 | 6.405-01 | 0.005-00 | 0.005+00 | 0.005-00 | 0.006+00 | 0.006-00 | 0.005-00 | 0.000-00 |
| 006-00 | 7.008-05 | 5.256-20 | 1.296-02 | 1.746-02 | 7.276-02 | 2.416-01 | 3.286-01 | 5.436-01 | 7.006+01 | 0.005-00 | 0.006+00 | 6-306-00 | 0.006-00 | 0.006+00 | 0.005-00 | 0.30(-00 |
| 08-00 | 7.808-01 8.408-01 | 4176-09 | 1.146-02 | 1.636-62 | 6.896-02 | 2.318-01 | 3.106-01 | 5.236-01 | 7.806-01 8.406-05 | 0.008-00 | 0.008+00 | 6.008-00 | 0.008-00 | 0.008-00 | 0.008+00 | 0.005-00 |
| 006-00 | 3.505-05 | 1016-05 | 8.876-02 | 1.946-02 | 5.966-02 | 2.096-01 | 2.746-01 | 4.646-01 | 9.506-01 | 0.000-00 | 0.000-00 | 0.00(-00 | 0.006-00 | 0.006-00 | 0.008-00 | 0.005-00 |
| 006-00 | 1.056-02 | 2.185-00 | 8.135-09 | 1,246-02 | 5.528-02 | 1,976-01 | 2565-01 | 4.385-01 | 1.056-02 | 0.005-00 | 0.006+00 | 0.008-00 | 0.005-00 | 0.006-00 | 0.005+00 | 0.005-00 |
| 08-00 | 1.148-02 | 146-0 | 6.875-05 | 1.066-02 | 5.078-02 | 1,818-01 | 2.896-01 | 4.096-01 | 1.146+02 | 0.008-00 | 0.000+00 | 6.005-00 | 0.006-00 | 8.006-00 | 0.006=00 | 8-306-30 |
| 008-00 | 1.288-07 | 1.085-05 | 5.95E-03 4.59E-03 | 5526-05 | 4,588-02 | 1458-01 | 2.2%.01 | 3.806-01 | 1.386-02 | 0.008-00 | 0.005+00 | 0.008-00 | 0.005-00 | 0.008+00 | 0.008-00 | 0.000-00 |
| 08-00 | 1 148-00 | 5.116-04 | 1.536-03 | 6.588-43 | 8.628-00 | 1.886-01 | 1.805-01 | 8.278-41 | 1.546+02 | 0.008-00 | 0.000+00 | 6.005-00 | 0.008-00 | 0.005-00 | 0.008+00 | 0.005+00 |
| 005-00 | 1,728-02 | 3.325-04 | 2,728-03 | 5,346-03 | 3.146-02 | 1.196-01 | 1.665-01 | 2,975-01 | 1.725-02 | 0.005-00 | 0.005-00 | 1005-00 | 0.005-00 | 0.005-00 | 0.005-00 | 5.005-00 |
| 018-00 | 1.908-02 | 2.005-04 | 1.886-02 | 4,318-03 | 2.696-02 | 1.046-01 | 1486-01 | 2.676-01 | 1.908-02 | 0.000-00 | 0.005+00 | 0.008-00 | 0.006+00 | 0.005-00 | 0.008+00 | 1.226-14 |
| 006-00 | 2.108-02 | 8.996-05 | 1.396-03 | 8.826-48 | 2,328,402 | \$ 126-42 | 1.836-01 | 2,176-01 | 2.506+02 | 0.008-00 | 0.008+00 | 0.008-00 | 0.006+00 | 0.006+00 | 0.008+00 | 2.106-14 |
| 006-00 | 2.325+02 | 3.775-05 | 3.505-04 | 2476-03 | 1.966-02 | 7,876-02 | 1126-02 | 2.125-05 | 2,826+02 | 0.005-00 | 0.005-00 | 1.001-00 | 0.000+00 | 0.005-00 | 0.005-00 | 4.216-13 |
| 08-00 | 2.638-02 | 5.108-06 | 3.422-04 | 1.196-05 | 1.898-02 | 5,746-02 | 8.285-02 | 1.605-01 | 2.825+02 | 0.005-00 | 0.006+00 | 0.008-30 | 0.006+00 | 5.005-00 | 0.008+00 | 4.696-13 |
| 008-00 | 8.005-02 | 1.646-26 | 3.881-04 | 7.705-04 | 1.035-02 | 4.785-82 | 6.885-02 | 1.415-01 | 8.006+00 | 0.005-00 | 0.006+00 | 6-006-00 | 0.001-00 | 0.006+00 | 0.005-00 | 2.556-30 |
| 006-00 | 3.178-02 | 5.505-07 | 1.056-04 | 4.525-04 | 7.776-00 | 3.915-02 | 5.425-02 | 1.156-01 | 5.126+02 | 0.005-00 | 0.006+00 | 0.008-00 | 0.005+00 | 0.006-00 | 0.005+00 | 6.788-10 |
| 006-00 | 3.446.402 | 1.808-47 | 5.142-05 | 2,936-04 | 5.762-03 | 3 228-02 | 4.485-02 | 9.306-82 | 3.446+02 | 0.008-00 | 0.000+00 | 6-005-00 | 0.005-00 | 8.006-00 | 0.005+00 | 3.758-09 |
| 008-00 | 3.308-02 | 5.246-08 | 2,228-05 | 1.638-04 | 4.206-03 | 2.526-42 | 3.538-02 | 2,296-02 | 3.806+02 | 0.005-00 | 0.000+00 | 0.00(-00 | 0.006+00 | 0.000-00 | 0.008-00 | 1.108-08 |
| 008-00 | 4.648-02 | 1,296-09 | 1412-05 | 4.478-05 | 2.158-03 | 1.526-02 | 2 226-02 | 1.462-07 | 4.648-02 | 0.008-00 | 0.008+00 | 0.004-00 | 0.008-00 | 0.008-00 | 0.008+00 | 1.098-07 |
| 006-00 | 5.128-02 | \$436-00 | 1.181-06 | 2.425-25 | 1.585-03 | 1.186-80 | 1.776-02 | 4.655-02 | 5.125+02 | 0.005-00 | 0.005+00 | 0.000-00 | 0.005-00 | 0.005+00 | 0.005+00 | 3.766-07 |
| 006-00 | 5.458+02 | 3.076-90 | 7.456-07 | 1.438-25 | 1.206-01 | 9.796-05 | 1.486-02 | 3.896-02 | 5.658+02 | 0.006-00 | 0.006+00 | 0.008-00 | 0.008 +00 | 1.005-00 | 0.008+00 | \$.798.47 |
| 008-00 | 6.246-02 | 1.046-30 | 1.546-07 | 7.918-06 | 5,225-04 | 7.618-05 | 1.196-02 | 5.256-02 2.156-02 | 8.246+02 | 0.008-00 | 0.008+00 | 6.008-00 5.006-00 | 0.008-00 | 0.008-00 | 0.008+00 | 5.728-07 |
| 006-00 | 7.638-02 | 1.816-12 | 3.18-08 | 1.008-06 | 2,962-04 | 1.796-63 | 5.778-03 | 1746-02 | 7.616+92 | 0.000-00 | 0.005+00 | 100-00 | 0.008-00 | 1008-00 | 1.206-17 | 1.178-06 |
| 008-00 | 8.408-02 | 0.008+00 | 7.686-09 | 2436-67 | 1845-04 | 2,526-48 | 3,775-03 | 1.226-62 | 8.408-02 | 0.008-00 | 0.008+00 | 0.008-00 | 0.008-00 | 0.008+00 | 1.046-05 | 1.475-06 |
| 008-00 | \$ 286-02 | \$ 796-13 | 1.818-09 | 7.142-06 | 8.258-05 | 1.586-08 | 2.468-03 | 8.246-85 | 9.286+02 | 0.008-00 | 0.008+00 | 0.008-00 | 0.006+00 | 0.006-00 | 4375-14 | 2.218-06 |
| 000-00 | 1.008-08 | 2396-03 | 4.096-30 | 2,508-08 | 1.758-05 | 3452.04 | 1512-03 | 5,346-03 | 1.000-03 | 0.008-00 | 0.008+00 | 0.008-00 | 0.008-00 | 0.008-00 | 4,258-13 | 1.565-06 |
| 000-00 | 1.136-03 | 4556-03 | 3.4%-10 | 1.446-09 | 5.138-05 | 1.858-04 | 5.436-04 | 1.126-05 | 1.18-10 | 0.008-00 | 0.008+00 | 6.008-00 | 0.008-00 | 0.008-00 | 9,046-12 | 1.585-06 |
| 008-00 | 1.258-03 | 5 156-13 | 2.0%-10 | 1,276-49 | 2,388-06 | 1.485-04 | 2.842-04 | B &12 OA | 1.256+68 | 0.008-00 | 0.000+00 | 0.000-00 | 0.008-00 | 0.008-00 | 8.908-13 | 2.168-06 |
| 005-00 | 1.346-03 | 9.296-25 | 6.426-12 | 4.868-02 | 8.098-07 | 7.406-05 | 1485.04 | 4375-04 | 1.005-08 | 0.005-00 | 0.006-00 | 0.006-00 | 0.006+00 | 0.005400 | 8.688-22 | 8.196-06 |
| 006-00 | 1.535-03 | 1.308-43 | 2.558-13 | 2,896-02 | 2,906-07 | 2,578-45 | 1.001-05 | 2.795-04 | 1,526+03 | 0.005-00 | 0.006-00 | 0.008-00 | 0.008-00 | 0.008-00 | 1.296-09 | 5.715-04 |
| 08-0 | 1.662-02 | 1.535-54 | 4.078-12 | 2.828-01 | 1,298-07 | 2418-05 | 1106-04 | 2.508-0A | 1.846-09 | 0.008-00 | 0.008+00 | 1001-00 | 0.008-00 | 1.008-00 | 7.652-09 | 5.075-06 |
| 008-00 | 2.058-03 | 5.288-05 | 1.086-12 | \$318-62 | L 188-07 | 5.118-05 | 1.315-04 | 5.105-04 | 2.056-05 | 0.005-00 | 0.000+00 | 0.008-00 | 0.008-00 | 2 106-18 | 2.296-08 | 5.196-06 |
| 006-00 | 2.268-08 | 1.625-05 | 2,946-13 | 1,266-02 | 2.706-06 | 1.625-05 | \$ 106-05 | 2.346-04 | 2,366+08 | 0.005-00 | 0.006+00 | 6,008-00 | 0.006+00 | 1.878-18 | 4,316-06 | 5.196-06 |
| 006-00 | 2.508-08 | 2.315-05 | 3.345-14 | 5.456-03 | 4.405-05 | 5.235-06 | 1.906-05 | 1.796-05 | 2.508+08 | 0.008-00 | 0.006-00 | 0.008-00 | 0.005+00 | 3.828-15 | 7.056-06 | 4.121-06 |
| 000-00 | 2.7%8+05 | 0.005-00 | 4936-16 | 1.196-14 | 4,825-10 | 1.438-06 | 6.68E-06 3.82E-06 | 3.076-05 | 2.768+03 | 8-008-00 | 0.006-00 | 1005-00 | 0.008+00 | 3.086-14 | 7.258-68 | 3.036-06 |
| 008-00 | 1.052-01 | 0.008-00 | 0.008-00 | 0.008-00 | 2.738-63 | 4.996.08 | 478.07 | 2.586-06 | 1.052+00 | 0.002-00 | 0.008+00 | 0.000-00 | 0.000+00 | 1.786-13 | 1 101-04 | 1 996.06 |
| 1376-28 | 1.068-03 | 0.008+00 | 0.006-00 | 0.008-00 | 4.428.43 | 1.185-08 | 108.07 | 6.508-07 | 5.562-03 | 0.008-00 | 0.008+00 | 0.008-00 | 0.008-00 | 2.646-53 | 1.096-07 | 2.738-06 |
| 165-16 | 3.718-08 | 0.006+00 | 0.005-00 | 0.005-00 | 1495-14 | 1.706-09 | 1.885-08 | 1.196-07 | 3.715+00 | 0.005-00 | 0.005+00 | 6.005-00 | 0.001-00 | 1.465-13 | 8.568-08 | 2.516-06 |
| 276-14 | 4.100-02 | 0.008-00 | 0.008-00 | 0.005-00 | 7.506-15 | 1.915-10 | 2.896-09 | 2.616-08 | 4.100-00 | 0.005-00 | 0.006+00 | 0.005-00 | 0.000+00 | 2.346-12 | 5.505-08 | 2.108-06 |
| 1.046-13 | 4.538-03 | 0.008-00 | 0.008-00 | 0.008-00 | 7.146-15 | 1.176-11 | 3,248-12 | 6.365-00 | 4.536-03 | 0.008-00 | 0.008+00 | 0.008-00 | 0.008-00 | 1.428-12 | 8.176-08 | 2.108-06 |
| 1900-11 | 5.528-03 | 0.006+00 | 0.006-00 | 0.006-00 | 7.048-05 | # 236 43 | \$ 266-12 | 1.496-00 | 5.526+00 | 0.000(-00 | 0.000+00 | 0.001-00 | 0.000 +00 | 1.696-12 | 3.316-08 | 2,266-06 |
| 158-55 | 6.096-08 | 0.005+00 | 0.006-00 | 3,268-26 | 1.188-14 | 1.645-11 | 3.885-12 | 6.268-11 | 6.095-08 | 0.005-00 | 0.006-00 | 0.008-00 | 0.006-00 | 1.095-12 | 2,916-06 | 2.136-04 |
| 528-09 | 6.738-03 | 0.006+00 | 8-008-00 | 0.000-00 | \$ 186-15 | 7.982-14 | 1756-13 | 6.625-12 | 6.716-03 | 0.008-00 | 0.000+00 | 6-008-00 | 0.005-00 | 5.356-13 | 2.158-08 | 1.662-06 |
| 178-09 | 7.436-03 | 0.008-00 | 0.008-00 | 0.005-00 | 0.008-00 | 7,358-04 | 1,396-13 | 2.996-13 | 7,436+09 | 0.000-00 | 0.008+00 | 0.008-00 | 0.005+00 | 1.822-13 | 1.415-08 | 1,248-05 |
| 246-08 | 8.20E-08 5.04E-08 | 0.008+00 | 0.008-00 | 0.008-00 | 1496-13 | 1.558-04 | 1.598-13 | 4.166-13 | 8.208+01 | 0.008-00 | 0.006+00 | 0.008-00 | 0.005+00 | 1.555-14 | 5.396-09 | 7.648-07 6.806-07 |
| 10-178-08 | 1.005-04 | 0.005+00 | 0.005-00 | 0.008-00 | 9.925-14 | 1.406-12 | 2.946-12 | 5.455-12 | 1.005-04 | 0.005-00 | 0.005-00 | 1005-00 | 0.005-00 | 1.745-15 | 1.736-09 | 1475-07 |
| 1876-08 | 1.008-04 | 0.008+00 | 1.008-00 | 0.005-00 | 2.628-13 | 1.296-12 | 1.896-12 | 8.618-62 | 1.000-04 | 0.008-00 | 0.005+00 | 0.008-00 | 0.006-00 | 6.746-15 | 1.735-09 | 3.476-07 |
| 1038-08 | 1.105-04 | 0.006+00 | 0.008-00 | 0.008-00 | 1.840-13 | 1.228-12 | 2.096-12 | 4.286-62 | 1.306-04 | 0.008-00 | 0.008+00 | 0.008-00 | 0.006-00 | 1.806-15 | 9,816-00 | 2,538-07 |
| 1528-08 | 1.225-04 | 0.008+00 | 2.376-15 | 1476-04 | 2326-13 | 1,018-12 | 2.056.12 | 8.005-12 | 1.228+04 | 0.005-00 | 0.005-00 | 0.005-00 | 0.008+00 | 5.505-08 | 1.068-10 | 1886-07 |
| L 108-07 | 1.152-04 | 0.000+00 | 1.746-14 | 6.052-04 | 3.996-13 | 2.468-12 | 2.926-12 | 5.908-02 | 1.850=04 | 0.008-00 | 0.008+00 | 0.008-00 | 0.008+00 | 4.512-15 | 2.436-11 | 1.156-07 6.208-08 |
| 441.07 | 1.648-04 | 0.006+00 | 4.756-26 | 5.066-25 | 1006-13 | 1.816-12 | 2.696-12 | 5.096-12 | 1.646+04 | 0.005-00 | 0.005-00 | 0.001-00 | 0.006+00 | 9.066-16 | 1.006-31 | 1325-05 |
| 178.07 | 1.000-04 | 0.005+00 | 0.000.000 | 6.675.07 | 1000.00 | 7.445.05 | 3 7 10 14 | 1.125.04 | 1.515+04 | 0.000.000 | 0.005+00 | 0.000.000 | 0.001+00 | 3 125.14 | 2416.12 | 1,100,000 |

| Ammoniacal N | Anamic | Cadmium | Chierdes | Copper | Last | Mercury |
|---|--|--|--|--|--|---|
| Concentration in groundwater [mg1] Time Ivery List Percent 3th Percent 3bh Percen 50th Percen 9th Percent 9th Percent 5005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | Concentration is grownbeeter (eg/1) films leave' to Percent Sin Percent 12th Percen 50th Percen 50th Percen 50th Percent 0.001-00 0.001-00 0.0001-00 0.001-00 0.0001-00 0.0001-00 0.0001-00 | Concentration in groundwater (mg)) Time Invent 1 at Process 10th Percent 20th Percent 30th Percent 30th Percent 30th Percentile 0.000-00 0.001-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | Concentration in groundwater [eg/] Tree lease: Lot Recent Stat Recent 20th Recent Stat Recent Mat Recent Mat Recentle 0.002-00 5.002-00 5.002-00 5.002-00 5.002-00 5.002-00 5.002-00 | Concentration in groundwater (mgH) Time Insuri 2 in Process 10th Percess 30th Perces 30th Percess 30th Percess 30th Percess 30th Percess 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | Consertington in groundwater (mg?) Time learn; In Present (2nt Present 32th Presen 32th Presen 32th Present 32th Presentine 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | Concentration in groundwater (eg/) Time Teacy' Lin Neurant: 50h Neurant: 20h Neuran 50h Neuran 50h Neuran 50h Neuran 50h Neurantia 2001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 |
| 1000-00 0000-00 0000-00 0000-00 0000-00 0000-00 0000-00 | 1000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 108-00 0.08-00 0.08-00 0.08-00 0.08-00 0.08-00 0.08-00 | | 108-0 108-0 108-0 108-0 108-0 108-0 108-0 108-0 | | |
| 2.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 2.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 100E-00 500E-00 500E-00 500E-00 500E-00 500E-00 500E-00 500E-00 | 1.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.886.17 8.546.17 1.050.14 2.00E-00 0.00E-00 0.00E-00 0.00E-00 7.546.18 1.546.10 7.125.10 2.478.08 | 1001-00 0001-00 0001-00 0001-00 0001-00 0001-00 0001-00 | 100E-00 0.00E-00 0.00E-000E-0 | 1.008+00 0.002+00 0.008+00 0.008+00 0.002+00 0.002+00 0.002+00 2.008+00 0.002+00 0.002+00 0.008+00 0.002+00 0.002+00 0.002+00 |
| 3.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 1.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 00+300.0 00+300.0 00+300.0 00+300.0 00+300.0 00+300.0 00+300.0 | 1.00E-00 0.00E-00 0.00E-00 1.84E-08 6.53E-06 1.23E-04 1.89E-04 1.78E-04 | 1 006-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 3.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 8.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E+00 0.00E+00 |
| 4.005+00 0.085+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 | 4.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005-00 | 4.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 4005-00 0.005-00 7.405-06 2.115-05 5.105-04 5.305-03 4.605-08 5.045-08 | 4.008-00 5.008-00 5.008-00 5.008-00 5.008-00 5.008-00 5.008-00 | 4.006-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 4-008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.006-00 0.008-00 |
| 5.005+06 0.005+06 0.005+00 0.005+06 0.005+06 0.005+06 0.005+00 0.005+00 | 5.005+00 6.005+00 6.005+00 6.005+00 6.005+00 6.005+00 6.005+00 | 5.00E-05 0.00E-05 0.00E-06 0.00E-00E-00E-00E-00E-00E-00E-00E-00E-0 | 5.000-00 4.515-05 2.605-04 5.525-04 6.596-00 2.225-02 2.625-02 4.216-02 6.000-00 1.006-05 2.685-04 6.586-03 2.106-02 5.106-02 5.586-02 | 5.005-05 5.005-05 5.005-05 5.005-05 5.005-00 5.005-05 5.005-05 5.005-05 | 5.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 5.000-00 5.000-00 5.000-00 5.000-00 5.000-00 5.000-00 5.000-00 5.000-00 |
| 7006+00 0.008-00 0.008-00 0.008+00 0.008+00 1.536-00 1.536-00 1.536-00 | 7.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 7.005-00 5.005-00 5.005-00 5.005-00 5.005-00 5.005-00 5.005-00 | 7008-00 8.128-08 8.098-08 1.286-02 4.268-02 8.258-02 1.206-01 1.446-01 | 7005-00 5005-00 5005-00 5005-00 5005-00 5005-00 5005-00 | 7.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 7.005-30 0.005-00 0.005-00 0.005-00 0.005-00 0.005+00 0.005+00 |
| \$.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 1.046-19 4.296-14 | 8.005-00 0.008-00 5.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 8.008-00 7.346-00 1176-02 1346-02 1406-02 1325-01 1476-01 1926-01 | 8.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 8.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 8.008-00 0.008-00 0.006-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| \$200-00 8.000-00 5200-00 0.000-00 5200-00 618-15 1.730-16 4206-12 1.000-01 0.000-00 5200-00 5200-00 1426-15 2.536-18 1476-10 | 5.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1000-00 1000-00 1000-00 1000-00 1000-00 1000-00 1000-00 1000-01 1000-00 1000-00 1000-00 1000-00 1000-00 | \$000-00 6.600-00 1.092-02 1.076-02 5.076-02 1.988-01 1.896-01 2.198-01 1.000-01 1.116-08 8.006-00 1.128-07 4.496-00 1.576-01 2.086-01 2.396-01 | 1000-00 0000-00 0000-00 0000-00 0000-00 0000-00 0000-00 0000-00 | 5205-00 0.082-00 0.082-00 0.002-00 0.002-00 0.082-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 5.004-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 |
| 1308-01 0.008-00 0.008-00 0.008-00 1.028-03 1.078-03 1.078-00 | LIDE-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1102-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 100-01 532-09 E00-09 120-02 540-02 550-01 200-01 200-01 100-01 4042-05 7.00-01 9.022-01 1.022-01 1.00-01 2.00-01 2.00-01 | List 41 00040 00040 00040 00040 00040 00040 00040 | 138-01 0.08-00 0.08-00 0.08-00 0.08-00 0.08-00 0.08-00 0.08-00 | LINE-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 |
| 1,508+01 0,008-00 0,008+00 0,008+00 0,008+00 6,508-11 1,468-09 6,668-08 | 1.30E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1.008-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.008-01 4.508-03 7.198-03 5.288-01 1.608-02 1.238-03 1.778-03 2.796-01 | 1.005-05 2.008-00 2.005-00 2.005-00 2.005-00 2.005-00 2.005-00 | 1.502-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1.00E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 |
| 1406+01 0.006+00 0.006+00 0.096+00 8.046-39 3.066-00 5.086-09 1.456-07 | 1406-01 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 1406-01 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 1406-0; 4316-03 6.966-03 8.946,08 3.586-02 1.286-01 1.896-05 2.728-05 | 1408-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1406-01 0.008-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 1406-01 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 |
| 1.606+01 0.008+00 0.008+00 0.346-06 1.346-06 1.318-08 1.406-08 7.328-07 | LADE-01 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 1.602-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1400-01 4258-08 4528-08 8528-08 8528-08 8378-02 1188-01 1598-02 2548-02 | 1408-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1401-01 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 | 1.626-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 1706+01 0.008+06 0.006+00 0.006+00 1.156-05 3.716-09 7.35E-08 1.466-06 1.908+01 0.008+00 0.008+00 2.38E-14 1.51E-08 2.41E-07 2.42E-06 | 1705-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 170E-01 0.00E-00 0.00E-000E-0 | 1.706-01 1.206-01 6.206-01 8.216-01 1.126-01 1.126-01 1.566-01 2.526-01 1.968-01 1.568-03 4.548-03 7.848-03 1.146-07 1.058-01 1.466-01 2.458-01 | 1.708-40 6008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 1.808-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 170E-01 0.00E-00 0.00E-000E-0 | 170E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 |
| 3 30E-05 0.00E-00 0.00E-00 0.00E-00 4.115-13 7.00E-08 7.04E-07 6.92E-06 | 2108-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2108-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.108-01 8.228-08 5.688-01 7.968-08 2.976-02 9.958-02 1.428-05 2.128-05 | 2128-01 0008-00 0008-00 0008-00 0008-00 0008-00 0008-00 | 2.108-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1108-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 2,004-01 0,008-00 0,008-00 0,086-00 1,996-12 2,828-07 1,538-06 1,056-05 | 2.005-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 2,106-01 0,006-00 0,006-00 0,006-00 0,006-00 0,006-00 0,006-00 | 2,806-01 2,926-03 5,396-03 7,966-03 2,906-02 9,646-02 1,386-01 2,228-01 | 2.808-00 0.008-00 0.008-00 0.008-00 0.006-00 0.008-00 0.008-00 | 2,306-05 0,008-00 0,006-00 0,006-00 0,006-00 0,006-00 0,006-00 | 2.808-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 2.606+01 0.008+00 5.006+00 0.008+00 7.646-12 9.546-07 4.206-06 1.726-06 2.606+01 0.008+06 0.006+00 4.506-19 1.896-11 1.816-06 6.586-06 2.306-06 | 2.605-01 0.005-0000000000 | 2.608-01 5008-00 0.008-06 5.008-06 5.008-00 5.008-00 5.008-00 2.008-00 5.008-0005000000000000000000000000000000 | 2408-01 1346-08 5308-01 7368-08 2386-02 5126-01 1106-01 2108-01 2308-01 1338-08 4558-01 6418-08 1486-02 8398-02 1296-01 1026-01 | 2.608-00 0.008-0000000000 | 2.605-01 0.005-0000000000 | 2.425-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 |
| 3201-01 0.002-00 0.002-00 1.070-07 9.000-01 4.270-06 1.002-05 1.662-05 | 1206-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 3.200-01 5.000-00 0.000-00 5.000-00 5.000-00 0.000-00 0.000-00 | 3200-01 2300-03 4120-01 3370-03 1400-02 8320-02 1100-01 | 1.308-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 3.28-01 0.08-00 0.08-00 0.08-00 0.08-00 0.08-00 0.08-00 | 3,208-01 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 |
| 1502-01 0.002-00 1.142-18 1.086-15 9.226-10 6.995-06 1.996-05 4.696-05 | 1508-01 0.008-00 5.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1508-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 330E-01 LA4E-03 3.07E-03 5.58E-03 2.29E-02 7.59E-02 1.30E-01 1.816-01 | 1508-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.502-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1508-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 3.506-01 0.006-00 3.686-07 1.105-14 1.396-08 1.286-05 2.646-05 5.816-05 4.306-01 0.006-00 1.796-03 1.005-18 8.066-06 1.846-05 3.346-05 7.406-05 | 5.90E-01 0.00E-00 5.00E-00 0.00E-00 0.00E-000E-0 | 3 90E-01 0.00E-00 0.00E-000E-0 | 1906-01 1576-08 3.666-03 5.756-02 2.666-02 7.666-02 1006-01 1.666-02 4.306-01 1.756-08 5.306-08 4.566-08 2.006-02 7.046-02 8.586-01 1.568-01 | 1998-05 0.005-00 0.005-00 0.005-00 0.006-00 0.006-00 0.006-00 4.305-01 0.006-00 0.006-00 0.008-00 0.006-00 0.006-00 0.008-00 | 3.90E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 4.30E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1.90E-01 0.00E-00 0.00E-000E-0 |
| 4.008-01 0.008-00 1.790-03 1.020-13 8.080-08 1.940-05 3.940-05 7.408-05 4.708-01 0.008-00 1.346.34 5.536.13 1.376.07 2.436.05 1.946.05 8.946.05 | 4.00E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 4.70E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 4.30E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 4300-01 1170-08 1300-08 4300-08 2300-02 7300-02 8300-01 1300-01 4300-01 8300-04 1730-08 4300-08 1800-02 4300-02 8300-01 1400-01 | 4.00-41 0.00-40 0.00-40 0.00-40 0.00-40 0.00-40 0.00-40 0.000-40 4.700-40 0.000-400-400-400-400-400-400-400-400-40 | 4.308-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 4.708-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 4.00+41 0.00+40 0.000+40 0.000+40 0.000+40 0.000+40 0.000+40 0.000+40 |
| \$200+01 \$798-19 1798-13 \$298-12 L108-06 \$228-05 \$208-05 1098-04 | 5.228-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 5206-01 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | \$208=01 6438-04 2258-01 3.728-01 1.668-02 6.028-02 7.958-02 1.408-01 | 5,205-01 0,005-00 0,005-00 0,005-00 0,005-00 0,005-00 0,005-00 | 5.288-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 5200-01 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 |
| \$304-01 1408-08 \$208-08 \$408-01 2408-06 \$398-05 \$108-06 1278-08 | 5.705-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 5708-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 170-01 4438-04 1979-03 1368-03 1468-02 1458-02 7366-02 1428-02 | 5 707-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 5.78-01 0.08-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | \$755-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 5.70E-01 1.00E-03 9.00E-03 8.00E-03 2.40E-06 8.79E-05 8.00E-05 1.27E-06 6.40E-01 3.20E-06 5.02E-02 1.09E-09 4.53E-06 4.02E-05 7.13E-05 1.20E-04 | 5.05+01 0.05+00 0.05+00 0.05+00 0.05+00 0.005+00 0.005+00 0.005+00 | 5.70E-C1 0.00E-00 0.00E-00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 4.00-01 1.206.04 1.626.03 2.646.03 1.205.02 4.996.02 1.206.02 4.400-01 1.206.04 1.626.03 2.646.03 1.216.02 4.996.02 4.516.02 1.206.02 | 5.708-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 6.408-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 5.70(+05 0.00(+00)00(+00(+00)00(+00)00(+00(+00(+00(| 5.70E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 |
| 7.006+06 8.756-15 3.806-11 1.096-08 6.676-06 5.368-05 7.596-06 1.806-04 | 7.002+01 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 | 7.008-01 0.008+00 0.008-00 0.008+00 0.008+00 0.008+00 0.008+00 | 7.008-01 1.298-04 1.398-03 2.308-03 1.178-02 4.488-02 5.998-02 1.248-05 | 7.005-01 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 7.000+05 0.008+00 0.008+00 0.008+00 0.002+00 0.008+00 0.008+00 | 7.008-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 7.806-01 1028-14 5576-05 7.246-08 9.218-06 5.746-05 8.476-05 1.588-04 8.606-01 1.556-13 9.916-09 7.906-07 1.198-06 6.776-05 9.006-06 1.506-04 | 2.805+01 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 | 7,808-01 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 | 7.805-01 1.496.04 1.075-03 2.026.03 1.086.02 4.136.03 5.526.01 1.076.01 8.696-01 8.896-06 8.396-04 1.646.03 8.416.03 8.796.02 5.766.01 8.716.02 | 7.80E-05 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 7,806-01 0,006-00 0,006-00 0,006-00 0,006-00 0,006-00 0,006-00 | 7.80(+0) 0.00(+00 0.00(+00 0.00(+00 0.00(+00 0.00(+00 0.00(+00 0.00(+00 0.00(+00 |
| EAGE-DE EJDE-DE STEE-DE EJDE-DE | E408+01 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 | 840E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 850E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | EADE-DE EENE-DE EJIELDE EADE-DE EXTELDE EJIELDE EJIELDE EJIELDE ESDE-DE EJIELDE ESDE-DE EJIELDE EJIELDE EJIELDE EJIELDE | 5500-00 5000-00 5000-00 5000-00 5000-00 5000-00 5000-00 | 8.68-41 0.08-00 00-900 00-900 00-900 00-900 00-900 0.08-00 0.09-90 | 8.404-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 1052-02 1995-13 1712-07 1412-06 1502-05 6.040-05 3-402-05 1472-04 | 1.052-02 0.008-00 0.002-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1052-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1058-02 1368-05 4896-04 1128-03 7346-08 2366-02 4266-02 8226-02 | 1.052-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1052-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1052-52 6.005-00 5.005-00 5.005-00 6.002-00 5.005-00 5.005-00 |
| 1.368-02 LX28-13 4.318-07 L776-26 L658-05 6.976-25 9.396-05 L718-04 | 1142-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1142-42 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1.168-02 1.518-05 3.368-04 8.868-04 6.368-08 2.646-02 3.346-02 7.346-02 | 1362-62 0008-00 0008-00 0008-00 0008-00 0008-00 0008-00 | 1382-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | L162-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 |
| 1282-02 6582-14 5.922-07 2.002-06 1.632-05 6.952-05 5.412-05 1.602-04 1.412-02 3.082-14 5.272-07 1.872-06 1.552-05 6.712-05 5.312-05 1.732-04 | 1.28E-02 0.00E-00 5.00E-00 5.00E-00 0.00E-00 5.00E-00 5.00E-000E-0005.00E-0005.00E-0005.00E-0005.00E-0005.00E-0005.00E-0005.00E-0 | 128E-02 530E-00 530E-06 530E-06 530E-06 530E-00 530E-00050E | 1288-02 6298-06 2,298-04 6488-04 5,298-02 2,588-02 5,088-02 1488-02 2,218-06 1448-04 4,588-04 4,296-01 1,526-02 2,406-02 5,548-02 | 1.282-02 0.082-00 0.092-00 0.092-00 0.082-00 0.092-00 0.092-00 0.092-00 1.442-02 0.092-00 0.092-00 0.092-00 0.092-00 0.092-00 0.092-00 | 1.28E-02 0.50E-06 0.50E-00 0.50E-00 0.50E-00 0.50E-00 0.50E-00 0.50E-00 1.42E-02 0.50E-06 0.50E-00 0.50E-0000000000000000000000000000000000 | 1.382-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 |
| 1562-02 1382-04 4392-07 1438-05 1392-05 6320-05 1392-04 | 1562-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1542-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1562-02 7.742-07 8.395-05 2.576-04 1.342-03 1.582-02 2.132-02 4.676-02 | 1562-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1562-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1562-62 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 |
| 1728-02 9146-15 1458-07 1206-06 1146-05 5346-05 7398-05 1576-04 | 1.725+02 0.008+00 5.008+00 0.008+00 0.008+00 0.008+00 0.008+00 | 1728-02 0.006-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.728-92 2.508-97 4.108-95 1.948-94 2.576-98 1.296-92 1.776-92 1.886-92 | 1728-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.728-02 0.008-06 0.068-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.725+12 0.008+00 5.006+00 5.006+06 0.008+00 5.008+00 5.008+00 5.008+00 |
| 1.50E+02 545E-15 1.74E-07 8.25E-07 9.04E-04 4.51E-05 7.19E-05 1.34E-04 2.50E+02 1.34E-14 1.04E-07 4.77E-07 6.34E-06 1.64E-05 5.69E-06 1.34E-04 | 1.50E+02 0.00E+00 0.00E+00000E+0000E+0000000E+0000000000 | 1908-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 1.007-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.902-02 6.028-08 1.028-05 1.078-04 1.995-03 1.088-02 1.486-02 1.098-02 1.098-02 1.098-02 1.098-02 1.598-0208-02 1.598-02 1.598-02 1.598-02 1.598-02 1.598-02 1.598-02 1.598-0 | 1.902-00 5.002-0005-0005-0005-0005-0005-0005-0005 | 1995-02 0.005-0000000000 | 1.908-02 0.008-00 0.006-00 0.008-00 0.008-00 0.008-00 0.008-00 3.08-02 0.008-00 0.006-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 2 128-02 6.766-05 1.546-08 2.676-07 6.016-06 2.886-06 6.966-06 | 2.125-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 2 128-02 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 2101-02 6,116-09 1,76-06 1,116-06 8,966-04 6,156-08 8,266-08 2,206-02 | 2 224-02 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 2126-02 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 2.02-02 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 |
| 2.548+02 3.118-15 3.00E-08 1.40E-07 3.41E-06 2.20E-05 3.74E-05 7.84E-05 | 2.548-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.542-62 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 2568-02 1518-09 1388-06 1588-05 6.926-04 4.668-03 7.068-03 1.648-02 | 2562-02 0002-00 0002-00 0002-00 0002-00 0002-00 0002-00 | 2542-02 0.008-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 2.542-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 |
| 2.828+02 L326-15 L356-08 6.476-08 2.288-06 1.588-05 2.688-05 5.788-05 1.008+02 5.898-16 5.206-09 1.096-06 1.496-06 1.216-05 2.016-08 6.688-05 | 2.825-92 0.008-0000000000 | 2.838-42 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 3.088-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.825-52 3.212-30 4.805.07 6.775.06 4.665.04 3.395.01 5.275.03 1.346.42 3.005-52 5.345.41 1.666.07 2.746.06 2.805.04 2.496.03 3.825.03 1.566.02 | 2.825-07 0.086-00 0.096-00 0.006-00 0.086-0000000000000000000000000000000000 | 2.828+02 0.508+00 0.508+00 0.005+00 0.508+00 0.508+00 0.508+00 0.508+00 0.508+00 0.508+00 0.508+00 0.508+00 0.508+00 0.508+00 | 2.828-82 0.00E-00 0.00E-000E-0 |
| 120-02 100-04 120-04 120-04 120-04 120-05 120-05 120-05 | 122-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 128-02 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | A 128-02 LABE-12 4 NOLON 1 CHE OF 1 7% OF 1 7% OF 1 7% OF 7 286 OF | 8128-02 0.08-00 0.08-00 0.08-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1226-02 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 8128-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 |
| 1446+02 1906-26 6496-02 6296-09 6226-07 6536-06 1246-05 2536-05 | E446-02 0.006-00 5.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 3 446-02 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 3.44E-02 1.24E-02 1.46E-08 3.83E-07 1.016-04 1.216-03 1.94E-08 5.58E-03 | 3.448-02 0.005-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 3.446-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 3.445-02 0.005-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 |
| 3.80E+02 109E-16 165E-20 1.90E-09 2.44E-07 4.29E-06 7.03E-06 1.81E-05 4.20E+02 5.97E-17 1.72E-11 4.50E-18 1.88E-07 1.72E-06 4.52E-06 1.03E-05 | 1.00E+02 0.00E+00 0.00E+0000E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+ | 1.5%-02 0.00E-00 0.00E-000E-0 | 1308-02 1546-03 1386-05 1046-07 5486-05 8286-04 1286-08 1398-03 4286-02 5486-04 6486-05 2386-08 1395-05 5486-04 8186-04 2348-03 | 1305-02 5095-00 5095-00 0.005-00 5095-00 5095-00 5095-00 4.305-02 6095-00 6.005-00 5.005-00 5.005-00 6.005-00 5.005-00 | 3.80E-02 0.90E-06 0.80E-06 0.90E-06 0.9 | 3.808-02 0.008-0000000000 |
| 4.000-02 5.00-17 1.720-11 8.500-10 1.000-07 2.720-06 4.500-06 1.000-05 4.646-02 8.196-17 8.266-12 2.028-10 8.096-08 1.716-06 2.796-06 7.818-06 | 4.00E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 4.54E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 4.5846-02 5.536-04 6.465-05 2.596-08 1.595-05 5.406-04 5.256-04 2.546-03 4.646-02 1.116-04 1.196-02 2.796-08 1.416-05 1.426-04 5.216-04 1.896-03 | 4.58-02 008-00 0.08-00 0.08-00 0.08-00 0.08-00 0.08-00 0.08-00 | 4.581-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 4.648-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 4.55445 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 |
| 5.128+02 15W-17 1505-12 5.285-12 4.315-06 1.028-06 1.646,06 4.525-06 | \$12E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.54E-04 | 5.126-02 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | \$128-02 \$486.05 2178-01 1305.08 7346.06 2136.04 8466.04 1326.08 | 6.12E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 5.12E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 5.126-02 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 |
| 5.616-02 1536-38 2.886-33 1.406-31 2.206-06 5.606-07 5.766-07 2.886-06 6.246-02 0.000-00 4.386-34 5.676-32 1.306-06 3.566-07 5.886-07 2.216-06 | 5.652-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.522-02 5.242-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 5.6%E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 6.24E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 5452-32 4336-35 4365-32 6565-30 4296-36 1325-34 2562-39 5432-34 4240-32 6578-36 2136-32 2552-30 2358-36 1425-34 1296-34 6226-34 | 5.682-02 0.082-00 0.092-00 0.082-0000000000000000000000000000000000 | 5458-02 0000-00 0000-00 0000-00 0000-00 0000-00 0000-00 6246-02 0000-00 0000-00 0000-00 0000-00 0000-00 0000-00 | 5.852-52 0.002-000 0.002-0000000000 |
| 6.240-02 0.000-00 4.320-04 5.670-12 0.300-08 3.560-07 5.000-07 2.210-06 6.840-02 0.000-00 6.660.00 1.070-12 6.200-09 2.130-07 1.980-07 1.330-06 | 5.245-92 0.005-90 0.005-90 0.005-90 0.005-90 0.005-90 0.005-90 0.005-90 | 5246-02 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 6.240-02 8.5%-06 2.138-02 2.512-00 2.520-06 1.020-04 6.200-04 6.200-04 6.200-04 6.200-04 6.200-04 6.200-04 | 524C42 000040 000040 000040 000040 000040 000040 000040 | 6.246-42 0.08-00 0.08-00 0.06-00 0.08-00 0.08-00 0.08-00 0.08-00 0.08-00 | 5.245412 0.005400 0.005400 0.005400 0.005400 0.005400 0.005400 |
| 7.618-02 6.138-20 6.258-16 1.626-13 1.788-06 1.086-07 2.298-07 7.468-07 | 7.618-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 7.858-13 2.098-07 | 7.512-02 0.008-00 0.008-00 0.002-00 0.002-00 0.008-00 0.008-00 5.462-14 | 7.618-02 8.028-05 5.018-04 3.546-02 2.596-05 5.016-05 1.786-04 | 7418-02 6008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 7.616-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 7.518-82 0.006-00 0.006-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 8.408-02 0.008-06 5.276-07 1.708-04 5.766-00 5.286-08 1.132-07 8.816-07 5.288-02 0.008-06 1.208-07 1.408-15 1.826-00 2.116-08 5.158-08 1.816-07 | 8.408-02 0.008-00 0.008-00 0.008-00 0.008-00 1.708-04 9.828-13 3.708-07 5.288-02 0.008-06 0.008-00 0.008-06 0.008-06 2.598-11 5.448-09 8.248-07 | 8.408-02 0.008-0000000000 | 8408-02 6308-30 0308-30 133643 832648 117648 239648 939646 9288-02 2536-34 5386-34 2346-33 2426-68 4376-06 1126-05 4286-05 | 8.406-03 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 9.380-02 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 6485-02 0305-00 0305-30 0305-30 0305-00 0305-00 0305-00 5305-00 5285-02 0305-30 0305-30 0305-30 0305-40 0305-40 0305-40 | 8.406-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 9.288-82 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 1.00E+02 0.00E+00 1.20E-17 1.40E-15 1.61E-09 2.11E-08 5.15E-08 1.81E-07 1.00E+09 0.00E+00 1.34E-38 7.04E-15 4.19E-11 9.31E-09 2.41E-08 8.51E-08 | 1.00E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.59E+11 5.64E+05 E.58E+07 1.00E+01 0.00E+00 0.00E+00 0.00E+00 4.64E+00 1.54E+08 1.54E+08 | 5282-02 0.082-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 1.500-11 1.002-03 0.002-00 0.000-00 0.000-00 0.000-00 0.000-00 5.900-11 | 1008-01 0.002-00 1.382-04 2.702-03 2.422-08 4.802-06 1.182-08 4.502-08 1.002-03 0.002-00 1.382-04 3.702-13 6.362-08 1.862-06 4.662-06 1.882-08 | 1.001<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002<0 0.002< | 1.02-01 0.02-00 0.02-00 0.02-00 0.02-00 0.02-00 0.02-00 0.02-00 | 1.000+01 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 |
| 1402+08 0.002+00 2.936-17 1.036-14 1.456-11 3.906-09 1.066-08 4.768-08 | 1.025-03 0.008-00 0.008-00 0.008-00 0.008-00 8.968-00 6.088-08 1.418-06 | 1.028-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 8.368-11 | LODE-08 6-008-00 0.008-00 9.098-13 2.686-09 6.638-07 1.918-06 7.968-06 | 1408-05 2008-00 2.008-00 2.008-00 2.008-00 2.008-00 2.008-00 | 1.022-08 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1025-00 00000 00000 00000 00000 00000 00000 0000 |
| 1.136+00 0.006+00 2.558-06 7.888-15 4.968-12 1.318-09 4.238.09 1.558-08 | 1138-05 0.008-00 0.008-00 0.008-00 1.308-08 2.418-07 2.588-06 | 1136-03 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 2.596-10 | 118-03 0.008-00 1398-14 1.088-12 1.088-09 2.138-07 7.376-07 3.286-06 | 1136-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1136-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | E136-50 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 |
| 1255-03 0.005-00 9.445-17 2.978-15 1.955-12 4.265-25 1.496-09 5.815-09 1.865-03 0.005-00 0.005-00 2.996-16 7.496-13 1.355-25 4.446-10 1.955-09 | 1258-03 0008-00 0.008-00 0.008-00 0.008-00 7479-08 5579-07 1479-08 1388-08 0.008-00 0.008-00 0.008-00 0.008-00 2418-07 1346-06 5288-06 | 129E-03 000E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 7408-00 1.00E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.546.05 | 1258-03 5008-00 2.476.14 4786.13 4.646.05 6.425.08 2.628.07 1258.06 1288-03 5008-00 3.046.04 2.066.3 1286.03 1205.08 5.496.08 3.686.07 | 1.358-43 0.088-4000000000000000000000000000000000 | 1298-08 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 1388-08 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 | 1258-05 5208-00 5208-00 5208-00 5208-00 5208-00 5208-00 5208-00 5208-00 5208-00 |
| 1.526+09 0.00E-00 3.64E-17 3.15E-16 3.05E-13 3.54E-13 1.45E-10 K.44E-10 | 1.52E+0.5 0.00E+00 0.00E+00 0.00E+00 0.00E+00 5.83E-07 L78E-06 7.85E-06 | 1.526-03 0.008-00 0.006-00 0.008-00 0.008-00 0.008-00 2.008-09 | 1.528-03 0.000-00 4.558-14 1.818-13 8.000-15 7.378-09 2.518-08 1.138-07 | 1.526-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1322-03 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1.528-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 1486-05 0.008-00 1.085-08 1.856-07 0.265-03 1.075-03 4.005-01 1.875-00 1.865-08 0.008-00 9.815-09 2.245-07 2.075-14 8.255-02 1.096-01 4.085-01 | 1.88E-03 0.00E-00 0.00E-00 0.00E-00 4.346-17 1.12E-06 2.27E-08 1.00E-05 1.88E-08 0.00E-00 0.00E-00 0.00E-00 2.40E-13 1.67E-06 1.17E-06 1.12E-05 | 148E-03 020E-00 020E-00 020E-00 020E-00 020E-00 020E-00 228E-09 128E-03 020E-00 020E-00 020E-00 020E-00 020E-00 020E-00 020E-00 | 1686-03 0.006-00 2.546-03 4.386-04 1.050-03 1.360-09 1.366-08 | 1481-03 2008-00 2008-00 2008-00 2008-00 2008-00 2008-00 2008-00 1868-01 2008-00 2008-00 2008-00 2008-00 2008-00 2008-00 2008-00 | 1.685-05 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 1.865-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1.885-05 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 |
| 1.846+03 0.006+00 9.816-29 2.246-17 2.076-24 3.256-12 1.096-11 6.086-13 2.056+03 0.006+00 0.006+00 1.826-15 2.096-13 1.176-12 5.496-13 8.946-11 | 1.882-05 0.005-00 0.005-00 0.005-00 2.405-13 1.675-06 3.175.06 1.125-05 2.052-03 0.005-00 0.005-00 0.005-00 1.105-05 2.005-06 4.346.06 1.125-05 | 1.86E+03 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.156.09 2.058E+03 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.03E-09 | 1868-03 0306-00 7386-06 1256-14 1256-11 1266-09 2366-09 1396-08 2058-03 0306-00 2356-06 2356-15 2366-12 2216-15 1375-09 6,546-09 | 1.86(-0) 0.00(-0000000000 | 1.86E-03 0.00E-00 0.00E-000E-0 | 1.88E-08 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E+00 2.05E-08 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 |
| 2.562-03 0.000-00 0.000-00 5.656-19 1.326-25 1.306-13 9.166-13 8.146-12 | 2268-03 0.008-00 0.008-00 0.008-00 4.008-09 1.816-06 5.236-06 1.858-05 | 2266-03 0206-00 0206-00 0206-00 0206-00 0206-00 0206-00 2426-29 | 2362-01 0.008-00 1.096-16 1.646-16 5.836-13 2.095-11 1.086-10 1.176-09 | 2,368-05 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 | 2,242-03 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 | 2,262-25 0,005-00 0,005-00 0,005-00 0,005-00 0,005-00 0,005-00 0,005-00 |
| 2.508+00 0.008+00 3.296-20 1.638-18 0.546-16 2.316-14 7.686-14 1.296-12 | 2.50E+03 0.00E+00 0.00E+00 0.00E+00 2.81E-08 8.5M-06 6.07E-06 1.43E-05 | 250E=03 0.00E=00 0.00E=00 0.00E=00 0.00E=00 0.00E=00 4.13E=18 2.70E-09 | 2508-03 0.008-00 1.028-06 8.288-16 2.138-13 8.078-12 1.496-11 1.428-10 | 2.508-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.568-63 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.002-00 | 2.528+05 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 |
| 2.748+05 0.008+00 0.008+00 0.008+00 1.638-17 7.758-15 2.736-14 2.146-13 3.008+00 0.008+00 0.008+00 1.646-17 1.238-25 5.578-15 3.296-14 | 2742-03 0.002-00 0.002-00 0.002-00 9.092-08 4.022-06 4.982-06 1.522-05 1.002-01 0.002-00 0.002-00 1.022-07 4.192-06 7.222.06 1.475-05 | 2742-03 0201-00 0201-00 0201-00 0201-00 0201-00 1201-14 4282-09 | 2768-03 6362-98 8368-98 8368-98 4306-35 2766-32 6356-32 2396-31 8366-03 5366-98 8366-98 8356-98 1386-25 4466-33 1306-32 5398-32 | 2742-05 8.008-06 5.002-05 2.008-06 8.008-08 8.008-08 5.008-08-08 5.008-08-08-08-08-08-08-08-08-08-08-08-08- | 2.782-63 0.002-95 0.202-98 0.002-98 0.002-98 0.002-98 0.002-98 0.002-98 0.002-98 0.002-98 0.002-98 0.002-98 0.002-98 0.002-98 | 2768-65 0.002-000 0.002-000 0.002-0000-0000 |
| 3056-00 0.000-00 0.000-00 5.346-08 1.356-06 0.000-04 | 1051-03 0.005-00 0.005-00 0.005-00 2.055-07 4.385-06 7.336-06 1.495-05 | 1056-01 5.006-00 5.008-00 5.008-00 5.008-00 1.056-14 4.186-09 | 1052-03 0.002-00 0.002-00 0.002-00 9.556-35 5.062-04 2.476-03 1.477-12 | 1052-01 1052-00 1052-00 1052-00 1052-00 1052-00 1052-00 | 3.252-03 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 3.054-08 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 |
| 1.346+00 0.00E+00 0.00E+00 0.046-18 5.60E-17 1.62E-16 1.12E-15 | 1362-03 0.002-00 0.002-00 0.002-00 1175-07 4.425-06 7.562-05 1.562-05 | 1362-03 0.002-00 0.002-00 0.002-00 0.002-00 1.002-00 1.626-13 6.158-09 | 3.5HE-05 0.008-00 0.008-00 0.008-00 0.008-00 1.476-14 5.7HE-14 2.816-13 | 1346-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.542-03 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 3.862-03 0.008-00 0.008-00 0.008-00 0.002-00 0.008-00 0.008-00 |
| 3.718-00 0.008-00 0.008-00 0.008-00 1.208-17 2.208-17 1.408-14 4.108-00 0.008-00 0.008-00 4.875.19 4.715.18 5.755.18 2.366.17 | 1712-01 0.002-00 0.002-00 0.002-00 1572-07 4102-06 7.346-06 1.452-05 4102-03 0.002-00 0.002-00 0.002-00 1.002.07 4.462.06 7.002.06 1.452.05 | 1725-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 1.086-02 7.766-09 4.08-00 0.008-00 0.008-00 0.008-00 0.008-00 0.766.02 1.256.08 | 17/17-03 0300-00 0300-00 0300-00 5305-14 1480-35 1430-34 4100-03 5306-00 5300-00 1406.14 1470-35 3326.05 4126.35 | 1712-01 0.08-00 0.08-00 0.08-00 0.08-00 0.080-00 0.080-00 0.08-00 0.08-00 0.08-00 0.080-000-000-000-000-000-000-000-000-00 | 1712-03 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 4.001-03 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 | 1.722-01 0.002-000 0.002-0000000000 |
| 4.30E+05 0.00E+00 0.00E+00 0.00E+00 4.825-19 4.715-18 8.276-18 8.246-17 4.516+01 0.00E+00 0.00E+00 8.056-20 6.818-19 3.896-18 6.526-18 2.018-17 | 4.10E-03 0.00E-00 0.00E-00 0.00E-00 1.0E-07 4.465-06 7.00E-06 1.40E-05 4.53E-03 0.00E-00 0.00E-00 0.00E-00 1.30E-07 4.25E-06 4.17E-06 1.40E-05 | 410E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 5.716-12 1.228-08 453E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.68E-11 1.15E-08 | 438-03 0.002-00 0.002-00 0.002-00 1.416-06 1.570-15 2.520-05 6.202-05 4516-03 0.002-00 0.002-00 3.296.03 5.202.05 8.206.05 4.446.05 1.220-04 | 438-03 208-00 538-00 538-00 538-00 538-00 538-00 538-00 458-03 208-00 538-00 538-00 538-00 538-00 538-00 538-00 | 4.30E-05 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 4.58E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 4.00F-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 4.00E-00 0.00E-00 0.00E-00 0.00E-00 |
| 5.00E+08 0.00E+00 0.00E+00 0.00E+00 1.59E-19 2.08E-18 3.75E-18 1.64E-17 | 5.005-03 0.006-00 0.006-00 0.008-00 2.758.07 8.576.06 5.856.06 1.196.05 | 5.006-03 0.006-00 0.006-00 0.008-00 0.008-00 0.006-00 5.658-11 1.538-08 | \$.008-03 0.008-00 0.008-00 0.006-00 4.688-04 2.896-05 4.426-05 9.508-05 | 5006-03 0006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 5.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 5.00(-05 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 |
| 5.52E+00 0.00E+00 0.00E+00 0.00E+00 2.07E-19 2.34E-18 4.38E-18 1.28E-17 | 5.528-03 0.008-00 0.008-00 0.008-00 2.038-07 2.518-06 5.058-06 1.298-05 | 552E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 9.29E-11 2.14E-08 | 5538-03 0.008-00 0.008-00 0.008-00 0.176-06 2.498-15 4.088-15 7.968-15 | 5.528-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 5.522-00 00-300 0-300 00-300 00-300 00-300 00-300 00-300 00-300 | 5.528-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 1.328-09 |
| 6.096-00 0.008-00 0.008-00 0.008-00 5.008-19 4.288-18 6.478-18 1.708-17 6.716-08 0.008-00 0.008-00 0.008-00 4.886-19 5.476-18 5.756-18 2.418-17 | 6/98-03 0,008-00 0,008-00 0,008-00 1,385-07 1,176-06 4,028-06 1,075-05 6,786-08 0,008-00 0,008-00 0,008-00 8,796-08 1,556-06 2,398-06 7,968-06 | 4.0%-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.0EE-33 2.65E-08 4.7%-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.4%6.03 2.62E-0E | 4.085-03 0.002-00 0.002-00 5.06.05 5.06.05 1.002.04 1.840.04 4.795-03 0.002-00 0.002-00 1.236.05 1.136.04 4.040.04 | 8.0%-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 8.79E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 6.5%<-25 0.00E-30 0.0 | 6.096-03 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 4.462-08 6.798-08 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 1.046-08 |
| 7436+08 0.008-00 0.006+00 0.006+00 1.386-18 1.746-17 3.066-17 1.026-06 | 7486-08 0.006-00 0.006-00 0.008-00 5128-08 1.086-06 2.136-06 6.106-06 | 2.436-03 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 2.296-00 2.436-08 | 7436-08 0.006-00 0.006-00 0.006-00 0.006-00 1.406.04 3.0%-04 7.046-04 | 7.416-03 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 7 436-08 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 7.436-03 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 1.496-05 |
| 8.205+00 0.005+00 0.005+00 0.008+00 2.715-18 3.478-17 5.715-17 1.348-06 | 8.208-08 0.008-00 0.008-00 0.008-00 2.408-08 8.668-07 1.376-06 4.118-06 | 8.208-03 0.008-00 0.008-00 0.008-00 0.008-00 0.276-00 3.188-08 | 8.208-08 0.006-00 0.008-00 0.008-00 0.008-00 2.628-04 5.486-04 1.486-03 | 8.398-08 0.088-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 8.306-00 00-000 00-000 00-000 00-000 00-000 00-000 0000-00 | 8.208-08 0.006-00 0.008-00 0.008-00 0.008-00 0.006-00 0.006-00 1.596-04 |
| 5.045+03 0.005+00 0.005+00 0.005+00 1.735-17 1.205-35 1.645-15 1.205-36 1.205+04 0.005+00 0.005+00 0.005+00 8.105-19 1.575-34 2.205-14 8.575-34 | \$04E+03 0.00E+00 0.00E+00 0.00E+00 1.07E-08 1.77E-07 0.19E-07 2.42E-06 1.00E+04 0.00E+00 0.00E+00 0.00E+00 4.65E-09 2.15E-07 4.82E-07 1.51E-06 | \$04E+03 030E+00 030E+00 030E+00 030E+00 030E+00 2346-00 238E-08 103E+04 030E+00 030E+00 030E+00 030E+00 2386-03 630E+08 | 9062-03 5005-06 5005-06 6005-06 4505-14 2425-13 1465-13 67%-13 1005-04 5005-00 5005-06 5005-06 4346-14 45%-13 67%-13 12%-12 | \$346-53 0208-00 5208-00 5208-06 5208-00 5208-00 5208-00 5208-00 1208-04 2208-00 5208-00 5208-00 5208-00 5208-00 5208-00 | 5.562-03 0.002-30 0.002-30 0.002-30 0.002-30 0.002-30 0.002-30 1.002-30 1.002-30 0.002-3000000000000000000000000000000000 | \$386-05 6305-00 5305-06 6305-06 6305-06 5305-00 5306-06 2118-13 1385-04 5305-06 5305-00 5305-00 5305-05 5305-00 5305-00 1706-12 |
| 100F-04 0.00E-00 0.00E-00 0.00E-00 1.00E-09 1.07E-06 2.0E-06 8.57E-06 1.00E-04 0.00E-00 0.00E-00 0.00E-00 1.50E-17 1.02E-06 1.53E-06 1.64E-06 | 1006-04 0.008-00 0.008-00 0.008-00 1.008-07 1.528-07 1.528-05 1.006-04 0.008-00 0.008-00 0.008-00 4.658.09 1.158-07 4.528-07 1.528-06 | 100E-04 5.00E-00 5.00E-00 5.00E-00 5.00E-00 5.00E-00 2.09E-03 5.00E-0E 1.00E-04 5.00E-00 5.00E-00 5.00E-00 5.00E-00 2.09E-03 5.00E-0E | 1000-04 0300-00 0300-00 1376-04 8390-04 6376-03 6378-03 6390-02 | 1006-04 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 1001-04 0.001-06 0.001-00 0.001-06 0.001-06 0.001-06 0.001-06 | 100E-04 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.70E-12 1.00E-04 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.70E-12 |
| 1.006-04 0.006-00 0.006-00 0.006-00 0.066-10 9.446-17 1.786-16 4.726-06 | 1105-04 0.005-00 0.005-00 0.005-00 1.745-09 1.115-07 2.465-07 7.265-07 | 1106-04 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 2.345-00 3.436-08 | 1308-04 0.008-00 1.626-05 6.156-05 8.256-04 8.796-03 7.206-03 1.796-02 | 1.124-04 0.005-00 0.005-00 0.006-00 0.006-00 0.006-00 0.006-00 | 1206-04 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 1.106+04 0.006-00 0.006+00 0.006+00 0.006+00 0.006+00 0.006+00 0.556-13 |
| 1225-04 0.00E-00 0.00E-00 0.00E-00 1.0E-27 1.0EE-06 1.94E-06 5.82E-06 1.35E-04 0.00E-00 0.00E-00 0.00E-00 2.80E-17 1.48E-36 3.02E-16 5.63E-36 | 1228-04 0.008-00 0.008-00 0.008-00 5.825-05 5.246-08 1.198-07 3.886-07 1.558-04 0.008-00 0.008-00 0.008-00 1.836-05 2.246-08 5.378-08 1.896-07 | 122E-04 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 2.29E-03 4.18E-06 1.25E-04 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.05E-00 4.77E-08 | 1225-04 4296-06 4726-05 1046-04 8.406-04 8.996-01 6.538-03 1.425-02 1.358-04 7.576-06 5.296-05 1.776-04 1.306-03 5.736-03 7.966-03 1.796-02 | 1225-04 8086-08 8086-08 8086-08 8086-08 8086-08 8086-08 1352-04 8086-08 6086-08 6086-08 8086-08 8086-08 8086-08 8086-08 | 1225-04 0.00E-00 0.00E-0000000000 | 1222-04 0.002-05 0.002-00 0.002-00 0.002-00 0.002-00 3.242-11 1.352-04 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 1.222-30 |
| 1.856+04 0.000+00 0.000+00 0.000+00 2.806-07 1.886-06 3.020-16 5.686-06 1.496+04 0.000+00 0.000+00 0.000+00 1.276-17 1.786-06 3.100-16 7.158-06 | LISE=04 0.00E=00 0.00E=00 0.00E=00 LISE=00 2.24E=08 5.37E=08 LISE=07 L49E=04 0.00E=00 0.00E=00 0.00E=00 4.97E=11 E.62E=09 2.43E=08 5.89E=06 | 125E-04 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.056-00 4.77E-08 1.49E-04 0.00E-00 0.00E-00 0.00E-00 1.72E-19 4.59E-11 5.39E-08 | 1.958-04 7.578-16 5.296-15 1.776-14 1.806-13 5.718-13 7.986-13 1.796-12 1.490-04 1.086-17 7.386-15 1.898-14 1.476-13 6.525-13 9.876-13 1.868-12 | L351-04 6.00E-00 6.00E-000E-000E-000E-000E-00E-00E-00E-00E | 1.15E-04 0.00E-00 0.00E-00E-00E-00E-00E-000E-0 | L195+04 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.23E+00 L49E+04 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.93E+00 |
| 1640+04 0.000-00 0.000+00 0.000+00 1.050-05 1.750-05 0.710-05 | 1448-04 0.008-00 0.008-00 0.008-00 1.148-11 1.058-09 1.058-08 4.818-08 | 1648-04 0.008-00 0.008-00 0.008-00 0.008-00 2.528-19 2.386-11 7.128-08 | 1.640-04 0.008-00 1.420-16 1.270-15 8.346-14 5.070-13 7.976-13 1.816-12 | 1440-04 2008-00 2008-00 2008-00 2006-00 2008-00 2006-00 2008-00 | 1640-04 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 1445-04 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 1.085-09 |
| 1.812+04 0.002+00 0.002+00 0.002+00 0.002+00 5.585-25 5.662-29 2.652-28 | 1816-04 0.008-00 6.385-15 1.255-16 2.796-12 1.056-09 1.606-09 1.536-08 | 1818-04 0.005-00 0.008-00 0.005-00 0.005-00 5.518-03 1.225-11 4.428-08 2.002-04 0.008-00 0.008-00 0.008-00 0.008-00 6.085-15 8.518-12 6.246-08 | 1812-04 0.000-00 0.000-00 2.540-18 2.540-18 1.410-15 2.010-15 5.780-15 | 1812-04 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 1812-04 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1832-04 6.002-06 6.002-06 6.002-00 6.002-06 5.002-06 2.402-05 2.002-04 0.002-06 6.002-00 6.002-00 6.002-00 5.002-00 5.532-05 |
| 2008-04 0.008-00 0.008-00 0.008-00 8.826-30 1.896-38 1.076-38 9.818-38 | 1008-04 0.008-00 1.688-18 8.958-17 6.088-13 8.188-05 1.158-05 9.138-09 | 2008-04 0301-00 0308-00 0308-00 6388-19 6516-12 5346-08 | 2008+04 0308+00 0308+00 0308+00 1588-36 1406-15 2796-15 7308-15 | 100-94 100-90 100-90 100-90 100-90 100-90 1000-90 | 2302-04 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 2.00-94 0.00-90 0.00-90 0.00-90 0.00-90 558-99 |

| | on in grounds | aner (mg?) | | | | | | Concentratio | e in grounda | [1gn] when | | | 5.50 | | |
|------------------------|---------------------------|------------|-------------------|------------|-------------------------|-----------|----------------------|----------------------|-----------------------------|--------------------------|------------|--------------|-------------|----------|-----------|
| ne lusarsi 1.008-00 | 241 Percenti 0.000 e00 | 0.005-00 | 5.005-00 | 500 Parcen | 80th Parcas 8.005-00 | 0.00E-00 | Stati Percentile | Time lugars | Sub Percentil Subblector | 5th Percenti 0.005+00 | 200 Parcen | 50th Percent | 50th Percen | 0.00E+00 | \$905 Pwg |
| | | | | | | | | | | | | | | | |
| 008-00 | 0.006+00 | 0.006-00 | 0.008-00 | 0.006+00 | 4.188-17 | 1.596-04 | 2.056-14 | 1.005-00 | 6.008-00 | 0.000+00 | 0.008-00 | 0.008 +00 | 0.008-00 | 0.006+00 | 0.008+ |
| 008-00 | 0.008-00 | 0.008-00 | 0.006-00 | 2156-25 | 5.736-10 | 1.705-09 | 4 425-08 | 2.008-00 | 0.006-00 | 0.008-00 | 0.008-00 | 0.006+00 | 0.006-00 | 0.005+00 | 0.001-0 |
| 008-00 | 0.008+00 | 1.906-05 | 1.994-0E | 1.508-05 | 2.746-04 | 1.016-02 | 1.608-02 | 4.008+00 | 0.000-00 | 0.008+00 | 0.005-00 | 0.006+00 | 0.008-00 | 0.008+00 | 0.008- |
| 008-00 008-00 | 1.186-04 | 5.905-04 | 1.061-05 | 1.196-00 | 5.186-02 | 6.116-02 | 8,228,422 | 4.008+00 | 0.000-00 | 0.006+00 | 0.008-00 | 0.006+00 | 0.000-00 | 0.005-00 | 0.008- |
| 08-00 | 1.575-0.0 | 7.006-03 | 1124-02 | 5.058-02 | 1,216-01 | 1.478-01 | 1.888-01 | 6.008-00 | 1.005-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008+ |
| 008-000 | 1.296-02 | 2.296-02 | 2.985-02 | 9-856-00 | 2.046-01 | 2.416-05 | 8.038-01 | 7.008+00 | 0.006+00 | 0.006+00 | 0.005-00 | 0.006+00 | 0.008-00 | 0.005+00 | 0.008- |
| 005-00 | 1.665-00 | 2,766-02 | 1,705-02 | 1386-01 | 2.916-01 | 1.296-65 | 4 056-01 | 8.005-00 | 5.005-00 | 0.006+00 | 0.005-00 | 0.006+00 | 0.005-00 | 0.005+00 | 0.008- |
| 008-00 | 1.506-02 | 2 515-02 | 8.306-02 | 1268-01 | 3.546-01 | 4.136-01 | 5.008-01 | 9.008-00 | 0.006-00 | 0.005+00 | 0.005-00 | 0.006+00 | 0.006-00 | 0.008-00 | 0.006+ |
| 10-300 | 1.296-02 | 2.076-02 | 1784-62 | 1.076-01 | 3.736-01 | 4.856-01 | 5.7NE-01 | 1.008-01 | 6.008-00 | 0.006-00 | 0.005-00 | 0.508+00 | 0.006+00 | 0.005+00 | 0.008+ |
| 10-91 | 1.186-02 | 1.846-02 | 2.536-02 | 9.796-02 | 3.418-01 | 4.728-85 | 6.246-01 | 3.378-01 | 0.000-00 | 0.008+00 | 1.008-00 | 0.008-00 | 0.008-00 | 0.008+00 | 0.008+ |
| 101-01 | 1,546-02 | 1.7%6-02 | 2.396-02 | 9.328-00 | 2.985-05 | 4,276-05 | 5.958-05 | 1.308-01 | 6.008-00 | 0.006-00 | 0.005-00 | 0.006+00 | 0.006-00 | 0.005+00 | 0.008+ |
| k0€<05 | 1.126-02 | 1.746.02 | 2,856-02 | \$125.40 | 2.958-05 | 4136-65 | 5.706-01 | 1.406-05 | 0.006-00 | 0.006+00 | 0.005-00 | 0.006+000 | 0.006-00 | 9.00(+00 | 0.00E+ |
| 10-304 | 1096-02 | 1,758-02 | 2.298-02 | 8.816-02 | 2.838-01 | 1.916-01 | 1 528-05 | 1.608-01 | 0.001-00 | 0.008+00 | 0.008-00 | 0.005-00 | 0.008-00 | 0.008-00 | 0.008- |
| 708-01 | 1.076-02 | 1.676-02 | 2,256-02 | 8.805-02 | 2.786-01 | 1.886-05 | 5 458-05 | 1.705-01 | 0.006-00 | 0.006+00 | 0.005-00 | 0.005-00 | 0.008-00 | 0.005+00 | 0.005- |
| NR-71 | 1.066.02 | 1.638-01 | 2.686-02 | 8.408.402 | 2.706-01 | 1.756-61 | 5.348-01 | 1.908-01 | 0.008-00 | 0.000+00 | 0.005-00 | 0.006-000 | 0.008-00 | 0.005+00 | 0.00E+ |
| 100-01 | 1426-02 | 1.596-02 | 2.136-02 | 8.378-00 | 2.658-01 | 1.602-015 | 5.248-01 | 2.508-05 | 6.008-00 | 0.006+00 | 0.008-00 | 0.000+00 | 0.008-00 | 0.006+00 | 0.008+ |
| i#(+0) | 9,906-09 | 1 568-02 | 2,086-02 | 8.296-02 | 2 626-01 | 1.626-01 | 5.166-01 | 2,306-01 | 0.006-00 | 0.008+00 | 0.006-00 | 0.006+00 | 0.000 -00 | 0.006+00 | 0.006- |
| 105-01 | 9.526-03 | 1.508-02 | 1 996-02 | 8.026-02 | 2.558-01 | 1,526-05 | 5.085-01 | 2.608-003 | 0.006-00 | 0.006+00 | 0.005-00 | 0.008+00 | 0.008-00 | 0.005+00 | 0.008+ |
| 90E-01 | 9.296-00 | 1.475-02 | 1998-02 | 7815-02 | 2.518-01 | 1.458-65 | \$.025-01 | 2.806+05 | \$ 306-30 | 0.006+00 | 0.005-00 | 0.005-00 | 0.005-00 | 0.005+00 | 0.005+ |
| 208+01 | 8.835-03 | 1486-02 | 1.888-02 | 7.515-82 | 2.396-01 | 1,248-61 | 4.896-01 | 3.298+01 | 0.006+00 | 0.006+00 | 0.008-00 | 0.006+00 | 0.008-00 | 0.008+00 | 0.008+ |
| 508-01 | 8.456-03 | 1.986-02 | L 846-02 | 7.508-02 | 2.836-01 | 3.196-01 | 4 825-01 | 3.508+01 | 6.008-00 | 0.006+00 | 0.005+00 | 6.508+60 | 0.006-00 | 0.005+00 | 0.008+ |
| NOE-01 | 1.046-03 | 1.316-42 | 1.785-02 | 7:306-00 | 2.236-01 | 1.000-05 | 4.726-01 | 3.905+05 | 5-006-00 | 0.008+00 | 0.005-00 | 0.006-00 | 0.008-00 | 0.005-00 | 0.005+ |
| NH-01 700-01 | 7,596-01 | 1.298-02 | 1,726-02 | 5.815-02 | 2,118-01 | 2,976-01 | 4.628-01 | 4.308+01 | 0.000-00 | 0.005-00 | 0.006-00 | 0.006+00 | 0.008-00 | 0.005+00 | 0.008+ |
| 208-01 | 6.326-01 | 1.096-02 | 1.506-02 | 6.346-02 | 1976-01 | 2498-01 | 4215-01 | 5.308+05 | 1.005-00 | 0.008-00 | 0.008-00 | 0.006+00 | 0.008-00 | 0.008-00 | 0.000+ |
| - | ana di | 11000-02 | sawdi. | a second | The state | 1 April 1 | | 5.00 ⁴ 05 | | 1000-00 | 1000-00 | 100 - 00 | 1000-00 | 2008-00 | and a |
| 705-01 | 1416-01 | 1.098-02 | 1418-02 | 5.636-02 | 1.8%-01 | 1 526-01 | 4 088-01 | \$ 701-02 | 0.008-00 | 0.005-00 | 10000 | 0.005+00 | 0.005-00 | 0.000+00 | 0.000 |
| 70E-01 | 4.416-00 | 3.206-02 | 1,128-02 | 5.116-02 | 1.896-01 | 2.426-01 | 4 088-01 | 5.708-00 | 0.008-00 | 0.008-00 | 0.005-00 | 0.006+00 | 0.008-00 | 0.005+00 | 0.006+ |
| 408-01 | 1.445.00 | 121-01 | 1238-02 | 3.008-00 | 1498-01 | 2 425-05 | 1.705.03 | 7,008+05 | 0.008-00 | 0.008+00 | 0.008-00 | 0.008 +00 | 0.008-00 | 0.005+00 | 0.008+ |
| 806-01 | 2496-01 | 2.816-03 | 118.07 | 4.788-02 | 1.646-01 | 2.178-01 | 1575-05 | 7.808-05 | 0.006-00 | 0.008+00 | 0.008-00 | 0.006-00 | 0.008-00 | 0.008-00 | 0.008- |
| 406-01 | 2386-01 | 7 066-03 | 1.035-02 | 4.425.42 | 1566-01 | 2.056-01 | 1.405.01 | 8.605-05 | 0.006-00 | 0.006+00 | 0.005-00 | 0.006-00 | 0.008-00 | 0.006+00 | 0.000 |
| 505-01 | 2.076-08 | 6,255-00 | 3,405-01 | 4.156-02 | 1476-01 | 1,925-01 | 8.256-01 | 9.505-01 | E-00E-00 | 0.006-00 | 0.006-00 | 0.006-00 | 0.008-00 | 0.005+00 | 0.005- |
| 058-02 | 1.448-00 | 5.546-08 | 8475-00 | 3.876-02 | 1.148-01 | 1.815-01 | 1.045-01 | 1.058-02 | 0.000-00 | 0.006-00 | 4.008-00 | 0.006-00 | 0.006-00 | 0.005-00 | 0.005+ |
| 168-02 | 3.836-04 | 4.886-03 | 7.496-08 | 3.526-02 | 1276-01 | 1.718-65 | 2.796-01 | 1.168+02 | 0.008-00 | 0.000-00 | 5.005-00 | 0.006+00 | 0.006-00 | 0.008+00 | 0.008+ |
| 298-02 | 7,275-04 | 4.016-09 | 6.562-03 | 3178-00 | 1.156-01 | 1.568-01 | 2.456-01 | 1.286+02 | 6.008-00 | 0.006+00 | 0.008-00 | 0.008+00 | 0.008-00 | 0.005+00 | 0.000 |
| 428-02 | 5.246-04 | 3 146-01 | 5.676-05 | 2.815-62 | 1.045-01 | 1.445-01 | 2.905-01 | 1.418+02 | 6.008-00 | 0.005+00 | 0.005+00 | 0.006-00 | 0.005-00 | 0.005+00 | 0.005+ |
| 562-02 | 3.452-04 | 2,446-03 | 4.546-03 | 2.458-02 | 9.246-02 | 1,318-01 | 2.268-01 | 1.568+02 | 0.006-00 | 0.008+00 | 0.006+00 | 0.006+00 | 0.008-00 | 0.008+00 | 0.006 |
| 728-02 | 2.238-04 | 1.836-09 | 2.676-03 | 2.146-02 | 8284-02 | 1.046-01 | 2.028-01 | 1.728+02 | 6.008-00 | 0.006+00 | 0.006+00 | 0.008+00 | 0.008-00 | 0.008+00 | 1.306 |
| 106-02 | 1,225-04 | 1.296-05 | 2,998-05 | 1.610.02 | 7,256-02 | 1.006-01 | 1.798-01 1.596-01 | 1.908+02 | 0.008-00 | 0.008+00 | 0.008-00 | 0.008-00 | 0.006-00 | 0.008+00 | 2,406 |
| 108-00 | 2,286-25 | 6.290.04 | 1,666-03 | 1.948-00 | 5306-02 | 7.856-02 | 1.496-01 | 2,826-02 | 0.006-00 | 0.008-00 | 0.008-00 | 0.006+00 | 0.008-00 | 0.005+00 | 1.178 |
| 542-02 | 1.010-05 | 3.862-04 | 1147-01 | 3.115-02 | 4.646-02 | 5,698-02 | 1,298-01 | 2.548+62 | 0.000-00 | 0.000+00 | 0.008-00 | 0.006+00 | 0.008-00 | 0.000-00 | 2,410 |
| 828-02 | 1.082-04 | 2,216.04 | 7.825-04 | 8.862-00 | 1896-02 | 5.046.02 | 6.128-01 | 2 828-02 | 6.008-00 | 0.008+00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.002-00 | 3.00 |
| 008-02 | 1.055-06 | 1.296-04 | 1,242-04 | 7.328.45 | 32842 | 4.708-02 | 9.488.02 | 3.008-02 | 2.008-00 | 0.000+00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008+00 | 1.0% |
| 126-02 | 1.586-07 | 7.196-05 | 1.158-04 | \$.276-00 | 2.6%-02 | 1.796-02 | 7.868-02 | 8.128-07 | 0.006-00 | 0.008-00 | 0.000-000 | 0.008+00 | 0.008-00 | 0.005+00 | 4 505 |
| 446-02 | 1176-07 | 1408-05 | 1955-04 | 1.945-00 | 2.206-02 | 1.096-02 | 6.215-02 | 8.445+02 | 6.005-00 | 0.006+00 | 0.005-00 | 0.006+00 | 0.008-000 | 0.005+00 | 2.766 |
| 806-02 | 3.175-06 | 1.436-05 | 1125-06 | 2.876-08 | 1.776-02 | 2.456-22 | 5.218-02 | 3 806-02 | 2.005-00 | 0.005+00 | 0.005-00 | 0.006+00 | 0.008-00 | 0.005+00 | 9.146 |
| 208-02 | \$.725-09 | 5.856-06 | 5.785-05 | 2.696-00 | 1.368-02 | 1.946-02 | 4.308-02 | 4.208+02 | 6.006-00 | 0.006+00 | 0.008-00 | 0.006+00 | 0.006-06 | 0.005+00 | 1.956 |
| 648-02 | 2 306-09 | 2.108-06 | 2,936-05 | 1.446-03 | 1.046 43 | 1.515-02 | 8.666-02 | 4,646-02 | 0.006-00 | 0.006+00 | 0.006-00 | 0.006+00 | 0.008(-00 | 0.006+00 | 1,166 |
| 138-02 | 5.546-00 | 1,025-06 | 1.625-05 | 1.0%-08 | 8.146-08 | 1,225-62 | 2.945-02 | 5.128-02 | 0.006-00 | 0.006-00 | 0.005-00 | 0.006+00 | 0.006-00 | 0.005+00 | 5.856 |
| \$56-02 | 2,006-10 | 5.596-07 | 1015-05 | \$296-04 | 6.676-03 | 1.046-02 | 2.546-02 | 5.655-02 | 0.006-00 | 0.006+00 | 0.005-00 | 0.006-000 | 0.006-00 | 0.005+00 | 8.636 |
| 246-02 | 6.495-11 | 2.798-07 | 4 495-06 | \$785-04 | 5.226-08 | 8.228-68 | 2.066-02 | 6.248+02 | 0.006-00 | 0.008-00 | 0.008-00 | 0.006-00 | 0.008-00 | 0.005-00 | 1.176 |
| 896-02 612-02 | 8.516-12 | 7.845-08 | 178-06 5178-07 | 1505-04 | 3.776-08 | 5.776-68 | 1.562-02 | 6.890=02 | 1.008-00 | 0.006+00 | 0.008-00 | 0.008-000 | 0.008-00 | 7.538-19 | 1.465 |
| 408-00 | 2.426-13 | 2.018-08 | 1478-07 | 1,052-04 | 2576-08 | 3.928-03 | 8.156.03 | 7.618=02 8.408=02 | 0.008-00 | 0.008+00 | 0.008-00 | 0.008-00 | 0.006-00 | 1.005-16 | 1.056 |
| 298-02 | 4.055-13 | 8.206-10 | 4.385-08 | \$378-04 | 1.046-03 | 1.646-03 | 5.446-03 | 5.288+02 | 0.000-00 | 0.008-00 | 0.000-00 | 0.000-00 | 0.000-00 | 2.888-13 | 2.955 |
| 296 402 DEE 403 | 2.005-14 | 2.596-10 | 1,296-08 | 2.438-65 | 5.182-04 | 1.025-03 | 1 558-03 | 1.005-03 | 2.005-00 | 0.006+00 | 0.005-00 | 0.008+00 | 0.008-00 | 3.118-12 | 3.746 |
| 038-03 | 7.056-15 | 2.768-10 | 4.636-05 | 1.016-05 | 3 552-04 | 6.196-04 | 2.138-09 | 1.008-08 | 1.000-00 | 0.000+00 | 0.008-00 | 0.008+00 | 0.008-00 | 5.246-12 | 1.546 |
| 110-01 | 2 466-13 | 2.668-30 | 2,196-09 | 4.082-06 | 1,936-04 | 1.585-04 | 1.196-03 | 1.130-03 | 6.008-00 | 0.000+00 | 0.008-00 | 0.006-00 | 0.008-00 | 4.456-11 | 2.455 |
| 258-03 | 1 306-13 | 1.308-30 | 1.008-09 | 1.518-06 | 5.876-05 | 1.896-04 | 6.515-04 | 1.258-08 | 0.006-000 | 0.006+00 | 0.005-00 | 0.006+00 | 0.008-00 | 3.106-10 | 8.126 |
| 385-03 | 4.676-13 | 5.136-11 | 1.946-10 | \$246.07 | 5.016-05 | 9.756-05 | 3.465-04 | 1.385-03 | 8.006-00 | 0.006+00 | 0.005-00 | 0.006-00 | 0.006-00 | 7.956-10 | 3.605 |
| 538-05 | 3.006-13 | 1.600-13 | 1.478-10 | 1,708-07 | 2246-05 | 4,856-05 | 1.805.04 | 1.528-03 | 0.005-00 | 0.008+00 | 4.008-00 | 0.008-00 | 0.008-00 | 2.286-09 | 2.926 |
| 486<03 | 9.596-15 | 8.856-12 | 5.218-11 | 5.436-06 | 1.046-05 | 2.818-05 | 8.948-05 | 1.686-03 | 0.006-00 | 0.008+00 | 0.008-00 | 0.006+00 | 0.006-000 | 5.136-09 | 8.726 |
| 14 - 03 | 7.606-25 | 2,626-12 | 1506-11 | 2.066-08 | 5.666-06 | 1.446-05 | 5.756-05 | 1.868-08 | 0.006-00 | 0.006+00 | 0.006-00 | 0.006+00 | 0.006-00 | 1.286-08 | 3.846 |
| 51-03 | 2.496-15 | 6.925-13 | 8.918-12 | 9.258-09 | 3.268-06 | 8.968-06 | 1.621-05 | 2.058+08 | 0.006-00 | 0.006-00 | 0.005-00 | 0.005+00 | 0.006-00 | 2.106-08 | 2,648 |
| 266~03 | 0.006+00 | 1.395-13 | 8.396-13 | 1.645-09 | 1118-06 | 1.546-06 | 1.525-05 | 2.268-03 | 6.005-00 | 0.006+00 | 0.005-00 | 0.006+00 | 0.006-00 | 2.5%-08 | 3.305 |
| 508-03 | 1.525-05 | 4.708-14 | 15H-63 | 1.996-00 | 3.528-47 | 1.138-06 | 5.796-06 | 2.508+00 | 0.000-00 | 0.008+00 | 0.006-00 | 0.006+00 | 0.008-00 | 2.936-06 | 2.588 |
| 768-03 | 0.005-00 | 5.296-16 | 1.195-04 | 5.582-11 | 5436-08 | 4.348-07 | 1.886-06 | 2.768+00 | 6.008-00 | 0.000+000 | 0.008-00 | 0.000+00 | 0.008-00 | 1.886-08 | 2,475 |
| 256-03 | 0.008+00 | 0.008-00 | 6.198-05 | 1.058-11 | 4.396-08 | 1.256-07 | 1,708-07 | 3.058-03 | 0.005-00 | 0.008+00 | 0.008-00 | 0.006+00 | 0.008-00 | 2.605-08 | 2.296 |
| 256-03 366-03 | 0.008+00 | 0.008-00 | 6.008-07 | 1.488-12 | 4.396-09 | 5.305-09 | 4,156-09 | 3.052-03 | 6.008-00 | 0.006+00 | 0.005-00 | 0.508+00 | 1.055-18 | 2,806-08 | 1.665 |
| 366 403 716 403 | 0.008-00 | 0.088-00 | 1.008-00 | 2,336-15 | 3,266-10 | 1.205-09 | 4.156-08 | 3.748-03 | 1.008-00 | 0.008+00 | 1.008-00 | 0.008+00 | 4.278-18 | 2,788-08 | 1.640 |
| 106-03 | 0.008 +00 | 0.000-00 | 0.000-00 | 7.696-15 | 1,700-13 | 1.568-00 | 1.708-09 | 4306-08 | 6.008-00 | 0.006+00 | 0.005-00 | 0.006+00 | 1.360-16 | 1,688-08 | 1.140 |
| 100-01 | 0.008-00 | 0.008-00 | 0.001-00 | 5.246-25 | 2.406-12 | 1.490.03 | 2.365.10 | 4.528-03 | 1.008-00 | 0.008+00 | 0.008-00 | 0.006+00 | 6.425-17 | 1,000-00 | 1.946 |
| 104-03 | 0.008-00 | 0.008-00 | 0.008-00 | 4,206-25 | 2,996-13 | 2.468-12 | 2,786-11 | 5.008-08 | 0.000-00 | 0.006-00 | 0.005-00 | 0.006+00 | 4.768-17 | 6.106-08 | 1.450 |
| 132-03 | 0.008+00 | 0.008+00 | 0.008-00 | 3.758-15 | 6.562-14 | 5.518-13 | 1.228-1.1 | 5.525+03 | 6.008-00 | 0.000+00 | 0.008-00 | 0.000 -00 | 1.152-16 | 5.352-09 | 1.525 |
| 10-38 | 0.008+00 | 0.008-00 | 2.642-16 | 7.596-25 | 6.946-04 | 2.736-13 | 4.855-12 | 4.098-03 | 0.008-00 | 0.008+00 | 0.008-00 | 0.008 +00 | 9.896-17 | 3.462.09 | 1.136 |
| 196-08 | 0.008+00 | 0.008-00 | 0.006-00 | 2.676-05 | 3,266-14 | 6.708-04 | 4.438-13 | 6.738-03 | 0.006-00 | 0.008+00 | 0.008-00 | 0.006+00 | 7,678-17 | 2.268-09 | 7.676 |
| 431-03 | 0.006-00 | 0.006-00 | 0.006-00 | 0.006+00 | 5366-24 | 9.778-04 | 2.666-1.8 | 7.435-03 | 0.006-00 | 0.006+00 | 0.006-00 | 0.006+00 | 4.246-17 | 1 006-29 | 4.885 |
| 208-03 | 5.005+00 | 0.006-00 | 0.006-00 | 0.008+00 | 4.558-14 | 8.938-24 | 6.088-13 | 8.206-08 | 0.006-00 | 0.006+00 | 0.005-00 | 0.005+00 | 1.788-17 | 4.185-10 | 2.576 |
| 066-03 | 0.005+00 | 0.008-00 | 5.005-00 | 1276-13 | 6.075-13 | 8.175-13 | 1.446-12 | 5.048-03 | 6.006-00 | 0.006-00 | 0.005-00 | 0.006+00 | 1.226-17 | 3.076-10 | 2.186 |
| 008-04 | 0-006+00 | 0.006-00 | 0.006+00 | 4768-04 | 9.346-13 | 1.578-02 | 0.066-12 | 1.006-04 | 0.006-00 | 0.006+00 | 0.006-00 | 0.006+00 | 8.126-17 | 1.096-10 | 1.806 |
| 201-04 | 0.006+00 | 0.008-00 | 0.006-00 | 1716-18 | 9.946-43 | 1.376-12 | 2.118-12 | 1.008-04 | 0.006-00 | 0.005+00 | 0.008-00 | 0.006+00 | 2.758-47 | 1.096-10 | 1.005 |
| 105-04 | 0.006+00 | 0.006+000 | 1.936-25 | 1.586-13 | 1.096-12 | 1.615-12 | 3.725-12 | 1.108-04 | 0.006-00 | 0.006+00 | 0.005-00 | 0.006-00 | 2.815-17 | 4.445-11 | 1.0% |
| 225-04 | 0.008-00 | 1.706-15 | 1.115-14 | 1.798-41 | 9.676-18 | 1,446-12 | 9.356-42 | 1.228-04 | 0.008-00 | 0.006+00 | 0.006-00 | 0.006-00 | 2.078-17 | 9 516-12 | 7.415 |
| 152-04 | 0.005-00 | 1.245-14 | 8.176-14 | 2.578-13 | 1.886-12 | 1.876-32 | 5.138-12 | 1.350-04 | 6.008-00 | 0.006-00 | 0.006-00 | 0.008+00 | 2 886-17 | 2,726-12 | 4.5% |
| 400-04 | 1.486-17 | 8.118-15 | 1,201-34 | 3296-02 | 1 606-62 | 2.246-12 | 4.588-12 | 1.490-04 | 0.000-00 | 0.008+00 | 0.005-00 | 0.006+00 | 1.462-16 | 5.696-13 | 2.065 |
| \$45-04 | 2.966-68 | 6.786-16 | 1486-15 | 1.852-15 | 1176-62 | 1.706-12 | 3.508-12 | 1.642-04 | 6.008-00 | 0.008+00 | 0.008-00 | 0.008-00 | 1.970-16 | 1,236-13 | 1.346 |
| | 0.005+00 | 6.00E-00 | 1.796-17 | 7.285-16 | 4.736-15 | 7.296-15 | 1.455-14 | 1.815+04 | 6.008-00 | 0.008+00 | 4.005-00 | 0.000 +00 | 1.208-16 | 2,718-54 | 6.928- |
| \$12-04 08E-04 | 0.008-00 | 0.008-00 | 0.008-00 | 6.808-36 | 6.566-15 | 1.078-34 | 2.406-14 | 2.008-04 | 0.008-00 | 0.008+00 | 5.005+00 | 0.108+00 | 1.195-16 | 1,275-14 | 2.478 |

| stima. | | | | | | |
|--|--|---|--|--|---|--|
| Antenianapial N Concentration in procedurater (eg/l) | Anamic Concentration is groundwater [mg/l] | Cadmium Concentration in groundwater [mg/f] | Chinde Concentration is groundwater [eg/l] | Copper Consectution is providuater [reg/] | Land Concentration is groundwater (ing/l) | Mertury Concentration in providuater leg/[|
| Time liveary 3x1 Percenti 5th Percent 32th Percen 52th Percen 92th Percent 92th Percentile 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 | Trine Searcy 2x8 Persentil 5th Persent 32th Persen 50th Persen 50th Persen 50th Persen 50th Persentile 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 | Time Juezni 2xt Persenti 50t Persenti 20th Persen 50th Persen 10th Persen 19th Persen 19th Persen 19th Persentile 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 | Time Juser St Persenti Sth Persenti 20th Persen 50th Persen 50th Persen 50th Persentile 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 | Time learn' 3d Percenti 500 Percenti 300 Percen 500 Percen 500 Percen 500 Percen 1900 Percentile 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | Time Joaco' Lot Percenti Silh Percent J206 Percen S06 Fercen 506 Percen 506 Percentile 0.008-00 0.005-00 0.008-00 0.008-00 0.0056-00 0.008-00 0.008-00 | Time Iveani Joh Percenti Joh Percenti Joh Percent 50th Percent 90th Percent 90th Percentilite 0.008-00 0.0081-00 0.008-00 0.008-00 0.0081-00 0.0081-00 0.0081-00 |
| | | 508-00 008-00 008-00 008-00 008-00 008-00 008-00 008-00 008-00 1.008-00 008-00 5208-00 5208-00 5208-00 5208-00 5208-00 | | | | 0.008-008-0000000000 |
| 1.00E+00 0.00E+00 5.00E+00 0.00E+06 0.00E+00E+00E+000E+00E+00E+00E+000E+00E+ | 1.002+00 0.002+00 5.002+00 0.002+00 0.002+00 5.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 | 2005-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1008-00 0.008-00 0.008-00 0.008-00 2.962-14 1496-13 5.532-13 2008-00 0.008-90 0.008-90 0.008-90 5.126-13 1.126-07 5.776-07 1.546-06 | 1.00E+00 5.00E+00 5.00E+00 5.00E+00 5.00E+00 5.00E+00 5.00E+00 2.00E+00 5.00E+00 5.00E+00 5.00E+00 5.00E+00 5.00E+00 5.00E+00 | 1.00E=00 0.00E=00 0.00E=00 0.00E=00 0.00E=00 0.00E=00 0.00E=00 2.00E=00 0.00E=00 0.00E=00 0.00E=00 0.00E=00 0.00E=00 0.00E=00 | 2.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 |
| 5.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | \$008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 8.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 5.008-00 0.008-00 0.008-00 1.5H-01 4.H46.06 6.338-05 3.488-05 2.146.04 | 8.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 8.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | \$305-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 |
| 4.008+00 0.008+00 5.005+00 0.008+00 5.005+00 0.008+00 0.008+00 5.008+0005+0005+0005+0005+0005+0005+0005 | #.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 4.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 5.001-00 0.001-00 0.001-00 5.001-00 5.001-00 5.001-00 0.001-00 | 4205-00 0205-00 6205-07 5346-06 1366-04 1225-03 2325-03 4725-03 5005-00 1366-05 1376-04 2386-04 2305-03 1425-02 1466-02 2376-02 | 4.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 5.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 4.008-00 0.085-00 0.005-00 0.085-00 0.005-00 0.005-00 0.085-00 5.085-00 0.085-00 0.085-00 0.085-00 0.085-00 0.085-00 0.085-00 | 4 005-00 5 005-00005-0005-0005-0005-0005-0005-000 |
| 6.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 2.50E+17 | 8.008-00 0.002-00 0.008-00 0.002-00 0.002-00 0.002-00 0.002-00 | 6.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 6.00E-00 3.28E-04 8.96E-04 3.46E-03 5.90E-03 2.28E-02 2.97E-02 5.06E-02 | 6.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 6.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 6.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 |
| 7.008+00 0.008+00 5.008+00 0.008+00 5.076-00 5.576-00 2.378-29 1.958-15 6.008+00 0.008+00 0.008+00 0.008+00 0.008+00 3.446-19 2.318-38 1.508-12 | 7.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 8.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 7.001-00 0.001-00 0.001+00 0.001+00 0.001-00 0.001+00 0.001+00 8.001-00 0.001+00 0.001+00 0.001+00 0.001+00 0.001+00 0.001+00 | 7:008-00 1276-01 2:066-03 2:066-03 8:966-01 1:066-02 4:586-02 4:576-02 8:008-00 1:266-03 1:196-03 1:966-03 1:156-02 1:366-02 7:786-02 | 7.00-00 0.000-00 5.004-00 5.000-00 0.000-00 5.000-00 5.000-00 5.000-00 5.000-00 5.000-00 5.000-00 5.000-00 5.000-00 | 7.00E-00 0.00E-00 0.00E-000E-0 | 7.00E-00 5.00E-00 5.00E-0005.00E-0005.00E-0005.00E-0005.00E-0005.00E-0005.00E-0005.00E-0005.00E-0005.00E-0005.00E-0005.00E-0005.00E-0005.00E-0005.00E-0005.0 |
| 5.000+00 0.000+00 0.000+00 0.000+00 1.440-05 2.102-01 1.100-02 5.000+00 0.000+00 0.000+00 0.000+00 6.546-17 3.270-14 5.270-11 | 1.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 5.00E-00 0.00E-00 0.00E-000E-0 | 8.000-00 1,000-01 1,000-01 1,000-02 1,000-02 7,000-02 7,000-02 9,000-00 1,100-01 1,000-02 1,000-02 1,000-02 7,040-02 7,040-02 | 5.002-00 5.002-00 5.002-00 5.002-00 5.002-00 5.002-00 5.002-00 | 1002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 5.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 |
| 1.008+01 0.008+00 0.008+00 0.008+00 5.088+00 5.488-13 2.518-11 1.688-09 | 1.002-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1008-01 9546-04 1618-09 2088-09 8588-03 2788-02 1788-02 5.846-02 | 1002-01 0002-00 0002-00 0.002-00 0.002-00 0.002-00 0.002-00 | L002-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1.008-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 1.50E+05 0.00E+06 5.00E+00 0.00E+00 0.00E+00 5.00E-11 6.72E-00 2.50E-08 1.80E+05 0.00E+06 0.00E+00 0.00E+00 8.96E-15 5.04E-00 8.71E-09 2.11E-07 | 130E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.00E-00 0.00E-00 0.00E-000E-0 | 1.32F-05 0.00E-06 5.30E-00 0.00E-00 5.00E-00 5.00E-00 0.00E-00 1.80E-05 0.00E-06 5.00E-00 0.00E-06 5.00E-00 0.00E-00 0.00E-00 | 1306-01 9125-04 1476-08 1825-08 7535-08 2496-02 8328-02 5326-02 1306-01 8325-04 1386-08 1846-08 7226-03 2386-02 8306-02 8306-02 | 132K-05 0.00K-00 0.00K-00 0.00K-00 0.00K-00 0.00K-00 0.00K-00 130K-05 0.00K-00 0.00K-00 0.00K-00 0.00K-00 0.00K-00 0.00K-00 | 1336-05 0306-00 0306-00 0306-00 0306-00 0306-00 0306-00 1306-05 0306-00 0306-00 0306-00 0306-00 0306-00 0306-00 | 1,206-05 0,008-000 0,008-0000000000 |
| 1.408+01 0.008+08 0.008+00 0.008+00 1.438-16 2.228-09 3.598-08 4.568-07 | 1.405-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1.400-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 1408-01 ROMEON 1388-03 1398-03 63988-03 1288-02 8308-02 5368-02 | 1400-01 0000-00 0000-00 0000-00 0000-00 0000-00 0000-00 | 1.406-01 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 1405-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 |
| 1401-01 0.000-00 0.000-00 0.000-00 1400-15 5400-05 1100-07 1470-06 | 1605-01 0.065-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1405-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1408-01 7538-04 1296-05 1488-09 6708-03 1366-02 3025-02 4398-02 | 1408-01 0008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1402-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1.626-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 |
| 1.70E+01 0.00E+06 0.00E+00 0.00E+00 4.478-14 1.00E+08 2.40E-07 2.20E+06 1.90E+01 0.00E+00 0.00E+00 0.00E+00 1.40E-03 4.29E-08 5.12E-07 4.178-06 | 1.70E+01 0.00E+06 | 1.70E+01 0.00E+06 0.00E+06 0.00E+00 0.00E+00000E+0000000E+0000000E+000000000 | 1.708-01 7.218-04 1.248-00 1.628-00 5.538-08 2.108-02 2.968-02 4.098-02 1.909-01 5.938-04 1.208-08 1.546-08 5.258-08 2.088-02 2.988-02 4.688-02 | 1785-01 5098-00 5085-00 5398-00 5398-00 5398-00 5398-00 1995-01 5398-00 5398-00 5398-00 5398-00 5398-00 5398-00 | 1.708-01 6.008-00 6.002-00 0.008-00 0.008-00 0.008-00 0.008-00 1.908-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1702-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 1.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 |
| 1 108+01 0.008+00 0.008+00 0.008+00 1.006-12 1.056-07 1.018-06 5.318-06 | 00-300.0 00-300.0 00-300.0 00-300.0 00-300.0 00-300.0 00-300.0 10-302.1 | 2105-01 0205-00 0205-00 0205-00 0205-00 0205-00 0205-00 | 2105-01 5546-04 1136-01 1466-00 5386-01 1346-02 2346-02 4486-02 | 2.128-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 2.226-01 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 2305-05 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 |
| 2.808+01 0.008+00 0.008+00 0.008+00 2.708-12 0.828-07 1.882-06 0.182-06 2.608+01 0.008+00 0.008+00 0.108+06 0.108-06 1.108-06 | 2.502+61 0.002+0000000000 | 2.387=02 0.000=00 0.000=00 0.000=00 0.000=00 0.000=00 0.000=00 2.400=00 0.000=00 0.000=00 0.000=00 0.000=00 0.000=00 | 2301-01 5401-04 1042-08 1402-08 5796-08 1508-02 2408-02 4348-02 2402-03 5446-04 5398-04 1352-08 5546-08 1405-02 2408-02 4346-02 | 2.38%=0 0.098=00 0.098=00 0.098=00 0.098=00 0.098=00 0.098=00 2.482=01 0.088=00 0.098=00 0.098=00 0.098=00 0.098=00 0.098=00 | 2.388-55 6.088-96 0.058-96 0.088-96 0.088-96 0.088-96 0.088-96 0.088-96 0.088-96 0.088-96 0.088-96 0.088-96 0.088-96 0.088-96 0.088-96 0.088-96 | 2.30E-01 5.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 2.40E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 |
| 1.00E+01 0.00E+00 0.00E+00 1.31E-13 1.73E-13 1.44E-06 1.32E-05 | 2.602+01 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 | 2.608-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2400-01 5-00-04 8-790-04 1260-01 5-200-01 1700-02 2-200-01 1-200-02 | 2884-00 0084-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2826-01 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 2805-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 |
| 8.206+01 0.006+00 0.006+00 1.886-17 7.536-11 1.546-06 1.956-06 1.796-05 | 8,585-50 00-800 00-800 00-800 00-800 00-800 00-800 00-800 00-800 | 8.208-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 8208-01 4108-04 8228-04 1108-03 4308-03 1546-02 2246-02 8306-02 | 8.208-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 8,208-01 0,006-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 | 8,208-01 5.008-00 5.008+00 5.008+00 5.008+00 5.008+00 5.008+00 |
| 1505-01 0.005-00 2.465-03 2.045-05 2.246-09 1.785-06 7.915-06 2.055-05 1.905-01 0.005-00 1.796-07 1.325-04 1.278-08 5.065-06 9.715-06 2.178-06 | 1.50E+00 0.00E+00 0000000000 | 1505-01 0.005-00 5.005-00 0.005-0000000000 | 1508-01 1736-04 7.468-04 1088-01 4.688-03 1588-02 1186-02 1588-02 1568-01 2.628-04 6.778-04 1.008-03 4.318-03 1.488-02 2.018-02 3.328-02 | 1505-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 1905-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 150F+01 0.00E+00 | 150K-00, 0.00K-00 0.00K-00 0.00K-00 0.00K-00 0.00K-00 0.00K-00 150K-00 0.00K-00 0.00K-00 0.00K-00 0.00K-00 0.00K-00 0.00K-00 |
| 4.305-05 0.005-00 5.205-26 5.348-24 6.486.08 6.238-06 1.258-05 2.478-05 | 4305-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 4.105-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 4 305-01 2136.04 6 286.04 9 286.04 4 226.03 1 426.02 1 926.02 | 4.028-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 4.308-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 4.305-05 0.025-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 |
| 8.70E+01 0.00E+06 5.70E-05 1.54E-03 2.12E-07 8.34E-06 1.40E-05 2.74E-05 5.20E+01 0.00E+06 4.64E-14 1.44E-12 4.89E-07 1.04E-05 1.54E-05 2.77E-05 | 4.756-05 0.005-0000000000 | 4.705+01 0.00E-00 0.00E-000E-0 | 4.70E-01 1.8M-04 5.40E-04 8.2M-04 3.88E-03 1.11E-02 1.7M-02 1.03E-02 5.20E-01 1.17E-04 4.48E-04 7.00E-04 3.85E-08 1.20E-02 1.68E-02 1.68E-02 | 4.705+01 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 5.205+01 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 | 4.705+05 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 5.205+05 0.005+06 0.005+00 0.008+00 0.005+00 0.005+00 0.005+00 | 4.70E-05 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 5.20E-05 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 |
| | | | | | | |
| 6706-01 1026-17 8446-08 1.726-11 8.818-07 1.106-08 1.756-05 2.996-05 | 5/06-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 5.705-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 5.70E-01 8.34E-05 1.31E-04 6.20E-03 1.20E-02 1.44E-02 2.45E-02 | 5.708-05 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 5,705-01 0,005-00 0,005-00 0,005-00 0,005-00 0,005-00 | 5.70E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 |
| 6.405-01 1229-16 2.565-12 3.776-00 1.376-06 1.565-05 1.545-05 7.008-01 6.408-16 1.545-11 5.565-09 1.546-06 1.565-05 2.045-06 1.546-06 | 8.408-01 0.005-00 5.005-00 0.005-00 0.005-00 5.005-00 0.005-00 7.008-01 0.005-00 5.005-00 5.008-00 0.008-00 5.005-00 5.005-00 | 6.401+01 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 7.001-01 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 | 6.408-05 5.525.05 1.216.04 5.316.04 2.886.03 5.946.05 1.316.02 2.446.02 7.008-05 4.318.05 2.608.04 4.826.04 2.376.08 6.086.05 1.338.02 2.388.02 | 6405-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 7.005-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 6.408-01 0.005-00 0.005-00 0.008-00 0.008-00 0.008-00 0.005-00 7.008-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 6.408-00 0.008-00 0.006-00 0.008-00 0.008-00 0.008-00 0.008-00 7.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 7305-01 4438.15 1368-00 2305-08 2406.06 1438-05 2356-05 4146-05 | 7.806-00 5.006-00 5.006-00 5.006-00 5.006-00 5.006-00 5.006-00 | 7.808-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 7306-01 2346-05 2046-04 3346-04 2346-03 8296-03 1296-00 2346-02 | 7.806-05 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 7.806-05 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 7,001-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 |
| 8.605+01 1.845.14 8.465.26 8.176.08 2.813.06 1.505.05 2.005.05 4.176.05 9.505+01 1.728-14 2.176-08 1.916-07 3.058.06 1.465-05 2.066.05 4.158.05 | 8.628-45 0.007-00 0.008-00 0.008-00 0.007-00 0.008-00 0.008-00 0.008-00 5.508-45 0.008-00 0.008-00 | 8.621-01 0.081-08 0.081-18 0.001-08 0.081-08 0.081-08 0.081-08 0.081-08 0.081-08 | 8429-01 1725-05 1405-04 1205-04 1205-03 7.265-03 5425-01 1305-02 8500-01 1205-05 1205-04 1275-04 1205-03 5405-03 5405-03 1205-02 | 6.626-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 5.58E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 8.681-01 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 9.581-01 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 | 5.500-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 5.500-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 |
| 1056+02 1896-14 4516-08 1086-07 1106-06 1496-05 1976-05 1886-05 | 1.056+02 0.008+00 0.006+00 0.008+00 0.008+00 0.008+00 0.008+00 | 1.052-02 0.008-00 5.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1058-02 7.046-06 9.178-05 2.228-04 1.486-08 5.978-08 8.206-08 1.636-02 | 1,052-02 0,000-00 0,002-00 0,000-00 0,000-00 0,000-00 0,000-00 | 1.052-02 0.008-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1.042-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 |
| 1.562+02 1.688-54 1.076-07 3.855-07 3.405-06 1.438-05 1.996-05 3.798-05 1.388+02 1.068-14 1.348-07 8.998-07 8.808-06 1.958-05 1.508-05 8.538-05 | 1367-62 6308-66 6308-60 6308-60 6308-66 6308-60 6308-60 6308-60 1387-62 6308-66 6308-60 6308-66 6308-66 6308-60 6308-60 6308-60 | 1342-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 1382-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 136-02 3162-06 6532-06 1732-04 1252-03 5342-03 7336-02 1462-02 1398-02 1278-06 4488-05 1256-04 1298-03 4508-03 4228-03 1298-02 | L148-40 6.00E-00 5.00E-00 5.00E-00 5.00E-00 5.00E-00 5.00E-00 5.00E-00 1.28E-00 5.00E-00 5.00E-0005.00E-0005.00E-0005.00E-0005.00E-0005.00E-0005.00E-000E-0 | 1.582+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.28E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | L342+02 0.002+0000000000 |
| 138+40 108-14 134-07 1399-07 1306-06 139-05 1306-06 1396-05 1306-05 | L38E+G2 0.00E+00 0.00E+000E+0 | 1.38+02 0.08+00 0.08+00 0.08+00 0.08+00 0.08+00 0.08+00 0.08+00 1.415+02 0.08+00 0.085+00 0.085+00 0.085+00 0.085+00 0.085+00 | 1418-02 4818-07 2.788-05 8.958-05 8.478-04 3.828-03 5.138-00 1.128-02 | 1.418-92 8.008-00 8.008-00 9.008-00 8.008-00 8.008-00 8.008-00 | 1.28E+02 0.00E+00 0.00E+000E+0 | 1415-02 8-005-06 6-005-06 8-005-06 8-005-06 8-005-06 8-005-06 |
| 1.548-62 2.318-15 8.388-08 3.266.47 2.448.06 1.348-05 1.746.05 3.046.05 1.728-62 1.626.15 4.348.08 2.418.07 2.188.06 8.648.06 1.416.05 2.728.05 | 1562-62 6305-06 6305-00 0.008-00 0.005-00 6305-00 6305-00 6305-00 1725-62 6306-00 6305-00 0.008-00 6305-00 6305-00 6305-00 6305-00 | 1.546-42 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.72E-02 0.00E-00 0.00E-000 0.00E-000E-0 | 1566-02 1328-07 1528-08 5.868-05 5.668-04 1.178-03 4.276-03 5.428-03 1.728-02 4.908-08 1.328-06 1.298-05 5.128-04 2.598-03 1.568-03 7.868-03 | 1.548-42 6.00E-00 5.00E-00 5.00E-0005.00E-0005.00E-0005.00E-0005.00E-0005.00E-000E-0 | 1568-C0 0.008-0000000000 | L54E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 |
| 1.908-02 1.908-05 4.908-08 2.428-07 2.188-06 5.868-06 2.408-05 2.728-05 1.908-02 7.396.06 1.096-08 1.576-07 1.728-06 6.8286-06 1.396-05 2.448-05 | 1964-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 198-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1.901-02 1.404-08 4.946-06 2.096-05 3.346-04 2.596-03 5.946-03 5.946-03 | 1405-02 0005-00 0005-00 0005-00 0005-00 0005-00 0005-00 0005-00 | 1301-02 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 | 172F-02 030E-00 |
| 2.306+02 2.706-05 1.996-08 9.008-08 1.328-06 6.588-06 1.076-05 1.858-05 | 2.106-02 0.008-00 0.006-00 0.006-00 0.006-00 0.006-00 0.008-00 | 2106-02 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 2305-02 4276-09 1876-06 1176-06 2816-04 1666-03 2275-01 5246-08 | 2108-02 0.008-06 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2106-02 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 2.101-02 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 |
| 2.521+02 1.346-05 1.146-08 4.968-08 9.696-07 5.258-06 8.388-06 1.508-06 2.568-02 6.178-06 5.818-06 5.588-07 1.978-06 6.218-06 1.178-06 | 2.328-02 0.008-08 8.008-00 8.008-00 0.008-08 8.008-08 6.008-08 8.008-08 2.008-08 2.008-08 0.008-08 0.008-08 0.008-08 0.008-08 | 2.328-42 0.008-08 5.008-08 0.008-08 0.008-08 5.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 | 2325-02 1146-08 7356-07 6.446-06 2036-04 1276-03 1865-03 4006-01 2546-02 2706-03 2726-07 2396-06 1306-04 6.296-06 1306-03 3206-03 | 2.325+02 6.008+08 5.008+08 5.008+08 5.002+08 5.002+08 5.008+08 5.008+08 5.008+08 5.008+08 5.008+08 5.008+08 5.008+08 5.008+08 | 2.128-02 0.000-00-00-00-00-00-00-00-00-00-00-00-0 | 2.328-02 8.000-00 6.000-00 5.000-00 8.000-00 6.000-00 9.000-06 8.000-00 2.566-02 8.000-00 9.000-00 9.000-00 9.000-00 9.000-00 9.000-00 |
| 2.828+02 2.628-16 2.418-09 1.218-08 4.578-07 1.028-06 4.588-08 8.708-06 | 2.826+02 0.008+00 0.006+00 0.008+00 0.008+00 0.006+00 0.008+00 | 2.828-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2828-02 5.728-11 5.978-06 1.328-08 8.788-05 6.548-04 1.048-08 2.648-08 | 2.525-02 0.006-00 0.006-00 0.008-00 0.008-00 0.006-00 0.006-00 | 2.828-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.825+02 0.006+00 0.808+00 0.006+00 0.006+00 0.006+00 0.006+00 |
| 8.006-02 103816 8.268-00 5.326-09 2.796.07 2.136-06 8.326.06 6.796.06 8.128-02 8.036-07 2.836-00 2.276-09 1.798.07 1.528-06 2.506.06 5.346.06 | 8.00E+02 0.00E+00 00E+00 0.00E+00 0.00E+0000E+0000000000 | 3.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 1.128-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1001-02 9566-02 2786-08 5276-07 58256-05 4976-06 7368-04 2168-03 8129-02 1526-02 8476-06 2058-07 1588-05 1488-06 1488-08 1488-08 | 1.00E-02 0.00E-00 0.00E-0000000000 | 8.001-02 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 8.131-02 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 | 5.00(=02 6.00(=00 0.00(00(0000000000 |
| 1446+02 1906-17 1276-00 1136-09 1196-07 1306-06 1956-06 4.058-06 | 2.446-02 0.005-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 3.446-02 0.008-00 0.008-00 0.006-00 0.008-00 0.008-00 0.008-00 | 1440-02 2000-13 2300-05 7370-06 2040-05 1500-04 1540-04 1180-08 | 3446-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1.446-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 3.446-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 |
| 8.808+00 2.346-17 8.228-11 8.996-00 8.708-08 8.128-07 1.318-06 2.798-08 4.308+02 1.298-17 7.596-12 1.386-05 5.688 08 8.308-07 8.326-07 1.948-06 | 8.00-00 00-000 00-000 00-000 00-000 00-000 00-000 00-00 4.00-00 00-000 00-000 00-000 00-000 00-00 00-00 00-00 | 1.808-02 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 4.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 | 1802-02 2545-04 5558-02 2176-08 1056-05 1605-04 2505-04 8338-04 4205-02 1108-04 1175-05 5488-09 5485-06 1475-04 1648-04 54836-04 | 180-32 00-300 00-300 00-300 00-300 00-300 00-300 00-300 00-300 00-4.00 4.00 00-300 00- | 1.898-02 0.098-00 0.008-00 0.008-00 0.098-00 0.008-00 0.098-00 0.008-00 4.308-00 0.098-00 0.008-000 0.008-0000000000 | 3.558-62 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 4.208-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 4,646-02 4,625-18 1,725-12 4,056-12 1,836-08 1,296-07 5,156-07 1,196-06 | 4.546-52 0.006-00 0.006-00 0.008-00 0.008-00 0.008-00 0.008-00 | 4446-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 4.646-02 2.785-05 2.346-01 1.546-05 2.786-06 8.646-05 1.086-04 1.775-04 | 4.545-52 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 4.546-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 4545-02 5.005-00 5.005-00 5.005-00 5.005-00 5.005-00 5.005-00 |
| 5.125-02 3.126-08 2.996-09 1.096-01 8.966-09 1.918-07 3.196-07 5.056-02 5.566.09 4.966.04 2.876.02 8.206.09 1.126.07 1.876.07 5.406.07 | 5.128-42 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 1.916-15 5.496-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 1.976.00 | \$121-42 0.000-000- | 5.125-02 1.475-03 4.315-12 3.736-30 1.466-06 4.386-05 6.555-05 2.546-04 5.856-02 6.376.36 1.386.47 1.566.47 1.566.05 5.366.05 1.826.04 | 5.121-02 6.081-00 5.091-00 5.091-00 5.091-00 5.091-00 5.091-00 5.091-02 5.091-00 5.091-00 5.091-00 5.091-00 5.091-00 5.091-00 | 5.121-02 5.081-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 | 5.128-02 6.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 5.688-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 6.246-02 0.008-08 8.568-04 2.878-02 4.288-09 1.828-07 1.878-07 5.408-07 6.246-02 0.008-08 8.568-05 1.146-02 2.508.09 7.838-08 1.368.07 4.478.07 | 5.454-42 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.75E-00 | 5.555-00 0.08-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 2.025-20 6.345-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 2.025-20 | 6360-00 2,766-07 4,346-03 4,966-03 4,556-07 2,556-05 3,366-05 1,266-04 6360-00 2,766-07 4,346-03 4,976-02 4,576-07 2,556-05 3,668-05 1,286-04 | 5355-02 0.08-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 5.552-02 0.008-00 0.002-00 0.008-00 0.008-00 0.008-00 0.008-00 8.262-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 5.850-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 |
| 6.0H-02 0.00E-00 1.32E-05 2.22E-03 1.0E-09 4.17E-06 7.818-08 2.4H6-07 | 6.896-02 0.008-00 0.006-00 0.006-00 0.006-00 0.006-00 0.125-26 7.776-08 | 4.814-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.78E-13 | 6.094-02 0.006-00 1.926-04 6.496-02 1.746-07 1.016-05 1.946-05 6.106-05 | 4.8%-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 4.8%-00 0.00(-00 0.00(-00 0.00(-00 0.00(-00 0.00(-00 0.00(-00 | 6.296-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 |
| 7.616-02 1455-05 1565-06 3.025-04 3.495-10 2.195-06 4.445-06 1.455-07 8.406-02 0.006-06 4.636-08 3.346-15 1.155-10 1.055-08 2.726-08 7.296-08 | 7.418+02 0.005+00 0.005+00 0.005+00 0.005+00 1.518-11 1.388-07 8.407+02 0.005+00 0.005+00 0.008+00 0.005+00 8.278-14 1.485-05 4.518-07 | 7.615+02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 2.675-12 8.40E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.40E-11 | 7418-02 1408-05 8.588-05 6518-13 5.808-08 5.126-06 1.028-05 1.528-05 8.408-02 0.008-00 0.008-00 6.598-14 1.898-08 2.528-06 4.728-06 1.668-05 | 7.615-02 0.00E-00 0.00E-000E-0 | 7.625+02 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 8.405+02 0.005+00 0.005+00 0.008+00 0.005+00 0.005+00 0.005+00 | 7.818-02 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 |
| 9,286+02 0.008+05 9.688-05 9.006-26 9.186-11 4.566-09 1.068-08 9.466-08 | \$286-02 0.008-00 0.006-00 0.008-00 0.008-00 5.528-11 1.826-08 7.826-07 | 8.286-02 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.008-00 0.956-11 | 8288-02 6226-05 2346-04 6200-04 4606-09 8786-07 2328-06 7.828-06 | 9.286-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 8.286-02 0.006-30 0.306-30 0.006-30 0.006-30 0.306-30 0.306-30 | 9,286-00 0,006-00 0,006-00 0,006-00 0,006-00 0,006-00 0,006-00 |
| 1008-08 0.008-08 1276-17 1346-15 8.726-12 1.806-09 4.796-09 1506-08 1025-08 0.008-08 1496-17 1.476-15 2.596-12 6.726-10 1.896-29 6.896-09 | 1205-03 0.005-00 0.005-00 0.005-00 0.005-00 0.425-00 1.075-06 1.027-03 0.005-00 0.005-00 0.005-00 0.005-00 4.705-06 5.962-06 1.225-06 | 1005+05 0005+06 0.005+000000000000000000000000000000000 | 1205-03 0.058-06 2.408-05 1.208-13 1.208-09 1.716-07 9.228-07 1.598-06 1.029-08 0.008-08 0.058-00 1.208-13 4.968-15 1.508-07 3.728-07 1.538-06 | 1009-03 0.002-0000000000 | 1205-03 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 1025-03 0.005-00 0.005-00 0.008-00 0.005-00 0.005-00 0.005-00 | 1008-05 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 1.029-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 138-08 0.088-08 4.238-37 3.498-35 3.088-32 2.588-30 8.348-30 2.978-09 | 1136+05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.78E-08 1.62E-07 1.58E-06 | 1.136+03 0.008+00 0.308+00 0.008+00 0.308+00 0.308+00 2.036-10 | 1.138-03 0.008-00 2.346-05 1.728-13 2.228-10 4.196-06 1.408-07 6.196-07 | 1136-05 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 118-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1130-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 |
| 1258-00 0.000-00 2.730-07 5.526-36 3.660-13 8.138-11 2.886-30 1.136-09 1.887-01 0.006-00 0.006-00 6.546-37 1.516-33 2.326-11 6.546-33 6.026-30 | 1256-69 6006-90 0.006-90 0.006-90 0.006-90 1.086-08 2.856-07 2.306-96 | 1255-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 2.550-00 1.555-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.555-00 | 1255-03 0.002-00 4.475-25 5.045-34 9.495-33 1.245-08 5.058-08 2.445-07 1.387-03 0.005-30 8.525-35 4.745-34 1.825-13 8.86-09 1.468-08 7.825-08 | 1258-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1258-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1256-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 1.528-03 0.000-00 3.876-38 6.128-37 6.456-14 6.826-32 2.758-33 1.306-30 | LS2E-63 0.00E-00 0.00E-00 0.00E-00 0.00E-00 2.58E-07 6.570-07 2.96E-06 | 1522-01 0.008-00 0.002-00 0.002-00 0.002-00 0.002-00 5.285-10 | 1328-00 0.008-00 E328-05 3.478-34 1.538-11 1.478-09 4.848-09 2.228-08 | 1522-03 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1522-03 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1.528-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 |
| 1.680-00 0.000-00 0.520-09 4.200-08 2.520-14 2.040-12 7.840-12 0.020-13 1.860-00 0.000-00 2.670-09 4.550-28 0.808.15 4.796-18 2.136-12 1.220-12 | 1.682-03 0.002-00 0.002-00 0.002-00 1.785.17 0.682-07 0.992-05 1.862-03 0.005-00 0.005-00 0.005-00 1.165.13 4.682-07 1.062-06 0.146.05 | 1.68E+03 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 7.786-00 1.86E+08 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.29E-09 | 1.600-00 1.576-07 4.700-06 8.500-15 6.100-12 6.400-00 1.600-09 1.800-09 1.800-000-000-000-000-000-000-000-000-000 | 1.68E-03 0.00E-00 0.00E-000E-0 | 1.68E+05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.86E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 1.68-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.86E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 |
| 2.056+08 0.006+00 0.006+00 5.086-30 8.408-16 2.376-18 1.096-12 7.906-12 | 2.056+09 0.005+00 0.005+00 0.005+00 7.395-11 6.446-07 1.256-06 3.446-06 | 2,0%2+03 0,006+00 0,006+00 0,006+00 0,006+00 0,006+00 2,526-09 | 2056-03 0.006-00 7.406-07 4.5%-04 4.206-13 4.206-01 2.0%-00 1.1%-08 | 2,058-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 | 2,056+03 0,006+00 0,006+00 0,006+00 0,006+00 0,006+00 0,006+00 | 2,058+03 0,008+00 0,006+00 0,008+00 0,008+00 0,008+00 0,008+00 |
| 2,562+01 0,000+00 0,000+00 5,576-30 2,566-15 2,296-24 1,818-13 1,548-12 2,506+03 0,000+00 5,002+00 5,502.53 1,856-15 4,576-15 1,842-14 2,426-13 | 2368-68 0.000-08 0.000-00 0.000-00 2118-09 7.488-67 1.528-66 3.408-66 2.508-68 0.000-08 0.000-08 0.000-08 1.128-08 8.496-87 1.448-66 3.238-66 | 2,582-02 0,088-08 0,088-08 0,088-08 0,088-08 0,088-08 1,06-25 1,766-09 2,502-03 0,088-08 0,088-08 0,088-08 0,088-08 0,088-08 0,058-08 1,156-28 | 2560-01 0500-00 278-07 1580-08 1250-03 4340-02 2360-01 2340-00 2500-03 0500-00 2360-07 1500-04 4500-04 1430-12 2590-02 2340-01 | 238-03 0.08-0000000000 | 2,582-03 0,098-000 0,098-000 0,098-000 0,098-000 0,098-0000000000000000000000000000000000 | 2386-01 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 |
| 2.508+08 0.008+08 8.008+00 8.008+05 8.008+16 4.57E-15 1.46E-14 2.63E-13 2.56E+05 0.008+08 8.008+00 0.008+00 3.20E-18 1.56E-15 6.60E-15 6.51E-14 | 2.50E+08 0.00E+00 0.00E+00 0.00E+00 1.12E-08 E49E-07 1.46E-06 1.23E-06 2.56E+00 0.00E+00 0.00E+00 2.82E-08 8.42E-07 1.63E-06 3.50E-06 | 2.50E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.50E-10 1.19E-05 2.76E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 7.60E-15 1.77E-05 | 2.508-08 0.008-00 2.268-17 1.518-16 4.508-14 1.618-12 2.998-12 2.748-12 2.568-08 0.008-00 0.008-00 8.578-16 5.608-13 1.228-12 1.608-12 | 2.50E+03 0.00E+00 0.00E+0000E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+ | 2.50E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 2.70E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 2.50E+00 0.00E+00 0.00E+000E+0 |
| 1.008+00 0.008+00 0.008+00 2.718-18 2.348-16 1.078-15 6.348-15 | \$.00E+08 0.00E+06 0.00E+00 0.00E+00 5.00E-08 5.00E-07 1.55E-06 3.82E-06 | 1006-03 0.006-00 0.006-00 0.006-00 0.006-00 6.006-00 6.766-04 2.036-09 | \$008+01 0.002+00 0.002+00 0.002+00 6.096-16 8.670-14 2.308-13 1.136-12 | 1002-03 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1.00E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 |
| 1.052+05 0.008+00 0.008+06 0.008+06 9.298-19 3.118-17 1.708-16 2.118-15 3.362+09 0.008+00 0.008+00 0.008+00 2.228-19 1.028-17 3.208-17 2.228-16 | 1352+00 0.000+00 0.000+00 0.000+00 6.332-00 9.232-07 1.682-06 1.732-06 1.562+00 0.000+00 0.000+00 6.392-08 9.146-07 1.588-06 3.272-08 | 1.954-03 0.000-00 0.000+00 0.000-00 0.000-00 0.040-14 1.932-29 1.342-03 0.000-00 0.000+00 0.000+00 0.000+00 1.342-13 2.962-29 | 1058-03 0000-00 0000-00 1000-14 1000-14 2956-13 1000-03 0000-00 0000-00 0000-00 2576-15 1100-14 5-406-14 | 1352-05 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 1342-03 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 1.552-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 1.342-01 0.005-000 0.005-0000000000 | 1.552-03 0.000-00 0.500-00 0.000-000- |
| 5.716+05 0.00E+00 0.00E+00 0.00E+00 7.50E-20 2.12E-08 4.29E-38 2.40E-17 | 8.71E+05 0.00E+00 0.00E+00 0.00E+00 7.60E-08 E.85E-07 1.53E-06 2.94E-06 | 5.716-03 0.006-00 0.006+00 0.006+00 0.006+00 0.006+00 5.505-13 2.786-09 | 8718-08 0.008-00 0.008-00 0.008-00 1.228-06 8.528-06 8.258-05 | 5.72E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 5.71E-03 0.30E-30 0.30E-30 0.30E-30 0.30E-30 0.30E-30 0.30E-30 | \$716+03 2-006+00 2-006+00 2-006+00 2-006+00 2-006+00 2-006+00 |
| 6.2014-08 0.0014-08 0.0014-00 0.0014-08 9.275-09 1.705-08 6.405-08 4.536-08 0.008-08 0.008-08 6.476-03 1.256-15 7.888-05 1.346-08 4.176-08 | \$205-03 0.005-00 0.005-00 0.005-00 7.305.08 0.066-07 1.335.06 2.958.06 4.535-03 0.008-00 0.008-00 0.008-00 6.556.08 7.646.07 1.306.06 2.846.06 | 430(<0) 0.000-00 0.000-00 0.001-00 0.000-00 156612 3-026-09 4582-08 0.000-00 0.000-00 0.000-00 0.000-00 4.000-2 3.200-00 | 4.00-00 0.000-00 0.001-00 0.001-00 2.0617 2.0616 4.405.06 1.076.05 4.507-01 0.000-00 0.000-00 1.046.06 5.06168 8.706.06 2.662.05 | 438/43 608/40 538/40 538/40 538/40 538/40 538/40 538/40 538/40 | 4.328-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 4.538-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 8.20(-05 5.00(-00)5.00(-00)5.00(-00)5.00(-00)5.00(-00)5.00(-00)5.00(-0005.00(-0005.00(-0005.00(-0005.000(-0005.000(-0005.000(-0005.000(-0005.000(-0005.0000000000 |
| 5.005-08 0.002-08 0.002-00 0.007-00 3.296-20 4.055-28 7.776-28 2.446-38 | \$.008-05 0.008-06 0.008-00 0.008-06 \$178-08 6.06E-07 1.06E-06 2.50E-06 | \$008-63 0.008-06 0.008-00 0.008-00 0.008-00 0.008-00 1.456-11 4.868-09 | 1.008-08 0.008-08 0.008-08 0.008-08 9.576-17 1.475-16 0.096-16 1.696-15 | 500-03 4000-05 5000-05 5000-05 5000-05 5000-06 5000-06 | 3.001-03 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 5.008-03 0.008-06 0.008-00 0.008-00 0.008-00 0.008-00 0.008-06 0.648-15 |
| 5.52(+08 0.00(+00 0.00(+00 0.00(+00 4.42)5.00 4.76(-09 1.005-08 2.30)5.08 5.09(+08 0.00(+00 0.000(+00 0.00(+00 0.12)5.20 0.62)5.05 1.405-08 0.100-08 | 5.525-03 0.005-00 0.005-00 0.005-00 3.546.08 5.325-07 0.505-07 2.005-06 6.096-03 0.005-00 0.005-00 0.006-00 2.546.08 6.016-07 6.395-07 1.475-06 | 5.52(+0) 0.00(+00 0.00(+00 0.00(+00 0.00(+00 0.00(+00 2.966-0 5.996.09 6.090+00 0.000+00 0.000+00 0.000+00 0.000+00 3.567-10 5.2%.09 | 5.525-00 0.006-00 0.006-00 0.008-00 5.786.17 5.386-06 0.556-06 0.908-00 0.008-00 0.008-00 0.008-00 2.346-06 1.426-05 0.266-03 4.706-05 | 5.52F-03 000E-00 0.70E-00 0.00E-00 0.00E-0000000000 | 5.521+03 0.005+0000000000 | 5.526-03 6.005-00 0.005-00 0.008-00 0.005-00 0.005-00 0.2235.17 6.095-03 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.755-06 |
| 6.736+03 0.000+00 0.000+00 0.000+00 1.000-19 Lind-18 2.266-18 5.700-18 | 6.718+03 0.00E+00 0.00E+00 0.00E+00 1.72E-08 2.8ME-07 4.8ME-07 1.11E-06 | 6.736+63 0.00E+08 0.00E+00 0.00E+00 0.00E+00 0.00E+00 6.00E-11 5.09E-29 | 6716+03 0.000+00 0.000+00 0.000+06 2.628-16 1.252-15 1.762-15 1.108-14 | 6.736-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 5.736+05 0.00E+06 0.00E+06 0.00E+06 0.00E+06 0.00E+06 0.00E+06 | 5.73E+60 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.92E-15 |
| 7 A3(2+0) 0.00(+00 0.00(+00 0.00(+00 2.001-19 3.442-10 6.482-10 1.852-17 8.30(+0) 0.00(+00 0.00(+00 0.00(+00 0.2001-19 6.010) 1.90(-17 0.00(-17 | 7486-05 0.005-00 0.005-00 0.008-00 9.286.09 1.946.07 3.648.07 7.856.07 8.208-05 0.008-00 0.008-00 0.008-00 4476.09 1.166.07 2.956.07 9.966.07 | 7A80-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 6.000-11 1.096-08 8.300-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 7.110.11 8.866.09 | 740-00 0.000-00 0.000-00 0.000-00 0.000-00 0.276-05 0.346-05 0.526-04 8.208-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-05 0.000-04 0.000-04 | 7432-00 0.002-000-000 0.002-0000000000 | 7.482-02 0.002-0000000000 | 7.435-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 1.475-14 8.308-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 1.588.15 |
| 8.208+05 0.008+00 0.008+00 0.008+00 5.296-19 6.876-18 1.296-17 3.008-17 9.068+09 0.008+00 0.006+00 0.006+00 3.128-18 2.325-17 3.246-17 4.668-17 | 8.20E+05 0.00E+00 0.00E+00 0.00E+00 4.47E-09 L15E-07 2.35E-07 5.90E-07 8.06E+09 0.00E+00 0.00E+00 0.00E+00 2.05E-09 7.02E-08 1.40E-07 3.46E-07 | 8.20E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 7.518-13 5.558-09 8.06E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 5.258-13 1.488-08 | 8.20E-03 0.30E-00 0.00E-00 0.00E-00 0.00E-00 0.886-05 1.340-04 2.586-04 8.06E-05 0.00E-00 0.30E-00 0.00E-00 8.806-05 4.986-04 7.356-04 2.596-03 | 8.20E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 8.06E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 8.20E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 8.26E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 8.20E-03 0.00E-00 0.00E-000E-0 |
| 1.008-04 0.002-00 0.002-00 0.008-00 3.346-19 2.536-07 4.656-07 1.258-16 | L00E+04 0.00E+00 0.00E+00 0.00E+00 0.55E-10 0.04E-08 0.12E-08 1.94E-07 | 100E-04 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.46E-11 1.19E-0E | L002-04 0.002-00 0.002-00 0.002-00 0.462-15 0.402-14 1.352-13 2.636-13 | LOR-04 COR-00 DIGE-00 DIGE-00 DIGE-00 DIGE-00 DIGE-00 DIGE-00 | LOUE-04 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | L00E-04 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.72E-12 |
| 1.005-04 0.005-00 5.005-00 0.005-00 2.095.18 2.135.17 3.445.17 8.645.17 1.305-04 0.005-00 0.005-00 1.095.18 1.065.17 8.05.17 8.055.17 | 1008-04 0.008-00 0.008-00 0.008-00 8.555.20 8.865.08 8.126.08 1.965.07 1.09-04 0.009-00 0.009-00 0.096.10 1.965.08 4.186.08 1.096.07 | 1202-04 0202-00 0202-00 0202-00 0202-00 0202-00 1405-01 1205-08 1202-04 0202-08 0202-08 0202-08 0202-08 0202-08 1205-08 | 100-04 0.00-00 0.001-00 0.001-00 1.0014 1.00143 1.00143 1.00143 1.00-04 4.075.07 4.546.04 1.00143 1.646.04 9.075.04 1.466.03 1.00143 | 1.00F-04 2.00F-00 5.00F-00 5.00F-00 5.00F-00 5.00F-00 5.00F-00 1.00F-00 5.00F-00 5.00F-000F-00 5.00F-00 5.00F-00 5.00F-00 5.00F-00 5.00F-00 5.00F-00 5.00F-0 | 1200-04 0300-00 0300-00 0300-00 0300-00 0300-00 0300-00 0300-00 1300-00 0300-00 0300-00 0300-00 0300-00 0300-00 | 1005-04 8305-00 5305-00 5305-05 2305-00 5305-00 5305-00 1735-12 1355-04 5305-00 5305-00 5305-00 2305-00 5305-00 1545-11 |
| 1.225+04 0.006+00 0.006+00 0.006+00 2.186-18 2.286-17 3.916-17 1.096-16 | 1.22E+04 0.00E+00 0.00E+00 0.07E+00 1.07E+00 9.66E-09 1.99E-08 5.93E-08 | 1.228-04 0.008-06 0.008-00 0.008-00 0.008-00 0.008-00 4.138-11 1.246-08 | 1220-04 1525-06 1276-05 2346-05 1486-04 7.865-04 1355-03 2.865-03 | 1.225-04 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1,228-04 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 | 1226-04 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 4.986-01 |
| 1352-04 0.000-00 0.000-00 0.000-00 5400-10 1.745-17 6.945-17 1.125-16 1.400-04 0.000-00 0.000-00 0.000-00 2.535.18 0.568.17 6.775.17 1.405.16 | 1382-04 0.002-00 0.002-00 0.002-00 1465-11 4165-05 1005-08 1375-08 1492-04 0.002-00 0.002-00 0.002-00 8495-12 1592.06 4275.06 1815.08 | 1352-04 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 1716-11 9.096-09 1490-04 0.002-00 0.002-00 0.002-00 0.002-00 5.428-00 5.385-12 9.946-09 | 136-04 2096-06 2076-05 1486-05 2576-04 1106-03 1596-03 1586-03 1486-04 2546-08 1426-05 12786-05 2546-04 1406-03 2016-03 1276-03 | 135-04 0.00-00 0.00-00 0.00-00 0.00-00 0.00-00 0.00-00 0.00-00 0.00-00 0.00-00 | 139-04 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 | 1356-04 0.000-06 0.000-06 0.000-06 0.000-06 0.000-06 13540-05 1490-04 0.000-06 0.000-06 0.000-00 0.000-06 0.000-06 4.170-05 |
| 1.646+04 0.008+00 0.008+00 0.008+00 2.698-17 2.028-16 3.958-16 7.678-16 | 1.64E-04 0.00E-00 0.00E-00 0.00E-00 2.14E-12 5.61E-00 1.71E-08 7.71E-08 | 1445-04 0.002-00 0.002-00 0.002-00 0.002-00 6.576-00 4.636-02 1.036-08 | 1440-04 6450-19 5040-17 2.980-16 1.450-14 1.420-13 1.570-13 3.540-13 | 1446-04 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1446-04 0.006-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1645-04 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 1.005-09 |
| 1.818+04 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.17E-19 1.07E-19 5.416-19 2.00E+04 0.00E+00 0.00E+00 0.00E+00 2.23E-38 0.818-19 7.02E-19 2.20E-18 | 1216-04 0308-00 6576-20 4366-17 5246-13 1306-30 6308-30 1228-09 2008-04 0308-00 4276-19 1576-17 1228-13 5508-11 2238-30 1428-09 | 1812-04 0202-00 0205-00 0205-00 0202-00 1215-19 2495-12 1265-08 2202-04 0202-00 0205-00 0205-00 0206-00 0206-00 0297-0 1265-0 | 1312-04 0.002-00 0.002-00 6.705-15 4826-17 2.725-26 4176-26 1112-25 2000-04 0.002-00 0.002-00 0.005-00 3.136-17 1412-36 3.538-36 1.432-25 | 1812-04 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 2001-04 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 | 1822-04 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 1.002-04 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1318-04 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 1788-09 2.000-04 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 2.842-09 |
| 100-07 200-00 ED00-00 ED00-00 ED0-07 200-05 2200-08 | 1000-00 1000-00 12/017 12/01/1 12/01/1 12/00-01 12/06-00 14/04/09 | 196-17 196-17 196-17 196-17 196-17 196-17 196-17 | LANCE CARE CARE CARE LARCE LARCE 1410-18 1500-18 1410-18 | 1984-97 1984-97 1984-97 1984-97 1984-97 1985-97 1985-97 | LARTY CARTO DARTA CARTA DARTA CARTA CARTA | 2.00-0 1.00-0 COLON COLON 2.00-0 COLON CAR-0 2.00-0 |

| Sen P | het . | Of Percent | LOID Parcian | 1010 Factors | tin facor | 1915 Parcantila | Sughate Concentration Time Ivean | n in grounds | ing ing to | 10th Percent | 10th Parriet | SOB Parties | tin Parties | 100 Parcantile | Zec Concentration Time Ivean | e in grounds lat Percenti | atur (reg/l) | IOB Percent | Som Percen | 10th Parcent | tich Percen | THE Party |
|-------|------------------|------------|--------------|--------------|------------|-----------------|--|--------------|-------------------|--------------|--------------|-------------|-------------|----------------|------------------------------------|------------------------------|--------------|-------------|----------------------|--------------|-------------|-----------|
| | 00-30 | 0.008-00 | | 0.005-00 | 0.006-00 | 0.005-00 | 0.008-00 | 0.006+00 | 0.308+30 | | 0.006-00 | | 0.008-00 | | 0.008-00 | 0.005-00 | 0.000+000 | 0.001-00 | | 0.006+00 | 0.008-00 | 0.006+0 |
| | 00-33 | 0.008-00 | 4.008-00 | 0.008-00 | 0.008-00 | 0.000-00 | 1.008-00 | 0.008-00 | 0.508-50 | 0.008-00 | 7.086-16 | 1.68-13 | 1405-13 | 1.166-12 | 1.008-00 | 4.005-00 | 0.006+00 | 6.002-00 | 0.005-00 | 0.008+00 | 0.008-00- | -0.000-0 |
| | 00-30 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008+00 | 2.008+00 | 0.008+00 | 0.002+00 | 0.008+00 | 1228-09 | 7.586-67 | 1.428-06 | 3.495-06 | 2.008-00 | 6-008-00 | 0.008+00 | 0.006-00 | 0.008+00 | 0.008 +00 | 0.008-00 | 0.000+0 |
| | 00+300 | 0.008-00 | 0.008-00 | 0.008+00 | 0.006+00 | 2.008+00 | 3.008-00 | 0.00(+00 | 0.008-00 | 4.128-09 | 1.186-05 | 1.428-04 | 2.038-04 | 4.646.04 | 8.006-00 | 0.008-00 | 0.006+00 | 0.008-00 | 0.006-00 | 0.008+00 | 0.008-00 | 0.006+0 |
| | 05-00 | 0.008-00 | 0.005-00 | 0.005+00 | 0.006+00 | 0.005+00 | 4.008+00 | 0.006-00 | 2.015-06 | 1425-05 | 4,495,04 | 2,856-08 | \$235-03 | 9.996-03 | 8.005+00 | 0.005-00 | 0.000+00 | 0.000-00 | 0.005-00 | 0.005-00 | 0.008-00 | 0.005+0 |
| | 00-00 | 0.000-00 | 1000-00 | 0.000+00 | 0.000+00 | 0.000-00 | 5.000-00 | 1455-04 | 2 256.68 | 1195-04 | 1306-01 | 128-02 | 6.745.00 | 3.868-02 | 5.005-00 | 2000-00 | 0.000+00 | 0.000+00 | 0.000-00 | 0.000+00 | 0.000-00 | 0.000+0 |
| 0.0 | 00-30 | 0.006-00 | 0.005-00 | 0.006+00 | 0.006+00 | 0.006-00 | 7.005+00 | 2.966-03 | 4.716-08 | 6.415-00 | 2,326-02 | 7.718-40 | 9.948-00 | 1.525-01 | 7.006-00 | 0.005-00 | 0.006+00 | 0.001-00 | 0.005-000 | 0.006+00 | 0.008-00 | 0.006+0 |
| | 00-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.005-00 | 0.008-00 | 8.008-00 | 1.015-01 | 5.118-09 | 6.546-02 | 2.726-02 | 1.596-02 | 1176-01 | 1.656-01 | 8.005-00 | 0.000-00 | 0.006+00 | 0.008-00 | 0.005-00 | 0.006-00 | 0.008-00 | 0.006+0 |
| | 00-33 | 0.000-00 | 0.005-00 | 0.008-00 | 0.005-00 | 0.000-00 | 5.005-00 | 2.586-08 | 4.346-03 | 6.158-00 | 2.4%6-02 | 7,856-62 | 1.078-01 | 1.528-01 | 9.008-00 | 0.008-00 | 0.008+00 | 0.000-00 | 0.005-00 | 0.008-00 | 5.008-00 | 0.000+0 |
| | 00-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.000-00 | 1.006-00 | 2.426-03 | 1305-08 | 5146-09 | 2.096-02 | 1.896-02 | 8.998-00 | 1.296-01 | 1,000-00 | 0.008-00 | 0.008+00 | 0.000-00 | 0.000-000 | 0.008+00 | 0.008-00 | 0.000+0 |
| | 05-00 | 0.008-00 | 0.005-00 | 0.005-00 | 0.008-00 | 0.005-00 | 1.808-00 | 2 256-03 | 1405-01 | 468.01 | 1.636-02 | 5.696-02 | 7.905-02 | 3 306-01 | 1.008-01 | 0.005-00 | 0.006+00 | 0.001-00 | 0.005+00 | 0.005+00 | 0.008-00 | 0.005+0 |
| | 05-00 | 0.008-00 | 0.008-00 | 0.005-00 | 0.006-00 | 0.005-00 | 1408+01 | 2.196-03 | 1.116-00 | 4425-01 | 1 806-02 | 5.618-02 | 7.858-02 | 1.096-01 | 1.408-02 | 0.005-00 | 0.006+00 | 0.006-00 | 0.005-00 | 0.005+00 | 0.008-00 | 0.000+0 |
| | 08-00 | 0.005-00 | 0.005-00 | 6.008-00 | 0.005-00 | 0.005-00 | 168-01 | 2 166-03 | 1.266-62 | 4 585-00 | 1.746-02 | 5.516-02 | 768.40 | 1.006-01 | 1.605-01 | 0.005-00 | 6.005+00 | 0.005-00 | 0.005-00 | 6.008-00 | 0.008-00 | 0.000-0 |
| | 08-00 | 0.008-00 | 0.008-00 | 0.000-00 | 0.006+00 | 0.000+00 | 1.808-05 | 2.548-08 | 1,298-00 | 4.585-00 | 1,768-02 | 5.518-02 | 7.638.402 | 1.088-01 | 1.508-01 | 0.008-00 | 0.000+00 | 0.000-00 | 0.008-00 | 0.000+00 | 0.008-00 | 0.008-0 |
| 0.0 | 00+300 | 0.005+00 | 0.005+00 | 0.005-00 | 0.006-00 | 0.006-00 | 1.905+00 | 2.056-01 | 1218-08 | 4.338-03 | 1,706-02 | 1.316-02 | 7.346-00 | 1.066-01 | 1.906-01 | 0.005+00 | 0.006+00 | 0.006-00 | 0.005+00 | 0.005+00 | 0.005-00 | 0.006-4 |
| | 05+00 | 0.005-00 | 0.005-00 | 0.005+00 | 0.006-00 | 0.005+00 | 2.106+01 | 2.018-03 | 3.205-02 | 4.285-03 | 1.668-02 | \$ 176-02 | 7.208-62 | 1.046-01 | 2.305-01 | 0.005-00 | 6.006+00 | 0.005-00 | 0.005-00 | 5.50E+00 | 0.005-00 | 0.005+ |
| | 08+00 | 0.908-00 | 0.008-00 | 0.008+00 | 0.005-00 | 0.006-00 | 2.308+01 | 1.946-03 | 1.098-09 | 4.138-03 | 1.625-02 | 5.078-02 | 7.188-02 | 1.0H-01 | 2.508=01 | 0.008-00 | 0.006+00 | 0.006-00 | 0.008+00 | 0.008+00 | 0.008-00 | 9.008- |
| | 00-30 | 0.008-00 | 0.008-00 | 0.008-00 | 0.000-00 | 0.008-00 | 2.678-03 | 1.875-03 | 2,946-00 | 4.625-00 | 1576-02 | 4,998-02 | 6.958-02 | 1.016-01 | 2.608+03 | 2.005-00 | 0.008-00 | 0.008-00 | £-008-00 | 0.008-00 | 0.008-00 | 0.000- |
| | 00-00 | 0.000-00 | 0.000-00 | 0.000-00 | 0.000+00 | 0.000-00 | 1,200,400 | 1 34.03 | 2,776,49 | 178.01 | 1506-02 | 4.558.02 | 4576-02 | 9,726-02 | 2,000,400 | 2,005-00 | 0.000+00 | 0.000+00 | 0.000-00 | 0.000+00 | 0.000-00 | 0.000- |
| | 06-00 | 0.000-00 | 2.005-00 | 0.005-00 | 0.000-00 | 0.000-00 | 3500-00 | 1.636-03 | 2.686-09 | 1615-00 | 1.456.42 | 4.516-02 | 6.105.00 | 3,496,62 | 3.500+00 | 0.005-00 | 0.000+00 | 0.008-00 | 0.005+00 | 0.000-000 | 0.000-00 | 2.000- |
| - 0.0 | 00+30 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008+00 | 0.006-00 | 3.908+00 | 1346-03 | 2.596-03 | 1.496-03 | 1.406-02 | 4,296,422 | 6.118-02 | 9.268-02 | 3 906+00 | 0.008-00 | 0.000+00 | 0.008-00 | 0.006+00 | 0.008-00 | 0.008-00 | 0.000- |
| | 06+00 | 0.005-00 | 0.005-00 | 0-008-00 | 0.008+00 | 0.006+00 | 4.308-00 | 1458-03 | 2.446-03 | 8.168-00 | 1.858-02 | 4.236-02 | 5.858-00 | 9.006-02 | 4.305-00 | 0.005-00 | 0.008+00 | 0.008-00 | 0.006-00 | D-00E+00 | 0.008-00 | 0.000+ |
| | 05-00 | 0.005-00 | 0.005-00 | 0.006-00 | 0.006-00 | 2.005+00 | 4.705+00 | 1.816-03 | 2,285,08 | 8 166-09 | 1.306-02 | 4.056-02 | 5.646-00 | 8.725-02 | 4.706+00 | 0.005-00 | 0.005+00 | 0.005-00 | 0.005+00 | 0.005+00 | 0.005-00 | 0.006+0 |
| 0.0 | 05+00 | 0.005-00 | 0.008-00 | 0.005-00 | 0.006-00 | 0.008+00 | 5.298+05 | 1,215-03 | 2.128-09 | 2.998-00 | 1.288-02 | 5.896-02 | 5.388-02 | 8.468-02 | 5.206+00 | 0.005+00 | 0.006+00 | 0.008-00 | 0.006-00 | 0.006-00 | 0.008-00 | 1.008-0 |
| | | | | | | | | | | | | | | | | | | | | | | |
| | 00-30 | 0.008-00 | 0.008-00 | 0.006-00 | 0.006-00 | 0.006-00 | 5.708-01 | 1046.03 | 2018-48 | 2.7%(-00 | 1116-02 | 178.42 | 5.106-00 | 8.096-02 | 5.706-05 | 0.005-00 | 0.008+00 | 0.008-00 | 0.008-00 | 0.006-00 | 0.008-00 | 0.000+0 |
| | 00-30 | 0.008-00 | 0.008-00 | 0.005-00 | 0.006-00 | 0.005+00 | 6.405-01 | 5.00.04 | 1,785-09 | 2.548-00 | 1.086-02 | 1.536-02 | 4.816-02 | 7.836-02 | 6.405-01 | 0.008-00 | 0.006+00 | 0.006-00 | 0.005-00 | 0.008-00 | 0.008-00 | 0.000+ |
| | 105-00 | 0.008-00 | 0.005-00 | 0.006-00 | 0.008-00 | 0.005-00 | 7.808-05 | 5.525-04 | 1.555-08 | 2,258-00 | \$348-02 | 1.208-02 | 4.296.00 | 7.185-02 | 7.808-00 | 0.005-00 | 0.008-00 | 0.001-00 | 0.008-00 | 0.006+00 | 0.008-00 | 0.000- |
| | 00-30 | 0.000 -00 | 0.008-00 | 0.005-00 | 0.006-00 | 0.005-00 | 8.605-01 | 4,728-04 | 1.196-09 | 2.005-00 | 1.766-03 | 1.056-02 | 4.055-00 | 6.738-62 | 8.606-05 | 0.005-00 | 0.000+000 | 0.005-00 | 0.005-00 | 0.005-00 | 0.008-00 | 0.005+ |
| | 00-33 | 0.008-00 | 0.008-00 | 0.006-00 | 0.008-00 | 0.008-00 | 9.506-01 | 4.075-04 | 1,226-09 | 1.876-08 | 8.246-01 | 2.896-02 | 3.796-02 | 6.418-02 | 9,508+01 | 0.005-00 | 0.008+00 | 0.005-00 | 0.005-00 | 0.006-00 | 0.000-00 | 5.000- |
| | KE+00 | 0.008-00 | 0.006-00 | 0.006+00 | 0.005-00 | 0.008-00 | 1.058-02 | 2.906-04 | 1.306-88 | 1.676-00 | 7.625-03 | 2.716-82 | 3 568-02 | 6.058-02 | 1.058-02 | 0.005-30 | 0.006+00 | 0.006-00 | 0.006+00 | 0.008+00 | 0.006-00 | 0.006- |
| | 00+300 00+300 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008+00 | 1.368-02 | 1 525-04 | 5.516-04 | 1.806-03 | 7.012-08 | 2.516-02 | 3.338-00 | 5.488.42 | 1.348-00 | 0.008-00 | 0.008+00 | 0.008-00 | 0.008-00 | 0.008+00 | 0.008-00 | 0.008-4 |
| | KE+00 | 0.008-00 | 0.008-00 | 0.008+00 | 0.008+00 | 0.008-00 | 1.408-00 | 1.015-04 | 6.288-04 | 1,108-09 | 5.456-01 | 2.076-02 | 3.348-00 | 4.886-02 | 1.408-00 | 2.008-00 | 0.000+00 | 0.000-00 | 0.008-00 | 0.008+00 | 0.008-00 | 8.036- |
| | 88-00 | 0.008-00 | 0.008-000 | 0.008-00 | 0.008-00 | 1.008.400 | 1.948-02 | 1471-05 | 8,782,04 | 1 10 00 | 4 146 (1) | 1.846.02 | 2.606-00 | 4 488 02 | 1.566+02 | 0.008-00 | 0.008+00 | 0.000+00 | 5.008 400 | 0.008+00 | 0.008-00 | 2.718. |
| 0.0 | 00+300 | 0.008-00 | 0.000 -00 | 0.006+00 | 0.006-00 | 0.008-00 | 1.708-00 | 4,306.05 | 1.456-04 | 7.206-04 | 4,346-03 | 1.646-07 | 2.2%6-02 | 4.066.02 | 1.728-02 | 0.005-00 | 0.006+00 | 0.006-000 | 0.000 -000 | 0.008+00 | 0.008-00 | 4.046- |
| | 00+30 | 0.008-00 | 0.005-00 | 0.006-00 | 0.006-00 | 0.005-00 | 1.906-02 | 2.546-05 | 2.566-04 | 5.815-04 | 3.6%-03 | 1.436-62 | 2.046-02 | 3.646-02 | 1.908-02 | 0.005-00 | 0.006+00 | 0.001-00 | 0.005-00 | 0.006+00 | 0.008-00 | 1.646-0 |
| | 00-00 | 0.006-00 | 0.006-00 | 0.006-00 | 0.006+00 | 0.006-00 | 2.308-02 | 1.156-05 | 1,816-04 | 4.505-04 | 3218-08 | 1.266-02 | 1.856-02 | 3.298-02 | 2.306-02 | 0.005-00 | 0.006+00 | 0.008-00 | 0.008-00 | 0.006-00 | 0.008-00 | 8.638-0 |
| | 00-00 | 0.005-00 | 0.000-00 | 0.008-00 | 0.005-00 | 0.000-00 | 2.828=02 | 4.782-06 | 1,295-04 | 3.318-04 | 2.706-08 | 1.076-02 | 1.956-02 | 2.958-02 | 2.828-02 | 0.005-00 | 0.000+00 | 0.006-00 | 0.005-00 | 0.008-00 | 5.008-00 | 1.625- |
| | 00-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 1.008-00 | 2 828-02 | 6.358-07 | 4.425-05 | 1.605-04 | 1,786-03 | 7.516-00 | 1.146-02 | 2,335-02 | 2.825-02 | 1.005-00 | 0.000+00 | 0.005-00 | 0.008-00 | 0.006-00 | 0.008-00 | 4,095-0 |
| 0.0 | 00-30 | 0.008-00 | 0.005-00 | 0.005-00 | 0.0001-000 | 0.006-00 | 8.006-02 | 2 076-07 | 2.506-26 | 1.025-04 | 1.396-08 | 6.515-09 | \$ 405-03 | 3.806-02 | 3 006-02 | 0.005-00 | 0.005+00 | 0.006-00 | 0.000 -000 | 0.005-00 | 0.008-00 | 7 166-0 |
| 0.0 | 06+00 | 0.005-00 | 0.005-00 | 0.005-00 | 0.005-00 | 0.006-00 | 8128-00 | 6.495-00 | 1.415-25 | 6.658-05 | 1058-08 | 5.415-20 | 7.458-03 | 1.546-02 | 8.125+02 | 0.005-00 | 0.006+00 | 0.005-00 | 0.005-000 | 0.005-00 | 0.005-00 | 1.106-0 |
| | 00+30 | 0.005-00 | 0.008-00 | 0.008+00 | 0.005-00 | 0.006-00 | 3.446+02 | 2.106-08 | 6.658-06 | 1375-05 | 7.742-04 | 4.436-08 | 6.075-00 | 1.256-02 | 3.446-02 | 0.005-00 | 0.005+00 | 0.005+00 | 0.005+00 | 5.008+00 | 0.005-00 | 2.166-0 |
| | 06+00 | 0.906-00 | 2.008-00 | 0.005+00 | 0.006+00 | 9.908-90 | 3.806+02 | 6.075-09 | 2.848-06 | 2346-05 | 5.625-04 | 1496-00 | 4.806-02 | 1.058-02 | 3.806~02 | 0.005-30 | 0.005+00 | 0.006+00 | 0.006-00 | 0.005+00 | 0.006-00 | 3.1944 |
| | 00-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.006+00 | 4.308-02 | 1576-09 | 1.155-06 4.695-17 | 1.140-05 | 4.046-04 | 2 646-09 | 3 855-03 | 8.738-08 | 4.206-02 | 0.005-00 | 0.000+00 | 0.008-00 | £-008-00 £-008-00 | 0.008-00 | 0.008-00 | 2.568-0 |
| | 00-33 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 5.128-02 | 1.015-10 | 1.778-07 | 1.128-06 | 2166-04 | 148-0 | 2.416-00 | 6315-01 | 5.128-92 | 0.000-00 | 0.005+00 | 0.006-00 | 0.000-00 | 0.008-00 | 0.008-00 | 1.556-4 |
| 0.0 | 00-00 | 0.008-00 | 0.008-00 | 0.006+00 | 0.008-00 | 0.006+00 | 5.655-02 | 3 436-13 | 3.416-08 | 1.905-06 | 1.625-04 | 1,336-69 | 2.048-03 | 5.286-01 | 5.658-02 | 0.005-00 | 0.006+00 | 0.008-00 | 0.005+00 | 0.006+00 | 0.008-00 | 3.856-0 |
| | 00+30 | 0.006-00 | 0.006-00 | 0.006-00 | 0.00(+00 | 0.006-00 | 6.246+02 | 1146-11 | 4,305-08 | 9.296.47 | 1176-04 | 1.016-09 | 1.425.03 | 4,246,03 | 6.246+02 | 0.008-00 | 0.006+00 | 0.006-000 | 0.006+00 | 0.008-00 | 0.008 -00 | 3,990- |
| | 06+00 | 0.008-00 | 0.006-00 | 0.006+00 | 0.006-00 | 0.005-00 | 6.8% -00 | 1,506-12 | 1.326-06 | 1376-07 | 6.296-05 | 7,348-04 | 11%-0 | 3.196-03 | 6.896-02 | 0.005-00 | 0.008+00 | 0.000-000 | 0.006-00 | 0.005+00 | 1.025-15 | 1.9464 |
| | 00+33 | 0.008-00 | 0.008-00 | 0.005-00 | 0.008-00 | 0.005+00 | 7.625+02 | 1.425-13 | 3.716-09 | 1208-07 | 3,848-05 | 5.105-04 | 7725-04 | 2.296-03 | 7.616-02 | 0.005-00 | 0.005+00 | 0.005-00 | 0.005-00 | 0.008-00 | 4.268-14 | 4.5754 |
| | 00+00 | 0.008-00 | 0.008-00 | 0.005-00 | 0.008-00 | 0.000-00 | 8 286 402 | 1.108-14 | 1.625-00 | 14/5-08 | 108-05 | 2.346-04 | 5.128-04 | 1.066-08 | 9.285-02 | 2.005-00 | 0.008+00 | 0.000-00 | 0.000-00 | 0.005+00 | 8.105-12 | 7.215- |
| | 105-00 | 0.008-00 | 0.008-00 | 0.005-00 | 0.006-00 | 0.005+00 | 1.005-00 | 2.005-14 | 4.485-11 | 2.346-09 | 4.512-06 | 1.065-04 | 1.995-04 | 6.565-04 | 1.006-03 | 0.005-00 | 0.000+00 | 0.005-00 | 0.005-00 | 0.000-00 | 1.005-11 | 6.2624 |
| | KE-00 | 0.908-00 | 0.008-00 | 0.006-00 | 0.006-00 | 0.006+00 | 1.028+08 | 1.835-14 | 5.005-11 | 9.528-10 | 2.006-06 | 7278-05 | 1,258-04 | 4.075-04 | 1.008-08 | 0.008-00 | 0.006+00 | 0.006-00 | 0.008-00 | 0.006+00 | 5.636-13 | 5.396-0 |
| | 08+00 | 0.008-00 | 0.006-00 | 0.006+00 | 0.005-00 | 0.006-00 | 1.138-05 | 6.542-14 | \$ 066-11 | 4.655-10 | 8.158-47 | 1.788-05 | 7.328-05 | 2.396-04 | 1.1.36=00 | 8.006+90 | 0.006+00 | 0.008-00 | 8-006-00 | 0.006+00 | 7.906-11 | 5 552-0 |
| | 00+30 | 0.008-00 | 0.008-00 | 0.008 -00 | 0.006+00 | 0.006+00 | 1.256+03 | 2.446-14 | 2.196-11 | 1.828-10 | 3.428-47 | 2.018-05 | 3.682.05 | 1.338-04 | 1.256-03 | 0-008-00 | 0.006+00 | 0.006-00 | 6-008-00 | 0.008+00 | 3.186-12 | 5.8264 |
| | 06-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.006+00 | 1.538-03 | 6.308-14 | 1.008-01 | 7.996-13 | 3,386-06 | 9.952-06 | 1.888-05 | 8.828-05 | 1.538-03 | 2.005-00 | 0.000+00 | 0.008-00 | 0.008-00 | 0.006-00 | 1.008-09 | 5.586-0 |
| | 06-00 | 0.008-00 | 0.008-00 | 0.000-00 | 0.008-00 | 0.008-00 | 1.686-03 | 2.158-15 | 1.186-12 | 1.638-13 | 1,046-08 | 1118-06 | 4.82.06 | 1.806-05 | 1.686-03 | 0.008-00 | 0.000+00 | 0.008-00 | 0.008-00 | 0.008-00 | 2,306-09 | 5.2764 |
| | 00-30 | 0.008-00 | 0.008-00 | 0.006-00 | 0.008-00 | 0.006-00 | 1.868-03 | 1 406-15 | 4.546-03 | 2 828-12 | 4106-09 | 1.168-06 | 2.838-06 | 3.084-05 | 1.867-03 | 0.00(-00 | 0.008+00 | 0.008-00 | 0.000 -00 | D 008-00 | 1.608-05 | 5.662-0 |
| | 00+30 | 0.008-00 | 0.005-000 | 0.005-00 | 0.001-00 | 0.000-00 | 2.056+03 | 6.205-06 | 1.165-03 | 7,948-13 | 1.856-09 | 6.416-07 | 1.746-06 | 7.306-04 | 2.056+03 | 0.005-00 | 0.006+00 | 0.001-00 | 0.005+00 | 0.005-00 | 4.875-09 | 5.825-0 |
| | 06+00 | 0.005-00 | 0.008-00 | 0.005-00 | 0.005-00 | 0.006+00 | 2.268+00 | \$ 596-17 | 2.796-04 | 1.656-13 | 3.206-10 | 2.276-87 | 6.796-07 | 2.896-06 | 2.266+01 | 0.005-00 | 0.000+00 | 0.005-00 | 0.008.400 | 0.006+00 | 6.818-09 | 5.286- |
| | KE+00 | 0.006-00 | 0.006-00 | 0.005+00 | 0.000-00 | 0.000-00 | 2.508+00 | 2.568-14 | 7 828-85 | 6.898-14 | 3.736-11 | 6.795-08 | 2.496-07 | 1.168-06 | 2.506=00 | 8.008-00 | 0.008+00 | 6.006-00 | 0.005-00 | 0.008+00 | 5.538-09 | 4.552- |
| | 00-30 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.000-00 | 2.768+08 | 108-00 | 1,048-06 | 1.54E-15 | 2.158-12 | 4546-08 | 2.396-08 | 3.896-07 | 2.768-03 | 0.008-00 | 0.008+00 | 0.008-00 | 5-00E-00 0-00E-00 | 0.008-00 | 4,018-09 | 4.5624 |
| | 00+30 | 0.008-00 | 2.006-00 | 0.000 -00 | 0.000-00 | 0.000-00 | 3 058-03 | 0.008-00 | 0.008-00 | 7.798-18 | 2.966-13 | 8.896-10 | 6.3/8-05 | 3.256-08 | 3.056-03 | 1.005-00 | 0.000+00 | 6.004-00 | 0.000-00 | 0.505+00 | 5.836-05 | 3.635 |
| 0.0 | 0E+00 | 0.008-00 | 9-008-00 | 0.008+00 | 0.008-00 | 0.008-00 | 3.348-03 | 0.006+00 | 0.005+00 | 0.008-00 | 2,608-04 | 1.908-00 | 1.328-09 | 8.318-09 | 3.346-05 | 6-008-00 | 0.000+000 | 0.006+00 | 0.008+00 | 2.896-19 | \$.718-09 | 4.005 |
| | 06+30 | 0.006-00 | 0.008-00 | 0.008-00 | 0.006-00 | 0.008+00 | 3.728+00 | 0.008+00 | 0.008+00 | 0.008-00 | 5496-05 | 2,546-03 | 2.248-25 | 1.778-09 | 8.726-03 | 0.005-00 | 0.006+00 | 0.008-00 | 2.006-00 | 5.846-08 | 4 968-09 | 2.758 |
| | 00+30 | 0.008-00 | 0.005-00 | 0.005-00 | 0.006-00 | 0.006+00 | 4.10(+0) | 0.006-00 | 0.306-00 | 0.006-00 | 2.496-06 | 1.556-12 | 3.056-13 | 3.246-10 | 4.308-09 | 0.005-00 | 0.006+00 | 0.006-00 | 0.005-00 | 2.346-67 | 2,845-09 | 3.766 |
| | 06-00 | 0.005-00 | 0.005-00 | 5.008-00 | 0.006-00 | 5.028-20 | 4.538-00 | 0.008-00 | 0.005-00 | 0.005-00 | 1.536-15 | 5.136-13 | \$276-12 | 4.496-11 | 4.538-01 | 0.008-00 | 0.008+00 | 0.000-00 | 0.005-00 | 2.318-17 | 2 138-09 | 3.685- |
| | 06+00 | 0.008-00 | 0.005-00 | 0.005-00 | 0.006-00 | 8.662-15 | 5.000-00 | 0.000-00 | 0.008-00 | 0.008-00 | 3146-16 | 5.545-04 | 4905-13 | 5.636-12 | 5.000-00 | 0.000-00 | 0.006+00 | 0.006-00 | 0.005-00 | 9,756-18 | 3 434-15 | 2.906 |
| | 00-33 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 1.796-06 | 6.095-00 | 0.008-00 | 0.008-00 | 5.996-17 | 1.615-15 | 1,356-04 | 5.648-14 | 9.285-13 | 6.098-03 | 0.006-00 | 0.000+00 | 0.000-00 | 0.005-00 | 1.296-17 | 5.048-10 | 2.208- |
| | KE-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.005-00 | 1.925-15 | 6.738-03 | 0.008-00 | 0.008-00 | 0.008-00 | 5.248-16 | 6.908-25 | 1.308-14 | 8.768-14 | 6.736-03 | 0.005-00 | 0.000+00 | 0.006-00 | 0.000-000 | 7.296-38 | 2.855-10 | 1426- |
| | 0E-00 | 0.006+00 | 0.008-00 | 0.008-00 | 0.006+00 | 1478-14 | 7.436+03 | 0.008+00 | 0.005-00 | 0.006+00 | 1.746-1.7 | 9.348-05 | 1.728-14 | 3.875-14 | 7,436-09 | 0.008-00 | 0.008+00 | 0.006-00 | 0.008+00 | 2.758-18 | 1.506-10 | 1.000 |
| | 00+30 | 0.008-00 | 0.008-00 | 0.008-00 | 0.006-00 | 1.152-1.5 | 8.206+03 | 0.006+00 | 0.306-30 | 0.006-00 | 0.008-00 | 8.216-25 | 1.708-14 | 5.488-64 | 8.206-03 | 0.008-00 | 0.006+00 | 0.006-00 | 0.006-000 | 5.465-19 | 8.445-13 | 6.562 |
| | 00+30 | 0.008-00 | 0.008-00 | 0.006-00 | 0.006-00 | 7.768-63 | 9 DKE -08 | 0.006+00 | 0.006-00 | 0.008-00 | 2.536-04 | 1,856-43 | 1856-13 | 9.206-13 | 9.066-03 | 0.006-00 | 0.006+00 | 0.006-00 | 0.005+00 | 2.676-08 | 8,816-11 | 4.526 |
| | 00-30 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 3.738-62 | 1.005-04 | 0.008-00 | 0.008-00 | 0.008-00 | 1162-14 | 2580.03 | 3.708-13 | 7.915-13 | 1,000-04 | 0.005-00 | 0.008+00 | 0.000-00 | 0.006-00 | 5.655-38 | 9.218-12 | 3.836 |
| | 00-00 06-00 | 0.008-00 | 0.008-00 | 0.006-00 | 0.006-00 | 1540-11 | 1.000-04 | 0.008-00 | 0.006-00 | 1.008-00 | 108-14 | 2.536-03 | 1200-13 | 2.538-13 | 1.000-04 | 0.005-00 | 0.006+00 | 0.008-00 | 0.008-00 | 3.665-28 | 9.800-12 | 2.156 |
| | 06-00 | 0.008-00 | 0.008-00 | 0.005-00 | 0.000-000 | 4 905-11 | 1.228-04 | 0.008-00 | 6.096-06 | 2.000-15 | 1505-14 | 1.96-13 | 236143 | 6.566-13 | 1,225-04 | 0.005-00 | 0.006+00 | 0.005-00 | 0.005-00 | 4,296-08 | 1.218-12 | 1.126- |
| | 00-33 | 0.005-00 | 0.008-00 | 0.008-00 | 0.005-00 | 1546-10 | 1.156-04 | 0.005-00 | 2.565-25 | 6.925-15 | 5.158-14 | 2.646-13 | 1715-11 | 1.016-12 | 1.350-04 | 0.005-00 | 0.000+00 | 0.000-00 | 6.005-00 | 5.665-18 | 3.686-13 | 5.762 |
| | 06-00 | 0.906-00 | 0.008-00 | 0.006-00 | 0.000-00 | 4.176-10 | 1.496-04 | 3.816-18 | 1.848-15 | 6.662-15 | 6528-14 | 1228-13 | 4 486-13 | 9.065-13 | 1.490-04 | 0.000-00 | 0.005+00 | 0.000-00 | 0.006-00 | 2.998-17 | 1.046-13 | 2.5264 |
| | 08+00 | 0.008-00 | 0.008-00 | 0.006-00 | 0.008+00 | 3.008-09 | 1.645-04 | 1746-18 | 1.446-16 | 7.342-16 | 3.646-14 | 2,846-18 | 3 415-13 | 7.096-13 | 1.648-04 | 2.006-00 | 0.000+00 | 0.008-00 | 00+300.3 | 1.665-17 | 2.175-14 | 1218-4 |
| | 00-33 | 0.000-00 | 0.008 <00 | 0.008-00 | 0.005~00 | 1.705-09 | 1.818+04 | 0.008-00 | 0.005-00 | 6.462-15 | 1.406-16 | 9.485-26 | 1.525-15 | 3.506-15 | 1.810+04 | 0.005-00 | 0.00E+00 | 0.005-00 | 6.005+00 | 2.176-17 | 5.416-15 | 7.662-1 |
| | 00-30 | 0.005-00 | 0.008-00 | 0.208-00 | 0.008-00 | 2.842-09 | 2.006-04 | 0.008-00 | 0.008-00 | 0.008-00 | 1.58-16 | 1.298-35 | 2.058-15 | 5 (94-15 | 2.008+04 | 0.008-00 | 0.005+00 | 0.008-00 | 0.008-00 | 2.618-37 | 2414-15 | 4.162- |

| stotta Assessing N | Artanic | Cadmium | Churche | Chaner | lest . | Menuty |
|---|---|---|--|---|--|--|
| Concentration in groundwater (mg/) Time Iveard: 2xt Percents Sth Percents. 20th Percent SQh Percent SQh Percent SQh Percent 95th Percentile | Concentration is groundwater [eg/] Time Iveasi Sat Percentil Sh Percenti 20th Percent S0th Percent 90th Percent 99th Percentile | Concentration in groundwater [ing/] Time learn? 2xt Persenti 5th Persenti 20th Persen 30th Persen 30th Persen 35th Persen 39th Persentile | Concentration in proundwater [mg/l] Time locard (at Percent) (d) Percent (20) Percent (20) Percent (20) Percent (20) Percent | Concentration in providuater (mgl) Sime loans! Lit Percenti Sh Percenti 13th Percent 50th Percent 50th Percent 50th Percentile | Concentration in groundwater [eg/] Time [earl] 201 Percent) 5th Percent 30h Percent 50h Percent 90h Percent 99h Percent 89h Percentile | Concentration in groundwater [egil] Time leaves [In Reservant: 5th Percent: 20th Percent 50th Percent 90th Percent 99th Percentile |
| 0.086-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 0.008+00 0.008+00 0.006+00 0.006+00 0.008+00 0.008+00 0.006+00 | 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 0.006-00 0.008-00 0.006-00 0.006-00 0.006-00 0.006-00 0.008-00 | 0.005-00 0.005-00 0.005-00 0.005-00 0.008-00 0.008-00 0.008-00 | 5.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 0.008-00 0.008-00 0.006-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 1088-06 6.065-06 5.065-00 5.058-00 5.058-00 5.058-00 5.058-00 5.058-00 2.058-00 5.058-0005000000000000000000000000000000 | 1.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1005-05 5205-0505-05 | 1.00E+00 6.00E+00 6.00E+00 6.00E+00 6.00E+00 6.00E+00 6.00E+00 2.00E+00 6.04E+5 4.426-17 1.51E-36 6.00E+03 2.54E+13 4.40E+13 8.00E+13 | 1805-00 5305-0005-00 | 1582-00 5392-00 5392-00 5392-00 5392-00 5392-00 5392-00 5392-00 5392-00 5392-00 5392-00 5392-00 5392-00 5392-00 5392-00 5392-00 | 1.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 |
| 00+900 0 00+900 00+900 00+900 00+900 00+900 00-900 00+900 00+900 | 3.008-00 0.088-00 0.088-00 0.088-00 0.088-00 0.088-00 0.088-00 | 500+300 00-300,0 00-300,0 00-300,0 00-300,0 00-300,0 00-300 | 5.005-00 7.345-12 2.725-13 5.745-13 5.355-08 7.425-07 1.185-06 1.636-06 | 1.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 3.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
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| 6.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 6.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 6.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | \$1008-00 1.325-05 3.255-04 8.836-04 6.455-03 2.246-02 2.606-02 3.425-02 | 6.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 6.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 6.002-00 0.005-00 0.005-00 0.006-00 0.005-00 0.005-00 0.005-00 |
| 7.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 8.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 | 7.00E+00 0.00E+00 | 7:00=00 0.00(=0000000000 | 7:006-00 5.616-04 5.625-03 6.996-03 8.396-02 8.296-02 9.526-02 1.386-03 5:006-00 6.976-03 1.276-02 8.426-02 1.016-01 1.916-01 2.516-01 2.516-01 | 7.001+00 0.001+00 0.001+00 0.001+00 0.001+00 0.001+00 0.001+00 8.001+00 0.001+00 0.001+00 0.001+00 0.001+00 0.001+00 | 7.00E-00 0.00E-00 0.00E-000E-0 | 7.00E-00 0.00E-00 0.00E-0000000000 |
| 9,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 | \$.008+00 0.068+00 0.006+00 0.006+00 0.008+00 0.008+00 0.008+00 | 9.005 00-300.0 00-300.0 00-300.0 00-300.0 00-300.0 00-300.0 | 5000-00 4406-02 7,706-02 1000-06 1070-02 1046-01 1046-01 4046-01 | 9.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | \$386-36 5.00E-00 5.00E-00 5.00E-00 5.00E-00 5.00E-00 5.00E-00 | 9.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 |
| 1,000-01 0,000-00 0,000-00 0,000-00 0,000-00 0,000-00 0,000-00 1,000-00 0,000-00 0,000-00 0,000-00 0,000-00 0,000-00 1,110-17 | 1.00E+01 0.00E+00 0.00E+0000000000 | 100E+01 000E+00 000E+00 000E+00 000E+00 000E+00 000E+00 110E+01 000E+00 000E+00 000E+00 000E+00 000E+00 000E+00 | 1997-01 1325-01 1486-01 1992-01 2386-01 4496-01 4396-01 53826-01 1392-01 2346-01 2392-01 2275-01 4392-01 5325-01 6362-01 6962-01 | 1000-01 0000-00 0000-00 0000-00 0000-00 0000-00 1000-01 0000-00 0000-00 0000-00 0000-00 0000-00 | 1081-01 0.082-00 0.002-00 0.082-00 0.092-00 0.002-00 0.002-00 1102-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1002-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 |
| 1.306+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 2.996-17 1.70E-13 | 1.308+01 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 | 1.30E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 1308-41 2786-41 ENE-41 1468-45 4388-41 6396-41 6396-41 | 1.30E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1308-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.308-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 1408-00 0.005-00 0.005-00 0.006-00 1.346-07 1.246-05 4.586-02 | 1408-05 0.008-06 0.008-06 0.008-06 0.008-06 0.008-06 0.008-06 | 1.408-40 0.008-40 0.008-40 0.008-40 0.008-40 0.008-40 0.008-40 | 1406-01 2388-01 8.468-01 8.728-01 4.968-05 8.508-01 7.096-01 8.368-01 | 1406-01 0306-00 0306-00 0306-00 0306-00 0306-00 0306-00 | 1.406-03 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 1.408-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 140(+01 0.00(+00 0.00(+00 0.00(+00 0.00(+00 7.346.05 5.756.03 4.126.03 1.75(+05 0.00(+00 0.00(+00 0.00(+00 7.656.04 6.276.02 1.756.09 | 1805-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 1.795-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1604-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 1.705-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1605-01 2756-01 3366-01 5466-01 6306-01 6466-01 7026-01 8205-01 1705-01 2446-01 5256-01 5366-01 4256-01 6276-01 8266-01 8266-01 | 140E-01 030E-00 | 140E-01 0.00E-00 | 1605-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 |
| 1.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 2.496-12 1.70E-00 1.71E-06 | 1.908-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.50E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1908-01 2518-01 1088-01 1438-01 4458-01 6346-01 7.868-01 | LN0E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1908-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | LAGE-DE 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 2 10(+01 0.00(+0000000000 | 2.32E-05 0.00E-00 0.00E-0000000000 | 2105-01 5005-00 5005-00 5005-00 5005-00 5005-00 5005-00 5005-00 2.005-01 5005-00 5005-00 5005-00 5005-00 5005-00 5005-00 | 2106-01 2216-01 2.000-01 1226-05 4.409-05 5.996-05 6.466-01 7.705-01 2.006-01 1.876-01 2.676-01 2.986-01 4.296-05 6.716-01 6.226-01 7.486-01 | 2.054-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 2.005-01 0.005-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.10E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 2.40E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 2386-05 0.00E-00 0.00E-0000000000 |
| 2.626+01 0.006+00 0.006+00 9.016-15 1.486-09 6.946-08 1.776-06 | 2.605-05 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 2.406-05 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 2.606+01 1.446-01 2.566-01 2.716-05 4.066-01 5.466-01 5.506-01 7.176-01 | 2.425-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 2.626-01 5.006-00 5.006-00 5.006-00 5.006-00 5.006-00 5.006-00 | 2.608-00 0.008-00 0.008-00 0.008-00 0.008-00 0.006-00 0.006-00 |
| 2.808-01 0.008-00 0.005-00 0.008-00 7.818-14 1.488-08 2.188-07 4.178-06 1.008-01 0.008-00 0.008-00 0.008-00 1.888-12 1.488-07 1.346-06 1.328-06 | 2.808-01 0.008-00 0.008-06 0.008-0000000000 | 2.50E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.20E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 2.800+01 1.240-01 2.190-01 2.590-01 3.505-01 5.330-01 5.780-01 7.000-01 3.300+01 8.818-02 1.840-01 2.290-01 8.630-01 5.030-01 5.430-01 5.430-01 | 2.80E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.20E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 2.802-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 1.202-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 2.80E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 3.20E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 |
| 1508-01 0.085-00 0.008-00 0.008-00 5125-12 5285-07 1.676-06 1.086-05 3.968-01 0.085-00 0.088-00 1.555-17 7.686-11 2.086-06 1.125-05 5.446-05 | 150E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 8.50E+08 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 3.508-01 6.378-02 1.688-01 2.088-05 3.438-05 4.818-05 5.318-05 6.328-05 | 3.528-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1508-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 3 508-00 0 008-00 0 008-00 0 008-00 0 008-00 0 008-00 0 008-00 |
| 3.968-05 0.008-00 0.008-00 1.558-17 7.698-11 2.698-06 1.128-05 8.498-05 4.308-01 0.008-00 9.828-15 5.318-16 7.646-10 5.898-06 2.538-06 1.118-04 | 3.908-05 0.008-00 0.008-06 0.008-00 0.008-00 0.008-00 0.008-00 4.308-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.50E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 4.30E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1308-01 538-02 1488-01 1898-01 1308-01 5388-01 5388-01 6388-01 4308-01 5388-02 1386-01 1486-01 5388-01 4388-01 4488-01 5388-01 | 1.50E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 4.50E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1305-01 0.002-00 0.002-00 0.002-00 0.005-00 0.002-00 0.002-00 4.302-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 3.988-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 4.388-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 4.708-00 0.008-00 4.708-07 6.546-05 6.008-08 4.708-06 1.708-04 5.206-00 0.006-00 2.206-06 1.208-03 5.708-06 2.546-06 8.618-06 2.518-06 | 4.708-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 4/36/41 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 3.00E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 4706-01 1776-02 8.946-02 1.416-01 2.816-01 4.186-01 4.536-01 5.538-01 5.206-03 1.746-02 7.946-02 1.186-05 3.576-05 1.896-05 8.386-05 9.386-05 | 4.705-01 0.000-000- | 4.70E-01 0.00E-00 0.00E-00E-000E-0 | 4.708-01 0.008-0000000000 |
| 520-01 COD-00 220-15 C20-15 C70-08 250-05 E50-05 250-04 | 528455 63846 638446 638446 638446 638446 638446 638446 | ESERVES ESERVE ESERVE ESERVE ESERVE ESERVE ESERVE | 120141 120142 230142 120141 25744 120141 420141 520141 | 5.28-05 EXE-0E EXE-0E EXE-0E EXE-0E EXE-0E EXE-0E | 1201-0 2201-0 2201-0 2201-0 2201-0 2201-0 2201-0 | 228-02 0.08-00 0.08-00 0.08-00 0.08-00 0.08-00 0.08-00 |
| 5.708-01 0.008-00 4.545-14 1.135-12 1.196-07 5.365-05 1.416-04 1.466-04 | 5.708+01 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 | 5.705+01 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 | \$708-01 L106-02 8.006-02 8.076-02 2.096-01 1.046-01 8.076-01 4.006-01 | 5.705-01 0.008-00 0.008-00 0.006-00 0.008-00 0.008-00 0.008-00 | 5.705-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 5.705-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.005-00 |
| 5.405-01 9.535-17 1.278-12 2.518-11 1.687-36 1.687-34 2.218-34 4.596-34 7.008-00 4.388-25 6.428-12 1.538-20 5.778-06 1.818-04 2.798-04 5.518-04 | 6.408+01 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 7.008+01 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 | 6.40E+01 0.00E+00 0.00E+0000E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00000E+0000000000 | 6.400-01 6.028-00 6.648-02 7.908-02 2.058-01 1.028-01 1.676-01 4.466-01 7.008-01 4.096-00 8.646-02 8.646-02 8.028-01 8.108-01 8.266-01 4.256-01 | 6.402-01 0.002-0000000000 | 1402-01 0.002-0000000-0000- | 6.4(8-0) 0.005-0000000000 |
| 7.808-00 1.828-13 8.798-11 6.346-09 1.596-05 2.396-04 3.356-04 5.586-04 | 7 806+01 0.006+00 0.006+00 0.006+00 0.006+00 0.006+00 0.006+00 | 7.808-02 0.008-06 0.008-06 0.008-06 0.008-06 0.008-06 0.008-06 | 7.828-01 1.446-05 1.746-02 5.366-02 1.686-01 2.876-01 3.296-01 3.936-01 | 7.802-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 7.808-01 0.005-00 0.008-00 0.008-00 0.005-00 0.008-00 0.008-00 | 7,858-01 0,958-30 0,052-30 0,052-30 0,055-30 0,056-30 0,056-30 |
| 8.608-00 1008-12 8.346-10 7.328-08 1508-05 1108-04 4.088-04 6.258-04 9.588-00 9.296-12 2.018-08 5.638-07 6.548-05 1.718-04 4.628-04 6.888-04 | 8.426+01 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 9.505+01 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 | 8.60E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 8.50E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 840648 147648 207642 419642 148648 244648 296648 398648 350848 875644 148642 332542 138648 244648 273648 340648 | 8.686-01 0.008-00 0.008-00 0.008-00 0.005-00 0.006-00 0.008-00 5.008-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 8.628-01 0.000-00 0.008-00 0.000-00 0.000-00 0.000-00 0.000-00 5.500-01 0.000-00 0.008-00 0.000-00 0.000-00 0.000-00 0.000-00 | 8.685-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 9.585-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 |
| 1056+02 1366-13 1486-07 2438-06 1038-04 4388-04 5218-04 7358-04 | 1.056+02 0.008+00 0.006+00 0.006+00 0.006+00 0.006+00 0.008+00 | £05E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 1.096+02 4.066.04 1.006.02 2.396.02 1.136.05 2.226.05 2.406.05 3.138.01 | 1056-03 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | L058-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1.056-02 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 |
| 1168-00 2225.11 9290-07 6746/06 1456/06 6466/06 5386/06 7256/06 1286-00 2425.11 1906/06 1786/05 1866/04 4566/06 5556/04 7256/04 | 134F=02 0.00E=00 | 1148-00 0008-00 0008-00 0008-00 0008-00 0008-00 0008-00 1288-02 0008-00 0008-00 0008-00 0008-00 0008-00 0008-00 | 1348-02 2418-04 6/79-08 1.086-02 9.679-02 1.998-01 2.296-01 2.796-01 1286-02 1.096-04 4.196-08 1.818-02 7.979-01 1.797-01 1.986-01 2.525-01 | 1.16F-02 0.00E-00 0.00E-0000000000 | 136-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 1285-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 136-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 |
| 1408-00 2808-11 8978-06 1178-05 2168-04 4498-04 5538-04 7388-04 | 1.418-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1412-42 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.415-42 4.585-05 2.418-05 9.118-05 8.408-02 1.558-01 1.788-01 2.248-01 | 141240 000400 000400 000400 000400 000400 000400 000400 | 1.418-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1415-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 |
| 1568-02 7578-13 1658-05 4588-05 2298-04 4.878-04 5.468-04 7218-04 1729-02 7588-13 2088-05 4.988-05 2388-04 6.558-04 5.588-04 6.668-04 | 1548-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1568-60 0.008-60 0.008-60 0.008-60 0.008-60 0.008-60 0.008-60 1.725-60 0.008-60 0.008-60 0.008-60 0.008-60 0.008-60 0.008-60 | 1545-02 1620-05 1440-08 5.620.08 5.250.02 1590-01 1540-01 1540-01 1726-02 5.400-06 7760-06 1420-08 4.560-02 1100-01 1220-01 1670-01 | 1542-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 1722-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1568-02 5.005-00 5.005-00 5.005-00 5.005-00 5.005-00 5.005-00 1.725-02 5.005-00 5.005-00 5.005-00 5.005-00 5.005-00 | 1,548-02 0,008-0000000000 |
| 1305+02 1176-05 1328-05 4.118-05 2.076-04 4.388-04 5.088-04 5.196-04 2.108-02 9.546-11 1.388-05 1.228-05 1.296-04 1.396-04 4.596-04 5.886-04 | 1.908-02 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 | 1502-02 5202-02 5202-02 5202-02 5202-02 5202-02 5202-00 5202-00 5202-00 5202-00 5202-00 5202-00 5202-00 5202-00 | 1905+02 1596-06 1.005-06 1.966-08 1.966-02 9-655-02 1.105-01 1.406-01 1.205+02 4.085-07 1.816-04 1.096-08 1.226-02 7.656-02 9-456-02 1.226-01 | 1981-02 0.081-00 0.081-00 0.081-00 0.081-00 0.081-00 2.081-02 0.082-00 0.082-00 0.082-00 0.081-00 0.082-00 0.081-00 | 1.905-02 0.905-90 0.905-90 0.905-90 0.905-90 0.905-90 0.905-90 0.905-90 0.905-90 0.905-90 0.905-90 0.905-90 0.905-90 0.905-90 | 1.508-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 2.128-02 5.988-13 7.378-06 2.196-05 1.468-04 1.488-04 4.088-04 5.096-04 | 2.328+02 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 | 2.528+02 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 | 2.828-02 8.778-06 7.888-05 5.708-04 1.648-02 6.096-02 7.608-02 1.038-01 | 2.325-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.328+02 0.008+00 0.006+00 0.008+00 0.008+00 0.008+00 0.008+00 | 2.328-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 2566-02 5308-03 3308-06 1348-06 1086-04 2388-04 1488-04 4588-04 2428-02 1775-16 1846-06 7308-06 7796-05 2398-04 1885-04 4186-04 | 2.548-02 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 | 2568-02 5008-00 5008-00 5008-00 5008-00 5008-00 5008-00 2825-02 5008-00 5006-00 5008-00 5008-00 5008-00 5008-00 | 2565-02 1705-08 1105-05 2305-04 1125-02 4705-02 4206-02 8366-02 2305-02 1305-09 1125-05 1205-04 7425-03 1546-02 4705-02 4770-02 | 2.562-02 5005-00 5005-00 5005-00 5005-00 5005-00 5005-00 2.822-02 5005-00 5005-00 5005-00 5005-00 5005-00 5005-00 | 2568-02 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 2.628-02 0.006-06 0.006-06 0.006-06 0.006-06 0.006-06 0.006-06 | 2568-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 1.001-02 1.128-10 1.096-06 4.746-06 6.058-05 1.588-04 1.196-04 1.668-04 | 1.008-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.002-42 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1.008-02 1.596-03 1.798-06 5.398-05 4.688-03 2.718-02 3.798-02 5.278-02 | L002-02 1002-00 1002-00 1002-00 1002-00 1002-00 1002-00 1002-00 | 1008-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.000-00 | 1.08-02 0.080-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 |
| \$128-02 2376-02 7538-07 3588-06 \$138-05 1788-06 2170-06 8388-06 3-668-02 3296-01 1028-07 1528-06 21928-06 1588-06 2528-06 | 3.124-62 0.008-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 3.122-02 0.00E-00 0.00E-0000000000 | 3128-62 1086-30 1236-66 2276-85 2368-69 2086-62 2366-62 4118-62 3468-62 1086-11 2766-67 7366-66 1418-68 1396-62 2006-62 8076-62 | 1.127-52 5.007-00 5.007-00 5.007-00 5.007-00 5.007-00 5.007-00 1.467-52 5.007-00 5.007-00 5.007-00 5.007-00 5.007-00 | 1128-02 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 1.440-02 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 3128-02 0.008-0000000000 |
| 8,008-00 8,996-12 8,6W-08 5,846-07 1,548-05 8,268-05 1,076-04 1,758-04 | 8.806+00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 8.80E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1.005-02 8.689-13 6.129-08 2.568-06 8.758-04 9.409-03 1.109-02 2.248.02 | 1.00E-02 00-000 00-000 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 00-900.0 00-900.0 00-900.0 00-900.0 00-900.0 00-900.0 00-900.0 | 1.00E-000 00-0000 00-000 000E-00 0.00E-00 0.00E-00 0.00E-00 |
| 8.205+00 1.645-12 2.405.02 1.545.07 7.505.06 5.545.05 6.836.05 1.205.04 8.645+00 2.632.13 6.836.09 6.155.08 1.855.06 1.275.05 4.605.05 8.115.05 | 4.205-02 0.065-00 0.095-00 0.006 00 0.005 00 0.005-000 0.005-000 0.005-000 0.005-0000000000 | 4.205+02 0.005+06 0.005+06 0.005+06 0.005+06 0.005+00 0.005+00 4.645+02 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 | 4.206-02 4.686-03 1.206-08 6.626-07 4.408-04 6.256-03 9.626-03 1.588-02 4.466-02 5.786.04 1.486.09 1.486.07 2.298.04 3.996.04 5.675.04 1.186.02 | 4.25E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 8.255-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 8.665-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 4.205+02 0.005+0000000000 |
| 5.128-02 8.458-14 1.548-05 1.808-08 1.798-06 1.978-05 2.808-05 5.388-05 | 5.128+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 | \$128-00 0.008-00 0.006-00 0.006-00 0.008-00 0.008-00 0.008-00 | \$126-02 2.818-04 5.308-00 5.206-08 1176-04 2.686-03 4.526-03 6.468-03 | 5.128-00 00-800 00-800 00-800 00-800 00-800 0008-00 0008-00 | \$128-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | \$128-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 5456-02 246514 153512 158505 748547 112545 172545 147645 5295-02 4296-15 5796-11 105509 552547 7176-06 1165-05 2056-05 | 5.662-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 6.245-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 1.245-07 | 5.652-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 5.245-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 5.656-02 1.776-04 9.256-01 1.986-08 7.025-05 1.096-03 1.406-03 6.368-03 6.246-02 5.566-05 2.536-01 5.566-09 4.036-05 1.266-03 2.406-03 4.446-03 | 148F-02 000F-00 000F-00 000F-00 000F-00 000F-00 000F-00 4_96F-02 000F-00 000F-00 000F-00 000F-00 000F-00 000F-00 | 5.655-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 8.245-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 5.662-02 0.002-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 |
| 6.898-02 1146-15 1.718-11 1.598-10 1.528-07 4.148-06 7.138-06 1.276-05 | 6.856-02 0.008-00 0.008-06 0.008-06 0.008-00 0.008-00 0.008-00 1.638-14 | 6.296-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 6.898-02 0.008-00 2.756-12 8.916-10 1.498-05 6.716-04 1.896-01 2.678-03 | 6.890-52 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 5.896-02 0.006-06 0.006-06 0.006-00 0.005-00 0.006-00 0.008-00 | 0-3013 0-3015 0-305 0-3055 0-3055 0-3055 0-3055 0-3015 10-3015 |
| 7.618-02 LEUE-06 2.100-12 4.880-11 5.240-08 2.198-06 4.020-06 7.460-06 8.408-02 7.156.17 2.018-13 7.118-12 1.500-08 1.018-06 2.080-06 4.010-06 | 7.618-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 1.826-07 2.306-02 6.408-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 7.808-00 7.808-0 2.046.00 | 7.612.402 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 8.402-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 7.638-02 2.305-03 7.305-03 1.005-03 5.006-06 3.368-04 7.025-04 1.355-03 6.008-02 6.008-00 0.005-00 0.596-02 1.566.06 1.056.04 1.326.04 0.336.04 | 7.512-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 8.402-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 7.628-02 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 8.400-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 7.618-62 0.000-80 0.000-90 0.000-90 0.000-90 0.000-90 0.000-90 0.000-90 0.000-90 0.000-90 0.000-90 0.000-90 0.000-90 0.000-90 0.000-90 |
| 5.200-02 0.000-06 1.528-14 8.146-15 4.010-06 4.588-07 5.546-07 1.570-06 1.000-03 0.000-00 0.000-00 4.396-15 1.270-06 1.582-07 5.018-07 1.138-06 | 5288-02 0.008-00 0.008-00 0.008-00 0.008-00 5586.07 1398-02 6.318-09 1.008-01 0.008-00 0.008-00 0.008-00 1.076.14 1.086-01 4.076.08 | \$285-92 0.00E-90 0.00 | 528-42 976-13 1266-12 1466-12 4386-07 6.956-05 1586-04 4466-04 1266-03 0.966-00 1976-13 2526-13 1266-07 2786-05 7362-05 2176-04 | 120-02 0204-00 0208-00 0208-00 0208-00 0208-00 0208-00 1208-01 0208-00 0208-00 0208-00 0208-00 0208-00 | 1281-02 5302-00 5302-00 5302-00 5302-00 5302-00 5302-00 1.002-01 5302-00 5302-00 5302-00 5302-00 5302-00 5302-00 | 5258-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 |
| 1000-00 0.000-00 0.000-00 4.000-15 1.270-09 2.250-07 5.010-07 1.120-06 1.000-01 0.000-00 0.000-00 4.000-14 8.110-10 1.810-07 4.040-07 9.320-07 | 1.00E=09 0.00E=00 0.00E=00 0.00E=00 0.00E=00 1.72E-14 1.80E=11 4.07E=08 1.02E=09 0.00E=00 0.00E=00 0.00E=00 0.00E=00 0.518=14 6.00E=08 | 1.00E+01 5.00E+00 5.00E+00 5.00E+00 5.00E+00 5.00E+00 1.00E+00 1.00E+00 1.00E+00 5.00E+00 5.00E+00 5.00E+00 5.00E+00 1.59E+18 | 1008-09 0.008-00 1975-13 2.638-11 1.098-07 2.788-05 7.288-05 2.176-04 1.028-08 0.008-00 0.008-00 2.906-11 1.908-08 1.016-05 2.968-05 9.828-05 | L00E-02 0.00E-00 0.00E-000E-0 | 100E-01 0.00E-00 0.00E-00000E-0000E-0000000E-0000000000 | 100E-01 0.00E-00 0.00E-000E-0 |
| 1.18(+0) 0.00(+00 8.728-16 1.328-13 1.238-10 8.488-08 8.446-08 2.288-07 1.258-01 0.00(+00 2.088-18 7.968-14 8.886-11 8.188-09 2.568.08 7.988-08 | 138-03 0.008-00 0.008-00 0.008-00 0.008-00 2.006-03 2.086-09 3.426-07 1238-03 0.008-00 0.008-00 0.008-00 0.008-00 6.225-00 2.696-08 1.108-06 | 1138-63 508-00 508-90 508-90 508-90 508-90 508-90 1885-55 128-63 508-90 508-90 508-90 508-90 508-90 508-90 208-56 | 118-08 000-00 122013 140011 150008 140006 120005 420005 1200-08 0200-00 412513 500012 500005 122006 122006 122005 | 138-08 0008-00 0008-00 0008-00 0008-00 0008-00 0008-00 128-08 0008-00 0008-00 0008-00 0008-00 0008-00 0008-00 | 138-08 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1286-08 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 118-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 1298-03 0.008-00 2.088-08 7.988-04 8.988-01 9.188-09 2.508-08 7.988-08 1.388-03 0.008-00 1.348-18 1.088-04 1.148-11 2.128-09 7.828-09 2.648-08 | 1.885-03 0.005-00 0.005-00 0.005-00 0.005-00 1.555-05 1.725-07 1.745-06 | 1384-09 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 2.078-04 1388-09 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 1.746-13 | 1385-03 0305-00 1385-12 4215-12 1425-09 8125-07 1258-06 5475-06 | 1.784-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 1.888-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1,388-03 0,008-00 0,008-00 0,008-00 0,308-00 0,308-00 0,008-00 1,388-03 0,008-00 0,008-00 0,008-00 0,308-00 0,008-00 0,008-00 | 1,258-05 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 1,388-01 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 |
| 1528-03 0.008-00 2.018-15 7.418-15 5.508-12 6.758-00 2.325-09 8.448-09 1.488-01 0.008-00 5.258-17 7.398-16 2.076-12 2.096-00 6.468-00 2.588-09 | 152E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.22E-07 8.59E-07 9.16E-06 1.68E-03 0.00E-00 0.00E-00 0.00E-00 2.596-18 5.70E-07 2.82E-06 1.84E-05 | 1525+63 5008+00 5008+00 5008+00 5008+00 5008+00 5308+00 1196-52 1688+63 5008+00 5008+00 5008+00 5306+00 5306+00 6526-52 | 1.528-03 0.008-00 1.230-12 4.178-12 9.018-30 1.098-07 1.986-07 1.830-06 1.628-03 4.976-05 4.428-04 9.788-03 4.348.00 9.428.08 1.646.07 7.786.07 | 152E+03 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 140E+03 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 1528-03 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 1.488-03 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1.538-05 0.008-06 0.008-06 0.008-00 0.008-00 0.008-00 0.008-00 1.688-05 0.008-06 0.008-06 0.008-00 0.008-00 0.008-00 0.008-00 |
| 1.86(+0) 0.00(+00 2.436-17 4.866-16 3.776-13 4.816-11 1.896-10 7.736-10 | 186E-03 0.00E-00 0.00E-00 0.00E-00 1.03E.14 1.97E.06 6.76E.06 1.05E-05 | 1.842+03 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 2.976-13 | 1366-03 1086-05 1686-04 1836-03 1206-03 1986-08 1476-07 7146-07 | 1.042-43 0.005-40 0.005-40 0.005-40 0.001-40 0.001-40 0.001-40 | 1.868-01 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 1.862-03 0.006-00 0.005-00 0.005-00 0.006-00 0.006-00 0.006-00 |
| 2.066+01 0.000+00 0.000+00 4.280-08 2.158-04 1.366-00 7.820-00 4.218-09 2.266+03 0.000+00 0.000+00 1.546-17 1.586-04 1.906-11 1.356-00 8.726-00 | 1082-03 0.008-08 0.008-08 0.008-08 1.136-10 4.186-08 1.112-08 3.582-08 2.242-03 0.008-08 0.008-08 0.008-08 1.096-08 1.096-08 1.296-08 4.226-08 | 2.062-68 0.00E-00 0.00E-0000000000 | 2195-05 0005-00 4.005-05 2.495-04 2.625-11 1.965-08 1.095-07 8.535-07 2.295-05 0.095-00 2.825-05 1.415-04 8.685-02 2.115-09 1.675-08 1.655-07 | 2016-05 5008-06 5008-00 5008-00 5008-08 5008-08 5008-06 5008-00 2382-05 5008-00 5008-00 5008-00 5008-06 5008-06 5008-06 5008-06 | 2,058-03 0,000-06 0,000-00 0,000-00 0,000-00 0,000-00 0,000-00 0,000-00 0,000-00 0,000-00 0,000-00 0,000-00 0,000-00 0,000-00 0,000-00 | 2.098-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 2.508-03 0.008-00 7.448-08 1.238-17 LK88-34 L208-32 LK96-31 L648-30 | 2.508-03 0.008-00 0.008-00 1.096-17 1.586-07 2.886-06 4.736-06 1.256-04 | 2.50E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 3.83E-17 1.94E-08 | 2.50E+03 0.00E+00 4.79E-15 1.58E-14 1.42E-12 L49E-10 2.10E-09 2.89E-08 | 2.526-03 0.996-00 0.006-00 0.096-00 0.906-00 0.996-00 0.996-00 | 2508-07 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.536-03 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 |
| 2 788-03 0.008-08 0.008-00 0.008-00 2.290-16 2.386-13 2.506-12 2.546-11 3.008-03 0.008-06 0.008-06 0.008-06 1.896-16 1.825-14 1.676-13 2.576-12 | 2.748-63 0.008-00 0.008-00 2.758.44 1138.06 7.008.05 1.076.04 2.548.04 1.008-63 0.008-00 0.008-00 2.835.12 3.958.06 1.158.04 1.786.04 1.798.04 | 2.762+63 0.00E+00 0.00E+00 0.00E+00 0.00E+00 4.386-65 1.826-08 3.00E+03 0.00E+00 0.00E+00 0.00E+00 0.00E+00 8.246-64 4.576-08 | 1782-03 030E-00 030E-00 030E-00 630E-04 430E-13 2786-10 430E-09 130E-03 630E-00 630E-00 630E-00 436E-14 4726-12 2346-11 4136-30 | 2785-03 5305-00 5305-00 5305-00 5305-00 5305-00 5305-00 1302-03 5305-00 5305-00 5305-00 5305-00 5305-00 5305-00 | 276E-03 6.00E-00 5.00E-00 5.00E-00 5.00E-00 0.00E-00 0.00E-00 1.00E-03 6.00E-06 6.00E-06 6.00E-00 6.00E-06 6.00E-06 6.00E-06 | 278E-00 0.00E-00 |
| 3.05E+03 0.00E+00 0.00E+00 0.00E+00 L44E-16 0.54E-15 6.53E-34 L42E-12 | 3.052+03 0.002+00 0.002+00 8.462-12 4.862-06 1.252-04 1.942-04 3.962-04 | 1.052+00 0.008+00 0.008+00 0.008+00 0.008+00 1.740-13 5.262-08 | 1.052+03 0.008+00 0.008+00 0.008+00 1.070-34 8.256-13 3.356-12 1.386-13 | 1052-02 0002-00 0002-00 0002-00 0002-00 0002-00 0002-00 0002-00 | 1052-03 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1.052-03 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 |
| 1.562-03 0.002-00 0.002-00 0.002-00 1.390-17 2.500-15 5.462-35 5.170-34 3.702+03 0.002-00 0.002-00 0.002-00 1.755-18 2.500-16 8.392-06 1.090-15 | 3.342-03 0.002-00 0.002-00 4.625-10 1.395-05 1.845-04 2.775-04 4.595-04 5.702-03 0.002-00 0.005-00 5.465-09 3.035-05 2.455-04 3.405-04 4.635-04 | 3.365+55 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 6.525-52 7.305-08 3.715+63 0.005+00 0.005+00 0.005+00 0.005+00 7.536-51 1.466.07 | 1.562+03 0.302+00 0.302+03 0.302+00 0.302+03 1.832+13 0.546+13 1.916+12 1.716+03 0.302+00 0.5020+00 0.3020+00 5.156+15 2.566+14 2.286+12 | 1.367+03 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 1.731+03 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 | 536E-03 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 570E+03 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 3.348-09 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 3.712-09 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 |
| 4108-0) 0.008-00 0.008-00 0.008-00 4.495-18 8.818-17 1.038-38 1.518-18 | 4.308-03 0.008-00 0.008-00 7.878.08 4.788.05 2.806.04 3.728.04 4.538.04 | 4305-03 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 1.046-10 2.568-07 | 4.306-03 0.306-00 0.306-00 0.306-00 2.136-05 1.136-04 2.526-04 1.136-03 | 4.10(-01 0.00(-00 0.00(-00 0.00(-00 0.00(-00 0.00(-00 0.00(-00 | 4326-03 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 4.358-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| # 536-03 0.005-00 0.005-00 7.245.15 7.625.18 5.465.47 1.125.06 1.985.08 5.005-08 0.005-00 0.002-00 8.095.16 2.775.17 4.596.47 1.208.36 | 4.518-03 0.008-00 0.008-00 5.228.07 6.466.05 2.318.04 1.706.04 5.076.04 5.008-03 0.008-00 0.008-00 5.208.07 7.646.05 3.028.04 1.546.04 4.776.04 | 4536-65 0.006-66 0.006-96 0.006-96 0.006-96 2.006-88 7.006-80 4.096-87 5.006-68 0.008-98 0.008-98 0.006-98 0.006-98 5.066-07 2.036-95 4.025-87 | 4518-08 0.008-00 0.008-00 0.008-08 6405-05 2.386-04 3.528-04 5.008-18 0.008-00 0.008-00 0.008-08 4.555-05 2.576-04 3.586-04 7.908-04 | 4132-05 0005-00 0005-00 0005-00 0005-00 0005-00 0005-00 5405-05 0005-00 0005-00 0005-00 0005-00 0005-00 | 4.538-05 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 5.005-08 0.005-06 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 4538-05 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 |
| 5.528-03 0.008-00 0.008-00 0.008-00 5.690.08 2.668-07 4.528-07 1.090.04 | 5.528-03 0.008-00 0.008-00 1.128-06 7.458-05 2.798-04 1.578-04 4.768-04 | 5.528-43 0.008-40 0.008-40 0.008-40 0.008-40 4.728-25 9.298-49 6.708-67 | 5.528-53 0.008-00 0.008-00 0.008-00 0.158-35 2.428-54 8.528-54 8.286-54 | 5.525-43 0.005-40 0.005-40 0.005-40 0.005-40 0.005-40 0.005-40 | 5.52F-C3 0.0-900 000 0.0-900 0 | 5.52F=03 0.00F=00 0.00F=00 0.00F=00 0.00F=00 0.00F=00 1.6H6-34 |
| 6296-03 0.00E-08 0.00E-00 0.00E-00 7.33E-08 625E-07 5.925-07 1.32E-08 6.798-03 0.00E-08 0.00E-08 0.00E-08 4.85E-08 4.85E-07 6.65E-07 1.82E-06 | 6.0%-03 0.005-00 0.001-00 8.1%0.07 6.626.05 2.506.04 3.2%0.04 6.426.04 6.7%0-03 0.005-00 0.001-00 3.7%0.07 4.9%6.05 2.1%0.04 3.7%0.04 | 4.0%+63 0.00E+00 0.00E+00 0.00E+00 1.04E+12 2.95E-08 9.34E-0* 5.78E+03 0.00E+00 0.00E+00 0.00E+00 1.57E+12 3.27E+06 5.11E-0* | 60%-08 0.00E-00 0.00E-00 0.00E-00 1.656.04 4.716.04 6.216.04 8.846.04 6.73E-08 0.00E-00 0.00E-00 0.00E-00 1.786.04 8.406.04 1.116.03 2.516.03 | 6.065-03 0.005-00 0.005-00 0.005-00 0.001-00 0.005-00 0.005-00 6.735-03 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 4.296-03 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 4.795-03 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 4.0%-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 4.246-13 4.7%E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.7%E-17 5.72E-12 |
| 7.456+05 0.008+08 0.006+00 0.006+00 1.496-17 1.406-36 2.056-36 4.646-36 | 7.436=03 0.008=00 0.008=00 1.706-07 3.106-05 1.756-04 2.318-04 3.256-04 | 7.438-63 0.006-06 0.006-06 0.008-06 0.008-06 1.438-11 6.446-08 1.046-06 | 7.416-03 0.006-00 0.006-00 0.006-00 1.246-13 1.716-13 3.176-13 | 7438-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 7.432-03 8.006-00 8.008-00 8.002-00 8.002-00 8.002-00 9.002-00 | 7.438-03 0.008-08 0.002-08 0.008-08 0.008-08 0.088-08 1.038-15 5.128-11 |
| 8.20E+03 0.00E+00 0.00E+00 0.00E+00 1.47E-17 2.60E-16 1.46E-16 6.77E-16 5.06E+03 0.00E+00 0.00E+00 2.07E-16 7.12E-16 8.44E-16 1.54E-15 | 8.208-03 0.008-00 0.008-00 6.836.08 1.766.05 1.306.04 1.696.04 2.606.04 9.042-03 0.008-00 0.008-00 2.696.08 8.726.06 8.626.06 1.136.04 2.076.04 | 8.208-03 0.008-00 0.008-00 0.008-00 0.008-00 9.132-11 7.952-08 1.612-06 8.062-03 0.008-00 0.006-00 0.008-00 0.008-00 0.798-10 1.016-07 1.646-06 | 8.20E+03 0.00E+00 0.00E+00 0.00E+00 0.00E+00 2.69E+03 3.69E+03 6.00E+00 0.00E+00 0.00E+00 0.00E+00 0.49E+03 1.07E+02 1.96E+02 3.19E+02 | 8.205-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 8.087-03 0.008-00 0.008-00 0.008-08 0.008-08 0.008-08 0.008-00 | 8.20E-07 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 8.08E-03 0.00E-00 0.00E-00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 8.205+01 0.205+30 0.005+30 0.005+30 0.005+30 0.005+30 3.235-34 3.235-32 8.062+03 0.205+30 0.005+30 0.005+30 0.005+30 0.005+30 3.562.13 1.562.05 |
| 1.002-04 0.002-00 0.002-00 0.002-00 4735-16 3395-36 1452-35 1496-35 1.002-04 0.002-00 0.002-00 1021-16 7102-16 5482-16 1428-35 | 100E-04 0.00E-06 0.00E-06 8.53E-08 3.87E-06 5.23E-05 7.62E-05 1.45E-04 1.00E-08 0.00E-00 0.00E-00 8.53E-08 3.87E-06 5.7E-08 7.57E-08 1.45E-04 | 1001-04 0.002-00 0.002-00 0.002-00 7.362-00 1.262-07 2.345-06 1.001-08 0.002-00 0.002-00 0.002-00 7.362-00 1.062-07 2.345-06 | 1002+04 0.002+00 0.002+00 0.002+00 6.190-23 1.046-22 4.266-22 7.890-12 | 1002-04 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 108-04 508-06 508-06 508-06 508-06 508-06 508-06 508-00 508-00 | 108-04 0.08-06 0.082-06 0.082-06 0.082-06 0.082-08 0.082-08 0.082-08 0.082-08 0.082-08 0.082-08 0.082-08 0.082-08 0.082-08 0.082-08 0.082-08 |
| 1.00E=04 0.00E=00 0.00E=00 0.00E=00 1.01E=05 7.10E=05 9.64E=06 1.61E=05 1.10E=04 0.00E=00 0.00E=00 1.45E=16 7.30E=06 9.64E=16 1.91E=05 | 1.00E=04 0.00E=00 0.00E=00 8.51E-09 3.87E-06 5.21E-05 7.62E-05 1.45E-04 1.30E=04 0.00E=00 0.00E=00 2.10E-09 1.59E-06 2.68E-05 4.46E-05 3.21E-05 | 1.00E+04 0.00E+00 0.00E+00 0.00E+00 7.38E-00 1.38E-07 2.34E-06 1.10E+04 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.88E-09 1.06E-07 2.77E-06 | 1308+04 0306+00 0306+00 1336-35 7386-33 1398-32 2396-32 1396-32 1308+04 2506-36 2306-34 1396-33 1308-52 2398-52 1396-52 6308-52 | L00E-04 0.00E-00 0.00E-00000E-0000E-00000000E-0000000E-000000 | 1.00E=04 0.00E=00 0.00E=00 0.00E=00 0.00E=00 0.00E=00 0.00E=00 1.02E=04 0.00E=00 0.00E=00 0.00E=00 0.00E=00 0.00E=00 0.00E=00 | 1.00E=04 0.00E=00 0.00E=00 0.00E=00 0.00E=00 0.00E=00 5.63E=12 6.83E=09 1.33E=04 0.00E=00 0.00E=00 0.00E=00 0.00E=00 8.62E=18 4.23E=13 1.72E=08 |
| 1228-04 0.005-00 0.005-00 0.005-00 1.438-04 1.738-04 1.228-05 2.458-05 1.858-04 0.005-00 0.005-00 0.005-00 0.288-04 1.558-05 1.176-04 4.228-05 | 122E-04 0.00E-00 0.00E-00 5.58E-00 5.97E-07 1.28E-05 2.24E-05 5.43E-05 1.84E-04 0.00E-00 0.00E-00 1.876.00 1.896.07 5.84E-05 1.776-05 1.82E-05 | 1221+04 0.00E+00 0.00E+00 0.00E+00 0.00E+00 2.04E.09 1.08E.07 3.00E-06 1.14E+04 0.00E+00 0.00E+00 0.00E+00 4.67E.09 1.20E.07 2.94E-06 | 1228-04 7296-05 6386-04 1296-03 1288-02 5006-02 5576-02 5566-02 1268-04 1286-05 1225-03 1466-03 1566-02 8256-02 4466-02 7226-02 | 1.22E-04 0.00E-00 0.00E-000E-0 | 1.228-04 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 1.88-04 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1228-04 0.008-00 0.008-00 0.008-00 0.008-00 3.986-04 2.326-00 5.886-04 1.898-04 0.008-00 0.005-00 0.005-00 0.008-00 1.306.04 1.088-04 1.286-07 |
| 1496-04 0.005-00 0.005-00 0.005-00 1.855-16 1.425-25 2.215-25 4.526-25 | 14%-04 0.00E-00 0.00E-00 2.06E-11 5.45E-08 2.27E-06 4.83E-06 1.34E-05 | 1.496-04 0.006-00 0.006-00 0.006-00 0.006-00 0.026-09 1.136-07 2.646-06 | 1496-04 6.426-06 2.096-03 4.346-03 1.856-02 4.626-02 5.756-02 8.496-02 | 1.495-04 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1498-04 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1496-04 0.000-00 0.000-00 0.000-00 0.000-00 1.855-13 3.365-06 2.8255-07 |
| 1446-04 0.008-00 0.000-00 0.007-00 1.076-15 7.018-15 1.096-04 1.408-04 1.018-04 0.008-00 0.008-00 0.008-00 0.008-00 4.088-08 9.008.08 2.388-07 | 1642-04 0.002-00 0.002-00 2396-12 1.346.08 8.586.07 1.596.06 6.528-06 1.815-04 0.008-00 1.408.15 8.518.13 2.846.09 2.876.07 7.596.07 1.818-06 | 154E-04 0.00E-00 5.00E-00 0.00E-00 0.00E-00 1.01E-06 1.07E-07 2.85E-06 1.81E-04 0.00E-00 0.00E-00 0.00E-00 5.62E-05 1.21E-05 2.81E-06 | 1540-04 2,200-05 2,400-05 4,500-04 1,000-02 4,000-02 5,270-02 5,770-02 1,818-04 0,500-00 0,508-00 0,508-00 2,790-05 9,100-05 1,856-04 2,566-04 | 1.540-04 0.001+00 0.001+00 0.001+00 0.001+00 0.001+00 0.001+00 1.111+04 0.001+00 0.001+00 0.001+00 0.001+00 0.001+00 | 148-04 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 1.018-04 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 | 1648-04 0.008-00 0.008-00 0.008-00 1.846-01 8.1%-09 5.168-07 1.838-04 0.008-06 0.008-00 0.008-00 1.626-01 1.556-08 8.446-07 |
| 2,000+04 0,000+00 0,000+00 1436-18 1,666-17 2,676-17 4,706-17 | 2.008-04 0.008-00 2.128-15 7.448-14 5.798-10 8.998-08 2.558-07 1.026-06 | 2,008-04 0,008-00 0,008-00 0,008-00 0,008-00 1,088-09 1,276-07 2,508-06 | 2.006+04 0.006+00 0.006+00 0.006+00 2.596-05 2.446-04 2.106-04 6.296-04 | 2.005-04 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 2,008-04 5,008-00 5,008-00 5,008-00 5,008-00 5,008-00 5,008-00 | 2,006-04 0,006-00 0,006-00 0,006-00 1,016-00 1,016-06 1,016-06 |
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| | Sulphate | | tion in a local | | | | | | Znj | - | Treed and | | | | | | |
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| the faciantia | Concentration Time logars] | in proundus | ther [mg/] 5th Percenti | 100 Parcent | In Person 1 | City Parcent | sizh Farcar | Pint Parcentile | Concerningtion Time Issued | in procedus | tar (righ) | 100 Parcer | SOIN Partient | ION Parter | Him Parcent | the Parcent | |
| D-006-00 | 0.005-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.006-00 | 0.006-00 | 0.006+00 | 0.008+00 | D.00E+00 | 0.006+00 | 0.008-00 | 0.008-00 | 0.005-00 | 0.006-00 | |
| 0.005-00 | 1.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 5.008-00 | 0.008-00 | 0.000-00 | 1,006+00 | 0.005+00 | 0.006+00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.006-00 | 0.000-00 | |
| 0.006-00 | 2.006+00 | 1.955-18 | 1.098-14 | 3.848-14 | 2.046-14 | 5.966-13 | 1.098-12 | 2.278-62 | 2.008-00 | 0.008-00 | 0.008+00 | 0.008-00 | 0.008+00 | 0.008+00 | 0.006-00 | 0.006+00 | |
| 0.005-00 | 1.008-00 | 1.628-11 | 6136-00 | 2.140-05 | 1356-05 | 1.555-05 | 2.628-06 | 4.038-06 | 3.000+00 | 0.006+00 | 0.008+00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | |
| 0.000-00 | 5.005-00 | 2.155-05 | 1521-05 | 8.368-05 | 1.088-03 | 4.828-01 | 8.196-08 | 1.085-02 | 5.005-00 | 0.008-00 | 0.006+00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.006-00 | 0.000-00 | |
| 0.006-00 | 6.005-00 | 4.675-05 | 7.455-04 | 1.675-03 | 1.405-02 | 5.015-02 | 6.055-02 | 7.296-02 | 6.006-00 | 0.000-00 | 0.006-00 | 0.006-00 | 0.008-00 | 0.005-00 | 0.005-00 | 0.005-00 | |
| 0.006-00 | 7.008-00 | 1.085-03 | 1,156-02 | 1.685-02 | 2 405-02 | 1.866-01 | 2.156-01 | 2,476-01 | 7:006+00 | 0.005+00 | 0.005+00 | 0.008-00 | 0.005-00 | 0.008-00 | 0.005-00 | 0.000-00 | |
| 0.005-00 | 9.005-00 | 9,905-02 | 1.855-01 | 2.535-01 | 4,896-01 | 2,066-01 | 7,625-01 | 6.396-01 | 5.000-00 | 0.008-00 | 0.008+00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | |
| 0.006-00 | 1.008-01 | 3.128-00 | 4,228-25 | 5.088-01 | 7.496-01 | 3.636-01 | 1.035-00 | 1.128-00 | 1.006+01 | 0.008-000 | 0.006+00 | 0.008+00 | 0.008+00 | 0.08-00 | 0.006-00 | 0.006+00 | |
| 0.006-00 | 1.956-00 | 5.688-01 | \$762-00 | 7,406-01 | \$518-01 | 1176-00 | 1288-00 | 3.528=00 | 3.306+01 | 0.006+00 | 0.000+00 | 0.006+00 | 0.006+00 | 0.005+00 | 0.006+00 | 4.006+90 | |
| 0.00E+00 0.00E+00 | 1.808-00 | 8.736-60 | 9.308-00 | 9.738-00 | 1.156-00 | 1.348-00 | 1.432-50 | 1.498-00 | 1.800+01 | 0.008+00 | 0.008+00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008+00 | |
| | | | | | | | | | | | | | | | | | |
| 0.006-00 | 1.605-00 | 9.058-00 | 9.7NE-00 9.605-00 | 1.008-00 | 1.196-00 | 1408-00 | 1.466-00 | 1.536-00 | 1.406+01 | 0.005+00 | 0.006+00 | 0.008-00 | 0.008-00 | 0.005-00 | 0.005-00 | 0.006-00 | |
| 0.000-00 | 1.905-05 | 8.475-01 | 9,328-00 | 9,315-00 | 1182-00 | 1.388-00 | 1438-00 | 1.538=00 | 1.908-01 | 0.008+00 | 0.008+00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | |
| 0.008-00 | 2.308 +00 | 7.665-00 | 9.005-00 | 9.496.05 | 1.146-00 | 1,366-00 | 1.418-00 | 1.496-00 | 2.506-05 | 0.006+00 | 0.006+00 | 0.008-00 | 0.006-00 | 0.008-000 | 0.006-000 | 0.006-00 | |
| 0.005-00 | 2.301+01 | 6.765-01 | 8,706-01 | 9.236-01 | 1.126+00 | 1.836-00 | 1.386+00 | 1.475-00 | 2.306+01 | 0.008+00 | 0.005+00 | 0.006-00 | 0.008 -00 | 0.008+00 | 0.005-00 | 0.005-00 | |
| 0.000-00 | 2.608.405 | 5.796-05 | \$26E-01 7.96E-01 | \$776-01 | 1.096-00 | 1,305-00 | 1.355-00 | 1.445+00 | 2.606+01 | 0.005-00 | 0.005+00 | 0.005-00 | 0.005-000 | 0.008-00 | 0.005-00 | 0.005-00 | |
| 0.005-00 | 3.205+00 | 4.385-01 | 7.966-05 | 8.505-00 | 1.018-00 | 1,246+00 | 1.886-00 | 1.888-50 | 3.208+01 | 0.008+00 | 0.000+00 | 0.000-00 | 0.000+00 | 0.008-00 | 0.008-00 | 0.000-00 | |
| 0.006+00 | 3.508-00 | 1 896-01 | 4.962-00 | 7 628-01 | 1.008-00 | 1238-00 | 1.275-00 | 3.368+30 | 3.508-01 | 0.008-00 | 0.008+00 | 0.008-00 | 0.008+000 | 0.008+00 | 0.008-00 | 0.006-00 | |
| 0.006+00 | 1.908-01 | 3.345-00 | 6.362-01 | 7.136-01 | 9.686-01 | 1.188-00 | 1.246+00 | 1.336+00 | 3.906+01 | 0.006+00 | 0.005+00 | 0.006+00 | 0.008+00 | 0.005 +00 | 0.005-00 | 0.006-00 | |
| 0.006+00 | 4.308+00 | 2.685-01 | 5.828-05 | 4.28.41 | 9.396-01 9.06E-01 | 1188-00 | 1218-00 | 1.318-00 | 4.308+01 4.708+01 | 0.008+00 | 0.008=00 | 0.008~00 | 0.000-00 | 0.008-00 | 0.005-00 | 0.000-00 | |
| 0.000-00 | 5.20(+0) | 1.898-00 | 6.748-00 | 6.288-491 | 9.04E-01 | 1.096-00 | 1.146+00 | 1.288-90 | 5.206+01 | 0.008+00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | |
| | | | | | | | | | | | | | | | | 100.0 | |
| 0.005-00 | 5.708-00 | 1.558-01 | 4.196-01 | 5.268-01 | 8.215-01 | 1.058-00 | 1.112-00 | 1.196-00 | 5.708-01 | 5.002-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 6.008-00 | 0.000-00 | |
| 0.005~00 | 6.400-01 | 1.146-01 | 3.542-00 | 4.638-00 | 7.706-01 | 1.008-00 | 1.062-00 | 1.152-00 | 6.400+01 | 0.008+00 | 0.008-00 | 0.008-00 | 0.005-00 | 0.008-00 | 0.006-00 | 0.008-00 | |
| 0.005-00 | 7.008-00 | 9.256-02 | 3.176-00 | 4.346-01 | 7.346-01 | 8 728-01 | 1.02E-00 9.88E-01 | 1.125-00 | 7.005+01 | 0.005+00 | 0.005+00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.005-00 | 0.005+00 | |
| 0.000-00 | 7.808-01 | 7.308-02 | 2.756-01 2.ME-01 | 1.385-01 | 6.505-01 | 9.298-01 | 3.505-01 | 1.046-00 | 7.808+01 | 0.008+00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008+00 | |
| 0.005 -00 | 9.505-00 | 4 138-02 | 2.018-01 | 3.008-01 | 6,108-01 | 8.538-01 | 3 162-01 | 1.018-00 | 9.508-01 | 0.000+00 | 0.008-00 | 0.005-00 | 0.006+00 | 0.008-00 | 0.006-00 | 0.000-00 | |
| 0.006-00 | 1.058-02 | 5.056-00 | 1.728-00 | 2,626-05 | \$ 706-03 | 4.128-01 | 4.768-01 | 5 496-01 | 1.054+02 | 0.008-00 | 0.008+00 | 0.008-00 | 0.006-00 | 0.008-00 | 0.008-00 | 0.000-00 | |
| 0.006-00 | 1.148-00 | 2.118-02 | 1.418-01 | 2.228-01 | \$ 258-01 | 2,708-01 | 8.818-01 | 9.248-01 | 1.048+02 | 0.005-00 | 0.005+00 | 0.005-00 | 0.008-00 | 0.008-00 | 0.000[-000 | 0.006-00 | |
| 0.008-00 | 1.286+02 | 1,196-02 | 1.118-05 | 1.646-01 | 4,806-01 | 7.268-01 | 7.836-01 | 8.796-01 | 1.200-02 | 0.005-00 | 0.005+00 | 0.005-00 | 0.005+00 | 0.008-00 | 0.005-00 | 0.005+00 | |
| 0.008-00 | 1.548-02 | 5.125-23 | 6.278-02 | 1.208-00 | 1280-01 | 6.278-01 | 4.778-01 | 7.848-01 | 1548+00 | 5.005-00 | 0.008+00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.000-00 | |
| 0.006-00 | 1.728+02 | 2,896-63 | 4.496-02 | \$315.02 | 1.356-01 | 5.758-01 | 6.286-01 | 7.296-01 | 3.726+00 | 0.005-00 | 0.005+00 | 0.005-00 | 0.006-000 | 0.005-00 | 0.005-00 | -0.006-00 | |
| D-00E+00 | 1.908+02 | 1.525-00 | 3.0% -02 | 7.016-02 | 2.896-01 | 5.226-01 | 5.746-01 | 6.858-01 | 1.906+02 | 0.005+00 | 0.006+00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.006-00 | 0.006+00 | |
| 0.008 +00 | 2.338.402 | 7.525-04 | 2.068-02 | 5.168-02 | 2468-01 | 4715-01 | \$ 216-01 | 6.185-01 | 2.108+02 | 0.002+00 | 0.008+00 | 0.008+00 | 0.005+00 | 0.008-00 | 0.008-00 | 0.005+05 | |
| 0.005-00 | 2.546+02 | 1.515-04 | 8.0% 40 | 2.556-02 | 1.696-01 | 8.766-01 | 4.245-01 | 5.056-01 | 2.546+02 | 0.005-00 | 0.005+00 | 0.005-00 | 0.008+00 | 0.008-00 | 0.005-00 | 8.968-13 | |
| 0.005-00 | 2.826+02 | 6.075-05 | 4,746-00 | 1.715-02 | 1.365-01 | 3.275-01 | 3,736-01 | 4.546-01 | 2.826-02 | 6.005+00 | 0.006+00 | 0.005-00 | 0.006-00 | 0.005-00 | 0.005-00 | 5 608-18 | |
| 0.008-00 | 3.006-02 | 2.228-05 | 2.608-00 | 1.106-02 | 1.088-01 | 2.816-01 | 1.278-01 | 4.046-01 | 3.006+02 | 0.005-00 | 0.008-00 | 0.008-00 | 0.006-00 | 0.008-00 | 0.008-00 | 1.065-17 | |
| 0.006+00 | 8.128-02 | 2 105-05 | 1.440-05 | 6.53E-Q1 | 6.216-02 | 2,406-01 | 2.438-01 | 1.586-01 | 3 528-02 | 0.008-00 | 0.008+00 | 0.008-00 | 0.005-00 | 0.008-00 | 0.008-00 | 1.105-17 | |
| 0.008-00 | 1.808-02 | 5.438-27 | 818.06 | 2.076-03 | 4.4%6.02 | 148.01 | 1.968-01 | 2.568-01 | 1.008-02 | 5.005-00 | 0.005+00 | 0.008-00 | 0.001-00 | 0.008-00 | 0.008-00 | 1448-17 | |
| 0.005+00 | 4,205+02 | 1.225-07 | 1.315-04 | 1.068-03 | 3176-02 | 1.106-01 | 1425-01 | 2.125-01 | 4.206+02 | 0.005-00 | 0.005+00 | 0.005-00 | 0.005-00 | 0.005-000 | 0.005-00 | 8.188-14 | |
| 0.008-00 | 4.640+00 | 2.396-08 | \$346-05 | \$.505-04 | 2.246-02 | 1.058-01 | 1338-01 | 1.758-01 | 4.648-02 | 0.008-00 | 0.008+00 | 0.008-00 | 0.006+00 | 0.008.400 | 0.006-00 | 2.738-14 | |
| 0.008-00 | 5.128-02 | 4.258-09 | 2.128-05 | 2,905-04 | 1 648-02 | 2,275-02 | 1126-01 | 1.296-01 | 5.126+02 | 0.008-00 | 0.008+00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 8 954-13 | |
| 0.005-00 | 6.245-02 | 5.096-10 | 5.712-06 | 3.622-05 | 8.908-03 | 5.806-02 | 7.728-62 | 1.085-01 | 6.245-02 | 0.005+00 | 0.006+00 | 0.005-00 | 0.005-00 | 0.008-00 | 0.006-00 | 1.086-10 | |
| 0.005-00 | 6.896-02 | 5.675-11 | 1.615-06 | 1576-05 | 5.366-03 | 4.195-02 | 5.7%-42 | 8.406-02 | 6.896+02 | 0.008+00 | 0.008+00 | 0.006-00 | 0.005-05 | 0.008-00 | 0.008-00 | \$ 175-10 | |
| 0.008~00 | 7.616=02 | 6.68E-12 0.008 +00 | 4.008-07 | 1.286-05 | 3 005-03 | 2.918-02 | 4.158-02 | 6.336-02 | 7.618-02 | 0.008-00 | 0.005+00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.005-00 | 5.375-09 | |
| 0.000-00 | 8.408-00 | 0.00E-00 5.0HE-12 | 8.798-08 | 5.746-06 | 8,285-04 | 1.958-02 | 2,896-02 | 4,656-02 | 5.408+02 | 0.000-00 | 0.008+00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 1.046-07 | |
| 0.008-00 | 1.006-00 | 1.635-12 | 4 952-09 | 2,768-07 | 3.935-04 | 7.681-03 | 1.278-02 | 2.246-02 | 1.006-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.006-00 | 0.088-00 | 0.005-000 | 3.146-07 | |
| 0.006-00 | 1.025-05 | 0.008-00 | 4 996-05 | L018-07 | L785-04 | 4,595-01 | 7,942-03 | 1.476-02 | 1.028-08 | 0.006+00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 4.122.07 | |
| 0.005-00 | 1.136-00 | 1.286-12 | 4.628.09 | 4.635.08 | 4.902-05 | 2,538-03 | 4.628-03 | 9.308-03 | 3.136-00 | 0.008-00 | 0.008+00 | 0.008-00 | 0.006-00 | 0.008-00 | 0.008-00 | 1.162-06 | |
| 0.000-00 | 1.258-00 | 1.856-12 | 8.946-35 | 1.846-08 | 2.548-05 | 4.905-04 | 1.415-08 | 5.528-03 | 1.258-08 | 0.008-00 | 0.008+00 | 0.005-00 | 0.008-00 | 0.008-00 | 1.528-15 | 2.196-06 | |
| 0.005+00 | 1.528=00 | 1.876-12 | 1.096-10 | L802-09 | 1.065-06 | 4.106-04 | 9.188-04 | 1058-03 | 1528-03 | 0.008+00 | 0.008+00 | 0.006-00 | 0.008+00 | 0.008-00 | 6.196-14 | 6.975-06 | |
| 0.008-00 | 1.685+03 | 1.136-13 | 4.875-12 | 9.038-20 | 146.05 | 1,902-04 | 8.598-04 | 2.078-43 | 1.686+03 | 0.006+00 | 0.006+00 | 0.006-00 | 0.008 -00 | 0.008 -00 | 2.186-42 | 5.186-06 | |
| 0.005-00 | 1.866+00 | 7.485.54 | \$798-41 | 2.306-00 | 1505-06 | 5.495.04 | 1245-08 | 1.096-03 | 1,864+08 | 0.005-00 | 0.005+00 | 0.005-00 | 0.005-000 | 0.005-00 | 5.856-11 | 1.186-05 | |
| 0.000-00 | 2.246+00 | 7.836-15 | 2.758-12 | 1.396-11 | 1.296-06 | 1.575-04 | 4.445-04 | 1.585-03 | 2.056+00 | 0.008-00 | 0.008+00 | 0.008-00 | 0.008-00 | 0.008-00 | 4.356-10 | 2.236-05 | |
| 0.000-00 | 2.505-00 | 1.645-14 | 9.365-13 | 4.782-12 | 4,218-08 | 5.096-05 | 1396-04 | 6.305-04 | 2.506+00 | 0.008-00 | 0.008-000 | 0.008-00 | 0.005-00 | 0.008-00 | 1.415-08 | 2.196-05 | |
| 0.006-00 | 2.746+05 | 0.008+00 | 5.896-13 | 7.728-14 | 4.088-09 | 1.496-05 | 5.186-45 | 2.286-04 | 2,768+08 | 0.008+00 | 0.008-00 | 0.006-00 | 0.008-00 | 0.008-00 | 1.496-08 | 2.768-05 | |
| 0.005+00 | 3.005+00 | 0.005-00 | 6.276-05 | 5.236-14 | 5.725-10 | 3.856-06 | 1.516-05 | 7.45E-05 2.188-05 | 3.006+00 | 0.005+00 | 0.008-00 | 0.008-00 | 0.005+00 | 1.1%-18 | 7.156-08 | 2.308-05 | |
| 0.000-00 | 5.345-05 | 0.008-00 | 0.008-00 | 0.008-00 | 5.346-12 | 1.562-07 | 8.418-07 | 1.758-05 | 3.342+05 | 0.005+00 | 0.000-00 | 0.008-00 | 0.005-00 | 2.638-18 | 1.665-07 | 2.542.05 | |
| 0.006+00 | 8718+08 | 0.000 +00 | 0.008+00 | 0.006-00 | 1.906-13 | 2.296-08 | 1548-07 | 1.288-06 | 8.718+00 | 0.008-00 | 0.008+00 | 0.008+00 | 0.005+00 | 1.136-14 | 3.358-07 | 2.768.05 | |
| 0.006-00 | 4.108-08 | 0.008-00 | 0.008-00 | 0.006-00 | 638-14 | 1.028-09 | 2.496-06 | 2.548-07 | 4.106+08 | 5.006+00 | 0.005+00 | 6.008-00 | 0.008-00 | 1.028-13 | 6.485.07 | 2.736.425 | |
| 2.085-18 | 4.536-00 | 0.008-00 | 0.008-00 | 0.006-00 | 8.855-14 | 1.506-10 | 3,575-10 | 4.305-08 6.175-09 | 4.536+08 | 0.005-00 | 0.005-00 | 0.005-00 | 0.005-00 | 2.638-12 | 1.096-07 | 2.496.05 | |
| 1.696-14 | 5.528-03 | 0.008-00 | 0.008-00 | 0.006-00 | 6.410-04 | 8.308-12 | 1438-10 | 1.508-09 | 5.528+03 | 0.008-00 | 0.006+00 | 0.008-00 | 0.008-00 | 2,838-13 | 8.596-07 | 2.008-05 | |
| 4.246-53 | 6.096-00 | 0.001-00 | 0.008+00 | 3.756-16 | 9.575-14 | 1.625-12 | 1.016-11 | 6.715-10 | 6.096+08 | 0.006+00 | 0.005+00 | 0.005-00 | 0.005-00 | 2.408-03 | 8.628-07 | 1346-05 | |
| 5.725-12 | 6.736+00 | 0.005+00 | 0.008-00 | 0.008-00 | 4,862-14 | 4.158-13 | 8.268-52 | 6.676-01 | 6.738+00 | 0.008+00 | 0.006+00 | 0.005-00 | 0.006-00 | 1.768-12 | 5.556-07 | 1,758-05 | |
| 5.126-11 | 7.436=00 | 0.006+00 | 0.006+00 | 0.006+06 | 6.008-00 | 4.435-13 | 6.738-13 | 2.236-62 | 7.436+00 | 0.008+00 | 0.008+00 | 0.005~00 | 0.006-05 | 2.146-12 | 4.158-07 | 1.552-05 | |
| 3.115-10 1.586-29 | 8.208-00 | 0.008+00 | 0.008+00 | 0.006-00 | 0.008+00 | 5.436-12 | 6.696-13 4.338-12 | L #58-12 8-158-12 | 8.208+03 | 0.008-00 | 0.005+00 | 0.008-00 | 0.005+00 | 3.975-13 | 3.375-07 | 1516-05 | |
| 1.588-09 6.825-09 | 1.005+04 | 0.006+00 | 0.006+00 | 0.006-00 | 9 355-13 | 8.166-12 | 4.538-12 | 2.046-01 | 1.000-04 | 0.008+00 | 0.008+00 | 0.008-00 | 0.008-00 | 1.296-13 | 2.628-07 | 3.136-05 | |
| 6.836-09 | 1.008-04 | 0.908+00 | 0.008+00 | 0.008-00 | 1.938-12 | 4.296-12 | 5.268-12 | 9.106-12 | 1.008+04 | 0.008+00 | 0.008+00 | 0.008-00 | 0.006-00 | 1.296-18 | 1.706-07 | 9.138-06 | |
| 1.726-48 | 1.102-04 | 0.005+00 | 0.008-00 | 0.008-00 | L #96-L2 | 6.878-12 | 3.465-12 | 1.996-11 | 1.105-04 | 0.006+00 | 0.000+00 | 0.006-00 | 0.006+00 | 2.138-14 | 9.605-08 | 5.402-06 | |
| 5.886-06 | 1.228+04 | 0.000+00 | 0.006-00 | 1.846-13 | 2,246-12 | 8.676-12 | 8798-12 | 1290-01 | 1.225+04 | 0.005-00 | 0.008+00 | 0.008-00 | 0.005-00 | 1.908-14 | 4.736-08 | 6.632-06 | |
| 1.286-07 | 1.858-04 | 1.695-25 | 4.925-03 | 7.408-13 | 4.105-12 | 1.036-11 | 1,226-11 | 1,705-01 | 1.850-04 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 3.128-15 | 2.728-08 | 1.738-06 | |
| 5.368-67 | 1.646+04 | 5.815-16 | 6.758-15 | 1.318-13 | 2.278-12 | 8.628-12 | 1.125-11 | 1.798-11 | 1.640+04 | 0.006-00 | 0.008+00 | 0.008-00 | 0.008+00 | 3.246-15 | 4 568-09 | 1.058-06 | |
| 8.456-07 | 1,818-04 | 0.008+00 | 0.008-00 | 4,958-18 | 9.452-25 | 4,048-14 | 8.308-04 | 2.266-03 | 1.812+08 | 0.008-00 | 0.008+00 | 0.008-00 | 0.008-00 | 2.798-15 | 1.516-09 | 7.238-07 | |
| 1.396-06 | | | | | | | | | | | | | | | | | |

| x7NBA Antemportanal N | Anamia | Catinum | Division | Copper | Last . | Marrury |
|---|---|--|---|--|--|---|
| Concentration in groundwater (mg/) Time function (or Perspect Shit Perspect Shit Perspect Shit Perspect Shit Perspective 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | Concentration III provideates (Ing)[Time Install 38 Percent 30h Percent 30h Percent 30h Percent 90h Percent 99h Percent 39h Percentile この(マーク) 0.05(マーク) 0.05(マーク) 0.05(マーク) 0.05(マーク) 0.05(マーク) 0.05(マーク) | Concentration in groundwater [mg/l] Time fuend: Lot Property Stri Property 20th Persons 30th Persons 30th Persons 39th Personsite 0.0024-00 0.0024-00 0.0024-00 0.0024-00 0.0024-00 0.0024-00 0.0024-00 | Concentrantice in groun diverse [ing/] Time Twend Lat Present Sch Present 20th Present 30th Present 30th Present 30th Present 30th Presentite 0.0024-00 0.0024-00 0.0024-00 0.0024-00 0.0024-00 0.0024-00 0.0024-00 | Concentration in groundwater [mg1] Time learn? Ent Personii Sh Personii 12h Personi 50h Personi 50h Personi 50h Personi 50h Personite 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 | Concentration in groundwater [reg/] Tree Inexed int Ansanti Sin Pergeni (200 Pergeni 300 Pergeni 300 Pergeni 300 Pergeni 300 Pergeni 500 Pergeni 0.001-00 0.001-00 0.001+00 0.001-00 0.001-00 0.001-00 0.001-00 | Concentration in provinduatior (Ing)[] Time Instanti 3 (A Personi 3 20, Amount 3 20, Personi 1 20, Personi 1 20, Personi 2 20, P |
| 1002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1008-00 1008-00 1008-00 1008-00 1008-00 1008-00 1008-00 | 1008-00 2488-13 1888-17 6408-17 1428-15 1128-13 2308-13 4598-13 | 1.001-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1.008-00 0.002-00 0.008-00 0.008-00 0.008-00 0.002-00 0.008-00 | 1008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 2.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 2008-00 3748-12 1478-10 4438-10 2158-08 4408-07 7148-07 1128-06 | 2,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 | 2008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 8.00E+30 0.00E+30 | 300E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 400E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 8,00(=00 0,0)))))))) | 1001-00 5206.09 8726.08 2306.07 4586.06 5386.05 7346.05 1326.04 4008-00 1546.07 1346.06 5586.06 7476.05 6486.04 6256.04 1376.03 | 1.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 4.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 | 1008-00 5.008-00 5.008-00 5.008-00 5.008-00 5.008-00 5.008-00 4.008-00 5.008-00 5.008-00 5.008-00 5.008-00 5.008-00 5.008-00 | 8.006-00 6.006-00 0.006-00 0.008-00 0.006-00 0.006-00 0.008-00 4.006-00 0.006-00 0.006-00 0.006-00 0.008-00 0.008-00 0.008-00 |
| 5.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 4.88E-19 | 5.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 5001-00 742E-04 757E-05 142E-04 146E-01 411E-03 479E-03 5476-03 | 5.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 5.005-00 0.001-00 0.001-00 0.005-00 0.005-00 0.001-00 0.001-00 | 5.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 |
| 6.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 1.018-16 | 6.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 4.00E-00 0.00E-00 0.00E-00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 4000-00 1890-04 7202-04 1270-03 4290-03 7240-03 7270-03 9460-03 | 6.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 4.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 6.00E-00 0.00E-00 0.00E+00 0.00E+00 0.00E-00 0.00E-00 0.00E-00 |
| 7.006-00 0.008-00 0.008-00 0.008-00 0.008-00 1.388-29 4.278-19 2.858-15 8.006-00 0.006-00 0.006-00 0.006-00 0.008-00 8.236-29 2.398-18 1.406-12 | 7008-00 5008-00 5008-00 5008-00 5008-00 5008-00 5008-00 5008-00 8008-00 5008-00 5008-00 5008-00 5008-00 5008-00 5008-00 | 7.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 8.008-00 0.008-00 0.006-00 0.008-00 0.008-00 0.008-00 | 7,008-00 1588-01 5186-01 4246-01 4388-03 9346-03 1008-02 1288-02 8,008-00 4076-01 5086-01 506-01 7468-08 8,766-01 1286-02 1286-02 | 7008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 7,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 | 7.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 |
| \$.008+00 0.008+00 0.008+00 0.008+00 0.008+00 2.406-16 1.708-13 5.528-11 | 8.095-00 00-0010 00-0010 00-0010 00-0000 00-0000 00-0000 00-000 | \$008-00 0.006-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 800E-00 3.79E-03 4.38E-03 4.99E-03 6.65E-03 5.99E-03 5.63E-08 1.13E-02 | \$.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | \$205-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 9.006-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 1002-01 0.002-00 0.002-00 0.002-00 0.002-00 0.102-13 1.145-10 2.545-09 | 1.008-01 5.008-00 5.008-00 5.008-00 5.008-00 5.008-00 5.008-00 | 1002-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1006-01 1086-03 1796-03 4086-03 5546-03 7506-03 8156-03 9.716-03 | 100-2010 00-2010 00-2010 00-2010 00-2010 00-2010 00-2010 12-2011 | 1.008-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1005-01 0306-00 0306-00 0306-00 0306-00 0306-00 0306-00 |
| L108-01 0.008-00 0.008-00 0.008-00 2.008-0 5.748-11 1.848-09 3.188-08 1.108-01 0.008-00 0.008-00 0.008-00 1.988-18 8.948-00 1.388.08 1.438.07 | 110-01 200-00 200-00 200-00 200-00 200-00 200-00 200-00 130-01 200-00 200-00 200-00 200-00 200-00 200-00 | 1.108-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 1.508-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.08-01 2.776-01 3.08-01 1.676-01 4.906-05 6.546-01 7.076-01 8.886-01 1.588-01 2.546-01 3.126-01 1.446-08 4.756-08 4.356-03 4.586-08 7.946-08 | 1326-01 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 1308-01 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 | 1.005-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 1.005-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1300-01 0300-00 0300-00 0300-00 0300-00 0300-00 0300-00 0300-00 1300-01 0300-00 0300-00 0300-00 0300-00 0300-00 0300-00 |
| 1.408-01 0.008-00 0.008-00 0.008-00 1.808.04 2.228-09 5.178-08 4.398-07 | 2.408-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.40(-01 0.00(-00 0.006-30 0.006-30 0.006-30 0.00(-00 0.006-30 | 1408-00 2306.05 2376.05 2306.05 4566.05 6.046.05 6.546.05 7.786.05 | 1.408-05 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1408-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.406-01 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 |
| 1.806-01 0.006+00 0.006+00 0.008+00 2.656-05 4.866-09 1.228-07 9.176-07 | 1408-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1606-01 0.006-00 0.006-00 0.006-00 0.008-00 0.008-00 0.008-00 | 1408-01 2108-01 2108-03 3108-03 4408-03 5308-03 6.408-03 7.448-03 | 1408-00 00-900.0 00-900.0 00-900.0 00-900.0 00-900.00 | 1408-05 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 | 1406-01 0,006-00 0,006-00 0,006-00 0,006-00 0,008-00 0,008-00 |
| 1.706-01 0.006+00 0.008+00 0.006+00 7.026-34 2.008-08 2.876-07 1.686-06 1.908-01 0.008+00 0.008+00 0.008+00 1.588-13 5.118-08 4.798-07 2.598-04 | 1705-01 0.005-30 0.005-30 0.005-30 0.005-00 0.005-00 0.005-00 1.905-01 0.005-30 0.005-30 0.005-30 0.005-00 0.005-00 | 1.708-01 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 1.908-01 0.006-00 0.006-00 0.006-00 0.008-00 0.006-00 0.006-00 | 1768-01 1905-01 1755-05 8015-05 4325-08 5.765-05 4.365-05 7.525-08 1.908-01 1.966-05 2.468-05 2.808-05 4.188-05 5.538-05 6.568-05 7.278-08 | 1.705+01 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 1.905+01 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 | 1.758-452 0.008-450000000000000000000000000000000000 | 1706+01 0.006+0000+000+000+000+000+000+000+000+0 |
| 2108-01 0.008-00 0.008-00 0.088-00 1.896-12 1.426-07 9.646-07 3.578-04 | 2106-01 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 2108-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2108-01 L108-01 2368-05 2468-05 1378-05 538-05 536-05 724-05 2108-01 L108-01 2368-05 2468-05 1378-05 5388-05 5368-05 | 2.324-05 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.30E-05 0.30E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 2.206-05 0.006-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 2308-01 0306-00 0306-00 0306-00 2.666-12 3.725-07 1.646-06 4.625-06 | 2.306-01 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 2305-02 0.005-00 0.005-00 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 | 2 806-01 1 126-03 2 146-03 2 496-03 3 346-03 5 256-03 5 726-03 6 296-03 | 2.05-01 0.05-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 2306-02 0306-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 3.306-01 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 |
| 2408-01 5.008-00 5.008-00 5.008-00 5.206-12 7.276-07 2.188-06 5.578-06 2408-01 5.008-00 5.008-00 1.995-17 1.076-01 1.176-06 5.188-06 5.4462-06 | 2408-01 0008-00 0008-00 0008-00 0008-00 0008-00 0008-00 2400-01 0008-00 0008-00 0008-00 0008-00 0008-00 0008-00 | 2408-01 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 2408-03 8408-04 1998-08 2398-08 5498-08 5498-08 5598-08 5598-08 5598-08 5598-08 5598-08 5598-08 5598-08 5598-08 | 2408-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 140E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 2406-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 3.201-01 0.001+00 0.001+00 4.010-17 1.220-10 1.810-06 3.980-06 7.050-04 | 3206-01 0.006-00 0.006-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1208-01 0.008-06 0.008-06 0.008-00 0.008-00 0.008-00 0.008-00 | 1208-01 5.996-04 L538-03 L978-03 3.316-03 4.696-03 5.176-03 6.168-03 | 128-01 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 | 1.258-01 0.908-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1208-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
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| 3.000-01 0.000-00 5.640-17 1.510-04 1.670-08 3.480-06 5.480-06 6.570-06 4.500-01 0.500-00 3.642-06 4.470-14 7.100-06 4.550-06 5.562-06 9.560-06 | 1905-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 4.005-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1502-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 4.002-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1908-01 1985-04 1155-01 1405-01 1985-01 4345-01 4395-01 5305-01 4398-01 2425-04 9325-04 1405-03 2386-01 4485-01 5465-01 | 1.902-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1.902-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 4.902-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1502-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 |
| 4706+01 0.006+00 1.258-34 2.158-13 2.026-07 4.698.06 6.278.06 9.268.06 | 4708-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 4708-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 4708-05 1.878-04 8.228-04 1.228-05 2.408-05 1.918-05 4.288-05 5.208-05 | 4.708-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 4.708-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 4.702-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 |
| \$208+01 0;008+00 6;338-34 1;238-02 4;296-07 5;228-06 6;608:06 9;838:06 | \$208-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 5.206-02 0.006-08 0.006-30 0.006-30 0.006-00 0.006-00 0.006-00 | 5.20E-01 124E.04 6.75E.04 104E.05 2.38E.05 5.67E.05 4.55E.05 4.55E.05 | \$208-00 0.006-00 0.006-00 0.008-00 0.008-00 0.008-00 0.008-00 | 5.208-05 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 5.206-01 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 |
| 578440 178547 234541 447541 78547 545546 546546 346546 | 1784-01 1784-00 1784-00 1784-00 1784-00 1784-00 1784-00 | 5700-01 2000-00 2000-00 2000-00 2000-00 2000-00 2000-00 | 57040 T9205 51000 17600 11700 18500 17600 44000 | CTRACK ANNAUE ANNAUE ANNAUE ANNAUE ANNAUE ANNAUE ANNAUE | 178-01 198-00 198-00 198-00 198-00 198-00 198-00 198-00 | STREET ENVIRON ENVIRON ENVIRON ENVIRON ENVIRON |
| 6.400+01 9.06E-06 2.52E-02 9.00E-00 1.24E-06 5.79E-06 6.99E-06 9.58E-06 | 6.408=01 0.008=00 0.008=00 0.008=00 0.008=00 0.008=00 0.008=00 | 640E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 6406-01 4928-05 4138-04 7.228-04 1.958-03 1.208-03 1.538-03 4.346-03 | 6.408-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 5.405-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | £406-01 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 |
| 7008-01 1736-04 2,766-11 6.686-09 1.696-06 5.826-06 6.986-06 9.306-04 | 7.005-01 5.005-00 5.005-00 5.005-00 5.005-00 5.005-00 5.005-00 | 7.005-02 0.005-00 0.005-00 0.005+00 0.005+00 0.005+00 0.005+00 | 7.005-01 3.125-05 3.225-04 5.955-04 1.765-05 2.965-03 3.3155-03 4.065-03 | 7.005-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 7.005-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 7.006-01 0.006-00 0.006+00 0.006+00 0.006-00 0.006-00 0.006-00 |
| 7.858-01 3.276-04 4.858-00 2.908-08 2.068-04 5.786-06 6.878-06 8.998-06 8.608-01 3.508-14 4.828-29 3.138-07 2.368-06 5.788-06 6.838-06 8.948-06 | 7.808-02 8.008-00 6.088-00 6.008-00 6.008-00 6.008-00 6.008-00 8.608-01 6.008-00 6.008-00 6.008-00 6.008-00 6.008-00 | 7.000-01 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 8.400-01 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 7.802-01 2.022-05 2.522-04 4.592-04 1.622-03 2.792-03 3.002-03 1.822-03 8.602-01 1.242-05 1.862-04 3.502-04 1.422-03 2.572-03 2.872-03 3.542-03 | 7 80E-01 000E-00 | 7.608-01 0.008-0000000000 | 7.50E-01 0.00E-00 0.00E-000E-0 |
| 8.502-01 7.452-04 2.842-08 2.442-07 2.622-06 5.742-06 6.742-06 8.446-06 | \$ 50E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | \$50E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | \$500-01 7.7% 06 1.5% 04 1.15% 04 1.7% 01 2.5% 01 2.5% 03 1.5% 03 | 5.502-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 8.50E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 9.508-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 1,058-02 5,006-04 8,046-08 8,738-07 2,678-06 5,686-06 6,568-06 8,208-06 1,548-02 8,226-04 1,546-07 5,276-07 2,568-06 5,428-06 6,428-06 7,658-06 | 1058-02 5058-08 5058-08 5058-08 5058-08 5058-08 5058-08 5058-08 1168-07 5058-08 5058-08 5058-08 5058-08 5058-08 5058-08 5058-08 | 1.098-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 1.148-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1058-02 4388-06 9478-05 2488-04 1118-03 2388-03 2488-03 8548-03 1388-02 2188-06 4478-05 12856-06 9418-06 1388-03 2388-03 2388-03 | 1286-02 0.008-00 0.008-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1282-00 0306-00 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 | 1052-02 0.002-00 0.002-00 0.002-00 0.002-00 0.008-00 0.002-00 0.002-00 1.002-00 0.002-000-000-000-000-000-000-000-000-00 |
| 1288-02 2436-04 2116-07 5.076-07 2596-06 5.276-06 6.106-06 7.166-06 | 1,288-02 0,006-00 0,006-00 0,006-00 0,006-00 0,008-00 0,008-00 | 1288-02 0.088-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1288-02 8.968-07 8.988-05 1288-04 7788-04 1346-03 1.988-03 2.486-03 | 128-02 0008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1,254-02 0,005-00 0,005-00 0,005-00 0,005-00 0,005-00 0,005-00 | 1285-02 0.000-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 1411-02 646-04 1896-07 4425-07 2316-06 4316-06 54316-06 6406-06 1568-02 5086-04 1326-07 1486-07 2016-06 44916-06 5326-06 6326-06 | 140F-00 006-00 006-00 006-00 006-00 006-00 000-000 000-00 140F-00 006-00 006-00 006-00 006-00 006-00 000-00 | 1412-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.54E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 148-42 4346.07 2326.05 8.816.06 4.496.04 1536.03 1756.05 2326.05 1546-42 1536.07 1346.06 5.526.06 5.356.06 1536.01 1536.05 1556.05 | 1402402 0008400 0.008400 0.008400 0.008400 0.008400 0.008400 0.008400 | 1412-02 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 1468-02 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 | 1418-02 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 |
| 1566-02 506-04 1526-07 1466-07 2016-06 5126-06 5126-06 5226-06 1726-02 2126-03 5026-08 2466-07 1446-06 8206-06 5326-06 5326-06 | 158E-02 0.00E-00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 172E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 1.54E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.72E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 1566-02 1508-07 1396-05 5528-05 5286-06 1328-03 1508-05 1328-03 1728-02 5258-08 7598-06 1338-05 4108-04 1128-03 1388-08 1498-08 | 1582-02 0002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 1729-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1562-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.72E-02 0.00E-00 0.00E-000E-0 | 1368-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1726-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 |
| 1.905-02 1.425-03 4.516-08 1.636-07 1.326-06 3.376-06 4.005-06 5.396-06 | 1.905-02 5.005-00 5.005-00 5.005-00 0.005-00 0.005-00 0.005-00 | 1.908-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1808-02 1526-08 1796-06 1916-05 1096-04 9,296-04 1126-03 1426-03 | 1.905-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1.905-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1.506-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 |
| 2108-02 5585-04 2716-08 9.825-08 1.006-06 2.786-06 3.426-06 4.866-06 2.828-02 6.016-04 3.808-08 5.238-08 7.288-07 2.246-06 2.828-06 4.218-06 | 2.105-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 2.325-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 2.108-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 2.128-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2308-02 3508-09 1778-06 1078-05 2208-04 7568-04 9308-04 1228-09 2308-02 8548-10 7788-07 5438-06 1428-04 4388-04 7338-04 1428-09 | 118-02 008-00 008-00 008-00 0.082-00 0.002-000 0.002-000 0.002-000 0.002-0000000000 | 2.128-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.105-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 2.325-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 |
| 2542-02 2125-03 5216-09 2458-09 5.066-07 1.776-06 2.348-06 3.376-06 | 2548+02 5.006+30 5.006+30 0.006+00 0.006+00 0.008+00 0.008+00 | 2566-02 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 2565-02 1665-02 1125-07 2765-06 1115-06 4696-06 6.025-06 8.065-06 | 2562-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.548-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.542-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 |
| 2.628+02 8.262-04 2.228-08 1.276-08 3.386-07 1.346-08 1.746-06 2.728-06 8.000+02 2.502-04 8.896-35 5.386-08 2.346-07 1.000-06 1.946-06 2.328-06 | 2.826-02 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 2.525-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 2.828-62 2.925-11 1.18-07 1.262-06 7.312-05 1.608-04 4.736-04 6.696-04 1.008-62 8.476-12 8.426-06 5.206-07 4.562-05 2.676-04 8.686-04 5.206-04 | 2.827-62 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.522-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 2.828-02 0.008-0000000000 |
| 3 121-92 6/95-03 3 296-00 2 326-09 1 406-07 7 676-07 1 298-06 1 798-06 | 308=32 6388=30 5588=30 5588=30 0308=30 0308=30 0308=30 0308=30 3.128=32 0308=30 0308=30 0308=30 0308=30 0308=30 0308=30 | 3128-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 112E-02 14/0-12 14/2-08 5/2E-07 4/36E-06 24/2-04 14/E-04 5/2E-04 112E-02 7/9/E-13 1/9/E-08 2/0/E-07 2/9/E-08 1/9/E-04 1/9/E-04 | 3122-02 0.08-00 0.08-00 0.08-00 0.082-00 0.082-00 0.082-00 0.082-00 | 1122-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 3128-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 1446-02 1406-05 1316-00 1316-09 \$376-06 4:066-07 8:256-07 1468-06 | 1446-02 0.006-00 0.006-00 0.008-00 0.008-00 0.008-00 0.008-00 | 8448-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1465-02 8.852.14 2.708-09 7.186-08 1.596-05 1.376-04 1.996-04 1.086-04 | 8.448-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.446-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 | 1440-02 0.000-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 1,806-02 8,016-08 8,756-02 8,826-00 8,828-08 4,356-07 8,906-07 1,046-06 4,206-02 2,426-06 9,016-02 1,948-02 2,926-08 2,886-07 4,146-07 7,026-07 | 3.80E+32 0.00E+30 0.00E+30 0.00E+30 0.00E+30 0.00E+30 0.00E+30 4.20E+32 0.00E+30 0.00E+30 0.00E+30 0.00E+30 0.00E+30 | 8.80%-02 0.00%-00 0.00%-00 0.00%-00 0.00%-00 0.00%-00 0.00%-00 4.20%-02 0.00%-00 0.00%-00 0.00%-00 0.00%-00 0.00%-00 1.516-0% | 1808-02 7676-15 5.996-35 2.126-08 8.626-06 9.966-05 1.006-04 2.226-04 4.208-02 3.966-15 1.176-00 4.506-06 4.308-06 4.308-05 3.408-05 1.576-04 | 1.805+02 0.005+00 0.005+00 0.005+00 0.005+30 0.005+30 0.005+30 4.205+02 0.005+00 0.005+00 0.005+00 0.005+30 0.005+30 0.005+30 | 3.806-00 0.006-00 0.008-00 0.008-00 0.008-00 0.008-00 0.006-00 4.308-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 3.806-02 0.306-30 0.006-30 0.006-30 0.006-30 0.006-30 0.008-30 0.008-30 4.206-02 0.006-30 0.008-30 0.008-30 0.008-30 0.008-30 0.008-30 |
| 4.645-02 3.540-07 2.680-02 4.240-03 1.470-08 1.900-07 2.810-07 4.890-07 | 4.648-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 1.116-17 | 4.646-02 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.168-18 | 4.640-02 1.208-15 1.940-11 1.658-09 2.218-06 1.918-05 4.496-05 1.138-04 | 4.640-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 4.54E-02 0.002-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 4.546+02 0.006+00 0.006+00 0.006+00 0.006+00 0.008+00 0.008+00 |
| 5.128-02 6.896-08 4.046-03 1.226-01 7.076-09 1.176-07 1.896-07 3.156-07 5.658-02 7.916-09 6.856-04 5.446-02 8.296-09 7.196-08 1.186-07 2.128-07 | 5.128-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 2.868.13 5.458-02 0.008-00 0.006-00 0.008-00 0.008-00 0.008-00 1.086.03 | 5.12E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 7.44E-07 5.45E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.14E-05 | 5128-02 105614 1346-02 5126-00 1356-06 2646-05 6476-05 8356-05 5458-02 809614 5256-01 1346-05 6556-07 1276-05 8366-05 6296-05 | 5.125-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 5.126-02 5.006-00 5.006-00 5.006-00 5.006-00 5.006-00 5.006-00 5.666-02 5.006-00 5.006-00 5.006-00 5.006-00 5.006-00 | 5.12E-02 0.00E-00 0.00E-00000E-0000000E-0000000000 |
| 4.246-42 2.246-23 1.286-24 1.066-12 2.086-09 5.526-09 9.446-08 1.636-07 | 4246-02 5306-00 5306-00 5306-00 5306-00 5306-00 5306-00 1366-25 | 6246-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.14E-14 | 6346-02 0.008-06 2.785-13 1.945-11 1.945-07 1.245-05 1.345-05 4.385-05 | 6.340-40 0.000-40 0.000-40 0.000-40 0.000-40 0.000-40 0.000-40 | 6.246-02 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | \$245-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 |
| 6.898-02 0.000-00 1.005-05 2.170-01 8.446-00 3.170-00 5.746-00 5.846-00 7.618-02 0.008-00 8.136-17 3.186-18 2.542-00 1.662-00 3.156-08 5.886-08 | 6.895-02 0.005-00 0.005-00 0.005-00 0.005-00 1.335-33 1.465-08 7.432-02 0.005-00 6.005-00 6.005-00 1.216.54 4.305.00 7.446.08 | 6.895-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 6.485-0 7.612-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 2.855-12 | 6.098-02 0.008-00 2.408-04 9.748-02 1.478-07 6.608-06 1.338-05 2.648-05 7.638-02 2.678-35 6.678-35 1.582-12 4.548-08 3.318-06 6.588.06 1.588-05 | 6.890-02 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 5.896-02 0.060-00 0.060-00 0.000-000- | 5.892-02 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 |
| 7.612+02 0.002+00 8.132-17 3.132-14 2.962-00 1.662-08 3.152-08 5.882-08 8.802+02 0.002+00 4.992.08 3.802.05 9.402.01 8.002.09 1.402.08 1.102.08 | 7.618-02 0.000-00 0.000-00 0.000-00 1.216-36 4.306-30 7.446-08 8.406-02 0.000-00 0.000-00 0.000-00 7.276.43 5.406.06 2.116.07 | 7.632.402 0.006.400 0.0000 0.006.4000 0.006.400 0.006.400 0.006.400 0.006.400 0.006.400 0.006.400 0.006.400 0.006.400 0.006.400 0.006.400 0.006.4000 0.006.4000 0.006.400 0.006.4000 0.006.4000 0.006.4000 0.006.40000000000 | 7410-02 2470-15 6470-15 1260-12 4540-08 1310-06 6300-06 1400-05 8400-02 0.000-00 1470-15 8400-14 1430-06 1470-06 1400-06 | 7412-02 0308-00 0308-06 0308-08 0308-08 0308-08 0308-06 0308-06 | 7.518+02 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 | 7.512-62 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 |
| \$296-02 0.008-00 2.51E-18 2.80E-16 2.75E-11 3.62E-09 7.99E-09 1.77E-08 | \$286-02 0.000-00 0.000-00 0.000-00 1.046-20 2.196-08 1.546-07 | \$286-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 2.838-00 | \$256-02 \$466-15 2186-14 3578-14 4006-05 6.858-07 1.858-06 4.398-06 | \$286-62 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 9.282-02 0.001-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 5.256-02 0.006-00 0.006-00 0.006-00 0.006-00 0.008-00 0.008-00 |
| 1.000+01 0.000+00 7.18E-18 9.37E-16 7.34E-12 1.52E-09 3.73E-09 8.88E-09 1.02E+03 0.000+00 4.12E-17 1.64E-15 1.54E-12 5.30E-10 1.58E-09 4.14E-09 | 100E-03 0.00E-00 0.00E-00 0.00E+00 0.14E-09 5.97E-08 4.52E-07 102E-03 0.00E-00 0.00E+00 0.00E+00 0.14EE-0E 1.23E-07 6.02E-07 | L00E+03 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 6.43E-00 L03E+03 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 7.83E-00 | 1.008-03 5.008-00 3.455-15 2.338-13 1.088-09 2.458-07 7.158-07 2.146-06 1.028-03 0.008-00 0.008-00 3.446-13 4.148-10 9.958-08 2.906-07 9.646-07 | 1.00E+03 0.00E+00 | 1000-08 0.000-00 5000-00 5000-00 5000-00 5000-00 5000-00 1020-05 0.000-00 5000-00 5000-00 5000-00 5000-00 5000-00 | 100E-05 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 102E-05 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 |
| L18E-08 0.00E+00 2.55E-17 2.08E-15 7.25E-13 2.25E-10 6.34E-10 1.82E-09 | 1136-03 0.006-00 0.006-00 0.006-00 0.006-00 0.366-06 1.306-07 6.896-07 | L18E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.29E-09 | 1136-03 0.008-00 1776-15 2,396-13 1.876-10 1.386-08 1.076-07 4.026-07 | 1136-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | L1H-05 0.00-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 1136-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 1256-08 0.006-00 2.576-07 6.986-06 2.696-08 7.676-02 2.286-00 7.286-00 | 1256-03 0.00E-00 0.00E-00 0.00E-00 7.86E-08 2.94E-07 8.47E-07 | 1.25(-0) 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.54E-09 | 1256-03 0000-00 4246-05 1046-03 6766-03 1056-08 1466-08 1546-07 1.007-03 0.008-00 1.086-04 1.046-04 2.046-03 1076-09 1.086-08 1.086-08 | 1.256-03 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 1256-05 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 1256-08 0.006-0000000000 |
| 1.388+08 0.000+00 2.006+08 8.126-17 1.306-13 2.226-13 7.456-13 2.596-10 1.528+08 0.000+00 0.000+00 5.686-17 5.336-14 6.296-12 2.256-13 8.540-13 | 1.18E-03 3.00E-00 5.00E-00 5.00E-00 5.00E-00 1.62E-07 4.34E-07 9.42E-07 1.53E-03 5.00E-00 5.00E-00 5.00E-00 5.00E-00 2.59E-07 5.40E-07 1.01E-06 | 1382-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 2.53E-0F 1.52E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1525-01 0.005-00 1.240-14 4.110-14 8.950-12 1.040-09 1.796-09 1.805-08 | 1.98E-03 0.00E-00 | 1.528-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1529-03 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 |
| 1486-08 0.006-00 5.246-09 6.066-08 2.006-04 1.986-02 6.286-02 2.546-03 | 1.685-03 0.00E-00 0.00E-00 5.896-05 1.456-07 5.696-07 1.076-06 | 144E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 7.75E-03 3.54E-09 | 1400-03 4306-17 4636-16 9.446-15 4,956-12 5,006-10 1,526-09 7,706-09 | 1,685-05 0,005-00 0,005-00 0,005-00 0,005-00 0,005-00 0,005-00 | 1486-08 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 1 KBE-05 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 |
| 1366-01 0300-00 1360-0 1560-0 2303-03 6306-0 1360-0 7570-02 2356-03 0300-00 0306-0 1560-0 1366-0 1380-0 1580-0 1580-0 1500-0 | 1362-03 0306-00 0306-00 0306-00 1562-02 4276-07 63%6-07 1356-06 2056-03 0306-00 0306-00 0306-00 1256-08 1556-06 5456-06 | 1848-03 0.000-00 0.000-00 0.000-00 0.000-00 1.036-04 0.468-09 2.058-03 0.000-00 0.000-00 0.000-00 0.000-00 7.146.04 4.466-09 | 1848-03 1868-17 1876-18 8028-15 1218-12 8896-00 1296-06 7186-09 2058-03 0.008-00 4.406-17 296-16 1126-13 2156-00 1226-09 9366-09 | 1368-03 0008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.842-03 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1.54E+03 0.506+30 0.506+30 0.506+30 0.506+30 0.508+300+300+308+300+308+300+308+300+308+300+308+308 |
| 2,262+03 0.000+00 0.000+00 1.915-19 1.822-16 2.208-13 1.562-12 1.038-13 | 2268-03 0.008-00 0.008-00 5.752-25 5.875-06 1.808-06 4.888-06 0.012-06 | 2,362-03 0,006-00 0,006-00 0,008-00 0,008-00 0,008-00 1,568-12 5,408-09 | 2.288-03 0.008-00 3.458-17 1.528-16 3.825-14 2.588-11 1.588-10 1.528-29 | 2352-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.362-08 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 2262-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 |
| 2506+01 0306+00 4346-30 3276-35 2.046-36 1436-34 2356-33 1598-32 2.546-38 0.006+00 0.006+00 2.586-38 2.546-35 2.546-14 2.546-13 | 2585-03 0.005-00 0.005-00 2.345-07 4.385-06 5.836-06 8.506-06 2.786-03 0.005-00 0.005-00 9.425-13 4.425-07 4.646-06 6.318-06 7.996-06 | 2500+01 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 2.346-11 8.686-05 2.748+01 0.000+00 0.000+00 0.000+00 0.000+00 1.626-03 1.396-08 | 2502+03 0,002+00 5,785-17 1,785-36 1,585-34 1,545-12 2,445-11 1,335-30 2,785+03 0,002+00 0,002+00 7,545-36 4,885-13 1,285-12 4,575-13 | 258-45 0.008-40 0.088-40088-400088-40088-4088-400888-4088-4088-4088-4088-4088-4088-4 | 2500-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 2.500-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 150E-03 630E+08 0.00E+00 0.00E+000E+0 |
| 2.562+03 0.002+00 0.002+00 0.002+00 2.596-18 2.562-15 2.946-14 2.946-13 3.002+03 0.002+00 0.002+00 1.386-18 2.006-16 2.056-15 3.408-14 | 2.762-03 0.002-00 0.002-00 9.425-13 4.625-07 4.646-06 6.118-06 7.995-06 1.002-03 0.002-00 0.002-00 4.452-11 6.902-07 4.666-06 6.225-06 7.625-06 | 2.768-03 0.008-00 0.008-00 0.008-00 0.008-00 1.428-03 1.598-08 3.008-03 0.008-00 0.008-00 0.008-00 0.008-00 3.588-03 2.498-08 | 2782-03 0.002-00 0.002-00 0.002-00 7.562-36 4.882-13 1.282-12 4.670-13 1.082-01 0.002-00 0.002-00 4.823-35 5.482-34 2.406-13 4.796-12 | 2.%E+05 0.00E+06 0.00E+000E+000E+000E+0000E+000E+000E+00 | 2.%E+00 0.00E+00 0.00E+000E+0 | 2.%E<65 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 7.65E-19 3.00E+05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 4.52E-13 |
| \$456+01 0306+00 0.006+00 0.006+00 \$478-15 1.556-17 1.228-16 3.588-15 | \$05E+03 0.00E+00 0.00E+00 2.48E-00 7.81E-07 4.46E-06 5.63E-06 7.45E-06 | 1056-01 0.006-00 0.006-00 0.008-00 1.118-17 4.506-10 2.536-08 | 1052-03 0002-00 0.008-00 0.008-00 1.096-16 9.28E-15 4.08E-14 1.83E-13 | 1052-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 1252-03 0206-06 0206-06 0206-06 0208-00 0208-00 0208-00 0208-00 | 3.058+08 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 1.058-12 |
| 1362-08 0.000+00 0.000+00 1.362-19 2.740-17 7.317-17 4.090-14 8.718-08 0.000+00 0.000+00 4.600-01 8.200-18 1.440-17 5.350-17 | 3.346-43 8.906-40 8.906-40 1.796-30 7.776-47 4.318-66 5.296-66 7.458-06 1.738-43 6.306-40 8.306-40 1.396-39 9.896-47 4.276-66 5.206.06 7.368.06 | 3346-03 0005-00 0005-00 0005-00 0005-00 5466-07 6.126-07 1526-08 8728-03 0005-00 0005-00 0005-00 0005-00 1.006-05 1.006-09 2.376-08 | 1.562-02 0.002-00 0.002-00 0.002-00 0.002-00 4.675-05 L.176-14 5.070-14 1.712-03 0.002-00 0.002-00 0.0026-00 6.6026-00 6.680-07 0.750-04 0.258-04 | 3362-05 0.00E-00 0.00E-0000000000 | 1.842-05 0.000-00 0.000-00 0.000-00 0.002-00 0.002-00 0.000-00 1.712-05 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 3.362-03 0.302-00 0.002-00 0.002-00 0.002-00 0.002-00 8.935-11 8.712-03 0.302-00 0.008-00 0.008-00 0.002-00 1.412-17 5.196-10 |
| 4.306-03 0.006-00 0.006+00 0.006-00 5.626-00 4.406-09 1.516-05 1.306-07 | 410(-0) 0.00(-00 0.00(-00 1.046-00 9.486-07 1.976-06 4.886-06 6.956-06 | 4.106-03 0.006-00 0.006-00 0.006-00 7.118-05 1.206-09 2.346-08 | #108-03 0.008-00 0.008-00 0.008-00 2.768-07 1.826-06 8.226-06 1.968-05 | 4.326-08 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 4.306-08 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 4.126-03 5.006-00 5.006-00 5.006-00 5.006-00 5.479-15 1.418-09 |
| 4.518-51 0.008-00 0.008-00 6.988-21 8.808-20 6.198-29 1.368-18 6.406-18 5.008-51 0.008-00 0.008-00 0.008-00 3.008-20 3.016-28 4.568-19 1.408.18 | 4535-03 2005-00 2006-00 5.025-09 8.675-07 1.588-06 4.605-06 6.458-06 5.005-03 6.005-00 6.005-00 2.662-09 6.396-07 3.346-06 4.206-06 5.576-06 | 4538-03 0.005-00 0.005-00 0.005-00 0.005-00 0.005-04 1.056-09 1.355-08 5.005-03 0.005-00 0.005-00 0.005-00 0.005-00 0.555-14 1.356-09 1.555-08 | 4538-63 0.008-60 0.008-60 0.008-60 7.318-57 2.748-58 4.468-54 1.056-58 5.008-63 0.008-60 0.008-60 0.008-60 7.256-57 2.486.54 3.996.54 0.025.55 | 4538-03 0398-00 0398-00 0398-00 0398-00 0398-00 0308-00 0308-00 0398-00 | 4.538-08 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 4.536-68 0.006-90 0.006-90 0.008-90 0.008-90 0.008-90 1.425-13 1.525-09 5.006-68 0.006-90 0.008-90 0.008-90 0.008-90 1.796-12 6.536-29 |
| 5.525+03 0.006+00 0.006+00 0.006+00 4.485-30 3.856-29 6.348-19 1.206-18 | \$ \$26+03 0.006+00 0.006+00 1.078-09 4.998-07 2.718-06 1.608-06 4.978-06 | 5.525-03 0.006-00 0.006-00 0.006-00 0.006-00 7.006-03 1.346-09 2.896-08 | 5.525-03 0.006-00 0.006-00 0.006-00 7.725-07 2.875-06 4.626-06 1.066-05 | 5.525-05 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 5.526-05 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 5.52E+05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.0HE-13 1.20E-08 |
| \$296-08 0.006+00 0.006+00 0.006+00 7.506-00 4.426-25 6.668-25 1.458-18 | 6/09E-03 0/00E-00 0/00E-00 8/23E-00 8/23E-07 2/20E-06 3/02E-06 4/35E-06 | 6.0%-03 0.00E-00 0.00E-00 0.00E-00 5.22E-12 1.528-09 5.558-08 | 6096-03 0006-00 0006-00 0006-00 1903-06 5276-06 6486-06 1206-03 | 6.0%-08 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 6.0%-08 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | £296-03 0.006-00 0.008-00 0.008-00 0.008-00 1.148-00 4.546-11 1.256-08 |
| 4.788-03 0.008-00 0.008-00 0.008-00 5.256-05 5.296-09 7.905-05 1.476-08 7.488-03 0.008-00 0.008-00 0.008-00 2.256-05 1.568-08 2.256-05 4.506-08 | 6738-03 0000-00 0000-00 1136-07 1406-06 2346-06 1400-06 7438-03 0000-00 0000-00 2476-11 5906-08 128-06 1458-06 2346-06 | 6.736-01 0.005-00 0.005-00 0.005-00 0.005-00 7.546-12 1.136-09 1.756-08 7.432-03 0.005-00 0.005-00 0.005-00 0.005-00 1.325-11 1.256-09 1.025-08 | 678-03 0.08-00 0.085-00 0.085-00 2136-06 9.525-06 1.296-05 2.786-05 7482-03 0.085-00 0.085-00 0.085-00 0.085-00 1.625-05 2.056-05 4.136-05 | 4.752-05 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 6.736-08 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 6736-05 0.005-00 0.005-00 0.005-00 0.005-00 9.796-15 1.538-10 2.458-08 7.436-08 0.005-00 0.005-00 0.008-00 0.008-00 3.466-17 3.796-10 3.146-08 |
| 8.206+03 0.006+00 0.006+00 0.008+00 4.696-15 3.186-18 4.446-18 7.636-18 | 8.208+03 0.008+00 0.008+00 6.388-12 4.368-08 6.806-07 1.096-06 1.986-06 | 8.208+01 0.008+00 0.008+00 0.008+00 0.798-11 1.308-29 3.318-08 | 8.298-03 0.008-00 0.008-00 0.008-00 0.008-00 2.896-15 4.246-15 8.355-15 | 8.20E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 8.206-03 0.002-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 8.238-08 0.308-00 0.008-00 0.008-00 0.008-00 7.686-14 7.536-10 4.056-08 |
| 9.04E+03 0-30E+00 0-00E+00 2.40E-13 9.30E-18 1.24E-17 2.14E-17 1.00E+04 0-00E+00 0-00E+00 1.24E-17 1.34E-17 1.44E-17 | \$082-03 0.002-00 0.002-00 1.818-12 2.022-08 4.008-07 6.676-07 1.408-06 1.002-04 0.002-00 0.002-00 4.318-13 8.388-05 1.388-07 8.578-07 | 9042-03 0.002-00 0.002-00 0.002-00 1.002-11 1.482-09 1.652-08 1.002-04 0.002-00 0.002-00 0.002-00 1.002-00 1.062-03 1.052-09 | 9082-03 0.002-00 0.002-00 0.002-00 7.982-03 1.852-04 1.502-04 1.752-04 1.002-00 0.002-00 0.002-00 0.002-04 7.502-04 7.502-04 | 5.062-63 0.002-00 0.0000000000 | 5.062-03 0.000-00 0.000-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 9.042-03 0.002-00 0.002-00 0.002-00 0.002-00 1.002.14 1.246-09 4.725-08 1.002-06 0.002-00 0.002-00 0.002-00 1.085.11 1.786-08 6.502-08 |
| L000-04 0.000-00 0.000-00 0.000-00 6.146-18 9.396-18 L470-17 1.686-17 | 1008-04 0.008-00 0.008-00 2.756-13 8.286-09 2.286-07 4.046-07 8.578-07 | LOOK-04 0.008-00 0.008-00 0.008-00 0.008-00 2.446-11 1.968-09 1.418-08 | 1008-04 0.008-00 0.008-00 0.008-00 1278-14 4286-14 5.486-14 1.256-13 | 1002-04 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1001-04 0.001-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 1008-04 0.008-00 0.008-00 0.008-00 0.008-00 1.046-13 1.746-09 6.508-08 |
| L108-04 0.008-00 0.008-00 0.008-00 1.718-18 8.478-18 L146-17 2.258-17 | 1100-04 0.000-00 0.000-00 1.940.14 1.140.09 1.160.07 2.270.07 5.110.07 | 1102-04 0.002-00 0.002-00 0.002-00 0.002-00 1.682-11 1.382-09 1.582-08 | 110-04 182-18 2525-16 1425-15 1185-14 1525-14 4486-14 6.005-14 | 1328-04 0.08-00 0.08-00 0.08-00 0.08-00 0.08-00 0.08-00 0.08-00 | 1.008-04 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1108-04 0.008-00 0.008-00 0.008-00 0.018-00 9.475-13 2.146-09 6.046-08 |
| L228-04 0.005+00 0.005+00 0.005+00 1.048-18 1.008-17 1.428-17 2.905-17 1.058-08 0.005+00 0.006+00 0.005+00 8.876-18 1.816-17 2.806-17 5.006-17 | 1228-04 0.00E-00 0.00E-00 7.146-05 1.07E-09 5.50E-08 1.19E-07 5.08E-07 1.19E-06 0.00E-00 0.00E-00 6.46E-05 8.33E-00 7.47E-08 5.62E-08 1.53E-07 | 122E-04 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.00E-08 2.956-08 1.95E-04 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 2.95E-08 | 1225-04 8,958-17 7,828-16 1768-15 1,828-04 1,538-04 4,208-04 6,378-04 1,568-04 1,076,17 2,156,15 8,106,15 1,838-04 8,446,04 8,208,04 8,228,04 | 1.228-04 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 1.868-04 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 122E-04 0.00E-00 0.00E-000E-0 | 1228-04 0.008-00 0.008-00 0.008-00 0.008-00 5.226.12 1.956-08 7.088-08 1.856-06 0.006-00 0.006-00 0.006-00 1.766.11 2.856-08 7.766.08 |
| 1498-04 5306-00 5206-00 5208-00 2346-18 1478-17 2418-17 5368-17 | 1496-04 0.006-00 0.006-00 3.248-05 9.618-01 1.048-06 2.618-08 8.296-08 | 1498-04 0.006-00 0.006-00 0.006-00 0.006-00 1.776-12 7.686-02 2.796-08 | 1480-04 7128-08 2468-05 4788-05 2158-04 8.428-04 8.696-04 1.008-03 | 1.496-04 0.005-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 1.496-04 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 1496-04 0.006-00 0.006-00 0.008-00 0.008-00 4.096-11 2.728-09 8.126-08 |
| 1446-04 0.005-00 0.005+00 0.005+00 1.176-17 9.055-17 1.276-16 1.855-16 1.816-04 0.305+00 0.006+00 0.005+00 0.005+00 9.146.00 9.515-30 2.415.19 | 1640-04 0.000-00 0.000-00 1.900-06 1.410-11 4.190-09 1.100-00 0.940-00 1.010-04 0.000-00 6.525-00 0.340-06 5.410-12 1.470-09 4.440-09 1.540-00 | 144E-04 0.00E-00 0.00E-00 0.00E-00 0.00E-00 5.09E-03 5.79E-03 2.98E-08 1.82E-04 0.00E-00 0.00E-00 0.00E-00 5.69E-03 5.79E-03 5.27E-08 | 1640-04 2690-18 3460-27 5660-06 1225-04 4670-04 6126-04 1125-28 1826-04 0.006-00 0.006-00 1.085-28 8.096-17 1.066-06 1.466-06 2.996-06 | 1.64E-04 0.00E-00 0.00E-000E-0 | 1645-04 0.005-00 0.005+00 0.005-00 0.005-00 0.005-00 0.005-00 1.815-04 0.005-00 0.005+00 0.005-00 0.005-00 0.005-00 0.005-00 | 1445-04 0.005-00 0.005-00 0.005-00 0.005-00 1.205-10 1.005-09 9.345-08 1818-06 0.005-00 0.005-00 0.005-00 0.005-00 1.346-00 1.005-07 |
| 2006-04 0.006+00 0.006+00 0.006+00 2.118-00 1.966-19 2.968-19 6.458-19 | 2006-04 2006-00 7318-09 8346-07 1326-02 4396-00 1596-09 8346-09 | 2008-04 0.008-00 0.008-00 0.008-00 1.526-18 2.706-03 8.926-08 | 2006-04 0.006-00 0.006-00 0.006-00 8218-07 1568-08 2426-08 4368-08 | 2008-04 0008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2,008-04 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 | 2006-04 0.006-00 0.008-00 0.008-00 2.646.10 4.726.09 1.146.07 |
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| | | i prunte | | | | | | | Concernation | in grandes | ere ing/i | | | | | |
|-------|----------------------------|-----------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--------------------|
| ele . | Time fueeral 1 0.005-00 | 0.005-00 | 5-005-00 | 106 Parcent 0.005-00 | 50th Percent 1 0.008-00 | 0.001 Pericent 1 0.001-00 | 0.001-00 | 0.001-00 | Tetra fuearol 1 0.008-00 | 0.005-00 | Sith Percentl 0.006-00 | 10th Parcent 0.305+30 | 50th Parcent 0.005+00 | 909h Percent 0.005-00 | 95m Parcent 0.008-00 | 990 Feroe |
| | 1.008-00 | 8.895.15 | 4562-17 | 1.575-16 | \$10.05 | 2.635-13 | 5.296-12 | 1.096-12 | 1.098-00 | 0.000-00 | 0.008-00 | 0.008-00 | 0.005+00 | 0.008+00 | 0.008-00 | 0.008-0 |
| | 2.005+00 | 8.288-12 | 3 408-10 | 1.362-09 | 1.308-08 | 1.078-06 | 1.598-06 | 2.475-06 | 2.008-00 | 1.008-00 | 1.008-00 | 0.008+00 | 0.008+00 | 0.005+00 | 0.008-00 | 0.008-0 |
| | 1.008-00 | 1.175-08 | 2,348,47 | \$328.47 | 1.085-05 | 1246-04 | 1.695-04 | 2.436-04 | 3.008-00 | 0.008-00 | 0.006+00 | 0.006+00 | 0.008+00 | 0.005-00 | 0.008-00 | 0.008-0 |
| | 4,005+00 | 1.558-07 | 2 948-06 | 8.825-06 | 1.805-04 | 1,506-03 | 1.998-03 | 2.508-03 | 4.008-00 | 0.006-00 | 0.006+00 | 0.308+30 | 0.000+00 | 0.008+00 | 0.008-00 | 0.008-08 |
| | 5.005+00 | 1.525-26 | 1345-04 | 3.536-04 | 3 436-03 | 9.236-03 | 1.076-02 | 1.206-02 | 5.008-00 | 0.006-00 | \$306+30 | 0.306+00 | 0.005-00 | 0.505+00 | 0.005-00 | 0.005+0 |
| | 6.00E+00 7.00E+00 | 3.255-04 | 1738-08 | 3.096-00 | 1.826-82 | 1.576-02 | 1.758-02 | 1.886-02 | 6.00E-00 7.00E-00 | 0.008-00 | 0.005+00 | 0.306+30 | 0.005+00 | 0.005+00 | 0.008-00 | 0.008+0 |
| | 8.005-00 | 1,246-02 | 1.886-02 | 1445-02 | 1,726-02 | 2.045-02 | 2.155-02 | 2.266-02 | 8.008-00 | 0.005-00 | 0.006-00 | 0.306+30 | 0.006-00 | 0.008+00 | 0.005-00 | 0.005+0 |
| | 3.005-00 | 1.115-02 | 1.205-02 | 129-02 | 1.576-02 | 1.906-02 | 2.008-02 | 2.156-02 | 3.000-00 | 0.000-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.000-0 |
| | 1008-01 | 9.756-00 | 1.056-02 | 1.106-02 | 1,396-02 | 1.596-02 | 1.696-02 | 1.946-02 | 1.000-01 | 0.000-00 | 0.000-00 | 0.008-00 | 5-206-00 | 0.008-00 | 0.008-00 | 0.008-0 |
| | 1.100-01 | 3 (52-0) | \$746-05 | 1015-02 | 1,206-02 | 1.428-02 | 1.486-02 | 1.606-02 | 1.108-01 | 0.008-00 | 0.008-00 | 0.008+00 | 0.000+00 | 0.008+00 | 0.008-00 | 0.005-0 |
| | 1.306-01 | 8.536-01 | 3416-03 | 3.846-01 | 1.176-02 | 1.396-02 | 1.445-02 | 1.518-02 | 1.805-01 | 0.008-00 | 0.008-00 | 0.008-00 | 0.005+00 | 0.008+00 | 0.008-00 | 0.008-08 |
| | 1408-01 | 7.996-68 | 9,132-08 | 9.606-00 | 1 256 00 | 1,376-00 | 1426-00 | F446-05 | 2.408-01 | 0.008-00 | 0.006-00 | 0.306+30 | 0.006+00 | 0.005+00 | 0.005-00 | 0.005-0 |
| | 1.808+01 | 2.476-05 | 8.958-03 | 9.416-25 | 1.596-02 | 1.856-02 | 1.406-02 | 1486-02 | 1.605-01 | 0.006-00 | 0,006+00 | 0.006+90 | 0.006+00 | 0.008+00 | 0.008 -00 | 0.008 -0 |
| | 1.705-01 | 6.518-08 | 1,756-00 | \$275-00 | 1.125-00 | 1,896-02 | 1.168-02 | 1.4%-02 | 3.705-01 1.905-01 | 0.005-00 | 0.005+00 | 0.305+30 | 0.005+00 | 0.005+00 | 0.005-00 | 0.005-0 |
| | 2.108-01 | 5.546-25 | 6.106-05 | 8436-25 | 1.086-02 | 1.296-02 | 1.346-02 | 1498-00 | 2 108 -01 | 0.006-00 | 0.006+00 | 0.306+30 | 0.008+00 | 0.008+00 | 0.008-00 | 0.008-0 |
| | 2 105-01 | 5.106-01 | 7246-03 | 1.196-03 | 1.065-02 | 1,275-02 | 1.325-02 | 1.615-02 | 2.808-01 | 0.005-00 | 0.005-00 | 0.005+00 | 0.005+00 | 0.005+00 | 0.005-00 | 0.005-0 |
| | 2,605-01 | 4.545-01 | 7.586-02 | 8,156-00 | 1.005-02 | 1,256-02 | 1.006-00 | 1,396-02 | 2.605-01 | 0.000-00 | 0.008-00 | 0.305+30 | 0.000-00 | 0.005+00 | 0.005-00 | 0.008-0 |
| | 2,805-91 | 4,146-00 | 7218-08 | 7.7%40 | 1.015-02 | 1 226-02 | 1,285-02 | 1,378-02 | 2,808-01 | 6.008-00 | 0.000-00 | 0.000-00 | 0.005-00 | 0.006+00 | 0.005-00 | 0.005+0 |
| | 8,208-01 | 3.636-03 | 6.675-05 | 7.876-00 | 3,825-00 | 1,296-02 | 1.258-02 | 1,346-02 | 3,208-01 | 0.000-00 | 0.000-00 | 0.008+00 | 0.008-00 | 0.005+00 | 0.008+00 | 0.008+0 |
| | 3 505 -01 | 3.256.45 | 6.232-05 | 7 #18-05 | 9.548-45 | 1,176-02 | 1.298-02 | 1,308-02 | 3 506 +01 | 0.000+00 | 0.008+00 | 0.008+00 | 0.006+00 | 0.008+00 | 0.000+000 | 0.005+0 |
| | 3.908-01 | 2.818-00 | 5.736-00 | 6.5%-00 | 9.296-00 | 1,145-02 | 1.295-02 | 1.108-02 | 3.908-01 | 6.006-00 | 5.006-00 | 0.308-00 | 0.006-00 | 0.005-00 | 6.005-00 | 0.005-0 |
| 6 | 4,508-01 | 2.346-05 | \$276-08 | 6398-01 | 8.966-02 | 1.126-02 | 1.178-02 | 1.276-02 | 4.806-01 | 0.008-00 | 0.006+00 | 0.005+00 | 0.005-00 | 0.008=00 | 0.008-00 | 0.008+0 |
| | 4.708+91 | 1.996-05 | 4.846-03 | 5.796-03 | 8.625-05 | 1.068-02 | 1.545-02 | 1.296-02 | 4 708 -01 | 6.008-00 | 6.008-00 | 0.308+30 | 0.006-00 | 0.008+00 | 0.008-00 | 0.006+0 |
| | 5.208-01 | 1425-00 | 4296-08 | \$386-01 | 8,346-00 | 1.058-02 | \$ 118-02 | 5.1ML-02 | 5.208-01 | 0.008-00 | 0.008-00 | 0.306-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008+0 |
| | 5.708-01 | 128-07 | 348-0 | 4.056-00 | 7,875-03 | 1.008-02 | 1.079-02 | 1.166-02 | 5.708-01 | 1.008-00 | 0.008-00 | 0.005-00 | 0.005-00 | 0.005-00 | 0.008-00 | 0.008+0 |
| | 6.406-01 | 1.916-68 | 3,346-03 | 4.425-00 | 7,476-08 | 9.836-05 | 1.095-02 | 1.1.86-02 | 4.400+71 | 6.008+00 | 0.008+00 | 6.306+30 | 0.000-00 | 0.008+00 | 0.005+00 | 0.000+0 |
| | 7.006+01 | \$.055-04 | 2.998-00 | 4.025-00 | 7:306-03 | 9.416-00 | 1.006-02 | 1.106-02 | 7.005-01 | 0.006-00 | 0.005+00 | 0.005+00 | 0.006-00 | 0.005-00 | 0.005-00 | 0.005+0 |
| | 7.508-01 | 6.625-04 | 2.686-00 | 3.686-03 | 6768-62 | \$ 115-00 8 4ME-00 | 9,715-01 | 1.0%-02 | 7.808-01 | 0.005-00 | 0.000-00 | 0.005-00 | 0.005-00 | 0.005-00 | 0.005-00 | 0.000+0 |
| | 8.508-01 | 4,995-04 | 2.258-08 | 3.256-00 | 5.346-03 | 8.196-00 | 9.025-03 | 9.962-02 | 8 508 -01 | 0.008-00 | 0.008-00 | 0.008+00 | 0.008-00 | 0.008+00 | 0.008-00 | 0.008+0 |
| | 1.056-02 | 2.875-04 | 1.662-25 | 2,552,25 | 5.396-03 | 8.006-03 | 8.438-03 | 9546-03 | 1.056-02 | 0.006-00 | 0.008-00 | 6.008+00 | 0.000-00 | 0.000+00 | 0.008-00 | 0.000+0 |
| | 1.148-02 | 2 006-04 | 1,876-00 | 2.366-00 | 5.366-03 | 7 596-03 | 8.196-03 | 918-09 | 1.168-02 | 0.006-00 | 0.006+00 | 0.306+30 | 0.006-00 | 0.008+00 | 0.008-00 | 2 016-3 |
| | 3,285-492 | 1.136-04 | 1046-08 | 1.806-01 | 4.725-03 | 7 345-03 | 7,728-68 | 8.608-02 | 1.286-02 | 2.005-00 | 0.006+00 | 0.005+00 | 0.005+00 | 0.005+00 | 0.008-00 | 2 868-2 |
| | 1418-02 | 6.496.05 | 5.462.04 | 1.496-05 | 4.276-05 | 6.718-05 | 7,256-03 | 8.298-03 | 1.418+02 | 0.005+00 | 0.008+00 | 6-208+00 | 0.006+00 | 0.008+00 | 0.005+00 | 8.068-37 |
| | 1.548-02 | 4.968-05 | 6.046-04 | 1.386-00 | 3.775-03 | 6.208-03 | 6.696-03 | 2.778-08 | 2.546-02 | 0.006-00 | 0.006+00 | 0.306+00 | 0.006-00 | 0.006+00 | 0.008-000 | 4 908-2 |
| | 3.726402 | 2.816-05 | 4.405-04 | 9.348-04 | 1.306-01 | 5.696-03 | 6.218-03 | 7.176-09 | 1.736+02 | 0.006-00 | 0.006-00 | 0.006+00 | 0.008+00 | 0.006+00 | 0.008-00 | 1.075-1 |
| | 1.905+02 | 1.405-25 | 3.046-04 | 6.505-04 | 2.856-00 | \$ 246-03 | 5.686-03 | 6.5ME-03 | 1.905-02 | 0.005+00 | 0.006+00 | 0.005+00 | 0.005-00 | 0.005+00 | 0.005-00 | 1.196-2 |
| | 2.108+02 | 7.385-06 | 2.08-94 | 5.096-04 | 2.425-08 | 4.676-00 | 5.158-03 | 6.128-00 | 2.106-02 | 0.005-00 | 0.006+00 | 0.008+00 | 0.005-00 | 0.005-00 | 0.008-00 | 8.195-1 |
| | 2,826-02 | 1.455-06 | 1.508-04 | 1638-04 | 2.080-08 | 4 196-00 | 4.695-03 | 5.578-03 | 2.535=02 2.546=02 | 5.005-00 | 5.000-00 | 0.008-00 | 0.008-00 | 0.005-00 | 0.005-00 | 3.855-0 |
| | 2.825+02 | 5.962-07 | 443.8 | 1.695-04 | 1,856-08 | 3.246-00 | 3.695-03 | 4.476-03 | 2.838+02 | 0.008-00 | 1005-00 | 0.008+00 | 0.000-00 | 0.008-00 | 0.006-00 | 3.725-0 |
| | 3.000-02 | 2.158-87 | 2546-05 | 1.088-04 | 1.065-00 | 2.776-00 | 3,245-03 | 1.996-03 | 5.008-02 | 6.008-00 | 0.008-00 | 0.308-00 | 0.000-00 | 0.008-00 | 0.006-00 | 1.085-0 |
| | 3.128-02 | 7.082.08 | 1.184-05 | 6.602.05 | \$.228-04 | 2.362-00 | 2.778-63 | 3.528-09 | 3.136-02 | 0.008-00 | 0.000+00 | 0.008+00 | 0.008-00 | 0.008+00 | 0.00E-00 | 2.646.0 |
| | 3.440-02 | 2.068-08 | 6.712-06 | 1.788-25 | 6.540-04 | 1.978-03 | 2.368-03 | 8.028-08 | 3.448-03 | 0.006-00 | 0.008+00 | 6.008+00 | 0.008+00 | D.30E+00 | 0.008-00 | 9.068-0 |
| | 3.806-02 | 5.316-29 | 3.086-06 | 2.046-05 | 4.446-04 | 1.615-0) | 1.946-03 | 2.536-09 | 9.808-02 | 0.006-00 | 0.006+00 | 0.306+30 | 0.006-00 | 0.006+00 | 0.008-000 | 1.118-0 |
| | 4.205402 | 1.206-09 | 1.318-06 | 1.058-05 | 8.136-04 | 1.296-03 | 1.606-03 | 2.096-03 | 4.208-02 | 0.006-00 | 0.006+00 | 0.006+00 | 0.008+00 | 0.005+00 | 0.008-00 | 1.825-0 |
| | 4.848-02 5.128-02 | 2.958-50 | 5.258.47 | 5.425-06 2.546-06 | 2.258-04 | 1.048-05 | 1.118-03 | 1.716-03 | 4.648-02 | 0.005-00 | 0.006+00 | 0.308+30 | 0.008+00 | 0.008+00 | 0.008-00 | 1 146-0 |
| | 5.128-02 | 1,265-11 | 1106-07 | 1776-06 | 1346-04 | 7.286-04 | 3.425-04 | 1286-09 | 5.655.402 | 0.006-00 | 0.000-00 | 0.000+00 | 0.000+00 | 0.006+00 | 0.000-00 | 1286-0 |
| | 6.248-02 | 4.965-12 | 5.625-08 | 3.445-07 | 8,786-05 | \$.716-04 | 7.635-04 | 1.076-03 | 6.246+02 | 1.000-00 | 1004-00 | 0.000+00 | 0.000-00 | 0.000-00 | 0.005-00 | 136-0 |
| | 6.896-02 | 5.596-13 | 1.587-08 | 1516-07 | \$286-05 | 4,146-04 | 5.715-04 | 8,298-04 | 6.896-02 | 0.008-00 | 0.008-00 | 0.008-00 | 0.005-00 | 0.008-00 | 0.008-00 | 1.025-0 |
| | 7416-02 | 5.742-14 | 1.916-29 | 1,218-07 | 2.968-05 | 2.876-04 | 4 095-04 | 6.252-04 | 7.618.402 | 6.008-00 | 0.008+00 | 0.308+30 | 0.000+00 | 0.008+00 | 0.005+00 | 8.536-0 |
| | 8.408-02 | 2.958-15 | 8.548-30 | 3.685.08 | 1.596-05 | 1,905-04 | 2 852-04 | 4.598-04 | 8.406-02 | 0.008-00 | 0.000+00 | 0.008+00 | 0.008-00 | 0.008+00 | 7.258-18 | 8.246-0 |
| | 5.286+02 | 5.435-14 | 1576-00 | 9.636-09 | 8.155-06 | 1,245-04 | 1.901-04 | 3.246-04 | 9.288+02 | 0.006-00 | 0.006+00 | 0.306+30 | 0.006+00 | 0.006+00 | 1.536-16 | 1.046-0 |
| | L006-03 | 1.676-14 | 4.896-11 | 2.625-09 | 3.886-06 | 7 578-05 | 1.256-04 | 2.218-04 | 1.006-03 | 6.008-00 | 8-808-80 | 0.908+90 | 0.008+00 | 0.008+00 | 1.966-15 | 6.925-0 |
| | 1425-43 | 7.156-15 | 4.728-01 | 1.005-09 | 1.708-06 | 4.528-05 | 7.828-05 | 1.452-04 | 1.028-03 | 0.005-00 | 0.000+00 | 0.008+00 | 0.008-00 | 0.006+00 | 9,426-13 | 5.928-0 |
| | L186-03 | 2.206-04 | 4.576-01 | 4.638-02 | 6.818-07 | 2 496-05 | 4 550-05 | 9179-05 | 1.136-03 | 0.006-00 | 0.006-00 0.006-00 | 6.008+00 | 0.008+00 | 0.008+00 | 8.468.12 | 8.078-0 |
| | 1.758-05 | 1,908-04 | 2.498-01 | 1.846-00 | 1.525-08 | 1,518-05 | 2.548-05 | 3.438-05 | 1.258-03 | 0.008-00 | 0.006+00 | 0.308+30 | 0.008-00 | 0.008+00 | 5.008-11 6.44E-11 | 5.128-0 |
| | 1.525-03 | 2.775-04 | 1.066-52 | 1.686-11 | 3.065-08 | 4.085.06 | 8.041.05 | 2.040.05 | 1.5.38-03 | 0.000-00 | 0.000+00 | 0.000+00 | 0.000+00 | 0.008+00 | 2.445.12 | 4.350-0 |
| | 1.688-03 | 7,396-04 | 7,420-03 | \$356.02 | 1.458-05 | 1.8% -06 | 8.596-06 | 2.066-05 | 1.686-03 | 0.006-00 | 0.006-00 | 0.306+00 | 0.006+00 | 0.006+00 | 4,246-02 | 3.348-0 |
| | 1.866+0.8 | 1.856-04 | 5.618-13 | 2.206.02 | 1.515-08 | 5.455-06 | 1.228-05 | 1018-05 | 5.044-03 | 0.006-00 | 0.006+00 | 0.006+00 | 0.008+00 | 0.005+00 | 1.135-09 | 3.46E-C |
| | 2.058~03 | 4,125-06 | 1.206-13 | 6.985-13 | 1,506-08 | 4.946-06 | 1,136-05 | 4.168-05 | 2.058~03 | 0.005-00 | \$ 008+00 | 0.005+00 | 5.005-00 | 0.005+00 | 6.625-09 | 3.426-0 |
| | 2.268=03 | 2.196-06 | 3.385-04 | 1.662-13 | 2.566-09 | 1.806-06 | 5.281-06 | 1.858-05 | 2.298+03 | 6.006-00 | 0.006+00 | 0.306+30 | 0.005+00 | 0.008+00 | 8.526-09 | 3.216-6 |
| | 2.508+03 | 2.196-14 | 1.096-14 | 5.588-34 | 4.905-10 | 5.856-07 | 1.865-06 | 7.358-06 | 2.506+03 | 0.008-00 | 0.008+00 | 0.000+00 | 0.008+00 | \$.766-19 | 7.906-05 | 1276-0 |
| | 2.768+08 | 0.008-00 | 6.50E-17 5.66E-17 | 8.342-34 5.536-36 | 7.126-11 4.756-12 | 4,355-08 | 5.006.07 | 2.642-06 | 2.768+03 | 0.008-00 | 0.008-00 | 0.308+00 | 0.008+00 | 7.218-17 3.608-15 | 4.306-09 | 3.206-0 |
| | 3.056+03 | 0.008-00 | 0.000+00 | 0.005+00 | 1.525-13 | 9,825-09 | 4.425-06 | 2.546-07 | 3.056=03 | 6.008-00 | 5-806-90 | 0.306+30 | 0.000+00 | 7.696-15 | 5.505-09 | 2,976-0 |
| | 1.342.401 | 0.008-00 | 0.000+00 | 0.000-00 | 6.286-04 | 1.762-09 | 9.628-09 | 6.746-08 | 3.348-03 | 0.000-00 | 0.008+00 | 0.008+00 | 0.005-00 | 6.856-15 | 7,054-09 | 3,946-0 |
| | 8.718-08 | 0.006+00 | 0.306+00 | 0.008+00 | 2.046-03 | 2 418-10 | 1.780-09 | L496-G8 | 3.798-03 | 0.006-00 | 1.006-00 | 0.006+00 | 0.008+00 | 2.606-05 | 3.306-09 | 8.058-0 |
| | 4.106-03 | 0.006-00 | 0.006+00 | D 006+00 | 7386-56 | 1406.01 | 2,896-30 | 2.908-09 | 4 306-08 | 0.006-00 | 0.006-00 | 0.306+30 | 0.006-00 | 1.136-25 | 4.005-09 | 2.876-0 |
| | 4.535-01 | 0.005+00 | 0.306+00 | 0.006+00 | 9.885-04 | 1.646-12 | 4,346-01 | 4.996-12 | 4.538-03 | 2.008-00 | 0.006+00 | 0.006+00 | 0.008+00 | 1.548-15 | 2.568-09 | 2.548-0 |
| | 5.006+03 | 0.006-00 | 0.006+00 | 0.006+00 | 7.636-16 | 4.056-13 | 4.506-12 | 7.186-11 | 5.005-03 | 6.006-00 | 5.008+00 | 0.008+00 | 5.008-00 | 2.486-15 | 1.736-09 | 1.945-0 |
| | 5.528-03 | 0.006+00 | 0.006+00 | 0.006-00 | 7,658-08 | 9.646-24 | 1686-12 | 5.778-13 | 5.5.28-03 | 0.006-90 | 0.006+00 | 0.306+90 | 0.006-00 | 3 906-05 | 1.518-09 | 1.858-0 |
| | 6.096-03 | 0.005+00 | 0.005+00 | 8.496-17 | 1.076-05 | 1.806-34 | 8.946-13 | 7.816-12 | 6.096-03 | 0.005-00 | 0.006-00 | 0.005+00 | 0.008+00 | 3.666-17 | 8.976-20 | 1.836-0 |
| | 8.730+03 7.458+03 | 0.008+00 | 0.000+00 | 0.000+00 | 4.485-05 | 5.618-15 | 3.778-14 | 7.798-13 | 6.736+03 7.436+03 | 0.005-00 | 0.008+00 | 0.008+00 | 0.005+00 | 1.596-17 | 4.515-10 | 9.496-0 7.856-0 |
| | 7.438+03 | 0.008+00 | 0.000+00 | 0.000+00 | 0.000+00 | 5.056-15 | 7.576-15 | 3.236-04 | 7.435+03 | 0.008+00 | 0.008+00 | 0.000+00 | 0.000+00 | 1.025-18 | 4.518-10 | 7.856-6 |
| | 3.062-02 | 0.008-00 | 0.005+00 | 0.000+00 | 2.060.400 | 4 106-15 | 5.328.14 | 9.610.14 | 3,042-03 | 0.000-00 | 0.008+00 | 0.008+00 | 0.008-00 | 2 508-18 | 1.046-10 | 4.532-0 |
| | 1.005-04 | 1008-00 | 0.000-00 | 0.000-00 | 1.915-04 | 1.006-13 | 1378-10 | 2578-13 | 1.008-04 | 1.008-00 | 0.008-00 | 0.305-30 | 0.008-00 | 2.576-18 | 7.516-11 | 1,286-6 |
| | 1,005-04 | 0.000-00 | 0.000-00 | 0.000-00 | 1.445-14 | 1.045-13 | 1.175-15 | 2,905-1.0 | 1,008-04 | 6.008-00 | 5.008-00 | 6.308+30 | 0.008-00 | 1315-18 | 7.816-11 | 3.286-0 |
| | 1.100-04 | 0.008-00 | 0.000+00 | 0.000-00 | 2.238-34 | 7.906-04 | 1.118-12 | 2.906-13 | 1.108-04 | 0.000-00 | 0.008+00 | 0.008+00 | 0.005-00 | 1.776-18 | 1.446-11 | 1.776-0 |
| | 1.228-04 | 0.006+00 | 1488-04 | 2.478-25 | 2.608-04 | 7,940-14 | 1.088-13 | 1500-13 | 1.228-04 | 0.006-00 | 0.006+00 | 0.008+00 | 0.008+00 | 1456-08 | 1.296-11 | 9.226-0 |
| | 1.016-04 | 0.006+00 | 4086-05 | 8.418-25 | 4,088-04 | 9,096-14 | 1.196-13 | 1.976-13 | 3,356-04 | 0.006-00 | 0.006-00 | 0.306+30 | 0.006+00 | 7.946-58 | 4.516-12 | 6218-0 |
| | | | | | | | | | | | | | | | | |
| | 1496-04 | 1.096-07 | 5.746-05 | 1.258-14 | 5.006-04 | 1.206-13 | 1.645-13 | 1.996-13 | 1.496+04 | 0:006-00 | 0.006+00 | 0.006+00 | 0.008+00 | 2.876-17 | 1,415-12 | 2.656-0 |
| | | 1.396-17 | 5.74E-05 5.69E-07 0.00E+00 | 1.258-04 1.526-25 5.856-28 | 5.005-04 2.655-04 1.125-06 | 1.206-13 1.006-13 4.475-14 | 1.445-13 1.285-13 7.068-16 | 1.998-13 2.046-13 2.646-15 | 1.49E+04 1.64E+04 1.83E+04 | 0.006-00 | 0.000+00 0.000+00 0.000+00 | 0.008+00 0.008+00 0.008+00 | 0.008+00 0.008+00 0.008+00 | 2.876-17 1.826-17 9.906-18 | 1,416-12 4,296-13 1,026-13 | 1.1%-0 |

| Ammonisari N Concentration in groundwater (mg/l) Time Iveral: 3.11 Avounti 501 Avounti 505 Avouni 505 Avouni 1055 Avouni 1055 Avouni 1055 Avountia | Aquasic Concentration in growtleaster [mg/] Time [-seal] Jit Pecanti Sin Pecanti JOh Pecan Sith Pecan 50h Pecan 50h Pecan 50h Pecani | Ladmium Concentration in groundwater (ng)] Time Level Izh Percent Izh Percent 20th Fercen 50th Percen 50th Percent 50th Percent | Onorde Concentration is groundwater (mg)(Time (ward) 1st Ausance Sch Percant 30th Recar 30th Recar 30th Recar 30th Recar 30th Recard | Copper Concentration in groundwater (mgH) Time Learn) 20 Augusto (in Augusto 200 August 200 August 300 August 300 August 300 August) | Land Concentration in groundwater (mg/l) Time Level 3 to Recent 5th Recent 3th Recent 5th Recen 3th Recen 3th Recention | Mescary Concentration in groundwater [mg/] Time [-exact] for hexants 5th Autants 20th Resan 50th Resan 50th Resan 50th Resan 50th Resan 50th Resants | |
|--|---|---|---|---|--|--|----------------------|
| 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.008-00 | 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 0-301 0-301 0-3010 0-3010 0-300 0-3001 0-3001 0-3000 0-300 | 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 | 0.082-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 0.008-00 |
| 1.00E-00 0.00E-00 0.00E+00 | 1005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1,008-00 0,008-0000000,0000000000 | 1008-00 0008-00 0.008-00 0.008-00 0.008-00 0.088-04 1.078-05 6.346-04 1008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.546.09 9.556.09 1.878-08 | 1208-00 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 | 1,00E-00 0,00E-00 0,00E-0000000000 | 1008-00 0.008-0000000000 | 1.008-00 |
| 1006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 1.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1008-00 0008-00 1556-08 1095-07 9426-05 2,286-08 1606-03 6,076-01 | 1006-00 2.005-00 2.008-00 2.008-00 2.008-00 2.005-00 2.005-00 | 3.006-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 3.08-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 | 3.000-00 |
| 4.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 4.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 4.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 4008-00 0.008-00 1208-04 4.428-04 8.278-03 6.486-02 8.788-02 1.348-02 | 4.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 4005-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 4008-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 4.008=00 |
| 5.00E-00 0.00E-00 0.00E+00 | 5.002-00 0.002-0000000000 | 5.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 8.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 5.008-00 8.056-04 4.556-03 1.126-07 1.146-01 4.475-01 5.366-01 7.066-01 4.008-00 1.508-07 5.476-02 1.046-05 4.218-08 1.218-00 1.538-00 | 5,002-00 0,000-00 0,000-00 0,000-00 0,000-00 0,000-00 0,000-00 0,000-000 0,000-000 0,000-000 0,000-00000000 | 5.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 8.002-00 0.002-00 0.002-00 0.005-00 0.002-00 0.002-00 0.002-00 | 5.00E=00 0.00E=00 0.00E=000E=0 | 5.000-00 |
| 7.00E=00 E.00E=00 0.00E=00 0.00E=00 0.00E=00 0.00E=00 0.00E=00 7.00E=00 8.00E=00 0.00E=00 0.00E=00 0.00E=00 1.07E-19 4.01E-18 | 7.00E=00 0.00E=00 0.00E=00 0.00E=00 0.00E=00 0.00E=00 0.00E=00 0.00E=00 | 7.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 7.002+00 5.402-02 5.402-02 1.040-01 4.202-02 1.202+00 1.502+00 7.002+00 5.402-02 1.942-01 2.602-01 8.675-01 1.778+00 2.022+00 2.612+00 | 2.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 2.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 7.00E=00 0.00E=00 0.00E=00 0.00E=00 0.00E=00 0.00E=00 0.00E=00 0.00E=00 | 7.008-00 |
| 8.008-00 0.008-00 0.008-00 0.008-00 0.008-00 1.086-18 1.598-18 1.108-14 | 8.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 8.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | # DOR +00 1.58E-01 2.44E-01 3.34E-01 1.15E+00 2.54E+00 2.95E+00 3.74E+00 | 8.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.000-00 | £302-30 0.002-30 0.002-30 0.002-30 0.002-30 0.002-30 0.002-30 | 8.088-00 0.086-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 8.008-00 |
| \$006-00 0.008-00 0.008-00 0.008-00 0.005-00 4.646.13 1.506.06 4.746.13 1.008-01 0.008-00 0.008-00 0.008-00 7.166.15 4.186.13 1.466.00 | \$.008-00 0.008-0000000000 | 5.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.00E-00 1.00E-00 0.00E-00 0.00E-00000E-000E- | 8008-00 1496-01 2125-01 2966-01 1096-00 1196-00 1778-00 4798-00 1008-01 1226-01 1796-01 2426-01 5566-01 5466-00 4348-00 5568-00 | 8 00E-00 0.00E-00 0.00E-0000000000 | 8.00E-00 0.00E-00 0.00E-000E-0 | 9.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 9.008-00 |
| 1004-01 0008-00 0.008+00 0.008+00 0.008+00 7.586-15 4.186-13 1.686-02 1.008-01 0.008-00 0.008+00 0.008+00 0.008+00 1.286-12 2.846-11 4.866-09 | 1.008+01 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 1.008+01 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 | 1.00E+C0 0.00E+00 0.00E+000E+0 | 1002-01 3238-01 1.758-01 2.408-05 5.048-01 5.488-00 5.568-00 1.592-01 1.046-01 1.596-01 2.086-01 7.938-01 3.285-00 4.346-00 5.502-00 | 1,000-01 0,000-00 0,000-00 0,000-00 0,000-00 0,000-00 0,000-00 1,000-01 0,000-00 0,000-00 0,000-00 0,000-00 0,000-00 | 108-01 0.08-00 0.001-00 0.001-00 0.081-00 0.081-00 0.081-00 0.081-00 0.081-00 | 108+00 000+00 000+00 000+00 000+00 000+00 000+00 0000+00 | 1.008-05 |
| 1.308+01 0.008+00 0.008+00 0.008+00 1.218-19 1.076-10 4.156-09 1.796-07 | 1.02-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1.106-02 0.006-00 0.006-00 0.008-00 0.006-00 0.006-00 0.006-00 | 1.806-01 9.616-02 1.526-01 1.946-01 7.466-01 2.728-00 4.078-00 5.798-00 | 1.108-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1302-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1308-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1.305-01 |
| 1.408-01 0.008-00 0.008-00 0.008-00 1.196-17 1.178-09 1.558-06 4.518-07 | 1408-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | L40E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 148-41 5362-02 1496-01 1886-01 7138-01 2408-00 3368-00 5598-00 | 1406-01 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 | 1400-01 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 148-01 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 0308-00 | 1.406-01 |
| 1.608+01 0.008+00 0.008+00 0.008+00 1.228-05 5.678-09 7.528-08 2.568-06 | 1.402-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1.408-05 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1408-03 8.762-02 1.382-01 1.792-01 6.812-01 2.442-00 3.572+00 5.202+00 | 1406-01 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | Late-ot 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 1486-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 1.608-01 |
| 1708-01 0008-00 0.008-00 0.008-00 1.135-04 1.435-08 1.645-07 4.715-06 1.507-01 0.008-00 0.008-00 0.008-00 2.258-03 5.578-08 7.668-07 1.398-05 | 170E-03 0.00E-00 0.00E+00 | 1.70E+C0 5.00E+C0 5.0 | 1708-41 8418-02 1208-01 1708-05 8418-01 1408-40 1508-40 5118-40 1508-41 7408-02 1208-01 1408-01 5228-00 1348-00 4508-00 | 1.708-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 1.508-00 0.008-0000000000 | 1785-01 0.085-00 0.005-00 0.085-00 0.085-00 0.085-00 0.085-00 1.985-01 0.085-00 0.085-00 0.085-00 0.085-00 0.085-00 | 1.788-05 0.008-00 0.008-00 0.008-00 0.008-00 0.088-00 0.008-00 1.988-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.708+06 |
| 2.108-01 0.008-00 0.008-00 0.008-00 2.098-12 2.428-07 2.628-06 8.128-05 | 2,102-01 0,002-00 0,002-00 0,002-00 0,002-00 0,002-00 0,002-00 | 2328-03 0.006-00 0.006-00 0.008-00 0.006-00 0.008-00 0.008-00 | 2.108-01 6.788-02 1.128-01 1.546-01 5.888-01 2.168-00 3.168-00 4.728-00 | 2104-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.108-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2.336-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 2.500-05 |
| 2.308-01 0.008-00 0.008-00 0.008-00 1.036-13 8.068-07 6.756-06 5.816-05 | 2,302-03 0,002-00 0,002-00 0,002-00 0,002-00 0,002-00 0,002-00 | 2,308-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 | 2,308-01 6.016-02 1.086-05 1.496-05 5.636-06 2.106-00 3.028-00 4.508-00 | 2,308-05 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2,508-05 0,508-00 0,508-00 0,508-00 0,508-30 0,508-30 0,508-50 | 2,308-05 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 | 2,906+05 |
| 2.60E+01 0.00E+00 0.00E+00 0.70E+11 0.66E,06 1.87E,05 1.34E,04 2.80E+01 0.00E+06 0.00E+06 2.85E-18 1.77E-00 7.84E,06 3.13E,05 1.48E,04 | 2 80E-01 0.00E-00 | 2.608-05 5.008-05 5.008-05 5.008-05 5.008-05 5.008-06 5.008-05 2.008-05 2.008-05 5.008-05 5.008-05 5.008-05 | 2408-01 5296-02 9366-02 2368-01 538-01 1378-00 2325-00 4128-00 2308-01 4238-03 9338-02 1276-05 5388-01 1398-00 2346-00 4388-00 | 2.60E-01 0.00E-00 0.00E-000E-0 | 2406-01 6306-00 6306-00 6306-00 5306-00 5306-00 5306-00 5306-00 2306-01 5306-00 5306-06 5306-00 5306-06 5306-06 5306-00 5306-00 | 2408-05 0.005-00 5.005-00 5.005-00 5.005-00 5.005-00 5.005-00 5.005-00 2.005-00 5.005-0005-0 | 2.806+05 2.806+05 |
| 3 208-01 0 008-00 8 248-30 2 408-38 9 828-00 2 348-05 8 546-05 2 398-04 | 3.252-03 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 3.208-05 0.008-00 5.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1298-01 1046-02 8126-02 1196-05 4-786-05 1746-00 2-586-00 1546-00 | \$200-01 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 3 256-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 3.298-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 3.208+01 |
| 1508-01 0008-00 2.642-17 7.352-35 8.008-09 1.532-08 5.546-05 1.342-04 | 5502-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1508-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.508-01 2.436-02 7.446-02 1.306-01 4.406-01 1.586-00 2.596-00 1.496-000000000000000000000000000000000000 | 1.508-01 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 0.008-08 | 8.528-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 158-01 0300-00 5300-00 5300-00 5300-00 5300-00 5300-00 5300-00 | 3.500-01 |
| 3.508-01 5.008-00 5.728-38 1.458-33 5.088-08 8.128-05 1.468-04 4.346-04 4.308-01 5.008-00 1.628-14 8.568-17 5.588-05 1.088-06 5.088-04 | 1.961-01 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 | 1364-00 0.004-00 0.004-00 0.004-00 0.004-00 0.004-00 0.004-00 | 1308-01 1308-02 6388-02 5396-02 6196-01 1528-00 2188-00 14/8-00 4308-01 1276-02 5396-02 5396-02 1396-01 1418-00 2398-00 1258-00 | 1.901-01 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 4.901-01 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 | 3.901-01 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 4.901-01 0.001-00 0.001-00 0.001-00 0.001-00 0.001-00 | 3.968-00 0.005-0000000000 | 22-308.6 |
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| 5200-01 1300-10 1790-02 1300-01 13000-06 1300-04 1275-04 6560-04 | 3.208+01 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 | 5.208-01 5.008-00 5.008-00 5.008-00 5.008-00 5.008-00 5.008-00 | \$208-05 5396-08 4.475-02 8.508-02 3.146-05 1.186-00 1.798-00 2.836-00 | 5.258-01 0.00E-0E 0.00E-0E 0.00E-0E 0.00E-0E 0.00E-0E 0.00E-0E | 5.208-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 5.238-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 5.208-06 |
| \$700-01 8006-16 6558-02 \$206-00 1278-05 2,798-04 1458-04 7518-04 | 178-01 078-00 078-00 078-00 078-00 078-00 078-00 078-00 | | CTRUST 1482-01 1492-07 1492-07 1792-05 1002-00 1492-00 1492-00 | | | | 1.700-07 |
| 570E+01 800E-18 655E-12 820E-00 127E-05 227E-04 840E-04 751E-04 640E-01 137E-14 817E-11 449E-04 378E-05 247E-04 840E-04 8318-04 | 5.70E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 5.70E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 5.70E-01 134E-03 335E-02 5.90E-02 2.79E-01 1.08E-00 2.50E-00 E-40E-03 317E-05 3.0EE-03 4.8EE-03 3.4EE-03 4.8EE-03 3.8EE-00 | 5.708+01 0.008+08 0.008+08 0.008+08 0.008+00 0.008+08 0.008+08 0.008+08 | 5.705+01 0.005+0000000000 | 5.798+05 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 | 5.308+01 |
| 7.005-01 1.145-13 3.485-10 7.005-08 4.245-05 3.075-04 4.715-04 9.995-04 | 7.055-01 0.005-00 0.005+00 0.005-00 0.005-00 0.005-00 5.005-00 | 7.005-05 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 7.008+01 1186-03 2.256-02 8.996-02 2.196-01 8.966-01 1.266+00 2.206+00 | 7.005-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 7.005-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 7 008-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 7.006+01 |
| 7.00E-01 2.25E-13 5.58E-05 4.60E-07 5.78E-05 3.55E-04 5.00E-04 1.04E-03 8.60E-01 3.08E-13 6.30E-06 1.78E-06 7.25E-05 4.00E-04 5.47E-04 1.12E-03 | 7.802-01 0.008-00 0.002-00 0.002-00 0.008-00 0.008-00 0.008-00 8.402-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 7.80E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 8.60E-05 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 7.800-01 6.570-04 1.770-02 1.500-02 1.550-01 8.400-01 1.100-00 2.060-00 8.600-01 8.330-04 1.050-02 1.570-02 1.660-05 7.525-01 1.000-00 1.860-00 | 7.804-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 8.406-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 7.808-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 8.608-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 7.808-01 0.000-000- | 7.808-01 |
| 8.508-01 1088-13 6.388-08 1.788-06 7.258-05 4.088-04 5.478-04 1.128-03 9.508-01 1.4551-13 3.758-07 4.778-06 8.788-05 4.438-04 6.088-04 1.148-05 | 8.668-01 0.088-00 0.088-00 0.088-00 0.088-00 0.088-00 0.088-00 9.508-01 0.088-00 0.008-00 0.008-00 0.088-00 0.088-00 0.088-00 | 8.668-45 0.088-40 0.088-40 0.088-40 0.088-40 0.088-40 0.088-40 0.088-40 0.088-40 | 550E-01 1.22E-04 1.25E-02 1.57E-02 1.64E-01 7.52E-01 1.00E-00 1.64E-00 550E-01 1.72E-04 9.29E-03 2.01E-02 1.44E-04 6.75E-01 3.15E-01 1.64E-00 | E408-11 0.082-00 0.082-00 0.002-00 0.082-0000000000000000000000000000000000 | 8.584-01 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 8.68+01 0.08+00 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 9.508+01 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 0.000+00 | 3.505-05 |
| 105E-02 154E-03 123E-04 813E-04 103E-04 479E-04 630E-04 131E-03 | 1.056-03 0.006-00 0.006+00 0.008+00 0.006+00 0.006+00 0.006+00 0.006+00 | 1.054-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1008-02 8.868-05 8.806-03 1.648-02 1.248-01 8.048-01 8.038-01 1.508-00 | 10+306 00-3063 00-3063 00-3063 00-306 00-3060 00-3065 | 1.058-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.058-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.058+02 |
| 1266-02 1576-13 2,826-06 1326-06 1036-04 4,838-04 6,796-04 1,256-03 1286-02 1,896-13 4,476-06 1,496-05 1,006-04 4,956-04 6,626-04 1,206-03 | 1.16E-02 0.00E-00 0.00E-000E-0 | 1366-02 0.006-00 0.005-00 0.005-00 0.006-00 0.006-00 0.006-00 1.006-00 1.286-02 0.006-00 0.006-00 0.008-00 0.008-00 0.008-00 0.008-00 | 136-02 422605 473608 122602 126625 526625 700605 1340-00 1286-02 1676-05 2.076-08 8.086-08 8.466-02 4.528-01 5.826-01 1198-00 | 1566-02 5.006-00 0.006-00 0.006-00 0.006-00 0.006-00 5.006-00 5.006-00 1.286-02 5.006-00 0.006-00 0.006-00 5.006-00 5.006-00 | 134E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 128E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1388-02 0.006-00 0.006-00 0.008-00 0.008-00 0.008-00 0.008-00 1288-02 0.006-00 0.006-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.366+02 |
| 1412-02 2462-03 4.262-06 1.272-05 \$142-05 4.502-04 6.482.04 1.052-05 | 1421-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1418-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1418-02 72W-06 1428-03 1.8M-08 6.8M-02 6.7M-01 6.0M-01 1.0M-00 | 1418-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | L425-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1418-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.418-02 |
| 1566-02 3.325-13 3.225-06 1.056-05 8.476-05 4.206-04 6.286-04 9.646-04 | 1.546+02 0.006+00 0.006+00 0.006+00 0.006+00 0.006+00 0.006+00 | 1.566+02 0.006+00 0.006+00 0.006+00 0.006+00 0.006+00 0.006+00 | 1568-02 2380.06 8.028.04 3.476.08 5.368-02 8.286-03 4.276.03 8.646.03 | 1566-03 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 1568-02 0.006-00 0.006-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.548-03 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 1.546+02 |
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| 1006-02 1508-15 2528-08 2306-07 1038-05 8468-05 1428-04 5308-04 | 1.002-00 00-300-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 5.00E+C0 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 | 1000-02 1206-11 1116-06 1116-05 1816-08 4206-02 7206-02 1418-05 | 1.008-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 5,008-02 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 0,008-00 | 00-300.0 00-300.0 00-300.0 00-300.0 00-300.0 00-300.0 0.000-00 | 3.008+02 |
| 8126-02 7096-14 1346-08 1376-07 7316-06 7056-05 1396-04 2826-04 1446-02 1296-15 1476-09 5376-08 4456-06 4366-05 7406-05 1706-04 | 3.128-03 0.006-00 0.006-00 0.006-00 0.008-00 0.008-00 0.006-00 0.006-00 0.006-00 0.008-0000000000 | 1225-02 0.005-0000000000 | 8.126-42 8.006-42 2.826-07 7.206-06 2.176-08 2.826-02 5.256-02 1.256-02 8.446-40 7.876-03 6.206-08 2.118-08 1.256-03 1.546-02 8.856-02 8.456-02 | 8.125-02 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 3.126-02 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 3.460-02 0.008-00 0.002-00 0.008-00 0.008-00 0.008-00 0.008-00 | 8125-02 0.005-0000000000 | 8.126-02 |
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| 4.646-62 5.348-67 5.028-61 2.146-09 7.236-67 1.228-65 2.266-65 5.126-65 5.126-65 5.126-65 3.126-65 3.126-65 3.126-65 | 4.64E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 5.12E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 4.645-02 5.005-00 5.005-00 5.005-00 5.005-00 5.005-00 5.005-00 5.125-02 5.005-06 5.005-06 5.005-06 5.005-06 5.005-06 5.005-06 | 4.64E-02 124E-04 117E-02 108E-0E 144E-04 458E-03 912E-03 230E-02 512E-02 250E-05 559E-01 530E-09 724E-05 142E-03 572E-03 154E-02 | 4545-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 5127-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 4.44E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 5.12E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 4446-02 0.002-00 0.002-00 0.001-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 4.646-00 5.126+00 |
| 3.455-02 2.878-18 1.528-02 1.716-10 1.806-07 4.228-06 8.086-06 1.996-05 | 5.455-02 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 5.452-42 0.008-40 0.008-40 0.008-40 0.008-40 0.008-40 0.008-40 | 1496-40 1496-14 L096-11 L996-05 4346-05 2346-01 4325-02 1326-02 | 5454-02 00-000 00-000 00-000 00-000 00-000 00-000 00-000 | \$455-02 0.08-00 0.055-00 0.08-00 0.086-00 0.000-00 0.000-00 | 5.452-01 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 5.658-82 |
| 6.246-02 8.076-19 5.908-13 6.668-11 1.076-07 1.268-06 6.188-06 1.496-05 | £246-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 6.246-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 6246-02 0.00E-00 2.90E-12 7.0EE-10 2.30E-05 1.246-08 2.79E-03 8.346-09 | £246-02 0.006-00 0.006-00 0.008-00 0.008-00 0.008-00 0.008-00 | 4,240-02 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 6.24E-02 0.00E-00 5.00E-00 5.00E-00 0.00E-00 0.00E-00 0.00E-00 | 6.240-00 |
| 6.896-02 0.008-00 6.826.34 1.176-11 6.896.06 1.896.06 8.526.06 7.616-02 0.008-00 4.858-15 1.366-12 1.626.08 8.666.07 1.968.06 6.256.06 | 6.8%-02 0.00E-00 0.00E-0000000000 | 6.8%4-03 5.0%4-00 6.0%4-00 6.0%4-00 5.0%4-00 5.0%4-06 5.0\%4-06 5.0\%4-0004-0005-00040000000000000000000000 | 6.896-62 0.008-60 2538-63 8.798-11 8.308-66 8.286-68 1.428-03 4.428-03 7.616-62 1.118-13 8.568-13 8.568-12 2.678-66 2.368-64 7.046-64 2.358-63 | 4.8%<+02 0.00E<00 0.00E<0000000000 | 6.8%-02 0.00E-00 0.00E-0000000000 | 6.3% -C2 0.30(-40 0.0 | 6.236-02 |
| \$408-02 0.008-00 3.208-16 1.838-13 5.218-09 4.768-07 1.028-06 2.688-06 | 5.40E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 4.33E-34 | £402-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 8.408-02 0.008-00 0.008-00 7.528-13 7.486-07 1.388-04 1.098-03 | 8.405-00 00-000 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 8.456-02 0.068-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 00-300.0 00-300.0 00-300.0 00-300.0 00-300.0 00-300.0 20-304.8 | 8.405-02 |
| 9 286-02 0008-00 8426-07 1.796-04 1.586-09 2.026-07 5.008-07 1.196-06 1.006-03 0.008-00 1.318-18 5.586-04 4.396-00 8.538-08 1.296-07 6.826-07 | 9.28E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 5.668-01 1.00E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.36E-09 | 9.28E+02 0.00E+00 0.00E+00000E+0000000000 | 8286-02 5246-03 1426-02 1426-02 1426-07 4426-05 1426-04 4/96-04 | 928-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.00E-05 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 9.28E-02 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.00E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 9285-02 0205-00 0205-00 0205-00 0205-00 0205-00 0205-00 0205-00 0205-00 0205-00 0205-00 0205-00 0205-00 0205-00 | 9.286+02 1.008-08 |
| 100-03 000-00 135-14 558-34 4396-30 8.516-08 1296-07 8.828-07 1026-03 0006-00 1356-14 4396-34 1386-00 1396-08 1206-07 4366-07 | 1.00E-03 0.00E-06 0.00E-00 0.00E-00 0.00E-00 0.00E-00 1.04E-05 | 1.02E+08 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 4.52E+18 | 1005-03 2008-00 2686-03 2966-02 4396-06 1305-05 5488-05 1396-04 1825-03 5006-00 0:005-06 1105-12 2296-08 6136-06 1388-05 7.76-05 | 125-01 036-30 0305-30 0305-30 0305-30 0306-30 0306-30 0306-30 | 100-00 000-00 000-00 000-00 000-00 000-00 000-00 000-00 | 108-00 000-00 000-00 000-00 000-00 000-00 000-00 000-00 | 1.005-00 |
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| 1528-03 0.008-00 8.928-17 1.816-05 2.208-12 4.296-10 1.416-09 6.468-09 | 1521+03 0.000+00 0.000+00 0.000+00 0.000+00 2.152-12 2.500-08 1.996-06 | 1521=01 0.00E=00 0.00E=00 0.00E=00 0.00E=00 0.00E=00 0.00E=00 0.00E=00 | 1.521+00 0.000+00 2.462-03 1.946-02 6.532-00 8.215-08 1.906-07 8.996-07 | 1528-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | LSS-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1528-05 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1.528-08 |
| 1.680-03 0.000-00 5.600-18 2.570-36 9.200-13 1.236-10 1.900-30 1.820-09 | 1486-03 0.008-06 0.008-00 0.008-00 0.008-00 1.762-10 1.406-07 1.096-06 | 1.686-08 0.006-00 0.006-00 0.008-00 0.006-00 0.006-00 2.568-12 | LANE-03 0.008-00 2.488-14 1.648-13 2.558-10 1.698-08 8.888-08 3.296-07 | 1486-08 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | L48E-05 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1486-07 0.006-00 0.006-00 0.008-00 0.008-00 0.006-00 0.008-00 | 1.682-09 |
| 1842-03 0000-00 4070-33 1326-34 1925-33 3396-33 1346-35 4496-30 2018-03 0000-00 0.000-00 0.000-00 1346-34 1.000-30 5.4486-30 1.4486-39 | 1882-03 0.002-00 0.002-00 0.002-00 0.002-00 1.080-09 1.380-09 1.4980-06 2.062-03 0.002-00 0.002-00 0.002-00 5.145.00 1.080.06 1.850-06 1.450-06 | 1.868-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 6.836-12 2.058-08 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 8.186-12 | 1.882-03 0.002-00 1.225-04 6.940-04 9.790-01 1.622-08 5.675-08 2.402.67 2.052-03 0.002-00 8.846-05 1.886-04 2.086-03 5.298-09 5.828-08 2.705-07 | 1.842-03 0.002-000 0.002-000 0.002-000 0.002-000 0.002-0000-0000 | 1362-03 0.002-0000-000-000-000-000-000-000-000-0 | 1888-00 0.000-000- | 1.866-08 |
| 2.346-03 5.006-06 5.006-06 5.786-03 5.426-05 1.486-13 1.025-02 5.216-03 | 2,266-03 0,006-00 0,006+00 0,006+00 2,106-05 5,266-06 1,506-06 3,266-05 | 1.366+00 0.006+00 0.006+00 0.006+00 0.006+00 0.006+00 0.006+00 1.236-10 | 2268-03 0000-00 4346-06 1266-04 6556-02 1306-00 1805-09 4005-08 | 1364-03 0306-00 0306-00 0306-00 0306-00 0306-00 0306-00 | 2.365-01 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 2.345-01 0.005-00 5.005-00 5.005-00 5.005-00 5.005-00 5.005-00 | 2.346-00 |
| 2508-03 0.008-00 1.328-18 1.136-17 6.486-15 1.508-12 1.528-11 8.696-11 | 2.502-03 0.002+00 0.002+00 0.002+00 5.022-05 1.162-05 2.662-05 5.212-05 | 2.508-08 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 1.706-00 | 1508-03 5008-06 4728-05 5398-05 1406-02 1046-03 3508-00 3646-09 | 2508-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2508-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 2598-05 0.008-00 0.008-00 0.088-00 0.008-00 0.008-00 0.008-00 | 2.506+00 |
| 2.748-03 0.008-00 0.008-00 0.008-00 1.196-14 2.858-13 2.346-12 1.346-11 3.008-03 0.008-00 0.008-00 0.008-00 6.726-17 1.086-14 1.286-13 1.726-12 | 2.74E-03 0.00E-00 0.00E-00 0.00E-00 4.50E-08 1.48E-05 1.42E-05 7.24E-05 3.00E-03 0.00E-00 0.00E-00 0.00E-00 1.51E-07 1.94E-05 8.57E-05 8.44E-05 | 2.76F-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 6.50E-00 6.59E-11 3.00E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 9.275.11 | 2.748-05 0.000-00 0.000-00 0.000-00 5.446-04 2.446-01 1.078-00 7.446-05 1.000-00 0.000-00 0.000-00 0.006-00 4.206-04 1.728-02 7.546-02 4.526-01 | 2.742-03 0.002-06 0.002-0000000000 | 2742-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 3.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 2762-01 0.000-00 5.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 2.768=00 |
| 1052-03 0.002-00 0.002-00 0.002-00 1.546-17 1.162-15 5.956-15 1.012-13 | 1.052-03 0.002-00 0.002-00 0.002-00 1.062-07 2.002-05 1.672-05 8.542-05 | 1.052-01 0.008-00 1.008-00 0.008-00 0.008-00 0.008-00 1.075-10 | 1050-00 0000-00 0.000-00 0.000-00 8.700-05 8.100-03 3.290-02 1.508-03 | 102-03 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 3.052-05 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 3052-03 0.008-00 3.008-00 3.008-00 3.008-00 3.008-00 5.008-00 | 3.052-00 |
| 1.14E+03 0.00E+00 0.00E+00 0.00E+00 5.09E-18 1.11E-15 2.75E-15 2.41E-14 | 3.362-03 0.008-00 0.008-00 0.008-00 3.662-07 2.232-05 4.062-05 9.678-05 | 5.568-05 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 2.415-15 | 1.542-03 0.001-00 0.001-00 0.001-00 0.001-00 2.575-13 1.582-12 9.795-13 | 1.362-03 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-00 | 1.NZ-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 3.342-03 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 3.362=05 |
| 3.732-03 0.008-00 0.008-00 0.008-00 2.046-08 1.708-06 5.386-06 4.496-05 4.008-08 0.008-00 0.008-00 0.008-00 2.836-08 2.846-07 7.498-07 6.568-06 | 3.712-03 0.002-00 0.002-00 0.002-00 4.602-07 2.075-05 4.072-05 8.512-05 4.105-03 0.002-00 0.002-00 0.002-00 4.665.07 1.996.05 8.802.05 8.662.05 | 3.718+03 5.008+00 5.008+00 6.008+00 0.008+00 0.008+00 5.008+00055.0000500000000000000000000000 | 1718-09 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.16E-14 2.96E.14 2.296.13 4.128-08 0.00E+00 0.00E+00 0.00E+00 2.446.25 2.796.04 5.096.04 1.996.13 | 1.712-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 4.20E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 1.75E-03 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 4.30E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 3.712-03 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 4.102-00 0.002-000 0.002-0000000000 | 3.718-00 |
| 4516-01 5006-00 0.006-00 4116-03 4.466-03 4.106-07 8.086-07 8.216-06 | 4538-03 0.008-00 0.008-00 0.008-00 3428-07 1.828-05 1.426-05 8.528-05 | # 586+00 0.006+00 0.006+00 0.006+00 0.006+00 0.006+00 0.026-09 | 4538-03 0.008-00 0.008-00 0.008-00 0.086-03 5.06-04 0.086-04 0.086-03 | 4336-03 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 4 126-01 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 4535-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 0.005-00 | 4.536-00 |
| 5.005+03 0.005+00 0.005+00 0.005+00 1.505-18 1.535-17 1.575-17 1.405-16 | 5.008+08 0.008+08 0.008+00 0.008+00 0.246-07 1.408-05 2.646-05 7.088-05 | 5.005+01 0.005+00 0.005+00 0.005+00 0.005+00 0.005+00 5.325-09 | 5005-03 0005-00 0.005-00 0.005-05 5.525-04 8.506-04 1.675-13 | 5.006-01 0.006-00 0.008-00 0.008-00 0.008-00 0.006-00 0.006-00 | 5.00E-01 0.00E+00 0.00E+00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 5.008-05 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 5.000-00 |
| 5.128-63 0.008-00 0.008-00 0.008-00 1.086-08 1.040-07 0.950-07 0.960-07 6.096-68 0.008-00 0.008-00 0.008-00 1.786-08 2.008-07 0.086-04 | 5.528-03 0.008-00 0.008-00 0.008-00 1.088-07 1.028.05 2.218.05 6.358-05 6.098-03 0.008-00 0.008-00 0.008-00 4.368.08 6.258.06 1.646.05 5.056-05 | 5.521+03 5.008+00 5.008+00 6.008+00 6.008+00 6.008+00 5.588-09 6.0%1+03 5.008+00 6.005+00 6.005+00 5.006+00 5.008+00 5.0%8-09 | 5.528-03 0.008-00 0.008-00 0.008-00 7.956.05 6.658.04 1.028-13 7.126-13 6.098-03 0.006-00 0.008-00 0.006-00 7.096.04 1.466-13 7.026-13 4.226-13 | 5328-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 6.096-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 5328-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 6.086-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 5528-05 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 5.528+68 |
| 6.73E-03 0.00E-00 0.00E-00 0.00E-00 1.78E-08 3.19E-07 5.77E-07 1.60E-06 | 6.73E-03 0.00E-00 0.00E-00 0.00E-00 2.10E-08 1.44E-06 9.546-06 3.31E-05 | 6.79E-01 0.09E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 5.04E-09 | 6736-00 0008-00 0.008-00 0.008-00 2.858-04 2.658-03 4.128-03 8.968-03 | 6.738-08 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 4.756-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 | 4.738-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 6.738-00 |
| 7.438-03 0.008-00 0.008-00 0.008-00 7.758-18 9.196-17 1.428-16 3.176-16 | 7.498-03 0.008-00 0.008-00 0.008-00 7.396-09 1.698-06 5.576-06 2.106-05 | 7.416-03 0.006-00 0.006-00 0.008-00 0.008-00 6.006-00 6.046-20 8.296-05 | 7.418-03 0.008-00 0.008-00 0.008-00 3.426-13 6.646-13 1.546-12 | 7.418-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 7.458-05 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 7.438-05 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 7.438-05 |
| 8.208-01 0.008-00 0.008-00 0.008-00 1.678-17 2.158-16 1.478-16 8.288-16 5.088-01 0.008-00 0.008-00 1.008-08 6.538-16 1.186-15 2.628-16 | 8208-03 0.008-00 0.008-00 0.008-00 2.646.09 7.276.07 2.616.06 1.176.08 5.066-03 0.008-00 0.008-00 0.008-00 7.105.10 1.146.07 1.146.06 4.778.08 | 8.208-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 1.556-05 8.256-05 8.068-03 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.756-05 1.456-08 | 8.201-00 0.000-00 0.000-00 0.000-00 0.000-00 0.000-13 1.000-13 1.000-13 1.000-10 0.000-000- | 8.202-03 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 8.062-03 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 8.208-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 8.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 838-01 038-00 0382-00 0382-00 0302-00 0302-00 0302-00 0302-00 0302-00 | 8.206-05 |
| 1.008+04 8.008+00 0.002+00 0.006+00 9.096-18 7.728-16 1.118-15 1.106-15 | 1008-04 0.008-00 0.008-00 0.008-00 1425-10 1.208-07 4.768-07 2.848-06 | 1.002+04 0.002+00 0.002+00 0.002+00 0.002+00 5.032-15 1.582-08 | 1008-04 0.008-00 0.008-00 0.008-00 1138-12 8.985-12 1446-11 2.786-11 | 1868-04 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1006-04 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1.008+04 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 0.008+00 | 1.000-04 |
| 1.008-04 0.008-00 0.008-00 0.008-00 3.348-17 6.598-16 1.078-15 1.158-15 | 1002-04 0.002-00 0.002-00 0.002-00 1.602-10 1.302-07 4.762-07 2.842-06 | 1.002-04 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 5.030-19 1.582-08 | 1.008+04 0.008+00 0.008+00 1.138-15 1.896-12 7.786-12 1.056-11 2.136-12 | 1002-04 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1.008-04 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 0.008-00 | 1,002-04 0,002-00 0,002-00 0,002-00 0,002-00 0,002-00 0,002-00 | 1.008-04 |
| 1.10E+04 0.00E+00 0.00E+00 0.00E+00 0.996-01 0.40E-05 1.026-05 1.026-05 1.026-05 0.00E+00 0.00E+00 0.996-07 0.20E-06 9.976-04 1.276-05 | 1105-04 0.005-00 0.005-00 0.005-00 1.005-11 4545-05 1.895-07 1.335-04 1.225-04 0.005-00 0.005-00 0.005-00 5.675.12 1.445-05 5.315-05 5.795-07 | 1.30H-04 0.00H-00 0.00H-00 0.00H-00 0.00H-00 0.00H-00 5.2H0.0H 1.2H0.0H 1.22H-04 0.00H-00 0.00H-00 0.00H-00 0.00H-00 7.2H0.0H 8.8H0.0H | 1328-04 4476-07 1336-04 1438-03 1446-02 9488-02 1578-01 2796-03 1228-04 8428-05 8528-04 1978-03 1798-02 9365-02 1428-01 2488-03 | 1208-04 0306-00 0306-00 0308-00 0306-00 0306-00 0306-00 0306-00 1226-00 0306-00 0306-00 0306-00 0306-00 0306-00 | L38404 0,008400 0,008400 0,008400 0,008400 0,008400 0,008400 0,008400 0,008400 0,008400 0,008400 0,008400 0,008400 0,008400 0,008400 0,008400 0,008400 | 1.10E-04 0.50E-00 5.00E-00 5.00E-00 5.00E-00 5.00E-00 5.00E-00 5.00E-00 1.22E-04 5.00E-00 5.00E-0005.00E-0005.00E-0005.00E-0005.00E-0005.00E-0005.00E-0005.00E-0005.00E-0005.00E-0005.00E-0005.00E-0005.00E-0005.00E-0005.00E-0005.00E-0005.00E-0005.0 | 1.328+04 |
| 1.984-04 0.008-00 0.008-00 5.256-00 1.686-04 1.286-05 1.966-05 5.526-05 | 1.558-04 0.008-00 0.008-00 0.008-00 1.546-12 4.118-09 1.618-06 1.596-07 | 1356-04 0.006-00 0.006-00 0.008-00 0.008-00 0.006-00 1.046-08 7.556-09 | LINE-04 5-126-15 2-546-13 4-126-13 2-588-12 2-588-11 2-588-11 3-136-13 | 1352-54 0.005-00 0.002-00 0.005-00 0.006-00 0.008-00 0.006-00 | 1352-04 0.008-00 0.002-00 0.006-00 0.008-00 0.008-00 0.008-00 | 1358-04 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 0.006-00 | 1.356-04 |
| 1496-04 8.008-08 0.006-08 8.008-08 8.568-17 1.026-15 1.696-15 5.656-15 | 1495-04 0.005-00 0.005-00 0.002-00 4.405-13 1.215-09 4.495-09 7.475-08 | 1406-04 0.006-00 0.006-00 0.006-00 0.006-00 7.156-16 7.106-05 | 1496-04 7.818-36 2.366-13 5.196-13 5.396-12 1.576-11 2.176-11 3.726-11 | 1492-04 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1498-04 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1496-04 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1.490-04 |
| 1.64E-04 E00E-00 0.00E-00 3.42E-29 7.22E-06 6.32E-15 9.36E-15 1.91E-14 1.81E-04 0.00E-00 0.00E-00 0.00E+00 2.18E-09 3.17E-08 5.58E-08 1.58E-07 | 1.64E-04 0.00E-00 0.00E-00 0.00E-00 9.79E-14 2.99E-01 1.24E-09 1.87E-08 1.81E-04 0.00E-00 0.00E-00 0.00E-00 1.15E-14 6.58E-01 E.40E-00 5.49E-09 | 1440-04 0.000-00 0.000-00 0.000-00 0.000-00 5.000-00 5.000-08 4.000-09 1200-04 0.000-00 0.000-00 0.000-00 0.000-00 0.100-09 7.910-08 1.700-09 | 1640-04 0000-00 6126-15 4576-14 1580-12 1135-11 1675-11 3525-11 1818-64 0000-00 0000-00 4225-25 2665-54 4396-54 8396-54 | 1548-04 0.005-06 0.005-0000000000 | L54E-94 0.04E-90 0.02E-90 0.00E-90 0.00 | 1.646-04 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 1.836-04 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 0.002-00 | 1.640-04 |
| | | | | | | | |

| | | | | Sulphote | | | | | | | | Dec | | | | | | | |
|------|---------------------|--------------------------|------------------------------|---------------------------|----------------------|--------------------------|-----------------------|--------------------------|----------------------|---------------|----------------------|----------------------|-------------|----------------------|-------------|--------------------------|------------------------|------------------------|---------------------|
| | | | | Concentratio | | | | | | | | Concentratio | in pounds | Ugel we | | | | | |
| | Percent 1 (AR-00 | Edit Parcent 0.008-00 | 1985 Parcentile E-002 -00 | films [vears] 0.002-00 | D NOE-50 | 5th Parcenti 0.002-00 | 0.00E-00 | 50th Percent 0.000-00 | 500 Parcent | 5.005 +05 | 0.006-00 | Time Iveard | 0.00E+00 | 5/8 Parcents | DOM Pencent | 50th Parcent 5.005+50 | 500 Parcan 5.005-00 | 958 Parcan 0.002-00 | 0.00E +0 |
| | 208-00 | 0.008-00 | 0.008-00 | 1.008-00 | 0.005-00 | 0.005-00 | 0.008-00 | 0.008-00 | 118-15 | 4 405-15 | 1.628.03 | 1.005-00 | 0.008-00 | 0.008-00 | 0.008-00 | 2.008-00 | 0.008-00 | 0.008+00 | 0.000+00 |
| | 208-00 | 0.005-00 | 0.008-00 | 2.005-00 | 0.005-00 | 0.005-00 | 0.008-00 | 0.008-00 | 1196-05 | 3 156-08 | 1.628-02 | 2.005-00 | 0.000,-00 | 0.008-00 | 0.008+00 | 0.008-00 | -0.005-00 | 0.006+00 | 0.008+08 |
| | DOE-00 | 0.005-00 | 0.006-00 | 3.006-00 | 0.005-00 | 5.088-08 | 2.625-06 | 3.345-04 | 7.496-01 | 1.186-02 | 1.996-02 | 1.008-00 | 0.008-00 | 0.008-00 | 0.006+00 | 5.005+00 | 0.006-00 | 0.008+00 | 0.008+00 |
| | 005-00 | 0.008+00 | 8.008-00 | 4.008+00 | 1246-00 | 1.886-04 | 148-00 | 3.728-82 | 2.196-01 | 2.888-01 | 4.006-00 | 4,008-00 | 0.008-00 | 0.00E+00 | 0.008+00 | 0.005+00 | 0.005-00 | 0.008+00 | 0.008+00 |
| | 308-30 | 0.008-00 | 0.008-00 | 5.000-00 | 4996-02 | L 146-02 | 3 314 -02 | 1.386+00 | 1.442-00 | 1.961-00 | 4 90 - 00 | 6.008-00 | 0.008-00 | 0.008+00 | 0.008+00 | 0.006+00 | 0.008-00 | 0.000=00 | 0.000+00 |
| . 0 | 006-00 | 0.005-00 | 8.008-00 | 7.006-00 | 106-01 | 6.475-01 | 8.586-01 | 2.848+00 | 5.818-00 | 6.596-00 | 8.548-00 | 7.008-00 | 0.008-00 | 0.006+00 | 0.006+00 | 0.008-00 | 0.008-00 | 0.008+00 | 0.008+00 |
| | 008-00 | 0.008-00 | 0.008-00 | 6.006-00 | 5.246-01 | 7.966-01 | 1.100-00 | 1.818-00 | 8.342-00 | 9.638-00 | 1.178-01 | 1.005-00 | 0.908-00 | 0.008+00 | 0.008+00 | 0.008+00 | 0.008-00 | 0.008+00 | 0.008+00 |
| | DOE -00 | 0.006-00 | 0.008-00 | 9.008-00 | 5.03E-05 4.34E-05 | 7.196-05 | 9.836-05 8.136-05 | 1.642-00 | 1,062-01 | 1.248-05 | 1.856-01 | 5-306-30 | 0.008-300.0 | 0.008-00 | 0.008+00 | 0.008-00 | 0.006-00 | 0.008-00 | 0.000+00 |
| | DOE-00 | 0.005+00 | 0.005-00 | 1.306-06 | 1748-01 | 5.528-02 | 7.576-00 | 2.806+00 | 1.105-01 | 1478-01 | 1.968-01 | 1.106-01 | 0.005-00 | 0.005 -00 | 0.000+00 | 5 005-00 | 0.006-00 | 0.008+00 | 0.006+00 |
| | 205-200 | 0.008-00 | 0.008-00 | 1.305+01 | 1566-01 | 5.198-01 | 7.146-01 | 2.658+00 | 3.435-00 | 1.196-01 | 1.908+01 | 1.306+01 | 0.005-00 | 0.005+00 | 0.005+00 | 0.008+00 | 0.005+00 | 0.005+06 | 5.006+06 |
| . 0. | 008-00 | 0.006-00 | 0.006-00 | 1.405-01 | 1478-01 | \$ 286-01 | 5.502-01 | 2.588=00 | 5.038-00 | 118-01 | 1.908-01 | 1.408-01 | 0.008-00 | 0.008-00 | 0.008+00 | 0.006+00 | 0.008-00 | 0.008+00 | 0.006+00 |
| | DOE-00 | 0.005+00 | 2.008-00 | 1.608-05 | 1.442-01 | 5.206-01 | 6.762-01 | 2.538+00 | 8.725+90 | 1.278-01 | 1.668+01 | 1.608-01 | 0.002.400 | 0.00E+00 | 0.006+00 | 0.008+00 | 0.005-00 | 0.005+00 | 0.000+00 |
| | DOE-00 | 0.008-00 | 0.008-00 | 1.708-05 | 3.296-01 | 5.138-05 | 5.708-00 | 2,498+00 | 8.538-00 8.338-00 | 1.256-01 | 1.828+01 | 1.708-01 | 0.008-00 | 0.008-00 | 0.008+00 | 0.008-00 | 0.008-00 | 0.008+00 | 0.000+00 |
| | 205-30 | 0.005-00 | 0.008-00 | 2,500-05 | 1028-01 | 4,862-01 | 6.388-05 | 2,346-00 | 8.218-00 | 1.178-01 | 1.708-01 | 2,108-01 | 0.00000 | 0.008-00 | 0.006+00 | 0.008-00 | 0.008-00 | 0.006+00 | 0.000+00 |
| | 008-00 | 0.008-00 | 0.008-00 | 2,906+06 | 2,978-05 | 4,756-05 | 6.306-00 | 2.296+00 | 8.036-00 | 1.156-01 | 1.648-05 | 2,306-01 | 0.008-00 | 0.000 +00 | 0.008+00 | 0.008+00 | 0.008-00 | 0.006+00 | 0.000-00 |
| | 008-00 | 0.005-00 | 0.008-00 | 2.606-05 2.606-05 | 2348-01 | 4,558,451 | 5.665-20 | 2.316-00 | 7.705-00 | 1.128-01 | 1.628-01 | 2.606-01 | 0.005-00 | 0.008-00 | 0.008+00 | 0.006+00 | 0.005-00 | 0.008-00 | 0.008+00 |
| | 306-00 | 0.008-00 | 0.008-00 | 3.208+05 | 258-01 | 4,105-01 | 5.878-20 | 2.570+00 | 7.286=00 | 1.058-01 | 1.548+01 | 3.206-01 | 0.008-00 | 0.008+00 | 0.000+00 | 0.008+00 | 0.008-00 | 0.008+00 | 0.008+00 |
| - 0 | 306-300 | 0.006-00 | 0.008-00 | 3.500+01 | 2,346-01 | 3 836-01 | 5.186-00 | 1.976+00 | 7.135=00 | L025-01 | 1.506+08 | 3.500-01 | 6-00E×00 | 0.00E+00 | 0.005+00 | 0.006+00 | 4.006-00 | 0.005+00 | 0.008+08 |
| | 005-00 | 0.005-00 | 0.005-00 | 3.906-05 | 2166-01 | 1646-01 | 5.006-00 | 1.885+00 | 6.895-00 | 3435-00 | 1.458-01 | 3.805-01 | 0.005-00 | 0.008+00 | 0.005+00 | 0.005+00 | 0.005-00 | 0.008+00 | 0.005+00 |
| | 305-30 | 0.008-00 | 0.000-00 | 4.306+01 | 1.586-01 | 3.435-01 | 4.806-00 | 1,000+00 | 6.2562+00 | 5.278-00 | 1.428+01 | 4.305-01 | 0.005+00 | 0.008+00 | 0.000+00 | 0.005+00 | 1.005-00 | 0.008+00 | 0.000+00 |
| | 306-30 | 0.008-00 | 0.008-00 | 5.208-06 | 1318-61 | 2,996-41 | 4,306-01 | 1.630-00 | 5.908-00 | 8,240-00 | 1.298-01 | 5.208-01 | 0.008-00 | 0.006+00 | 0.000+00 | \$ 506-00 | 0.008-00 | 0.006+00 | 0.000-00 |
| | | | | | | | | | | | | | | | | | | | |
| . 0 | 305+30 | 0.008-00 | 0.005-00 | 5.708+61 | 9.658-02 | 2.688-01 | 3.828-05 | 1.538+90 | 5.596+00 | 7.688-00 | 1.228+01 | 5.708-01 | 0.005-00 | 0.008-00 | 0.006+00 | 0.008+00 | 0.008-00 | 0.008+00 | 0.008+00 |
| | 005-00 | 0.005-00 | 0.008-00 | 6.400-01 | 7578-02 | 2.386-01 | 8.555-00 | 1.435-00 | 5.258-00 | 7.348+00 | 1.168-01 | 6.40E-01 7.00E-01 | 0.008-00 | 0.008-00 | 0.005+00 | 0.005-00 | 0.005-00 | 0.005+08 | 0.008+00 |
| | DOE-00 | 0.008-00 | 0.008-00 | 7.008-01 | 4188-02 | 1.96-01 | 1.258-00 | 1.346+00 | 4.905-00 | 5.635-00 | 1.108-01 | 7.808-01 | 0.008-00 | 0.008+00 | 0.008+00 | 0.008-00 | 0.005-00 | 0.008+00 | 0.008+08 |
| | 205-200 | 0.005-00 | 8.000-00 | 8.608-01 | 10842 | 1.778-01 | 2475-05 | 1.186-00 | 4295-00 | \$435-00 | 9.858-00 | 4.605-01 | 0.008-00 | 0.008-00 | 0.006+00 | 0.006+00 | 0.005-00 | 0.006+00 | 0.008-00 |
| | .008-900 | 0.008-00 | 0.008-00 | 9.506-06 | 2428-02 | 1.431-01 | 2.488-01 | 1.108-00 | 4.008-00 | 6.062-00 | 9.328-00 | 3.505-01 | 0.008-00 | 0.006+00 | 0.008+00 | 0.008+00 | 0.008-00 | 0.006+00 | 0.008+00 |
| | DOR-00 | 0.005-00 | 0.006-00 | 1.058-02 | 1,216-02 | 1.488-05 | 2.186-00 | 9.986-21 | 8.73E+00 8.425+00 | 5.548-00 | 8.758-00 | 1.058+02 | 0.005-00 | 0.008-00 | 0.008+00 | 0.008-00 | 0.008-00 | 0.008+00 | 0.008-00 |
| | 208-00 | 0.008-00 | 0.008-00 | 1.286+02 | 7,886-08 | 3.521-02 | 1.625-85 | 8.096-01 | 3.205-00 | 4.552-00 | 7.588-00 | 1,288-02 | 0.008-00 | 0.008-00 | 0.008+00 | 5.008-00 | 0.008-00 | 0.008+00 | 0.005-00 |
| | 208-00 | 0.008-00 | 0.006-00 | 1.418-02 | 1.978-48 | 7,488-02 | 1.298-00 | 7.118-01 | 2,876+00 | 4.09(+00 | 7.148-00 | 1.436-02 | 0.005-00 | 0.008-00 | 0.008+00 | 0.008+00 | 0.008-00 | 0.008+00 | 0.008+00 |
| | 008-00 | 0.005-00 | 0.008-00 | 1.566+02 | 1925-08 | 5.436-02 | 1.018-05 | 6.146-00 | 2,718-00 | 3.186-00 | 6.418-00 | 1,566+02 | 0.005-00 | 0.008-00 | 0.008+00 | 0.006+00 | 0.005-00 | 0.006+00 | 8.366-22 |
| | 306-30 | 0.008-00 | 0.008-00 | 1.908-02 | 1.965-04 | 2.646-02 | 6.096-02 | 4 358-01 | 2.076+00 | 2.408-00 | 5.158+00 | 1.908-02 | 0.008-00 | 0.00E+00 | 0.006+00 | 0.000+00 | 4.008-00 | 0.008+00 | 1.596-25 |
| | 000-000 | 0.005+00 | 0.008-00 | 2.308-62 | 1705-04 | 1.798-40 | 4575-02 | 3498-41 | 1.636-00 | 2.438+00 | 4.588+00 | 2.306-02 | 0,008-00 | 0.008+00 | 0.008+00 | 0.008-00 | 0.008-00 | 0.008+00 | 1.906-18 |
| | 205-20 | 0.005-00 | 0.008-00 | 2.328+62 | 7.378-05 | 1.096-00 | 8.276-00 | 3.006-05 | 1.536-00 | 2.008-00 | 4.028-00 | 2.526+02 | 0.008-00 | 0.008-00 | 0.008+00 | 0.008-00 | 0.005-00 | 0.008+00 | 1.966-02 |
| | 000-00 | 0.005-00 | 0.000-00 | 2.865+02 | 108.05 | 1.055.03 | 1.198-40 | 1.876-01 | 1.095+00 | 1471-00 | 2 995-00 | 2.568+12 | 1.002-00 | 0.008-00 | 0.000+00 | 0.008-00 | 0.000+00 | 0.008+00 | 1,116-10 |
| | 306-300 | 0.006-00 | 0.008-00 | 3.008-02 | 1018-06 | 1.685-03 | 8.008-05 | 1.396-05 | 8.875-01 | L24E-00 | 2.496-00 | 1.008-02 | 0.008-00 | 0.008-00 | 0.008+00 | 0.006+00 | 0.006-00 | 0.008+00 | 1.346-07 |
| | 006+900 | 0.006-00 | 0.006-00 | 8.326+02 | 7,676-07 | 1.096-04 | 4.855.43 | 1.066-00 | 6.966-01 | 1.036-00 | 1.996-00 | 3,528+32 | 0.006-00 | 0.008-00 | 0.006+00 | 0.006+00 | 0.006-00 | 0.006-00 | 7.656-33 |
| | 005-00 | 0.005-00 | 0.008-00 | 3.446-02 | 1588-07 | 1.825-04 | 2.758-08 | 7.796-02 | 5.346-01 | 8.206-01 | 1.608-00 | 3.446+02 | 0.005-00 | 0.008-00 | 0.008+00 | 0.008+00 | 0.005-00 | 0.008+00 | 4.806-21 |
| | 008-00 | 0.005-00 | 0.005-00 | 4.306-02 | 4,652-09 | 5.415-05 | 4 188-04 | 1.745-02 | 1055-01 | 4 962-01 | 1.088+00 | 4.208-02 | 0.008-00 | 0.008-00 | 0.008+00 | 0.005+00 | 0.005+00 | 0.008+00 | 5.896-11 |
| | 305-300 | 5 006 +00 | 0.008-00 | 4.646-02 | 8.5%-00 | 2.156-05 | 2,775-04 | 2.615-02 | 2.356-01 | 3.846-01 | 8.018-01 | 4.646-02 | 0.005+00 | 0.008-00 | 0.00E+00 | 5.006+00 | 0.006-00 | 0.005+08 | 2 388-01 |
| | 005-00 | 0.008-00 | 0.008-00 | 5.128-02 | 9,446-11 | 1.NE-06 1.99E-06 | 1285-04 | 1.776-62 | 1.816-01 | 3.048-01 | 6.376-01 | 5.128-02 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.005-00 | 0.008-00 | 1.726-0 |
| | 208-00 | 0.005-00 | 0.008-00 | 6.246-02 | 6.658-12 | 1410-06 | 3,752-05 | \$ 256-40 | 1.186-01 | 1,876-01 | 5.505-01 | 5.366-02 | 0.008-00 | 0.008-00 | 0.008+00 | 0.008-00 | 0.005-00 | 0.000+00 | 2.516-02 |
| | 006-00 | 0.008-00 | 0.006-00 | 6.036-02 | 1.008-128 | 1.856-07 | 1.186-06 | 5.126-08 | 7.606-02 | 1.438-01 | 3.19(-01 | 6.096-02 | 0.006-00 | 0.008+00 | 0.006+00 | 0.006+00 | 0.006-00 | 0.006+00 | 8.408-01 |
| | DOE+00 | 0.005+00 | 0.006-00 | 7.616+00 | 1596-02 | 7.875-08 | 1.336-06 | 2.626-89 | 4.968-02 | 9.5%-02 | 2.186.05 | 7.615+02 | 0.005+00 | 0.008+00 | 0.008+00 | 0.005+00 | 0.005-00 | 0.006+00 | 2,806-04 |
| | 005-00 | 0.005+00 | 0.008-000 | 8.406+02 | 0.008-00 | 1,368-08 | \$.025-07 2.036-07 | 1.156-00 | 3.116-02 | 5.818-02 | 1.406-01 8.876-02 | 5.405+02 9.205+02 | 0.005-00 | 0.008-00 | 0.008+00 | 0.005+00 | 0.005+00 | 0.008+00 | 3.765-00 |
| | 008-00 | 0.005+00 | 0.006-00 | 1.006-08 | 0.006-00 | 2.188-09 | 5.846-08 | 2.825-04 | 1086-02 | 2.156-02 | 5.548.02 | 1.006+08 | 0.005+00 | 0.005+00 | 0.005+00 | 0.006+00 | 0.005-00 | 0.008+08 | 8.126-04 |
| | 205-00 | 0.005-00 | 0.005-00 | 1,025-06 | 0.005+00 | 1.745-09 | 3.215-06 | 1175-04 | 5.456-03 | 1.246-02 | 3.466-02 | 1.026-03 | 0.005-00 | 0.006-00 | 0.006+00 | 0.005-00 | 0.005+00 | 0.005+00 | 7.065-04 |
| | 208-00 | 0.008-00 | 0.008-00 | 1.138-00 | 0.005-00 | 1.171-09 | 2.028-08 | 4.316-05 | 2,806-03 | 8.268-08 | 1.978-02 | 1.130-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.008-00 | 1.046-19 | 4.558-00 |
| | 208-00 | 0.008-00 | 0.008-00 | 1,380-08 | 0.000-00 | 1.158-15 | 2,785-09 | 4,995-05 | 6.276.04 | 1,575-08 | 3.066-03 | 1,386-03 | 0.008-00 | 0.008-00 | 0.000+00 | 0.006+00 | 0.008-00 | 8.228-18 | 1.075-04 |
| | 00+300 | 0.008-00 | 0.008-00 | 1.528+68 | 0.005-00 | 2.538-13 | 9.646-10 | 1.615-06 | 2.526-04 | 7.562-04 | 2.638-00 | 1528-00 | 0.008-00 | 0.008-00 | 0.008+00 | 0.008+00 | 0.006=00 | 3.406-14 | 1.178-08 |
| | 006-00 | 0.005-00 | 0.000-00 | 1.682-09 | 1046-13 | 4.188-12 | 4.445-35 | 5.482-07 | 2,248-04 | 6.896-04 | 2.228-09 | 1.688-08 | 0.008-00 | 0.008-00 | 0.005+00 | 0.005-00 | 0.008-00 | 1.425-12 | 1.376-09 |
| | DOE-00 | 0.005-00 | 0.008-00 | 1.866-08 | 1.872-04 | 8.728-13 | 1.728-32 | 5.296-07 | 3.268-04 | 9.382-04 | 2.778-00 | 2.058-08 | 0.008-00 | 0.008-00 | 0.008+00 | 0.008+00 | 0.008-00 | 1.538-15 | 1.605-05 |
| . 0 | 205-200 | 0.005-00 | 0.008-00 | 2.348-00 | 1.015-04 | 2.825-32 | 9.676-12 | 7.346-08 | 1055-04 | 3.246-04 | 1.506-00 | 2,268-08 | 0.005+00 | 0.008+00 | 0.005+00 | 0.005+00 | 0.005+00 | 9.046-32 | 2.006-06 |
| | 306-300 | 0.008-00 | 0.008-00 | 2.506+00 | 0.006-00 | 3.148-13 | 2.396-12 | 8.125-09 | 2.846-05 | 1.046-04 | 5.098-04 | 2.506=08 | 0.005-00 | 0.008+00 | 0.006+00 | 0.006+00 | 0.006-00 | 1.428-09 | 2 128-09 |
| | 205-20 | 0.005-00 | 0.008-00 | 2.762+03 | 0.000-00 | 0.008-00 | 5.376-34 | 1.268-29 | 1.405-06 | 3.078-05 | 1576-04 4.196-05 | 2.768-03 | 0.008-00 | 0.008-00 | 0.005-00 | 0.005-00 | 1.005-00 | 1.225-09 | 2346-00 2.Nil-00 |
| . 0. | 305-90 | 1.0800 | 0.008-00 | 3 (56-00 | 0.005-00 | 0.000-00 | 0.008-00 | 2.796-12 | 2,496-07 | 1.435-06 | 5.886-06 | 1.058-01 | 0.008-00 | 0.008-00 | 0.006+00 | 0.006-00 | 0.005-00 | 2.895-09 | 2.376-01 |
| | 205-00 | 0.005-00 | 0.008-00 | 3.362=05 | 0.008-00 | 0.008-00 | 0.008-00 | 7.86-13 | 1.465-08 | 2.906-07 | 1.985-06 | 3,362-08 | 0.008-00 | 0.008-00 | 0.005+00 | 0.005-00 | 4.005-00 | 1.465-08 | 1.905-01 |
| | 008-00 | 0.008-00 | 0.008-00 | 3.718-00 | 0.005-00 | 0.008-00 | 0.008-00 | 7.826-25 | 3.718-09 | 3 298-08 | 2,412,477 | 3.732-05 | 0.002-00 | 0.008-00 | 0.000+00 | 0.008+00 | 0.008-00 | 8.436-09 | 1,608-09 |
| | DOX-00 | 0.008-00 | 0.000-00 | 4.308-08 | 0.005-00 | 0.005-00 | 0.008-00 | 4.438.04 | 1.586-10 | 4.138-09 | 4.718-08 | 4.536-08 | 0.005-00 | 0.008-00 | 0.008+00 | 0.008-00 | 0.008-00 | 1,008-08 | 1.278-09 |
| . 6 | 208-300 | 0.005-00 | 2.006-00 | 5.006-00 | 0.005-00 | 0.005-00 | 0.008-00 | 9.778-04 | 1.106-11 | 7,176-11 | 5.096-00 | 5.008-08 | 0.008-00 | 0.008-00 | 0.006+00 | 5.005+00 | 0.006-00 | 2.216-09 | 1.458-01 |
| | 00+800 | 0.008+00 | 0.006-00 | 5.528+08 | 0.906-90 | 0.006-00 | 0.008-00 | 1.046-13 | 2.136-12 | 1.646-11 | 9.116-01 | 5.526+08 | 0.00(+00 | 0.008-00 | 0.008+00 | 0.008+00 | 0.008-00 | 7,928-30 | 1.518-01 |
| | 205-00 | 0.005-00 | 0.005-00 | 6.096-00 | 0.005-00 | 0.005-00 | 0.008-00 | 1.825-13 | 1,306-12 | 2.196-12 | 8.226-12 | 4.735-23 | 0.005-00 | 0.008-00 | 0.008+00 | 0.005-00 | 0.005-00 | 4.986-12 | 1.156-0 |
| | 305-30 | 0.008-00 | 8.008-00 | 6.730+00 | 0.008-00 | 0.008-00 | 0.008-00 | 0.006-00 | 1,286-12 | 2.166-12 | 6.906-12 | 7.438-08 | 0.008-00 | 0.008-00 | 0.006+00 | 0.008-00 | 4315-18 | 3.236-14 | 9,976-04 |
| | 008-00 | 1.005-00 | 0.008-00 | 8.206-05 | 0.000-00 | 0.008-00 | 0.008-00 | 0.008-00 | 1.408-12 | 2,875-12 | 7 548-12 | 8.205-05 | 0.008-00 | 0.008+00 | 0.008+00 | 0.008-00 | 2,538-18 | 4596-12 | 7,676-04 |
| | 00-300 | 0.006-00 | 0.006-00 | 9.062-08 | 0.008-00 | 0.001-00 | 0.008-00 | 3.118-12 | 1 706-11 | 2.838-43 | 4.508-11 | 9,068-08 | 0.008-90 | 0.008-00 | 0.008+00 | 0.008+00 | 4.126-17 | 1.356-12 | 5.552-00 |
| | 00E-00 | 0.005-00 | 0.008-00 | 1.008-04 | 0.008-00 | 0.008-00 | 0.008+06 | 2.346-12 | 3 058-11 | 4566-11 | 9.686-11 | 1.008+04 | 0.008+00 | 0.00E+00 0.00E+00 | 0.008+00 | 0.005+00 | 9.48E-17 8.22E-17 | 3.636-13 | 1.846-00 |
| | DOE -00 | 0.008-00 | 0.008-00 | 1.308+04 | 0.008-00 | 0.008-00 | 1.618-13 | 5.346-12 | 2,906-11 | 4338-11 | 6.008-11 | 1.008-04 | 0.008-00 | 0.008+00 | 0.008+00 | 0.006+00 | 8.228-17 | 1.876-13 | 2.438.00 |
| | 006-00 | 0.006-00 | 0.006-00 | 1.225-04 | 0.005-00 | 9,936-24 | 4.596-13 | 5.656-12 | 2,916-11 | 4356-11 | 8.876-11 | 5.226-04 | 0.006-000 | 0.008-00 | 0.006+00 | 0.006+00 | 8.706-17 | 8.125-14 | 1,206-06 |
| | 305-300 | 0.006-00 | 0.005-00 | 1.355-04 | 4.342-05 | 1.940-13 | 1.128-12 | 8.316-12 | 3.998-11 | 8 2 3 8 - 2 3 | 1.126-50 | 1.058-04 | 0.005-00 | 0.005-00 | 0.008+00 | 5 006+00 | \$496-17 | 4.046-14 | 4.962-20 |
| | 108-00 | 0.008-00 | 0.008-00 | 1.490-04 | 1.226-15 | 6.935-13 | 1.468-12 | 1/96-11 | 4.768-11 | 7.328-12 | 1.316-40 | 1.495-04 | 0.000-00 | 0.006-00 | 0.008+00 | 0.008-00 | 148-15 | 3.506-15 | 1,046-07 |
| | | | | | | | | | | | | | | | | | | | |
| | 208-00 | 0.005+00 | 0.008-00 | 1.815+04 | 0.005-00 | 0.005-00 | 9.725-16 | 2 258-14 | 1245-12 | 2.016-12 | 5.648-12 | 1.815+04 | 0.005+00 | 0.005 -00 | 0.005+00 | 0.005+00 | 2.806-16 | 1.196-14 | 5 502-08 |

| anno. Annoniaut N Concentration is ground-same [og] Trans fuest: I Annonit Ion Personi 10th Person 10th Person 10th Person 10th Person 10th Personite | Argenic Concentration in groundwater (ng/) Time Loage 10 Percent 10k Percent 20k Percen 50k Percen 10k Percen 10k Percente | Cadman Concentration in ground-state [mg/] Time Sead: La Personi 300 Person 300 Person 300 Person 100 Person 100 Person | Onumbe Concentration in ground-state (eg/l) Time (sear) 20 Proceed 108 Percent 108 Percent 108 Percent 108 Percent 108 Percent | Copper Concentration is groundwater [eg/] Time leads La Present (in Percent 206 Percent 506 Percent 506 Percent 106 Percent | Land Concentration in groundwater (egi) Two loads 1:st Annaetti 50 Annaett 100 Annaet 100 Annaet 100 Annaett 100 Annaetti | Menory Concentration in groundwater [http:// Time-locati 10 Present 100 Penant 200 Penant 500 Penant 500 Penant 500 Penant | Suphane Concentration in groundwater [hgt] Time fuend Lif Percenti Sile Percent 20th Percent Solth Percent Molt Percent Mith Percentile | Deci Concentration is groundwater (eg/l) Time Leard: 20 Periami 30 Periami 205 Percar 305 Percar 905 Percar 905 Percard |
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| 0.008-00 1.618-02 1.188-02 4.828-02 2.618-04 1.718-00 2.518-00 4.478-00 | 0.008-00 1.008-08 1.008-08 1.008-08 1.008-08 1.008-08 1.008-08 | 0308-00 2382-05 2582-05 2522-05 4546-05 6398-05 7212-05 8298-05 | 5.008-00 6.8M8-01 7.325-01 8.546-01 1.M8-02 2.542-02 8.028-02 8.7N8-02 | 0.000-00 1.000-08 1.000-08 1.000-08 1.000-08 1.000-08 | 6.00E-00 100E-01 100E-01 100E-01 100E-01 100E-01 100E-01 100E-01 | 0.008-00 1.056-05 1.036-05 1.128-05 1.538-05 4.128-05 4.528-05 4.778-08 | 5.005+00 110E-02 134E-02 130E+02 152E+02 179E+02 180E+02 180E+02 | 0.008-00 4.076-00 5.586-08 7.486-08 2.246-02 5.546-02 8.636-02 8.518-02 |
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| Lattice 14642 14644 84542 84544 1510-00 8470-00 Lattice 14644 1512-00 84544 1510-00 8470-00 Lattice 14644 1514-00 8470-00 1510-00 8470-00 Lattice 1514-00 1514-00 1510-00 1510-00 8470-00 Lattice 1514-00 1514-00 1510-00 1510-00 8470-00 Lattice 1514-00 1514-00 1514-00 1514-00 8470-00 Lattice 1514-00 1514-00 1514-00 1514-00 1514-00 1514-00 Lattice 1514-00 1514-00 1514-00 1514-00 1514-00 1514-00 1514-00 Lattice 1514-00 1514-00 1514-00 1514-00 1514-00 1514-00 1514-00 Lattice 1514-00 1514-00 1514-00 1514-00 1514-00 1514-00 1514-00 1514-00 1514-00 1514-00 1514-00 1514-00 1514-00 1514-00 | Lange Interf Interf </td <td>141-00 252.00 152.00<</td> <td>144-0 486-0 150-0 160-0 160-0 170-0 170-0 160-0 160-0 160-0 160-0 170-0 170-0 160-0 160-0 160-0 160-0 170-0 180-0 150-0 160-0 160-0 160-0 170-0 180-0 160-0 160-0 160-0 160-0 170-0 180-0 160-0 160-0 160-0 160-0 170-0 180-0 160-0 160-0 160-0 170-0 170-0 180-0 160-0 160-0 160-0 170-0 170-0 180-0 160-0 160-0 160-0 170-0 170-0 180-0 160-0 160-0 160-0 170-0 170-0 180-0 170-0 160-0 160-0 170-0 170-0 180-0 170-0 160-0 160-0 170-0 170-0 180-0 170-0 160-0 160-0 170-0 170-0</td> <td>161-02 188-01 188-02 188-02 188-02 188-02 188-02 157-02 188-02 188-02 188-02 188-02 188-02 188-02 157-02 188-02</td> <td>Letter Laster <thlaster< th=""> <thlaster< th=""> <thlaster< td="" th<=""><td></td><td>144-00 136-00<</td><td>Latter Justice Table <thtable< th=""> Table Table <</thtable<></td></thlaster<></thlaster<></thlaster<></td> | 141-00 252.00 152.00< | 144-0 486-0 150-0 160-0 160-0 170-0 170-0 160-0 160-0 160-0 160-0 170-0 170-0 160-0 160-0 160-0 160-0 170-0 180-0 150-0 160-0 160-0 160-0 170-0 180-0 160-0 160-0 160-0 160-0 170-0 180-0 160-0 160-0 160-0 160-0 170-0 180-0 160-0 160-0 160-0 170-0 170-0 180-0 160-0 160-0 160-0 170-0 170-0 180-0 160-0 160-0 160-0 170-0 170-0 180-0 160-0 160-0 160-0 170-0 170-0 180-0 170-0 160-0 160-0 170-0 170-0 180-0 170-0 160-0 160-0 170-0 170-0 180-0 170-0 160-0 160-0 170-0 170-0 | 161-02 188-01 188-02 188-02 188-02 188-02 188-02 157-02 188-02 188-02 188-02 188-02 188-02 188-02 157-02 188-02 | Letter Laster Laster <thlaster< th=""> <thlaster< th=""> <thlaster< td="" th<=""><td></td><td>144-00 136-00<</td><td>Latter Justice Table <thtable< th=""> Table Table <</thtable<></td></thlaster<></thlaster<></thlaster<> | | 144-00 136-00< | Latter Justice Table Table <thtable< th=""> Table Table <</thtable<> |
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| CHM-01 Life ALSO HALE Life ALSO Julie Life KALE Life ALSO ALSO Julie Life Life KALE Life ALSO Life Life Life KALE Life ALSO Life Life Life KALE Life ALSO Life Life Life KALE Life ALSO | Limited Limited <t< td=""><td>LBM-01 224-05 234-05 232-05 454-05 524-05 526-05<</td><td>Likewi Likewi <thlikewi< th=""> <thlikewi< th=""> <thlikewi< td="" th<=""><td>LMC-01 JMC-01 JMC-02 <thjmc-02< th=""> <thjmc-02< th=""> <thjmc-02< td="" th<=""><td>Line Direction <thdirection< th=""> <thdirection< th=""> <thdirect< td=""><td></td><td>LB-041 LB-041 <thlb-041< th=""> <thlb-041< th=""> <thlb-041< td="" th<=""><td>Line C 1/2 <thc< td=""></thc<></td></thlb-041<></thlb-041<></thlb-041<></td></thdirect<></thdirection<></thdirection<></td></thjmc-02<></thjmc-02<></thjmc-02<></td></thlikewi<></thlikewi<></thlikewi<></td></t<> | LBM-01 224-05 234-05 232-05 454-05 524-05 526-05< | Likewi Likewi <thlikewi< th=""> <thlikewi< th=""> <thlikewi< td="" th<=""><td>LMC-01 JMC-01 JMC-02 <thjmc-02< th=""> <thjmc-02< th=""> <thjmc-02< td="" th<=""><td>Line Direction <thdirection< th=""> <thdirection< th=""> <thdirect< td=""><td></td><td>LB-041 LB-041 <thlb-041< th=""> <thlb-041< th=""> <thlb-041< td="" th<=""><td>Line C 1/2 <thc< td=""></thc<></td></thlb-041<></thlb-041<></thlb-041<></td></thdirect<></thdirection<></thdirection<></td></thjmc-02<></thjmc-02<></thjmc-02<></td></thlikewi<></thlikewi<></thlikewi<> | LMC-01 JMC-01 JMC-02 JMC-02 <thjmc-02< th=""> <thjmc-02< th=""> <thjmc-02< td="" th<=""><td>Line Direction <thdirection< th=""> <thdirection< th=""> <thdirect< td=""><td></td><td>LB-041 LB-041 <thlb-041< th=""> <thlb-041< th=""> <thlb-041< td="" th<=""><td>Line C 1/2 <thc< td=""></thc<></td></thlb-041<></thlb-041<></thlb-041<></td></thdirect<></thdirection<></thdirection<></td></thjmc-02<></thjmc-02<></thjmc-02<> | Line Direction Direction <thdirection< th=""> <thdirection< th=""> <thdirect< td=""><td></td><td>LB-041 LB-041 <thlb-041< th=""> <thlb-041< th=""> <thlb-041< td="" th<=""><td>Line C 1/2 <thc< td=""></thc<></td></thlb-041<></thlb-041<></thlb-041<></td></thdirect<></thdirection<></thdirection<> | | LB-041 LB-041 <thlb-041< th=""> <thlb-041< th=""> <thlb-041< td="" th<=""><td>Line C 1/2 <thc< td=""></thc<></td></thlb-041<></thlb-041<></thlb-041<> | Line C 1/2 C 1/2 <thc< td=""></thc<> |
| LHC=0 LHC=0 AUGC AUGC LHC=0 LHC=0 AUGC | Index Index <th< td=""><td>184-04 12660 12760 4566 5776 5776 8666 184-04 12660 12660 4566 4666 6666 7626 8666 184-04 12660 12660 4566 4666 6666 7626 8666 184-04 12660 12660 4666 4666 6666 6666 8666</td><td>$\begin{array}{ c c c c c c c c c c c c c c c c c c c$</td><td>LBC-0 LBC-0 <th< td=""><td>Line J.M. <thj.m.< th=""> J.M. J.M. <thj< td=""><td>100-0 <th< td=""><td>1.00-01 1.00-01 1.00-02 <t< td=""><td>Line 4 Mode Line 7 Mode 2 Mode Mode</td></t<></td></th<></td></thj<></thj.m.<></td></th<></td></th<> | 184-04 12660 12760 4566 5776 5776 8666 184-04 12660 12660 4566 4666 6666 7626 8666 184-04 12660 12660 4566 4666 6666 7626 8666 184-04 12660 12660 4666 4666 6666 6666 8666 | $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | LBC-0 LBC-0 <th< td=""><td>Line J.M. <thj.m.< th=""> J.M. J.M. <thj< td=""><td>100-0 <th< td=""><td>1.00-01 1.00-01 1.00-02 <t< td=""><td>Line 4 Mode Line 7 Mode 2 Mode Mode</td></t<></td></th<></td></thj<></thj.m.<></td></th<> | Line J.M. J.M. <thj.m.< th=""> J.M. J.M. <thj< td=""><td>100-0 <th< td=""><td>1.00-01 1.00-01 1.00-02 <t< td=""><td>Line 4 Mode Line 7 Mode 2 Mode Mode</td></t<></td></th<></td></thj<></thj.m.<> | 100-0 100-0 <th< td=""><td>1.00-01 1.00-01 1.00-02 <t< td=""><td>Line 4 Mode Line 7 Mode 2 Mode Mode</td></t<></td></th<> | 1.00-01 1.00-01 1.00-02 <t< td=""><td>Line 4 Mode Line 7 Mode 2 Mode Mode</td></t<> | Line 4 Mode Line 7 Mode 2 Mode |
| 188-01 188.01 188.02 188.01< | 1554-01 1.064-01 1.064-01 1.064-01 1.064-01 1.064-01 1.064-01 1.0 | Interior 2.04.05 < | 100~0 6.00~0 7.01~0 6.04~0 1.00~0 5.00~0 1.00~0 | 105-0 105-0 <td< td=""><td>105-04 106-04<</td><td>101-04 101-05<</td><td>1014-01 <</td><td>100~01 4271-01 5586-01 741-01 2248-02 548-02 4438-02 8458-020</td></td<> | 105-04 106-04< | 101-04 101-05< | 1014-01 < | 100~01 4271-01 5586-01 741-01 2248-02 548-02 4438-02 8458-020 |
| 600-00 1010-00 1010-00 400-00 101-00 400-00 501-00 1010-00 1010-00 1010-00 400-00 101-00 400-00 501-00 1010-00 1010-00 1010-00 101-00 400-00 501-00 1010-00 1010-00 101-00 101-00 400-00 501-00 1010-00 1010-00 101-00 101-00 400-00 501-00 1010-00 1010-00 400-00 101-00 400-00 501-00 1010-00 1010-00 400-00 101-00 400-00 1010-00 1010-00 1010-00 101-00 101-00 400-00 1010-00 1010-00 101-00 101-00 400-00 400-00 1010-00 1010-00 101-00 101-00 400-00 400-00 1010-00 1010-00 101-00 101-00 400-00 400-00 1010-00 1010-00 101-00 101-00 400-00 400-00 1010-00 | Linger Linger <thlinger< th=""> <thlinger< th=""> <thlinger< td="" th<=""><td>40% 21460 21660 <</td><td>LBC-01 428-01 755-04 824-05 126-05 226-05<</td><td>L004-01 L004-01 <thl004-01< th=""> <thl004-01< th=""> <thl< td=""><td>420-00 1.06.00 1.06.01 <th< td=""><td></td><td>L00-01 L30-01 <thl30-01< th=""> <thl30-01< th=""> <thl30-01< td="" th<=""><td>Linged 4.9740 5.0840 7.0540 2.0440 5.0440 8.0440<</td></thl30-01<></thl30-01<></thl30-01<></td></th<></td></thl<></thl004-01<></thl004-01<></td></thlinger<></thlinger<></thlinger<> | 40% 21460 21660 < | LBC-01 428-01 755-04 824-05 126-05 226-05< | L004-01 L004-01 <thl004-01< th=""> <thl004-01< th=""> <thl< td=""><td>420-00 1.06.00 1.06.01 <th< td=""><td></td><td>L00-01 L30-01 <thl30-01< th=""> <thl30-01< th=""> <thl30-01< td="" th<=""><td>Linged 4.9740 5.0840 7.0540 2.0440 5.0440 8.0440<</td></thl30-01<></thl30-01<></thl30-01<></td></th<></td></thl<></thl004-01<></thl004-01<> | 420-00 1.06.00 1.06.01 <th< td=""><td></td><td>L00-01 L30-01 <thl30-01< th=""> <thl30-01< th=""> <thl30-01< td="" th<=""><td>Linged 4.9740 5.0840 7.0540 2.0440 5.0440 8.0440<</td></thl30-01<></thl30-01<></thl30-01<></td></th<> | | L00-01 L30-01 L30-01 <thl30-01< th=""> <thl30-01< th=""> <thl30-01< td="" th<=""><td>Linged 4.9740 5.0840 7.0540 2.0440 5.0440 8.0440<</td></thl30-01<></thl30-01<></thl30-01<> | Linged 4.9740 5.0840 7.0540 2.0440 5.0440 8.0440< |
| 1276-04 145142 131842 445142 1414-0 2511-04 4478-0 1386-04 142442 131842 445142 141642 1314-0 2511-04 4478-0 1486-04 145142 131842 445142 14164 1316-0 2511-04 4478-0 1486-04 145142 131842 445142 14164 1316-0 2511-04 4478-0 1510-04 1516-1 131842 445142 1416-1 1316-0 2511-04 4478-0 1510-04 1516-1 131842 445142 1416-1 1316-0 2511-04 4478-00 | 127-04 1364-0 1364-0 1364-0 1364-0 1364-0 1364-0 1364-0 1364-0 1364-0 1364-0 1364-0 1364-0 1364-0 1364-0 1364-0 1364-0 1364-0 1464-0 1364-0 1364-0 1364-0 1364-0 1364-0 1464-0 1364-0 1364-0 1364-0 1364-0 1364-0 1364-0 1464-0 1364-0 1364-0 1364-0 1364-0 1364-0 1364-0 1364-0 1464-0 1364-0 1364-0 1364-0 1364-0 1364-0 1364-0 1364-0 1464-0 1364-0 1364-0 1364-0 1364-0 1364-0 1364-0 1364-0 1264-0 1364-0 <td< td=""><td>127년~8 1246년7 1246년7 2726년 4586년 4586년 7216년 1586년 1286년 1286년 1286년 2728년 4586년 4586년 7216년 1886년 1886년 2386년 1286년 2728년 4586년 4586년 7216년 1886년 1886년 1286년 1286년 2728년 4586년 4586년 7216년 1386년 1286년 2386년 1286년 2528년 4586년 4586년 7216년 1386년</td><td>1224-04 648-04 7524-05 854-05 1486-02 2486-05 1824-02 1776-0 1826-04 6486-04 7526-04 854-04 1386-04 1586-04 1826-04 1776-0 1846-04 6486-04 7526-04 854-05 1386-04 1586-04 1826-04 1776-0 1846-04 6486-04 7526-04 854-04 1386-04 1586-04 1826-04 1776-0 1826-04 6486-04 7526-04 854-04 1386-04 1586-04 1826-04 1776-0 1826-04 6486-04 7526-04 854-04 1386-04 1586-04 1826-04 1776-0</td><td>Little44 1.086-01</td><td>1274-94 1086-01 <t< td=""><td>120-04 130-05 120-05 130-05 120-05<</td><td>1274-0 1284-0 1284-0 1294-0 1294-0 1284-0 1294-0 1284-0 12</td><td>122-04 4.07540 5.886.01 7.866.01 2.086.01 8.866.01 <t< td=""></t<></td></t<></td></td<> | 127년~8 1246년7 1246년7 2726년 4586년 4586년 7216년 1586년 1286년 1286년 1286년 2728년 4586년 4586년 7216년 1886년 1886년 2386년 1286년 2728년 4586년 4586년 7216년 1886년 1886년 1286년 1286년 2728년 4586년 4586년 7216년 1386년 1286년 2386년 1286년 2528년 4586년 4586년 7216년 1386년 | 1224-04 648-04 7524-05 854-05 1486-02 2486-05 1824-02 1776-0 1826-04 6486-04 7526-04 854-04 1386-04 1586-04 1826-04 1776-0 1846-04 6486-04 7526-04 854-05 1386-04 1586-04 1826-04 1776-0 1846-04 6486-04 7526-04 854-04 1386-04 1586-04 1826-04 1776-0 1826-04 6486-04 7526-04 854-04 1386-04 1586-04 1826-04 1776-0 1826-04 6486-04 7526-04 854-04 1386-04 1586-04 1826-04 1776-0 | Little44 1.086-01 | 1274-94 1086-01 <t< td=""><td>120-04 130-05 120-05 130-05 120-05<</td><td>1274-0 1284-0 1284-0 1294-0 1294-0 1284-0 1294-0 1284-0 12</td><td>122-04 4.07540 5.886.01 7.866.01 2.086.01 8.866.01 <t< td=""></t<></td></t<> | 120-04 130-05 120-05 130-05 120-05< | 1274-0 1284-0 1284-0 1294-0 1294-0 1284-0 1294-0 1284-0 12 | 122-04 4.07540 5.886.01 7.866.01 2.086.01 8.866.01 <t< td=""></t<> |



Ferns Group Wrotham Quarry Addington, Kent

Environmental Permit Application Buttressing of Quarry Faces Using Inert Materials Hydrogeological Risk Assessment

Version 3 16th June 2022

Appendix 8 Derivation of Control Levels and Compliance Limits



Technology Centre, Wolverhampton Science Park, Glashier Drive, Wolverhampton West Midlands, WV10 9RU. Tel: 01902 824111, Fax: 01902 824112 email: info@bclhydro.co.uk, web: http://www.bchydro.co.uk Registered Office: 33, Wolverhampton Road, Cannock, West Midlands, WV11 1AP Registered in England & Wales. Company Registration Number: 4043373

Cadmium, Down Gradient Concentrations <LOD excluded.

Time-series plot does not suggest there is a clear trend in the data over time

Baseline Data (mg/l)

| Date | | | | |
|------------|---------|-------|-------|--------|
| 27/04/2021 | | | | |
| 19/05/2021 | | | | |
| 23/06/2021 | 0.0001 | | | |
| 27/07/2021 | 0.00002 | | _ | |
| 24/08/2021 | | | | |
| 24/09/2021 | | | | |
| 20/10/2021 | 0.00007 | 0.000 | | 1 |
| 17/11/2021 | | | - | 11 |
| 15/12/2021 | | | | 11.000 |
| 25/01/2022 | 0.0000 | | | |
| 21/02/2022 | | | 2.021 | |
| 28/03/2022 | 0.0000 | | _ | |
| 27/04/2022 | 0.0001 | | | |

D'Agostino's Test for Normal Distribution, P1

| Count [x] | Sorted Data [A] | x-(n+1)/2 [B] | Product of A & B |
|-----------|--------------------|------------------|---------------------|
| 1 | 0.00002 | -2.5 | -0.00005 |
| 2 | 0.0000 | -1.5 | -0.000045 |
| 3 | 0.0000 | -0.5 | -0.000015 |
| 4 | 0.0001 | 0.5 | 0.000025 |
| 5 | 0.00007 | 1.5 | 0.000105 |
| 6 | 0.0001 | 2.5 | 0.00025 |
| | | | |
| | | | |
| | | | |

| NORMALITY DIS | TRIBUTION TE | ST |
|--|----------------|----|
| n | 6 | |
| Mean | 0.00 | |
| Standard Deviation | 0.00 | |
| T | 0.00 | |
| D | 0.247 | |
| Y | -2.845 | |
| Y 1% value | -4.33 | |
| Y 99% value | 0.11 | |
| Y in range? (& therefore Data is Normally Distributed) | Yes | |
| | and percentile | |
| μ + 2σ | 0.00011 | mg |
| Percentile | 97.725% | |
| μ + 3σ | 0.00014 | mg |
| Percentile | 99.865% | |

| ION TEST | LOG-NORMALITY | DISTRIBUTION TEST |
|----------|---|-------------------|
| 6 | n | 6 |
| 0.00 | Mean | -10.05 |
| 0.00 | Standard Deviation | 0.60 |
| 0.00 | T | 5,55 |
| 0.247 | D | 0.256 |
| -2.845 | Y | -2.157 |
| -4.33 | Y 1% value | -4.33 |
| 0.11 | Y 99% value | 0.11 |
| s | Y in range? (& therefore Data is Log- Normally Distributed) | Yes |
| rcentile | | I and percentile |
| 011 mg/l | μ + 2σ | 0.00014 mg/l |
| 5% | Percentile | 97.725% |
| 014 mg/l | μ + 3σ | 0.00026 mg/l |
| 5% | Percentile | 99.865% |

mg/i mg/l

| Date | | | | _ | |
|------------|----------|---|-----|---|--|
| 27/04/2021 | | | | | |
| 19/05/2021 | | | | | |
| 23/06/2021 | -9.2103 | | | | |
| 27/07/2021 | -10.8198 | | | | |
| 24/08/2021 | | | | | |
| 24/09/2021 | | | | | |
| 20/10/2021 | -9.5670 | 1 | (i) | | |
| 17/11/2021 | | | | | |
| 15/12/2021 | | | | | |
| 25/01/2022 | -10.4143 | | | | |
| 21/02/2022 | | | | | |
| 28/03/2022 | -10.4143 | | | | |
| 27/04/2022 | -9.9035 | 1 | | 1 | |

| Count [x] | Sorted Data [A] | x-(n+1)/2 [B] | Product of A & B |
|------------------|--------------------|------------------|---------------------|
| 1 | -10.8198 | -3 | 27.0 |
| 2 | -10.4143 | -2 | 15.6 |
| 3 | -10.4143 | -1 | 5.2 |
| 2 3 4 5 | -9.90349 | 1 | -5.0 |
| 5 | -9.5670 | 2 | -14.4 |
| 6 | -9.2103 | 3 | -23.0 |
| | | | |
| | | | - |

Cadmium, Up Gradient Concentrations <LOD excluded.

Time-series plot does not suggest there is a clear trend in the data over time

Baseline Data (mg/l)

| Date | | |
|------------|---------|--|
| 27/04/2021 | 0.0001 | |
| 19/05/2021 | 0.00005 | |
| 23/06/2021 | 0.0001 | |
| 27/07/2021 | 0.00004 | |
| 24/08/2021 | 0.00004 | |
| 24/09/2021 | 0.00005 | |
| 20/10/2021 | 0.00006 | |
| 17/11/2021 | | |
| 15/12/2021 | | |
| 25/01/2022 | 0.0000 | |
| 21/02/2022 | | |
| 28/03/2022 | 0.0001 | |
| 27/04/2022 | 0.0001 | |

D'Agostino's Test for Normal Distribution, P1

| 0.00004 0.00004 0.0000 0.00005 | -4.5 -3.5 -2.5 -1.5 | -0.00018 -0.00014 -0.0001 -0.000075 |
|---|------------------------------|--|
| 0.0000 | -2.5 | -0.0001 |
| 0.00005 | | |
| | -1.5 | -0.000075 |
| 0.00000 | | |
| 0.00005 | -0.5 | -0.000025 |
| 0.0001 | 0.5 | 0.000025 |
| 0.00006 | 1.5 | 0.00009 |
| 0.0001 | 2.5 | 0.000225 |
| 0.0001 | 3.5 | 0.00035 |
| 0.0001 | 4.5 | 0.00045 |
| | 0.00006 0.0001 0.0001 | 0.00006 1.5 0.0001 2.5 0.0001 3.5 |

| NORMALITY DIS | STRIBUTION TE | ST |
|-----------------------|--|-----|
| n | 10 | |
| Mean | 0.00 |) |
| Standard Deviation | 0.00 |) |
| Т | 0.00 |) |
| D | 0.249 | |
| Y | -3.443 | |
| Y 1% value | -4.11 | |
| Y 99% value | 0.36 | 5 |
| Y in range? (& | Yes | |
| therefore Data is | | |
| Normally Distributed) | | |
| | el and percentile mal distribution) | • |
| μ + 2σ | 0.00011 | mg/ |
| Percentile | 97.725% | |
| μ + 3σ | 0.00014 | mg/ |
| Percentile | 99.865% | |

| DISTRIBUTION TEST | LOG-NORMALITY | ISTRIBUTION | TEST |
|---------------------|---|--------------|------|
| 10 | n | 13 | 0 |
| 0.00 | Mean | -9.7 | 5 |
| 0.00 | Standard Deviation | 0.3 | 8 |
| 0.00 | T | 9.6 | 3 |
| 0.249 | D | 0.25 | 57 |
| -3.443 | Y | -2.68 | 9 |
| -4.11 | Y 1% value | -4.1 | 1 |
| 0.36 | Y 99% value | 0.3 | 6 |
| Yes | Y in range? (& therefore Data is Log- Normally Distributed) | Yes | |
| evel and percentile | Parameter leve | and percenti | le |
| 0.00011 mg/l | μ + 2σ | 0.00012 | mg/ |
| 97.725% | Percentile | 97.725% | |
| 0.00014 mg/l | μ + 3σ | 0.00018 | mg/ |
| 99.865% | Percentile | 99.865% | |

Natural Logs of Baseline Data

| Date | | | |
|------------|-------------------------|------|---|
| 27/04/2021 | -9.2103 | | |
| 19/05/2021 | -9.9035 | | |
| 23/06/2021 | -9.2103 | | |
| 27/07/2021 | -10.1266 | | |
| 24/08/2021 | -10.1266 | | |
| 24/09/2021 | -9.9035 | | |
| 20/10/2021 | -9.7212 | | _ |
| 17/11/2021 | | | |
| 15/12/2021 | | | |
| 25/01/2022 | -10.1266 | | |
| 21/02/2022 | · · · · · · · · · · · · | | |
| 28/03/2022 | -9.3157 | | |
| 27/04/2022 | -9.9035 | - | |

| 10 1000 | | |
|---------|---|--|
| 10.1266 | -5 | 45.6 |
| 10.1266 | -4 | 35.4 |
| 10.1266 | -3 | 25.3 |
| -9.9035 | -2 | 14.9 |
| -9.9035 | -1 | 5.0 |
| -9.9035 | 2010 C | -5.0 |
| -9.7212 | 2 | -14.6 |
| -9.3157 | 3 | -23.3 |
| -9.2103 | 4 | -32.2 |
| -9.2103 | 5 | -41.4 |
| | 10.1266 -9.9035 -9.9035 -9.9035 -9.7212 -9.3157 -9.2103 | 10.1266 -3 -9.9035 -2 -9.9035 -1 -9.9035 1 -9.7212 2 -9.3157 3 -9.2103 4 |

Sulphate, Down Gradient Concentrations <LOD excluded.

Time-series plot does not suggest there is a clear trend in the data over time

Baseline Data (mg/l)

| Date | · / | |
|------------|--------|--|
| 27/04/2021 | 189.00 | |
| 19/05/2021 | 168.00 | |
| 23/06/2021 | 189.00 | |
| 27/07/2021 | 184.00 | |
| 24/08/2021 | 201.00 | |
| 24/09/2021 | 174.00 | |
| 20/10/2021 | 132.00 | |
| 17/11/2021 | 161.00 | |
| 15/12/2021 | 171.00 | |
| 25/01/2022 | 140.00 | |
| 21/02/2022 | 153.00 | |
| 28/03/2022 | 116.00 | |
| 27/04/2022 | 166.00 | |

| Count [x] | Sorted Data [A] | x-(n+1)/2 [B] | Product of A & B |
|-----------|--------------------|------------------|---------------------|
| 1 | 116.00 | -6 | -696 |
| 2 | 132.00 | -5 | -660 |
| 3 | 140.00 | -4 | -560 |
| 4 | 153.00 | -3 | -459 |
| 5 | 161.00 | -2 | -322 |
| 6 | 166.00 | -1 | -166 |
| 7 | 168.00 | 0 | 0 |
| 8 | 171.00 | 1 | 171 |
| 9 | 174.00 | 2 | 348 |
| 10 | 184.00 | 3 | 552 |
| 11 | 189.00 | 4 | 756 |
| 12 | 189.00 | 5 | 945 |
| 13 | 201.00 | 6 | 1206 |

| NORMALITY DIS | TRIBUTION TE | ST |
|--|------------------|------|
| n | 13 | |
| Mean | 164.92 | 0.1 |
| Standard Deviation | 24.51 | |
| T | 1115.00 | |
| D | 0.269 | 6.0 |
| Y | -1.558 | £7. |
| Y 1% value | -4.00 | 6 |
| Y 99% value | 0.49 | 6.00 |
| Y in range? (& therefore Data is Normally Distrikuted) | Yes | |
| Parameter leve (assuming nor | l and percentile | |
| μ + 2σ | 214 | mg/ |
| Percentile | 97.725% | |
| μ + 3σ | 238 | mg/ |
| Percentile | 99.865% | |

| T | LOG-NORMALITY D | ISTRIBUTION | TEST |
|------|---|----------------|------|
| | 'n | 13 | |
| - H. | Mean | 5.09 | |
| - L | Standard Deviation | 0.16 | |
| - H. | T | 7.03 | |
| - H | D | 0.264 | |
| | Y | -2.156 | |
| | Y 1% value | -4.00 | |
| - H. | Y 99% value | 0.49 | |
| | Y in range? (& therefore Data is Log- Normally Distributed) | Yes | |
| | | and percentile | |
| ng/l | μ + 2σ | 223.520 | mg/l |
| | Percentile | 97.725% | |
| ng/l | μ + 3σ | 261.651 | mg/l |
| | Percentile | 99.865% | |

| Date | And the second second | | |
|------------|-----------------------|------|--|
| 27/04/2021 | 5.2417 | | |
| 19/05/2021 | 5.1240 | | |
| 23/06/2021 | 5.2417 | | |
| 27/07/2021 | 5.2149 | | |
| 24/08/2021 | 5.3033 | | |
| 24/09/2021 | 5.1591 | | |
| 20/10/2021 | 4.8828 | | |
| 17/11/2021 | 5.0814 | | |
| 15/12/2021 | 5.1417 | | |
| 25/01/2022 | 4.9416 | | |
| 21/02/2022 | 5.0304 | | |
| 28/03/2022 | 4.7536 | | |
| 27/04/2022 | 5.1120 | | |

| Count [x] | Sorted Data [A] | x-(n+1)/2 [B] | Product of A & B |
|-----------|--------------------|------------------|---------------------|
| 1 | 4.7536 | -6 | -28.5 |
| 2 | 4.8828 | -5 | -24.4 |
| 3 | 4.9416 | -4 | -19.8 |
| 4 | 5.0304 | -3 | -15.1 |
| 5 | 5.0814 | -2 | -10.2 |
| 6 | 5.11199 | -1 | -5.1 |
| 7 | 5.1240 | 0 | 0.0 |
| 8 | 5.1417 | 1 | 5.1 |
| 9 | 5.1591 | 2 | 10.3 |
| 10 | 5.2149 | 3 | 15.6 |
| 11 | 5.2417 | 4 | 21.0 |
| 12 | 5.2417 | 5 | 26.2 |
| 13 | 5.3033 | 6 | 31.8 |

Sulphate, Up Gradient Concentrations <LOD excluded.

Time-series plot does not suggest there is a clear trend in the data over time

Baseline Data (mg/l)

| Date | | |
|------------|--------|--|
| 27/04/2021 | 136.00 | |
| 19/05/2021 | 113.00 | |
| 23/06/2021 | 129.00 | |
| 27/07/2021 | 131.00 | |
| 24/08/2021 | 137.00 | |
| 24/09/2021 | 127.00 | |
| 20/10/2021 | 125.00 | |
| 17/11/2021 | 131.00 | |
| 15/12/2021 | 141.00 | |
| 25/01/2022 | 131.00 | |
| 21/02/2022 | 139.00 | |
| 28/03/2022 | 135.00 | |
| 27/04/2022 | 163.00 | |

D'Agostino's Test for Normal Distribution, P1

| Count [x] | Sorted Data [A] | x-(n+1)/2 [B] | Product of A & B |
|-----------|--------------------|------------------|---------------------|
| 1 | 113.00 | -6 | -678 |
| 2 | 125.00 | -5 | -625 |
| 3 | 127.00 | -4 | -508 |
| 4 | 129.00 | -3 | -387 |
| 5 | 131.00 | -2 | -262 |
| 6 | 131.00 | -1 | -131 |
| 7 | 131.00 | 0 | 0 |
| 8 | 135.00 | - 1 | 135 |
| 9 | 136.00 | 2 | 272 |
| 10 | 137.00 | 3 | 411 |
| 11 | 139.00 | 4 | 556 |
| 12 | 141.00 | 5 | 705 |
| 13 | 163.00 | 6 | 978 |

| NORMALITY DIST | RIBUTION TES | ST |
|--|--------------|----|
| n | 13 | |
| Mean | 133.69 | |
| Standard Deviatior | 11.37 | |
| τ | 466.00 | |
| D | 0.243 | |
| Y | -4.754 | |
| Y 1% value | -4.00 | |
| Y 99% value | 0.49 | |
| Y in range? (& therefore Data is Normally Distributed) | No | |
| Parameter level (assuming norm | | |
| μ + 2σ | N/A | mg |
| Percentile | N/A | |
| μ+3σ | N/A | mg |
| Percentile | N/A | |

| LOG-NORMALITY D | ISTRIBUTION | TEST |
|---|-------------|------|
| n | 13 | 3 |
| Mean | 4.89 | |
| Standard Deviation | 0.08 | 3 |
| T | 3.4 | 5 |
| D | 0.246 | 5 |
| Y | -4.329 | |
| Y 1% value | -4.00 |) |
| Y 99% value | 0.49 | |
| Y in range? (& | No | |
| therefore Data is Log- Normally Distributed) | | |
| Parameter level | | 9 |
| μ + 2σ | N/A | mg |
| Percentile | N/A | |
| μ + 3σ | N/A | mg |
| Percentile | N/A | 100 |

| Date | | | |
|------------|--------|--------|---|
| 27/04/2021 | 4.9127 | | |
| 19/05/2021 | 4.7274 | | |
| 23/06/2021 | 4.8598 | | |
| 27/07/2021 | 4.8752 | | |
| 24/08/2021 | 4.9200 | 1 | |
| 24/09/2021 | 4.8442 | | |
| 20/10/2021 | 4.8283 | | |
| 17/11/2021 | 4.8752 | | |
| 15/12/2021 | 4.9488 | | |
| 25/01/2022 | 4.8752 | | |
| 21/02/2022 | 4.9345 | | |
| 28/03/2022 | 4.9053 | | |
| 27/04/2022 | 5.0938 | - 1 pl | 1 |

| Count [x] | Sorted Data [A] | x-(n+1)/2 [B] | Product of A & B |
|-----------|--------------------|------------------|---------------------|
| 1 | 4.7274 | -6 | -28.4 |
| 2 | 4.8283 | -5 | -24.1 |
| 3 | 4.8442 | -4 | -19.4 |
| 4 | 4.8598 | -3 | -14.6 |
| 5 | 4.8752 | -2 | -9.8 |
| 6 | 4.8752 | -1 | -4.9 |
| 7 | 4.8752 | 0 | 0.0 |
| 8 | 4.9053 | 1 | 4.9 |
| 9 | 4.9127 | 2 | 9.8 |
| 10 | 4.9200 | 3 | 14.8 |
| 11 | 4.9345 | 4 | 19.7 |
| 12 | 4.9488 | 5 | 24.7 |
| 13 | 5.0938 | 6 | 30.6 |

Zinc, Down Gradient Concentrations <LOD excluded.

Time-series plot does not suggest there is a clear trend in the data over time

| Basel | ine | Data | (mg/i) |
|-------|-----|------|--------|
| | | | |

| Date | | |
|------------|-------|--|
| 27/04/2021 | 0.008 | |
| 19/05/2021 | 0.008 | |
| 23/06/2021 | 0.008 | |
| 27/07/2021 | 0.003 | |
| 24/08/2021 | 0.003 | |
| 24/09/2021 | 0.006 | |
| 20/10/2021 | 0.099 | |
| 17/11/2021 | 0.009 | |
| 15/12/2021 | 0.043 | |
| 25/01/2022 | 0.074 | |
| 21/02/2022 | 0.008 | |
| 28/03/2022 | 0.027 | |
| 27/04/2022 | 0.029 | |

D'Agostino's Test for Normal Distribution, P1

| Count [x] | Sorted Data [A] | x-(n+1)/2 [B] | Product of A & B |
|-----------|--------------------|------------------|---------------------|
| 1 | 0.003 | -6 | -0.018 |
| 2 | 0.003 | -5 | -0.015 |
| 3 | 0.006 | -4 | -0.024 |
| 4 | 0.008 | -3 | -0.024 |
| 5 | 0.008 | -2 | -0.016 |
| 6 | 0.008 | -1 | -0.008 |
| 7 | 0.008 | 0 | 0 |
| 8 | 0.009 | 1 | 0.009 |
| 9 | 0.027 | 2 | 0.054 |
| 10 | 0.029 | 3 | 0.087 |
| 11 | 0.043 | 4 | 0.172 |
| 12 | 0.074 | 5 | 0.37 |
| 13 | 0.099 | 6 | 0.594 |

| NORMALITY DIST | RIBUTION TE | ST |
|--|-------------|-------|
| n | 13 | |
| Mean | 0.03 | ē., 1 |
| Standard Deviation | 0.03 | 8.1 |
| Т | 1.18 | 6 |
| D | 0.231 | |
| Y | -6.118 | K. |
| Y 1% value | -4.00 | e |
| Y 99% value | 0.49 | é |
| Y in range? (& therefore Data is Normally Distributed) | No | |
| Parameter level (assuming norm | | |
| μ + 2σ | N/A | mg |
| Percentile | N/A | 12 |
| μ + 3σ | N/A | mg/ |
| Percentile | N/A | |

| ON TEST | | LOG-NORMALITY E | DISTRIBUTION TEST | | |
|---------|------|---|-------------------|--|--|
| 13 | | n | 13 | | |
| 0.03 | | Mean | -4.31 | | |
| 0.03 | | Standard Deviation | 1.14 | | |
| 1.18 | | T | 51.30 | | |
| 0.231 | | D | 0.265 | | |
| -6.118 | | Y | -2.025 | | |
| -4.00 | | Y 1% value | -4.00 | | |
| 0.49 | | Y 99% value | Y 99% value 0.49 | | |
| | | Y in range? (& therefore Data is Log- Normally Distributed) | Yes | | |
| entile | | | I and percentile | | |
| n | ng/l | μ + 2σ | 0.133 mg | | |
| | | Percentile | 97.725% | | |
| n | ng/I | μ + 3σ | 0.418 mg | | |
| | | Percentile | 99.865% | | |

Natural Logs of Baseline Data Date /04/2021 -4.8283 -4.8283 -4.8283 -5.8091 -5.8091 -5.1160 -2.3126 -4.7105 -3.1466 -2.6037 -4.8283 -3.6119 05/2021 21 021 08/2021 /09/2021 17/11/2021 15/12/2021 1/02/202 -3.5405 27/04/20

| Count [x] | Sorted Data [A] | x-(n+1)/2 [B] | Product of A & B |
|-----------|--------------------|------------------|---------------------|
| 1 | -5.8091 | -6 | 34.9 |
| 2 | -5.8091 | -5 | 29.0 |
| 3 | -5.1160 | -4 | 20.5 |
| 4 | -4.8283 | -3 | 14.5 |
| 5 | -4.8283 | -2 | 9.7 |
| 6 | -4.8283 | -1 | 4.8 |
| 7 | -4.8283 | 0 | 0.0 |
| 8 | -4.7105 | 1 | -4.7 |
| 9 | -3.6119 | 2 | -7.2 |
| 10 | -3.54046 | 3 | -10.6 |
| 11 | -3.1466 | 4 | -12.6 |
| 12 | -2.6037 | 5 | -13.0 |
| 13 | -2.3126 | 6 | -13.9 |

Zinc, Up Gradient Concentrations <LOD excluded.

Time-series plot does not suggest there is a clear trend in the data over time

Baseline Data (mg/l)

| Date | 1 | |
|------------|-------|--|
| 27/04/2021 | 0.116 | |
| 19/05/2021 | 0.013 | |
| 23/06/2021 | 0.004 | |
| 27/07/2021 | 0.007 | |
| 24/08/2021 | 0.007 | |
| 24/09/2021 | 0.036 | |
| 20/10/2021 | 0.074 | |
| 17/11/2021 | 0.041 | |
| 15/12/2021 | 0.085 | |
| 25/01/2022 | 0.066 | |
| 21/02/2022 | 0.068 | |
| 28/03/2022 | 0.099 | |
| 27/04/2022 | 0.010 | |

D'Agostino's Test for Normal Distribution, P1

| Count [x] | Sorted Data [A] | x-(n+1)/2 [B] | Product of A & B |
|-----------|--------------------|------------------|---------------------|
| 1 | 0.004 | -6 | -0.024 |
| 2 | 0.007 | -5 | -0.035 |
| 3 | 0.007 | -4 | -0.028 |
| 4 | 0.010 | -3 | -0.03 |
| 5 | 0.013 | -2 | -0.026 |
| 6 | 0.036 | -1 | -0.036 |
| 7 | 0.041 | 0 | 0 |
| 8 | 0.066 | 1 | 0.066 |
| 9 | 0.068 | 2 | 0.136 |
| 10 | 0.074 | 3 | 0.222 |
| 11 | 0.085 | 4 | 0.34 |
| 12 | 0.099 | 5 | 0.495 |
| 13 | 0.116 | 6 | 0.696 |

| NORMALITY DIS | TRIBUTION TES | ST |
|--|----------------|-----|
| n | 13 | |
| Mean | 0.05 | |
| Standard Deviation | 0.04 | |
| т | 1.78 | |
| D | 0.270 | |
| Y | -1.432 | |
| Y 1% value | -4.00 | |
| Y 99% value | 0.49 | |
| Y in range? (& therefore Data is Normally Distributed) | Ves | |
| Parameter leve (assuming non | and percentile | |
| μ + 2σ | 0.126 | mg/ |
| Percentile | 97.725% | |
| μ + 3σ | 0.165 | mg/ |
| Percentile | 99.865% | |

| LOG-NORMALITY I | DISTRIBUTION | TEST |
|---|------------------|------|
| n | 13 | |
| Mean | -3.53 | |
| Standard Deviation | 1.18 | |
| T | 53.36 | |
| D | 0.267 | |
| Y | -1.810 | |
| Y 1% value | -4.00 | |
| Y 99% value | 0.49 | |
| Y in range? (& therefore Data is Log- Normally Distributed) | Yes | |
| | l and percentile | |
| μ + 2σ | 0.313 | mg |
| Percentile | 97.725% | |
| μ + 3σ | 1.020 | mg |
| Percentile | 99.865% | |

| Natural | logs | of | Baseline | Data |
|---------|------|----|----------|------|
| | | | | |

| Date | period and and a second | |
|------------|-------------------------|--|
| 27/04/2021 | -2.1542 | |
| 19/05/2021 | -4.3428 | |
| 23/06/2021 | +5.5215 | |
| 27/07/2021 | -4.9618 | |
| 24/08/2021 | -4.9618 | |
| 24/09/2021 | -3.3242 | |
| 20/10/2021 | -2.6037 | |
| 17/11/2021 | -3.1942 | |
| 15/12/2021 | -2.4651 | |
| 25/01/2022 | -2.7181 | |
| 21/02/2022 | -2.6882 | |
| 28/03/2022 | -2.3126 | |
| 27/04/2022 | -4.6052 | |

| Count [x] | Sorted Data [A] | x-(n+1)/2 [B] | Product of A & B |
|-----------|--------------------|------------------|---------------------|
| 1 | -5.5215 | -6 | 33.1 |
| 2 | -4.9618 | -5 | 24.8 |
| 3 | -4.9618 | -4 | 19.8 |
| 4 | -4.6052 | -3 | 13.8 |
| 5 | -4.3428 | -2 | 8.7 |
| 6 | -3.3242 | -1 | 3.3 |
| 7 | -3.1942 | 0 | 0.0 |
| 8 | -2.7181 | 1 | -2.7 |
| 9 | -2.6882 | 2 | -5.4 |
| 10 | -2.6037 | 3 | -7.8 |
| 11 | -2.4651 | 4 | -9.9 |
| 12 | -2.3126 | 5 | -11.6 |
| 13 | -2.1542 | 6 | -12.9 |