South Australian Metropolitan Fire Service

Largs North Station and Gallantry PFAS Testing Site
Groundwater Use Survey & Groundwater Investigation

May 2019

Executive summary

The South Australian Fire Service (MFS) engaged GHD Pty Ltd (GHD) to undertake this environmental investigation in the vicinity of the Largs North Fire Station (the site) following the detection of elevated per and poly fluoroalkyl substances (PFAS) results in groundwater beneath the site during the environmental investigation undertaken by GHD in December 2018 – February 2019, as documented in GHD, 2019, *South Australian Metropolitan Fire Service, Largs North and Gallantry PFAS Testing, Detailed Site Investigation Report.*

This environmental investigation was conducted between 1 March 2019 and 11 April 2019 and included the installation of seven (7) groundwater monitoring wells, gauging and sampling of seven (7) groundwater monitoring wells and a City of Port Adelaide Enfield Council irrigation bore located in the playing fields directly west of the Largs North Station, and a water use survey.

Analytical results were compared against a range of adopted assessment criteria which is outlined in Section 4. A summary of the analytical results is presented in Section 6.

Based on this investigation, the following conclusions were made:

- The first regional aquifer is located at depths ranging between 2.289 mBGL (MW10) and 2.944 mBGL (MW03). Groundwater elevations across the site ranged between 0.513 mAHD (MW10) and 0.631 mAHD (MW05).
- An assessment of groundwater salinity indicated that fresh to brackish groundwater beneath the site may be suitable for potable use irrigation purposes (SA EPA, 2015).
- The groundwater was inferred to flow north east towards the residential area located immediately north and north east of the Largs North Fire Station.
- Elevated concentrations of PFAS in groundwater were identified in all groundwater monitoring wells sampled as part of this environmental investigation.
- The highest PFAS concentrations were reported in groundwater monitoring wells on or adjacent the site which exceeded the adopted recreational criterion for PFOS&PFHxS. The concentrations of PFAS detected in these wells are likely to be predominantly associated with site activities.
- Groundwater monitoring wells located off – site, up hydraulic gradient of the site, reported PFAS concentrations exceeding the adopted drinking water criterion for PFOS&PFHxS. These concentrations are not considered to be associated with the site activities, based on groundwater gradients and inferred groundwater flow.
- Groundwater monitoring wells located off-site, down hydraulic gradient of the site, reported PFAS concentrations exceeding the adopted recreational criterion at MW08 and drinking water criterion at MW09, MW10 and MW11 for PFOS&PFHxS.
- The results suggest that the historical use of AFFF at the site is contributing PFAS to groundwater, however data also suggests a broader regional PFAS contribution to groundwater impact is present.
- The extent of PFAS in groundwater off-site has not been delineated up hydraulic gradient or down hydraulic gradient in any direction.
- The CSM indicates that the use of groundwater for domestic irrigation and / or drinking purposes is possible. A complete exposure pathway based on groundwater use has not been confirmed. The CSM also identified that edible plants interacting with groundwater

(i.e. fruit trees) may take up PFAS from groundwater. A potentially complete exposure pathway may exist if this scenario is occurring and the produce from these edible plants are being consumed.

- The survey identified the presence of fruit trees planted in open soil at numerous residential properties in the survey area. It was also confirmed that the produce is consumed. The investigation has not confirmed if the off-site down hydraulic gradient PFAS concentrations in groundwater are sufficient to result in PFAS concentrations in produce that may exceed relevant food health criteria.

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1. Introduction

1.1 Background

The South Australian Metropolitan Fire Service (MFS) engaged GHD Pty Ltd (GHD) to further environmental investigation in the vicinity of the Largs North Fire Station (the site) following detections of elevated per and poly fluoroalkyl substance (PFAS) in groundwater beneath and adjacent to the site. The works presented in this report were initiated based on the findings of the onsite investigation which was presented in GHD, 2019, *South Australian Metropolitan Fire Service, Largs North and Gallantry PFAS Testing, Detailed Site Investigation Report.*

During the previous environmental investigation (GHD, 2019), PFAS were detected in groundwater beneath the site exceeding the following criteria as documented in the PFAS NEMP (HEPA, 2018): Recreational Water (MW02 – MW04), Drinking Water (MW02 – MW04), and Interim Marine 99% (MW01 – MW04). The results of the investigation prompted MFS, in consultation with the SA EPA and other stakeholders, to engage GHD to undertake an environmental investigation of groundwater up and down hydraulic gradient of the site to assess and ascertain the source(s) and extent of PFAS contamination. This investigation also included a bore and produce use survey of residential properties within the assessment area. The locality of the assessment area is presented in Figure 1 attached to this report.

This report documents the scope of work, methodology and findings of the environmental investigation that was undertaken on-site and off-site within the vicinity of the Largs North Fire Station in March – April 2019.

This report is subject to, and must be read in conjunction with, the limitations set out in Section 1.3.

1.2 Objectives

The objectives of this environmental investigation were to:

- Assess groundwater conditions and attempt to delineate the extent of PFAS impacted groundwater down hydraulic gradient of the site.
- Assess groundwater conditions up hydraulic gradient of the site and ascertain if any off-site source(s) of PFAS are present in groundwater which may be migrating onto the site.
- Assess the groundwater use and consumption of home grown produce at residential properties within the assessment area.

1.3 Limitations

This report: has been prepared by GHD for South Australian Metropolitan Fire Service and *may only be used and relied on by South Australian Metropolitan Fire Service for the purpose agreed between GHD and the South Australian Metropolitan Fire Service.*

GHD otherwise disclaims responsibility to any person other than South Australian Metropolitan Fire Service arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on information obtained from, and testing undertaken at or in connection with, specific sample points. Site conditions at other parts of the site may be different from the site conditions found at the specific sample points.

Investigations undertaken in respect of this report are constrained by the particular site conditions, such as the location of buildings, services and vegetation. As a result, not all relevant site features and conditions may have been identified in this report.

Site conditions (including the presence of hazardous substances and/or site contamination) may change after the date of this Report. GHD does not accept responsibility arising from, or in connection with, any change to the site conditions. GHD is also not responsible for updating this report if the site conditions change.

2. Scope of Work

The fieldwork program completed by GHD as part of this environmental investigation is summarised in Table 2-1.

Table 2-1 Summary of Fieldwork Program

Date	Activity
1-6 March 2019	A doorknock of residents in the investigation are was undertaken to inform them of the investigations works and provide them the opportunity to participate in a survey of household water use and consumption of home grown produce. The survey area is presented in Figure 3 at the end of this report.
1-29 March 2019	An online survey of household water use and consumption of home grown produce was available for residents in the investigation area to complete.
29 March 2019	An underground service survey was undertaken by a professional service clearance contractor (Adelaide Pipeline Maintenance Services (APMS)) to establish the location(s) of underground services using DBYD (Dial-Before-You-Dig) plans.
1 April 2019 – 2 April 2019	Seven (7) groundwater monitoring wells (MW05, MW06, MW07, MW08, MW09, MW10 and MW11) were installed by WB Drilling. One (1) soil sample was collected during drilling of each groundwater monitoring well for waste classification purposes.
8 April 2019	A survey of all newly installed wells to Australian Height Datum (AHDm) was undertaken by SKS Surveys to enable the update of groundwater flow directions. Well survey data is presented in Appendix A.
11 April 2019	Gauging and sampling of groundwater monitoring wells (MW05 – MW11) and existing groundwater monitoring wells (MW01 – MW04). Gauging and sampling of a City of Port Adelaide Enfield Council irrigation bore (PAE Well).

Seven (7) groundwater monitoring wells were installed as part of this environmental investigation. Table 2-2 summarises the locations and rationale of the groundwater monitoring wells.

Table 2-2 Groundwater Monitoring Well Locations and Rationale

Well ID	Well Location Description	Rationale
MW05	Street verge of Mildred Terrace located approximately 100 m south of the site on the southern boundary of Perc Harrison.	Assess concentrations of PFAS in groundwater up hydraulic gradient of the site.
MW06	Street verge on the corner of Victoria Road and Mildred Terrace located approximately 150 m south of the site on the south western boundary of Perc Harrison.	Assess concentrations of PFAS in groundwater up hydraulic gradient of the site.

Well ID	Well Location Description	Rationale
MW07	Street verge of Victoria Road located approximately 80 m south of the site on the western boundary of Perc Harrison.	Assess concentrations of PFAS in groundwater up hydraulic gradient of the site.
MW08	Street verge on the corner of Victoria Road and Willochra Street located approximately 50 m north of the site.	Assess concentrations of PFAS in groundwater down hydraulic gradient of the site.
MW09	Street verge on Sheean Street located approximately 100 m north east of the site in the residential area bound by Victoria Road and Willochra Street.	Assess concentrations of PFAS in groundwater down hydraulic gradient of the site.
MW10	Street verge on the corner of Sheean and Collins Streets located approximately 150 m north east of the site in the residential area bound by Victoria Road and Willochra Street.	Assess concentrations of PFAS in groundwater down hydraulic gradient of the site.
MW11	Street verge on the Waller Court located approximately 150 m north east of the site in the residential area bound by Victoria Road and Willochra Street.	Assess concentrations of PFAS in groundwater down hydraulic gradient of the site.

3. Geology and Hydrogeology

3.1 Regional Geology

A desktop search using the South Australian Resources Information Gateway (SARIG) map layers catalogue (1:100,000 Surface Geology Map: Adelaide updated 2013) indicated that the site is underlain by the Saint Kilda Formation, comprised of unconsolidated white bioclastic quartz – carbonate sand of modern beaches and transgressive dune fields of the Semaphore Sand Member.

3.2 Site Specific Geology

Soils encountered during the installation of groundwater monitoring wells MW05 – MW11 were described and recorded by a GHD Environmental Scientist on Soil Description Field Sheets. Soil Description Field Sheets are presented in Appendix B.

Soils encountered at depths of 0 to 1.4 metres below ground level (mBGL) during the installation of groundwater monitoring well, MW06, comprised of pale brown silty sand fill containing gravel and trace organic matter. This was underlain by a pale brown clayey sand fill with medium plasticity from 1.4 – 1.8 mBGL. Soils encountered during the installation of groundwater monitoring wells MW05, MW07, MW08, MW09, MW10 and MW11 comprised of silty sand and sandy silt fill containing gravel and trace organic matter from approximately 0 to 0.8 mBGL. Fill material at all locations was underlain by natural sands to the base of investigations, which was consistent with the regional geology.

3.3 Regional Hydrogeology

A report by the Department of Water, Land and Biodiversity Conservation (DWLBC) providing an overview of the hydrogeology of the Adelaide metropolitan area indicates that the region (Zone 3: Subzone 3B, Penrice (ICI – SAMCOR (industrial)) contains five to six Quaternary aquifers and three to four, almost flat lying, Tertiary aquifers. The first and second Tertiary aquifers are the thickest and the most productive, with relatively low salinity. The greatest proportion of abstracted groundwater for industrial and recreational use comes from the first Tertiary aquifer.

This environmental investigation targeted the First Quaternary Aquifer (Q1) which was located at depths between 2.422 mBGL and 2.881 mBGL in the region with an average thickness of approximately 2 m. In the proximity of major structures and surface drainage, aquifer materials tend to be coarser and thicker and therefore more transmissive.

In the Le Fevre Peninsula area where the Q1 Aquifer was overlain by dune sands, good quality water occurs due to local direct recharge from precipitation. This water is used extensively for garden watering (approximately 600 wells are recorded). An underlying layer, with poor water quality (salinities up to 21 000 mg/L) is also present.

The report indicates that the groundwater flows uniformly towards the northwest across the area of the Q1 Aquifer. The outflow from the Q1 Aquifer to Gulf St Vincent is small, as the gradient at the coast is flat and the transmissivity is relatively low. GHD understands that the inferred groundwater flow direction is variable as a result of tidal influences from the Gulf St Vincent and Port Adelaide River, the closest water body located approximately 700 m to the east of the site.

3.4 Registered Bore Survey

Water Connect was used to conduct a search of registered bores located within a 2 km radius of the site. The results of the search indicated the following:

- A total of 1,237 registered bores were recorded within the survey area
- Of these:
  - 506 were identified as domestic bores
  - 294 were identified as investigation bores
  - 38 were identified as irrigation bores
  - 37 were identified as monitoring bores
  - 16 were identified as environmental bores
  - 5 were identified as observation bores
  - 3 were identified as industrial bores
  - 1 bore was identified for exploration
  - 1 bore was identified for irrigation/stock watering
  - 1 bore was identified for recreational
  - 1 bore was identified for town water supply
  - 1 bore was identified for stock watering
  - No purpose information was available for 333 registered bores.

Total dissolved solids (TDS) data was available for 658 bores, of these 391 reported TDS values below 1,200 mg/L.

A plan showing the registered bores within a 2 km radius and 500 m radius of the site is presented in Appendix C.

3.5 Site Specific Hydrogeology

Groundwater gauging data collected as part of this GME is presented in Table 3-1.

Table 3-1 Groundwater Gauging Data

Well ID	Top of casing (mAHD)	SWL (mBGL)	SWL (mAHD)
MW01	3.082	2.491	0.591
MW02	3.028	2.513	0.515
MW03	3.560	2.944	0.616
MW04	3.293	2.703	0.590
MW05	3.020	2.389	0.631
MW06	3.117	2.500	0.617
MW07	3.157	2.541	0.616
MW08	3.045	2.507	0.538
MW09	3.055	2.534	0.521
MW10	2.802	2.289	0.513
MW11	3.192	2.646	0.546

Using the gauging data presented in Table 3-1, Table 3-2 provides a summary of the site specific hydrogeology.

Table 3-2 Summary of Site Specific Hydrogeology

Feature	Details
Groundwater Occurrence and Depth to Groundwater	The first regional aquifer is located at depths ranging between 2.289 mBGL (MW10) and 2.944 mBGL (MW03). Groundwater elevations across the site ranged between 0.513 mAHD (MW10) and 0.631 mAHD (MW05).
Groundwater Flow Direction	Groundwater flow direction was inferred to flow towards the north east (Port Adelaide River). Groundwater elevation contours and inferred flow direction are shown in Figure 5 at the end of this report.
Groundwater Gradient	The groundwater gradient was calculated to be 0.0008 m/m.
Effective Porosity	The effective porosity of the water bearing fine sand lithology was assumed to be 0.33.
Hydraulic Conductivity	The hydraulic conductivity of the sand (fine) aquifer was assumed to range between 0.017 m/day and 16.33 m/day, with an Arithmetic Mean of 2.49 m/day.
Seepage Velocity	The seepage velocity of groundwater beneath the site was calculated to range between 0.015 m/year and 14 m/year.
Groundwater Salinity	Total dissolved solids (TDS) within groundwater beneath the site, as an indicator of salinity, was calculated by applying a conversion factor of 0.65 to the electrical conductivity values at each well. The calculated TDS values ranged between 542.75 mg/L (MW05) and 1,944.8 mg/L (MW06), indicating fresh to brackish groundwater beneath the site. The calculated TDS values of the groundwater beneath the site indicate that groundwater beneath the site may be suitable for potable use and suitable for irrigation purposes (SA EPA, 2018).

4. Assessment Criteria

PFAS was the key contaminant of enquiry as part of this environmental investigation. As such, the assessment criteria adopted for this investigation were adopted from the following guideline documents:

- HEPA, 2018. *PFAS National Environmental Management Plan*, January 2018
- SA EPA, 2018, *Guidelines for the Assessment and Remediation (GAR) of Site Contamination*, July 2018
- SA EPA, 2015, Environment Protection (Water) Policy (EPP)

To assess the contamination status of groundwater at a site, the SA EPA provides a four step process to determine the environmental values of groundwater and to determine if actual or potential harm to groundwater that is not trivial has occurred. The four step process described in the Guideline on the assessment and remediation of site contamination (SA EPA, 2018) is described in Table 4-1.

Table 4-1 Four step process for determining harm to groundwater

Process	Assessment
Step 1: Apply Table 3 of Schedule 1 of the 2015 Water Quality Environment Protection Policy (WQEPP) based on total dissolved solids (TDS) ranges	TDS has been recorded onsite to range between 542.75 mg/L and 1,944.8 mg/L indicating fresh to brackish groundwater beneath the site that may be suitable for potable use and suitable for the irrigation purposes (SA EPA, 2018). The groundwater data in the WaterConnect data base (Step 3) indicates that out of 658 bores with available TDS data, 391 bores reported TDS values below 1,200 mg/L.
Step 2: Assess and identify surface water bodies within a 2 km buffer of the site	The stormwater network on the Le Fevre Peninsula consists of numerous individual catchments that ultimately discharge into the Port Adelaide River and the Gulf of St Vincent, the closest water body located approximately 700 m to the east and Gulf St Vincent located approximately 1.5 km to the east. These water bodies are considered to represent a marine ecosystem.
Step 3: Review registered groundwater users in the WaterConnect database	The registered bore search identified 1237 registered bores within a 2 km radius of the site. the registered bores consisted of 506 domestic bores, 294 investigation bores, 38 irrigation bores, 16 environmental bores, one irrigation/stock watering bore, one exploration bore, one recreational and 333 unknown status or purpose bores. Remaining bores were either abandoned, backfilled, or dry.
Step 4: Application of the EPA recognised criteria for the most sensitive environmental value	The most sensitive environmental values to be applied to the site are Health Recreational Water, Health Drinking Water and Interim (Marine) Water (99%)

Based on the assessment outlined in Table 4-1, the groundwater criteria were selected to protect the relevant environmental values identified for groundwater underlying the area of investigation.

For the purpose of this assessment, criteria has been included to:

- Assess the potential risk to recreational users of Port River and Gulf of St Vincent. Also should groundwater be extracted to fill swimming pools within the residential area adjacent and to the north east of the Largs North Station.
- Assess the potential risk to users of groundwater for potable use.
- Assess the potential risk to users of groundwater to irrigate vegetable gardens.
- Assess the potential risk to aquatic marine ecosystems.

The values for the adopted screening/investigation levels from this source, which are considered to protect potentially complete source receptor linkages, are summarised in Table 4-2.

Table 4-2 Adopted PFAS Interim Screening Criteria (Groundwater)

Exposure Scenario	PFOS/PFHxS	PFOA	Source
PFAS NEMP 2018 Health Recreational Water	0.7 µg/L	5.6 µg/L	HEPA, 2018
PFAS NEMP 2018 Health Drinking Water	0.07 µg/L	0.56 µg/L	HEPA, 2018.
PFAS NEMP 2018 Interim Marine 99%	0.00023 µg/L	19 µg/L	HEPA, 2018.

5. Methodology

5.1 Work Health and Safety

GHD prepared a project-specific Job Safety and Environmental Analysis (JSEA) for the site works in accordance with Work Health and Safety (WHS) legislation and associated Codes of Practice. The JSEA consisted of a summary of relevant site activities and specific job-related tasks; a hazard register that identifies all foreseeable hazards; risk ranking and risk management measures for each identified hazard; and procedures for monitoring and/or implementing remedial actions to manage all project-based risks. Prior to undertaking the fieldworks, the GHD field representatives and all subcontractors held a pre-start meeting on site. Daily GHD WHS forms were completed before commencement of work each day.

5.2 Groundwater Well Installation Methodology

Well construction details are provided in Table-5-1.

Table-5-1 Groundwater Well Installation Methodology

Activity	Details
Underground service locating	Adelaide Pipeline Maintenance Services (APMS) cleared underground services using radio-detection and ground penetrating radar with reference to utility plans provided by Dial Before You Dig (DBYD) prior to any sub-surface works being undertaken.
Well installation and construction	• The monitoring wells were installed in accordance with the Minimum Construction Requirements for Water Bores in Australia, Edition 3 (2012) and were constructed using 50 mm ID uPVC, Class 18, acid washed threaded standpipe with machine slotted (0.4 mm) screened section. Well permits are presented in presented in Appendix D. • Groundwater wells were drilled to approximately 4.5 mBGL (2.0 m beyond the interception of groundwater). • Groundwater wells were drilled using hollow augers. Clean augers were used to drill each well. • Each well was installed with a 3.0 m screen from the base of the well (4.5 metres below ground surface (mBGS)) to 1.5 mBGL. The screened interval was covered in a silt sock to prevent sediment entering the well annulus. • Graded and washed filter sand was installed to 0.5 m above the screened interval. A bentonite seal was then installed to 0.5 mBGL. Monitoring wells were completed to surface with grout. • Wells were completed at the surface with flush mounted trafficable gatic cover, concreted below the ground surface. Details of the monitoring wells construction were provided in the borehole logs located in Appendix E.
Well survey	• The top of each well casing was surveyed to Australian Height Datum (AHD) and map grid Australia (MGA) zone 54 geocentric datum Australia (GDA 94). In the instance where the top of casing was not evenly cut, the highest point of the top of casing was

Activity	Details
	surveyed. The survey data (with reference level at top of casing) is presented in Appendix A.
Well development	• The wells were developed following construction by disposable bailer method using a dedicated bailer for each well. • Each well was considered to be suitably developed either when five well volumes had been removed or the water ran clear or the well was purged dry.
Purge water disposal	Purged water from the well development was disposed of in a sealed drum for disposal to a licensed facility by Cleanaway. GHD are in the process of obtaining the waste disposal certificates. In the final report, the waste disposal certificates will be presented in Appendix F.
Soil cuttings	• Waste and soil cuttings from drilling activities were disposed of in a sealed for disposal to a licensed facility by Cleanaway. GHD are in the process of obtaining the waste disposal certificates. In the final report, the waste disposal certificates will be presented in Appendix F.

5.3 Groundwater Monitoring and Sampling Methodology

Details of the groundwater monitoring and sampling methodology are summarised in Table 5-2.

Table 5-2 Groundwater Monitoring and Sampling Methodology

Activity	Details
Well gauging	• Prior to sampling each well, a standing water level (SWL) and bore depth was gauged and recorded using an Oil / Water Interface Probe. The measurement was taken from the top of the bore casing (TOC). • Groundwater parameters (pH, temperature, dissolved oxygen (DO), field oxidation-reduction potential (OR) and electrical conductivity (EC)) were monitored and recorded prior to sampling each well using a Multi Parameter Water Meter. • Well gauging data and groundwater parameters were recorded on Groundwater Gauging Sheets and Purging and Sampling Records. The Groundwater Gauging Sheet and Purging and Sampling Records are presented in Appendix B. Gauging and water quality data are presented in Table 2 at the end of the report. • Equipment Calibration Certificates are presented in Appendix G.
Sampling	• All monitoring wells were sampled using single-use high density hydrasleeves™ (suitable for PFAS sampling). • Groundwater samples were collected directly from the hydrasleeve™ in laboratory (Envirolab Group)-supplied containers (pre-preserved where appropriate) and filled up to minimise headspace.

Activity	Details
Sampling preservation and transport	• Post collection, samples were immediately stored on ice in an insulated cooler. • Samples were delivered to the laboratory (Envirolab Group) by GHD Field Staff under Chain of Custody (COC) documentation. COC documentation is presented in Appendix H.
Decontamination	• Decontamination of the Oil / Water Interface Probe (IP) and Multi Parameter Water Meter was undertaken through a three stage approach. The first stage involved cleaning the equipment using a mixture of pH neutral phosphate free detergent (Decon® Neutracon) in water, followed by a deionised water wash and a final rinse stage. • Hydrasleeves™ were disposed of after each use.
QA/QC	• Quality control samples were collected at a minimum rate of one replicate pair per 20 primary samples. The replicate pair included one intra-laboratory sample and one inter-laboratory sample. • Rinsate samples were collected from reusable equipment (IP) at a rate of one (1) per day sampling was conducted to assess the potential for cross contamination to occur from reusable sampling equipment.

5.4 Laboratory Analysis Program

5.4.1 Analytical Laboratories

GHD consigned all primary groundwater, rinsate and intra-laboratory field duplicate (blind) samples to Envirolab Group for analysis. The analysis of the inter-laboratory duplicate (split) sample, for QC purposes, was scheduled to be completed by MGT Eurofins as per the COC, however, was also completed by Envirolab Group. Envirolab Group was contacted by GHD on the 09/05/2019 and organised for the inter-laboratory duplicate (split) sample to be sent to MGT Eurofins for analysis. The results of the inter laboratory sample will be presented in the final report.

Certified laboratory documentation including chain of custody records, sample receipt notifications, certificates of analysis and laboratory QA / QC reports are provided in Appendix H.

QA/QC RPD values and rinsate results are presented in Table 3 and Table 4 at the end of this report.

5.4.2 Sample Analysis

Groundwater samples collected as part of this environmental investigation were analysed for PFAS (Short Suite).

Table-5-3 summarises the sampling and analysis undertaken for groundwater samples.

Table-5-3 Laboratory Analytical Schedule

Sample type	No. primary samples		No. QA samples		Analytical suite
	Collected	Analysed	Collected	Analysed	
Groundwater	12	12	2	2	PFAS (Short Suite)

5.5 Water use and home grown produce survey

The investigation area for the water use survey covers a small segment of Largs North in the City of Port Adelaide and Enfield. Key profile characteristics are presented in Table 5-4 below.

Table 5-4 Profile of key characteristics of Largs North

Characteristic	Data	
Population	3,651	
Median weekly household income	$1,242	
• Separate house	1,201	(79.5%)
• Semi-detached, row or terrace house, townhouse etc	187	(12.4%)
• Flat or apartment	120	(7.9%)
• Other dwelling	0	(0%)
Rented dwelling	463	(20.7%)
Internet connection	1,198	(79.4%)

Source: Australian Bureau of Statistics 2016, Census of Population and Housing

Considering the characteristics of the investigation area, a water use and home grown produce survey was designed to capture off-site water use (groundwater, rainwater and mains) of occupants of properties. The survey also collected data on home grown produce and consumption including fruit trees, vegetables and poultry. Information collected from the survey was used to determine the extent of bore use in the area, how bores are being used and the extent of home grown produce consumption.

The survey was structured in 4 sections:

1. Demographic- collection of property type and respondent details with the option to provide email or phone details.
2. Property water supply source- data on the source of water to the main dwelling/ building and soure of water for outdoor/ non-houshold use.
3. Bore water use- data on any groundwater bore, its condition, storage, distribution and use.
4. Produce and poultry- data on growing and consuming fruit, vegetables and poultry.

A copy of the water use survey questionnaire is attached in Appendix I.

A survey team door knocked properties in the investigation area to inform occupants of the groundwater investigations and provide the opportunity for residents who were at home to participate in the household survey. Participation in the survey was voluntary. People were also informed that their responses would be private and that information may be shared with MFS technical advisors, the Commonwealth Government, and relevant SA government agencies, organisations, and entities responsible for groundwater regulation.

For people who were present at the time of the doorknock, and willing to participate, survey responses were recorded by the survey team using mobile phones or tablets. In cases where occupants chose not to participate in the survey at the time of the doorknock, a letter and frequently asked questions (FAQ) sheet were provided. Similarly, the letter to residents and FAQ sheet were dropped in letterboxes at properties where no one was home. The letter to

residents provided details of the survey providing the opportunity for people to complete it online.

The survey was open from 1 March 2019 and closed on 29 March 2019. Residents were also provided the option to call the 1800 hotline for help with the online survey or to ask questions on any concerns they may have had.

6. Results

The following sections summarise the field observations and analytical results of the Preliminary Sampling. Sample locations are shown in Figure 2 at the end of this report. Interpretation and discussion of the results is provided in Section 8.

6.1 Groundwater

6.1.1 Field Observations and Parameters

Groundwater field physiochemical parameters (pH, electrical conductivity (EC), dissolved oxygen (DO), field redox and temperature) were recorded during the gauging and sampling process. The results were recorded on Purging and Sampling Records, which are presented in Appendix B and summarised in Table 2 at the end of this report. The groundwater field physicochemical results are summarised as follows:

- The groundwater pH results ranged between pH 6.57 (MW01) to pH 7.20 (MW11) indicating slightly acidic to neutral groundwater conditions.
- Field EC ranged from 835 µS/cm (MW05) to 2,992 µS/cm (MW06). The calculated TDS values indicated a minimum salinity of 542.75 mg/L and a maximum of 1,944.8 mg/L at the respective wells.
- Dissolved oxygen ranged between 0 mg/L (MW01, MW03, MW04, MW05, MW06, MW08, MW09, MW10 and MW11) and 2.53 mg/L (MW02).
- Standard hydrogen electrode (SHE) redox was calculated by applying a conversion factor of 199 mV to the field redox readings and ranged between 107.6 mV (MW11) and 297.1 mV (MW07).
- Temperature ranged between 21.5 (MW04) and 24.1 (MW10) which are considered within normal ranges for Autumn.

6.1.2 Analytical Results

The tabulated analytical groundwater results are presented in Table 1 at the end of this report and laboratory reports are provided in Appendix H. Twelve (12) primary groundwater samples were submitted for laboratory analysis with the results presented below in Table 6-1.

A figure showing groundwater Sum of PFHxS & PFOS and PFOS concentrations / exceedances is included as Figure 4 at the end of this report.

Table 6-1 Summary of Groundwater Analytical Results

No. Primary Samples	Analyte	Min Conc.	Max Con.	Samples exceeding criteria
12	PFOS/PFHxS	0.02 µg/L	220 µg/L	Health Recreational Water MW02 MW03 MW04 MW08 Drinking Water MW01

No. Primary Samples	Analyte	Min Conc.	Max Con.	Samples exceeding criteria
				MW02 MW03 MW04 MW05 MW06 MW07 MW08 MW09 MW10 MW11 Interim marine 99% MW01 MW02 MW03 MW04 MW05 MW06 MW07 MW08 MW09 MW10 MW11 PAE Well
	PFOA	<0.01 µg/L	4.2 µg/L	Drinking Water MW04

6.2 Water use and home grown produce

6.2.1 Participation in the survey

The water use and home grown produce consumption survey was open to residents to participate in over 1 to 29 March 2019. A total of 43 people participate in the survey within 2 weeks of the doorknock and letterbox drop of information on the investigation and survey as shown in Figure 6-1 below. The majority of respondents who participated in the survey did so when door knocked (37) with others completing the survey online (6). The Water Use Survey Questionnaire is provided in Appendix I and the Letter to the Resident and the Fact Sheet are provided in Appendix K.

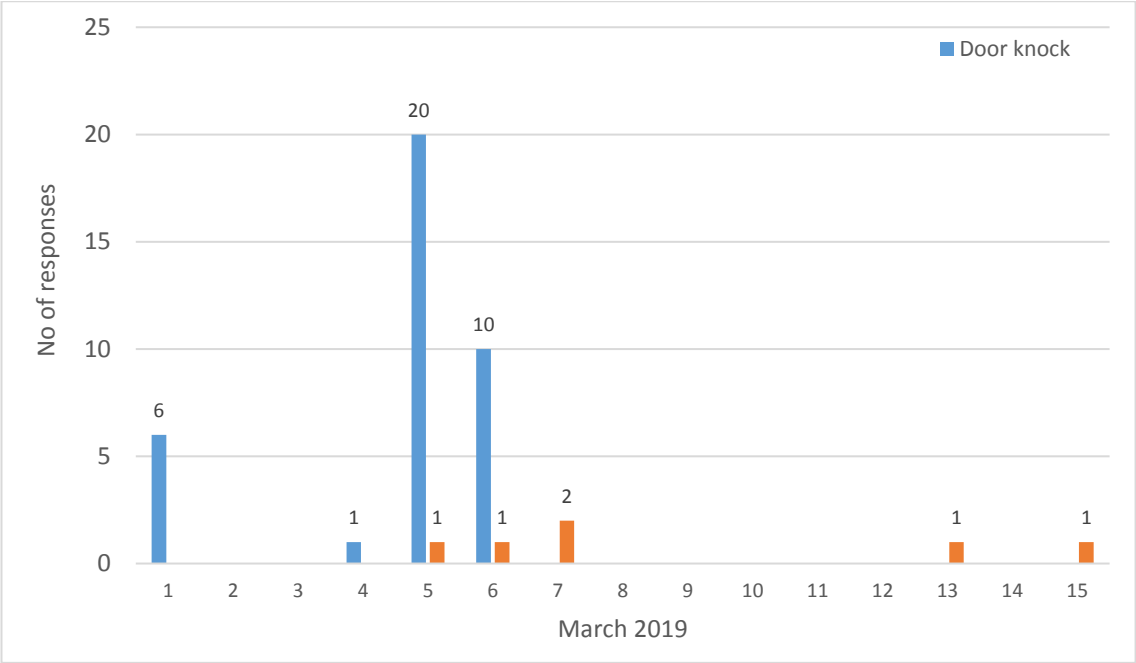


Figure 6-1 Participation in the survey

The survey results presented in this report are the aggregated results of the 37 face-to-face and 6 online responses from doorknock of 118 properties in the investigation area.

6.2.2 Respondent contact information

Name and address details required of all survey participants are subject to MFS privacy policy. Of the 43 respondents, 17 provided an email address and phone number, 11 provided a phone number only and 12 provided an email address only. The contact details may be used to provide direct updates on the investigation to these respondents.

6.2.3 Property type

All respondents were private residential property owners.

6.2.4 Water supply to dwellings

All survey respondents indicated they had mains water connected to their dwelling. Almost a quarter of respondents also have tank/ rainwater connected to their house. No respondents had bore water connected to their dwelling or building. These results are illustrated in Figure 6-2.

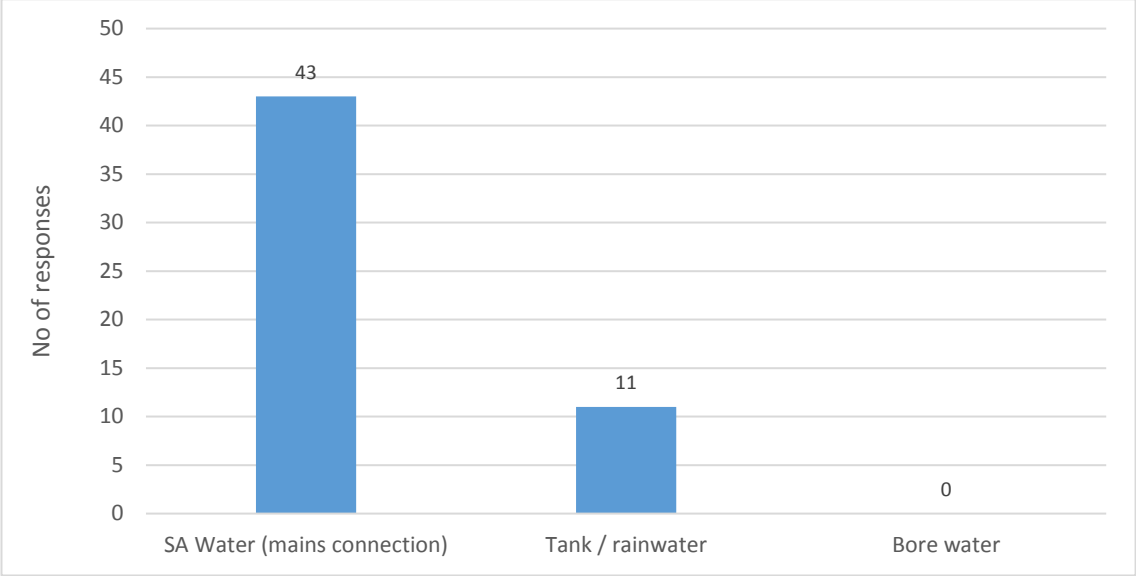


Figure 6-2 Source of water supply to dwellings

6.2.5 Water supply for non-household/ outdoor use

The vast majority of respondents indicated that water supplied for outdoor / non-household use is mains water with 10 respondents indicating that they also use tank/ rainwater and 1 respondent using recycled water. No respondents indicated that they used bore water. These results are illustrated in Figure 6-3.

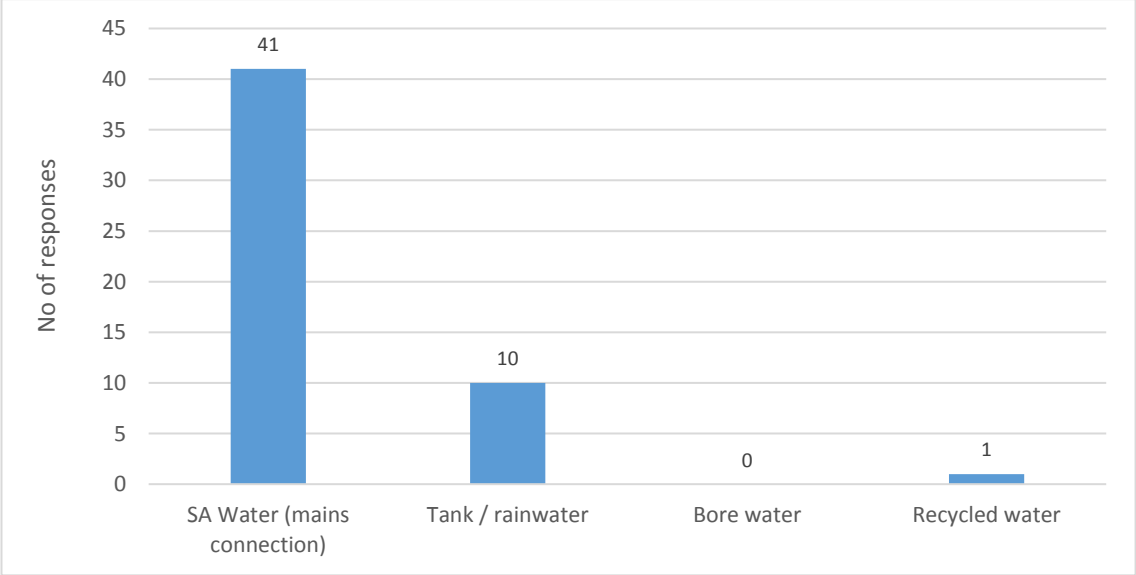


Figure 6-3 Source of water supply for non-household/ outdoor use

6.2.6 Respondents with groundwater extraction bores

No respondents indicated they had a groundwater bore.

6.2.7 Home grown fruit

Twelve (12) respondents indicated that they have fruit trees on their property. All but one of these respondents eats the fruit grown on their property. Approximately half of respondents volunteered that they grew their fruit trees in pots. The survey team observed that there were also fruit trees grown in the ground.

6.2.8 Home grown vegetables

Fourteen (14) respondents indicated that they grow and eat vegetables and herbs grown at home. Approximately half the respondents indicated that they grew their vegetables in pots.

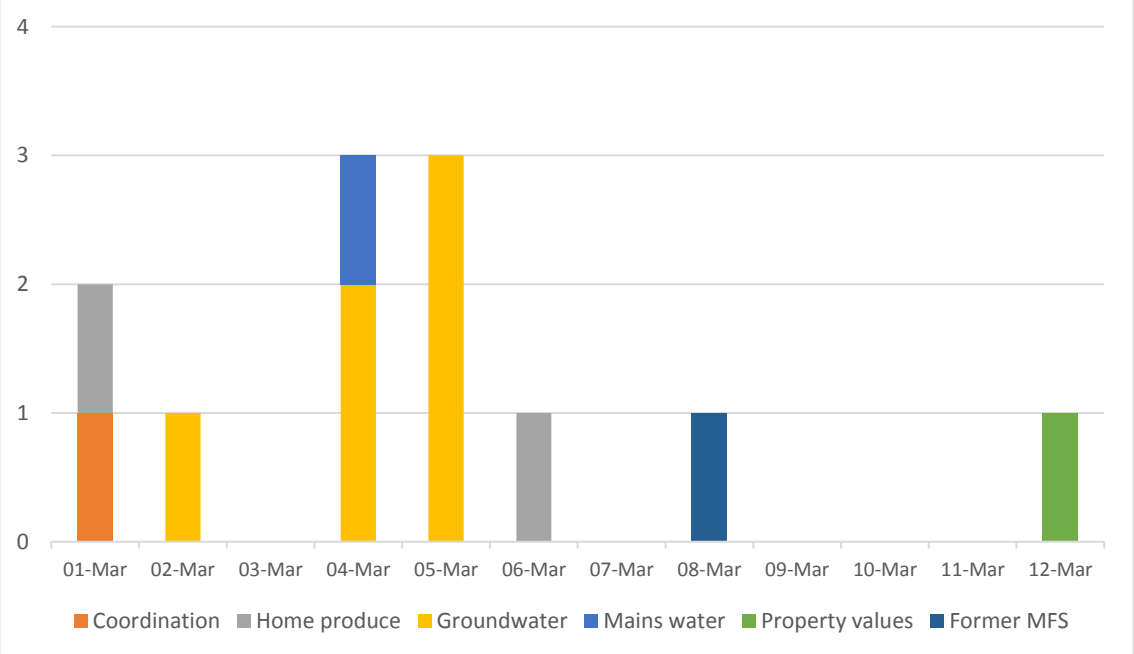
6.2.9 Poultry

One (1) respondent indicated that they keep a pet chicken and consume the eggs it produces.

6.3 Community hotline

A total of 12 calls were made to the community hotline number over a 2 week period commencing with the doorknock survey and letterbox drop. Figure 6-4 show the types of concerns logged on the hotline. Many of the concerns were related to groundwater use (n=6) from people in the local community and outside in the investigation area. There were also concerns raised about the consumption of home produce (n=2) and concerns also logged raised on property values (n=1) and about the quality of mains water (n=1). One call was received from Pt Adelaide-Enfield Council to ensure coordination of key messages on the investigation for the local community. The hotline also received a call from a former MFS employee. Responses were provided to all concerns regarding the investigation. Referrals were made to the MFS for the former employee and to SA Water for the concern about the quality of mains water.

Figure 6-4 Hotline queries by concern (March 2019)



7. Quality Assurance and Quality Control

Data Quality Indicators (DQIs), Field QA/QC, Laboratory QA/QC and Field QC Results are presented in Appendix J and Table 3 at the end of this report.

GHD considers the data to be valid and of sufficient quality for the purposes of this Environmental Investigation.

8. Discussion

8.1 Distribution of PFAS in Groundwater

The results of the groundwater investigation demonstrate the presence of PFAS in groundwater: off-site, up hydraulic gradient of the site, immediately beneath the site; and, off-site, down hydraulic gradient of the site.

The results indicate that all groundwater monitoring wells sampled as part of this investigation, including the City of Port Adelaide Enfield Council irrigation bore, reported elevated concentrations of PFAS.

Groundwater PFAS concentrations beneath the site were generally one to two orders of magnitude higher than PFAS concentrations in wells located up hydraulic gradient and down hydraulic gradient of the site. The highest PFAS concentrations in groundwater was reported at MW4 located on the western boundary of the site. This monitoring well is located down hydraulic gradient of an onsite stormwater soak trench and adjacent to municipal stormwater alignment located in the verge of Victoria Road. The concentrations of PFAS in groundwater beneath the site indicate the site is contributing PFAS to groundwater.

Groundwater monitoring wells located off-site, down hydraulic gradient of the site reported PFOS & PFHxS concentrations exceeding the adopted recreational criterion at MW08 and drinking water criterion at MW09, MW10 and MW11. The extent of the PFAS plume off-site, down hydraulic gradient of the site was not delineated as part of this investigation.

Groundwater monitoring wells located off-site, up hydraulic gradient of the site reported PFOS & PFHxS concentrations exceeding the adopted drinking water criterion. The extent of the PFAS plume off-site, up hydraulic gradient of the site was not delineated as part of this investigation. However, PFAS concentrations in this portion of the site are not considered to be associated with the site based on the groundwater gradient and inferred groundwater flow direction. The presence of elevated PFAS concentrations in groundwater up hydraulic gradient of the site indicates there are likely other offsite sources contributing to PFAS in groundwater in this portion of the Le Fever Peninsula.

8.2 Conceptual Site Model (CSM)

A site-specific Conceptual Site Model (CSM) has been developed to identify various receptors (human health and environment) and potential exposure routes / pathways in order to determine the presence / absence of complete exposure pathways from off-site, down hydraulic gradient PFAS impacted groundwater to said receptors. An exposure pathway is the link between a contaminant source and a receptor.

The conceptual site model uses information obtained throughout this investigation along with information obtained from the environmental investigation undertaken by GHD in December 2018 – February 2019.

For an identifiable risk to exist, an exposure pathway must be present which requires each of the following to be identified:

- Presence of substances that may cause harm (SOURCE);
- Presence of a receptor which may be harmed (RECEPTOR); and
- Existence of a means of exposing a receptor to the source (EXPOSURE ROUTE / EXPOSURE PATHWAY) assessing whether exposure pathway are complete or incomplete.

A tabular Conceptual Site Model (CSM) is presented in Table 8-1 below.

Table 8-1 Conceptual Site Model (CSM)

Potential source	Receptor	Pathway	Pathway present?
PFAS impacted groundwater	People using groundwater for: domestic and drinking purposes.	Consumption of contaminated groundwater.	Possible The average calculated TDS value of groundwater beneath the assessment area is 1,252.78 mg/L indicating that groundwater may be suitable for potable use (NHMRC, 2011 updated 2018). The groundwater use survey results did not identify groundwater being used for potable use. However, as the TDS is variable and in some instances below 1,200 mg/L, potable use cannot be ruled out.
	People using groundwater for: irrigation of vegetable gardens and / or fruit trees with which they grow produce for consumption.	Consumption of fruit and vegetables irrigated by contaminated groundwater.	Possible The average calculated TDS value of groundwater beneath the assessment area is 1,252.78 µg/L which is considered suitable for domestic and primary irrigation purposes (SA EPA, 2015). The groundwater use survey results did not identify groundwater being used for irrigation purposes in the assessment area, however this cannot be ruled out.
	People growing fruit and / or vegetables in open soil which may interact with groundwater.	Consumption of PFAS impacted fruit and / or vegetables.	Possible The survey identified the presence of fruit trees planted in open soil at numerous residential properties in the survey area. It was also confirmed that the produce is consumed.
	People using groundwater for recreational purposes such as filling of swimming pools.	Incidental ingestion of contaminated groundwater.	Unlikely Groundwater used for recreational purposes such as filling of swimming pools is considered unlikely (SA EPA, 2015). Although PFAS in groundwater migrating down hydraulic gradient of the site has not been delineated towards the Port River, it is considered unlikely this water body is used for recreational purposes where users would incidentally consume river water (i.e. swimming).
	Down gradient off-site maintenance workers that contact PFAS contaminated groundwater.	Direct dermal contact or incidental ingestion of contaminated groundwater.	Unlikely Whilst it's possible that off-site maintenance workers could incidentally ingest contaminated groundwater, it's unlikely that they'll ingest quantities detrimental to their health.
	Ecosystem of Gulf of St Vincent and Port River	Discharge of PFAS impacted groundwater to marine environments	Possible As PFAS impacted groundwater has not been delineated down the hydraulic gradient of the site, this pathway may be complete.

9. Conclusions

Based on the findings of this investigation, the following conclusions have been made:

- The results suggest that the historical use of AFFF at the site is contributing PFAS to groundwater, however groundwater data also suggests a broader regional PFAS in groundwater issue is present beneath the assessment area.
- The first regional aquifer is located at depths ranging between 2.289 mBGL (MW10) and 2.944 mBGL (MW03). Groundwater elevations across the site ranged between 0.513 mAHD (MW10) and 0.631 mAHD (MW05).
- An assessment of groundwater salinity indicated that fresh to brackish groundwater beneath the site may be suitable for potable use irrigation purposes (SA EPA, 2015).
- The groundwater flow direction was inferred to flow towards the north east towards the residential area located immediately north and north east of the Largs North Fire Station.
- Elevated concentrations of PFAS in groundwater were identified in all groundwater monitoring wells sampled as part of this environmental investigation.
- The highest PFAS concentrations were reported in groundwater monitoring wells on or adjacent the site which exceeded the adopted recreational criterion for PFOS&PFHxS. The concentrations of PFAS detected in these wells are likely to be predominantly associated with site activities.
- Groundwater monitoring wells located off – site, up hydraulic gradient of the site, reported PFAS concentrations exceeding the adopted drinking water criterion for PFOS&PFHxS. These concentrations are not considered to be associated with the site activities, based on groundwater gradients and inferred groundwater flow.
- Groundwater monitoring wells located off-site, down hydraulic gradient of the site reported PFAS concentrations exceeding the adopted recreational criterion at MW08 and drinking water criterion at MW09, MW10 and MW11 for PFOS&PFHxS.
- The extent of the PFAS in groundwater off-site has not been delineated up hydraulic gradient or down hydraulic gradient in any direction.
- The CSM indicates that the use of groundwater for domestic irrigation and / or drinking purposes is possible. A complete exposure pathway based on groundwater use has not been confirmed. The CSM also identified that edible plants interacting with groundwater (i.e. fruit trees) may take up PFAS from groundwater. A potentially complete exposure pathway may exist if this scenario is occurring and the produce from these edible plants are being consumed.
- The survey identified the presence of fruit trees planted in open soil at numerous residential properties in the survey area. It was also confirmed that the produce is consumed. The investigation has not confirmed if the off-site down hydraulic gradient PFAS concentrations in groundwater are sufficient to result in PFAS concentrations in produce that may exceed relevant food health criteria.

10. References

Adelaide 1:250,000 SA Geological Atlas Series Sheet (SI 54-9) (1969), Geological Survey of South Australia

AS/NZS ISO 31000:2009 Risk management - Principles and guidelines

Australian Commonwealth Work Health and Safety Act 2011

Australian/New Zealand Standard (AS/NZ) 5667.1,1998. *Water Quality – Sampling. Standards Australia*

Australian Standard AS 4482.1:2005 Guide to the Investigation and Sampling of Sites with Potentially Contaminated Soil

Australian Standard AS 4482.1,2005. *Guide to the investigation and sampling of sites with potentially contaminated soil - Part 1: Non-volatile and semi-volatile compounds*

Commonwealth Work Health and Safety Regulations 2011

Environment Protection Authority (EPA) 2016, *Site Contamination: Guideline for communication and engagement*

Environment Protection Act 1993

Hydrasleeve (2016). Standard Operating Procedure: Sampling Groundwater with a Hydrasleeve

NEPC 2013, National Environment Protection Council National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended 2013, National Environment Protection Council

NHMRC, 2011, Australian Drinking Water Guidelines, Version 3.5 Updated August 2018

PFAS National Environment Management Plan, January 2018. Heads of EPAs Australia

SA EPA, 2015, Environment Protection (Water Quality) Policy 2015

SA EPA, 2018, Guidelines for the Assessment and Remediation (GAR) of Site Contamination, July 2018

US EPA 1997, Bioscreen Groundwater screening model

Figures

Figure 1 – Investigation Area

Figure 2 – Groundwater Monitoring Well Locations

Figure 3 – Residential Survey Area

Figure 4 – Groundwater Concentration Exceedance Plan

Figure 5 – Groundwater Contour Plan

Figure 6 – PFAS Concentration Contour Plan

Paper Size ISO A4

0 20 40 60 80

Meters

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

South Australian Metropolitan Fire Service
Largs North Station Off - site Groundwater Use Survey & Groundwater Investigation

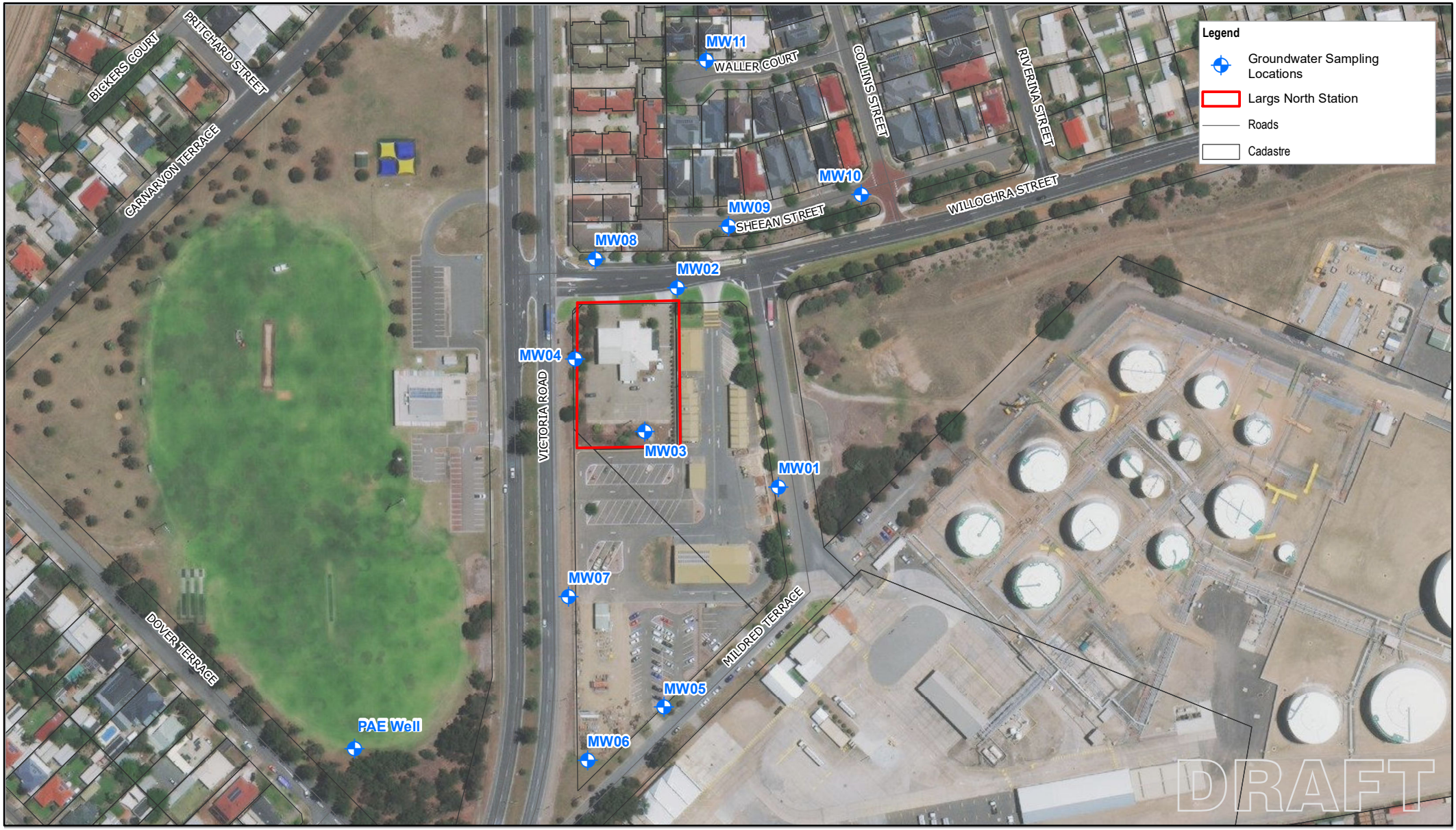
Project No. **33-19080**
Revision No. **A**
Date **10 May 2019**

Investigation Area

FIGURE 1

N:\AU\Adelaide\Projects\33\19080\GIS\Maps\Deliverables\33-19080_Z015_InvestigationArea_RevA.mxd
Print date: 10 May 2019 - 11:43

Data source: GHD: Site, Survey Area, Wells (2019). Satellite Imagery - Esri Imagery Basemap (Extracted 08 May 2019) Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community. Created by: dbbanatin



Paper Size ISO A4

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Meters

N

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

South Australian Metropolitan Fire Service
Largs North Station Off - site Groundwater Use Survey & Groundwater Investigation

Groundwater Monitoring Well Locations

Project No. **33-19080**
Revision No. **A**
Date **17/ 04/ 2019**

FIGURE 2

N:\AU\Adelaide\Projects\33\19080\GIS\Maps\Deliverables\33-19080_Z004_GWSamplingLocations_RevA.mxd
Print date: 17 Apr 2019 - 14:19

Data source: GHD: GW Sampling Locations (2019). SA Government: Cadastre (2010), Roads (2010), Railways (2013). Satellite Imagery - ESRI Basemap, Date Extracted: 17/04/2019 Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community. Created by: dbbanatin

Paper Size ISO A4

0 20 40 60 80

Meters

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

South Australian Metropolitan Fire Service
Largs North Station Off - site Groundwater Use Survey & Groundwater Investigation

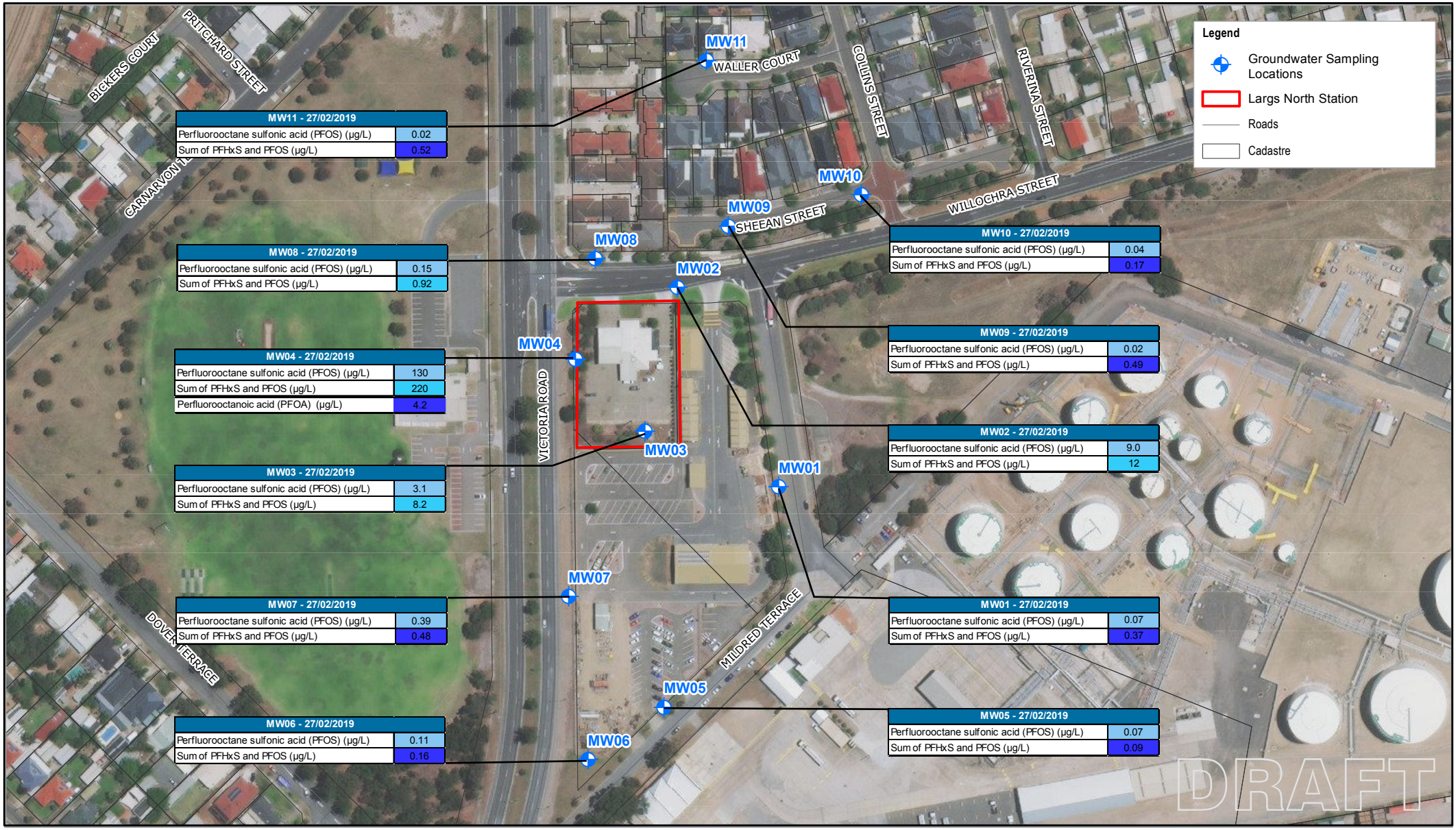
Project No. **33-19080**
Revision No. **A**
Date **08 May 2019**

Residential Survey Area

FIGURE 3

N:\AU\Adelaide\Projects\33\19080\GIS\Maps\Deliverables\33-19080_Z014_ResidentialSurveyPlan_RevA.mxd
Print date: 08 May 2019 - 17:47

Data source: GHD: Site, Survey Area, Wells (2019). Satellite Imagery - Esri Imagery Basemap (Extracted 08 May 2019) Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community. Created by: dbbanatin



PFAS NEMP 2018 Health Drinking Water
PFAS NEMP 2018 Health Recreational Water
PFAS NEMP 2018 Interim Marine 99%

Paper Size ISO A4

0 25 50 75 100

Meters

N

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

GHD

South Australian Metropolitan Fire Service
Largs North Station Off - site Groundwater Use Survey & Groundwater Investigation

Groundwater Concentration Exceedance Plan

Project No. **33-19080**
Revision No. **A**
Date **03/ 05/ 2019**

FIGURE 4

N:\AU\Adelaide\Projects\33\19080\GIS\Maps\Deliverables\33-19080_Z012_GWConcentrationExceedancePlan_RevA.mxd
Print date: 03 May 2019 - 17:37

Data source: GHD: GW Sampling Locations (2019). SA Government: Cadastre (2010), Roads (2010), Railways (2013). Satellite Imagery - ESRI Basemap, Date Extracted: 17/04/2019 Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community. Created by: dbbanatin

Paper Size ISO A4

0 25 50 75 100

Meters

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

GHD

South Australian Metropolitan Fire Service
Largs North Station Off - site Groundwater Use Survey & Groundwater Investigation

Project No. **33-19080**
Revision No. **A**
Date **22/ 04/ 2019**

Groundwater Contour Plan

FIGURE 5

N:\AU\Adelaide\Projects\33\19080\GIS\Maps\Deliverables\33-19080_Z011_GWContourPlan_RevA.mxd
Print date: 22 Apr 2019 - 13:24

Data source: GHD: GW Sampling Locations (2019). SA Government: Cadastre (2010), Roads (2010), Railways (2013). Satellite Imagery - ESRI Basemap, Date Extracted: 17/04/2019 Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community. Created by: dbbanatin

Paper Size ISO A4

0 30 60 90 120

Meters

N

Map Projection: Mercator Auxiliary Sphere
Horizontal Datum: WGS 1984
Grid: WGS 1984 Web Mercator Auxiliary Sphere

GHD

South Australian Metropolitan Fire Service
Largs North Station Off - site Groundwater Use Survey & Groundwater Investigation

PFAS Concentration Contour Plan

Project No. **33-19080**
Revision No. **A**
Date **10/ 05/ 2019**

FIGURE 6

N:\AU\Adelaide\Projects\33\19080\GIS\Maps\Deliverables\33-19080_Z016_PFASContourPlan_RevA.mxd
Print date: 10 May 2019 - 14:18

Data source: GHD: GW Sampling Locations (2019), Contours (2019). SA Government: Cadastre (2010), Roads (2010), Railways (2013). Satellite Imagery - ESRI Basemap, Date Extracted: 17/04/2019 Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community. Created by: dbbanatin

Analytical Results Tables

Table 1 – Groundwater PFAS Results

Table 2 – Groundwater Gauging Results

Table 3 – QA/QC Results

Table 4 – Rinsate Results

				PFAS							
				Perfluorohexane sulfonic acid (PFHxS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoic acid (PFOA)	6:2 Fluorotelomer Sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	PFAS (Sum of Total)	Sum of PFHxS and PFOS	Sum of US EPA PFAS (PFOS + PFOA)*
				µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL				0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2018 Health Drinking Water						0.56				0.07	
PFAS NEMP 2018 Health Recreational Water						5.6				0.7	
PFAS NEMP 2018 Interim Marine 99%					0.00023	19					
Date	**Field ID**	**Sample Type**	**Matrix Type**								
27/02/2019	MW01	Normal	water	0.30	0.07	0.02	<0.01	<0.01	0.39	0.37	0.09
27/02/2019	MW02	Normal	water	3.4	9.0	0.07	<0.01	<0.01	12	12	9.1
27/02/2019	MW03	Normal	water	5.1	3.1	0.13	<0.01	<0.01	8.3	8.2	3.2
27/02/2019	MW04	Normal	water	86	130	4.2	4.9	0.36	230	220	130
27/02/2019	MW05	Normal	water	0.02	0.07	<0.01	<0.01	<0.01	0.09	0.09	0.07
27/02/2019	MW06	Normal	water	0.04	0.11	<0.01	<0.01	<0.01	0.16	0.16	0.11
27/02/2019	MW07	Normal	water	0.1	0.39	<0.01	<0.01	<0.01	0.48	0.48	0.39
27/02/2019	MW08	Normal	water	0.77	0.15	0.03	<0.01	<0.01	0.95	0.92	0.18
27/02/2019	MW09	Normal	water	0.47	0.02	0.02	<0.01	<0.01	0.51	0.49	0.03
27/02/2019	MW10	Normal	water	0.13	0.04	<0.01	<0.01	<0.01	0.17	0.17	0.04
27/02/2019	MW11	Normal	water	0.50	0.02	0.03	<0.01	<0.01	0.54	0.52	0.05
27/02/2019	PAE Well	Normal	water	<0.01	0.02	0.01	<0.01	<0.01	0.03	0.02	0.03

Groundwater Gauging Results

Site Location:	Large North Fire Station	MFS	South Australian Metropolitan Fire Service (MFS)
Job Number:	3319080	Latest GME:	11/04/2019
Entered By:	Joel Chance	Date:	11/04/2019

Groundwater Monitoring Well I.D	Gauging Date	TOC Elevation surveyed (mTOC)	SWL (mbTOC)	Depth to base of well (m bTOC)	RWL (mAHD)	Comments / field observations
MW01	13/02/2019	3.082	2.422	4.421	0.660	Gatic. Sampled.
	11/04/2019		2.491	4.541	0.591	Sampled.
MW02	13/02/2019	3.028	2.454	4.451	0.574	Gatic. Sampled.
	11/04/2019		2.513	4.407	0.515	Sampled.
MW03	13/02/2019	3.560	2.881	4.452	0.679	Gatic. Sampled.
	11/04/2019		2.944	4.527	0.616	Sampled.
MW04	13/02/2019	3.293	2.655	4.464	0.638	Gatic . Sampled.
	11/04/2019		2.703	4.454	0.590	Sampled.
MW05	11/04/2019	3.020	2.389	4.551	0.631	Gatic Sampled.
MW06	11/04/2019	3.117	2.500	4.383	0.617	Gatic Sampled.
MW07	11/04/2019	3.157	2.541	4.361	0.616	Gatic Sampled.
MW08	11/04/2019	3.045	2.507	4.421	0.538	Gatic Sampled.
MW09	11/04/2019	3.055	2.534	4.383	0.521	Gatic Sampled.
MW10	11/04/2019	2.802	2.289	4.431	0.513	Gatic Sampled.
MW11	11/04/2019	3.192	2.646	4.427	0.546	Gatic Sampled.

			PFAS							
			Perfluorohexane sulfonic acid (PFHxS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoic acid (PFOA)	6:2 Fluorotelomer Sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	PFAS (Sum of Total)	Sum of PFHxS and PFOS	Sum of US EPA PFAS (PFOS + PFOA)*
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL			0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Date	**Field ID**	**Matrix Type**								
27/02/2019	MW08	Water	0.77	0.15	0.03	<0.01	<0.01	0.95	0.92	0.18
27/02/2019	QA02	Water	0.73	0.13	0.03	<0.01	<0.01	0.89	0.86	0.16
RPD			5	14	0	0	0	7	7	12
27/02/2019	MW08	Water	0.77	0.15	0.03	<0.01	<0.01	0.95	0.92	0.18
27/02/2019	QA01	Water	0.82	0.15	0.03	0.01	<0.01	1.0	0.97	0.18
RPD			6	0	0	0	0	5	5	0
27/02/2019	MW08	Water	0.77	0.15	0.03	<0.01	<0.01	0.95	0.92	0.18
27/02/2019	QA02a	Water	0.85	0.09	0.03	<0.05		0.97	0.94	0.12
RPD			10	50	0	0		2	2	40

		Date	27/02/2019
		Field ID	RB01
		Sample Type	Rinsate
		Matrix Type	Water
	Unit	EQL	
PFAS			
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	<0.01
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	<0.01
Perfluorooctanoic acid (PFOA)	µg/L	0.01	<0.01
6:2 Fluorotelomer Sulfonate (6:2 FTS)	µg/L	0.01	<0.01
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/L	0.01	<0.01
PFAS (Sum of Total)	µg/L	0.01	<0.01
Sum of PFHxS and PFOS	µg/L	0.01	<0.01
Sum of US EPA PFAS (PFOS + PFOA)*	µg/L	0.01	<0.01

Appendices

Appendix A – Well Survey Data

LINKUP CONSTRUCTION SURVEYS PTY LTD

To: Joel Kirk
Company: GHD
Phone: 8111 6586

From: Lincoln Jeffery
Phone: 0414 840 569
Fax: 8351 4247
Email: Lincoln@linkupconstructionsurveys.com.au

Date: 8/2/2019

Monitoring well coordinates – Largs North MFS
2 Willochra St, Largs North SA 5016

Well or Bore No.	Easting MGA94	Northing MGA94	R.L. Top of Casing A.H.D.	Natural Surface A.H.D.
MW01	271572.661	6144213.974	3.082	3.121
MW02	271523.732	6144310.050	3.028	3.090
MW03	271508.013	6144240.835	3.560	3.555
MW04	271474.464	6144275.717	3.293	3.366

All Survey information was based from the MGA94 grid system and Australian Height Datum(AHD), Triangulated from Network Survey Marks on the area.

LINKUP CONSTRUCTION SURVEYS PTY LTD

To: Joel Kirk
Company: GHD
Phone: 8111 6586

From: Lincoln Jeffery
Phone: 0414 840 569
Fax: 8351 4247
Email: Lincoln@linkupconstructionsurveys.com.au

Date: 8/4/2019

Monitoring well coordinates – Largs North MFS
2 Willochra St, Largs North SA 5016

Well or Bore No.	Easting MGA20	Northing MGA20	R.L. Top of Casing A.H.D.	Natural Surface A.H.D.
MW05	271517.264	6144107.565	3.020	3.091
MW06	271480.61	6144082.112	3.117	3.194
MW07	271471.262	6144160.987	3.157	3.236
MW08	271484.051	6144324.021	3.045	3.114
MW09	271548.436	6144339.874	3.055	3.146
MW10	271612.521	6144354.927	2.802	2.866
MW11	271537.710	6144419.720	3.192	3.265

All Survey information was based from the MGA20 Z54 grid system and Australian Height Datum(AHD), Triangulated from Network Survey Marks on the area.

Appendix B – Field Forms

Groundwater Samples

Client: South Australian Metropolitan Fire Service (MFS)

Project: Largs North Station Off-site Groundwater Use Survey and Groundwater Investigation

Job No.: 3319080

Location: Largs North Station

WL Meter Type: Int.Fce

Location ID	Sample Date	Standing Water Level (SWL) (mbgl)	Depth of Well (mbgl)	pH	EC (us/cm)	TDS (mg/L)	DO (mg/L)	Redox (mV)	SHE Redox (mV)	Temperature	Sample Description
MW01	11/04/2019	2.491	4.541	6.57	2134	1387.1	0.00	31.6	230.6	23.4	Pale brown. No odour / sheen. High turbidity. High sediment load - fine sands in the bottom of the Hydrasleeve and trace organic matter.
MW02	11/04/2019	2.513	4.407	6.98	1101	715.65	2.53	52.8	251.8	23.2	Pale brown. Organic odour. No sheen. High turbidity. High sediment load - fine sands in the bottom of the Hydrasleeve and trace organic matter.
MW03	11/04/2019	2.944	4.527	6.76	2040	1326	0.00	83.5	282.5	22.5	Clear / pale brown. No odour / sheen. Low turbidity. Low sediment load.
MW04	11/04/2019	2.703	4.454	6.76	1681	1092.65	0.00	86.3	285.3	21.5	Pale brown. No odour / sheen. Low - medium turbidity. Low sediment load.
MW05	11/04/2019	2.389	4.551	7.01	835	542.75	0.00	51.5	250.5	24.0	Pale brown. Very slight hydrocarbon odour. No sheen. High turbidity. High sediment load - fine sands in bottom of the Hydrasleeve and trace organic matter.
MW06	11/04/2019	2.500	4.383	6.85	2992	1944.8	0.00	51.4	250.4	22.2	Pale brown. No odour / sheen. Medium turbidity. High sediment load - fine sands in the bottom of the Hydrasleeve and trace organic matter.
MW07	11/04/2019	2.541	4.361	6.99	1460	949	0.16	98.1	297.1	23.0	Pale brown. No odour / sheen. High turbidity. High sediment load - fine sands in the bottom of the Hydrasleeve and trace organic matter.
MW08	11/04/2019	2.507	4.421	6.96	2512	1632.8	0.00	97.1	296.1	23.2	Pale brown. No odour / sheen. High turbidity. High sediment load - fine sands in the bottom of the Hydrasleeve.
MW09	11/04/2019	2.534	4.383	7.13	1222	794.3	0.00	1.2	200.2	23.9	Pale brown. No odour / sheen. Medium - High turbidity. Low sediment load - trace organic matter.
MW10	11/04/2019	2.289	4.431	6.80	2669	1734.85	0.00	44.8	243.8	24.1	Pale brown. Sulphur odour. No sheen. Medium - High turbidity. Low sediment load.
MW11	11/04/2019	2.646	4.427	7.20	2555	1660.75	0.00	-91.4	107.6	23.6	Clear / pale brown. No odour / sheen. Low turbidity. Low sediment load.

Purging and Sampling Record

Bore ID: MW01

Job Information

Client: SA MFS
Project: Largs North Station - GW
Proj. No.: 3319080
Sampler: Joel Chance

Sampling Information

Sample Method: Hydrasleeve
WQ Meter Type: Airnet
Flow Cell: Y (N) Pump Depth: N/A m
WLevel Meter Type: Dip / Fox / (Int.Fce) / Gge
NAPL Check: Y

Bore Information

SWL: 2.491 m Logic Check: N/A
Date: 11-04-2019 Time: 11:30
Ref.datum: N/A Stick Up: N/A m
Bore Depth: 4.54+1 m Bore Diam.: 50 mm
Screen From: 1.5m to 4.5 m Well Cap Secure? Y

Time (.....)	Volume (L)	Temp (°C)	pH (pH units)	Elec.Cond (SPC.....)	Dis.Oxygen (.....)	Ox-Red Pt. (± mV)	SWL (m)	(.....)	Comment: Colour, turbidity, sediment load, sheen, odour, flow rate, purged dry?
Stable when (3 consecutive readings):	-	+/- 0.05 pH	+/- 3%	+/- 10%	+/- 10 mV	stable			
11:30	—	23.4	6.57	2134	—	31.6	—	—	Pale brown
									High sed load - fine sands in bottom of L5. Trace organic matter
									no odour / sheen
									High turbidity.

Field QA Checks:

Air bubbles in vials? Y (N) Any violent reactions? Y (N)
Decontamination as per GHD procedure? (Y) / N
Was sampling equipment pre-cleaned? (Y) N
COC updated? (Y) N Field Filtered? Y (N)

Well Volume Calculations

r = 0.025m H =
R = 0.05 m h =
H = height of water col (m) R = Bore Radius
h = thickness of sat. filterpack (m) r = PVC radius (m)

$PV = [(H \times \pi \times r^2) + 0.2 (h \times \pi \times (R^2 - r^2))] \times 1000$

PV =
=
=

= 1 well volume = 3 well vols

Comment: Duplicate samples collected, bottles used, access, condition of headworks etc

1 x Envirolab PFAS bottle.

Purge Volumes

Casing Int. Dia (mm)	50	100	150
Vol (L/m of casing)	2.0	7.9	17.7

*Double for gravel pack

Purging and Sampling Record

Bore ID: MW02

Job Information
- Job: SA MFS
- Project: Largs North Station - GW
- Proj. No.: 3319080
- Sampler: Scel Chance

Sampling Information
- Sample Method: Hydrasleeve
- WQ Meter Type: Airmet -
- Flow Cell: Y (N) Pump Depth: N/A m
- WLevel Meter Type: Dip / Fox / (Int.Fce) / Gge
- NAPL Check: 4

Bore Information
- SWL: 2.513 m
- Date: 11-04-2019
- Ref.datum: N/A
- Bore Depth: 4.407 m
- Screen From: 1.5m to 4.5 m
- Logic Check: N/A
- Time:
- Stick Up: N/A m
- Bore Diam.: 50 mm
- Well Cap Secure? Y

Time (.....)	Volume (L)	Temp (°C)	pH (pH units)	Elec.Cond (SpC)	Dis.Oxygen (mg/L)	Ox-Red Pt. (± mV)	SWL (m)	(.....)	Comment: Colour, turbidity, sediment load, sheen, odour, flow rate, purged dry?
Stable when (3 consecutive readings):	-	*+/- 0.05 pH*	*+/- 3%*	*+/- 10%*	*+/- 10 mV*	*stable*			
10:20	—	23.2	6.98	1101	2.53	52.8	—	—	Pale brown
					30.3 %				High turbidity.
									High sediment load - trace organic matter/ Sand.
									Organic odour no sheen

Field QA Checks:
- Air bubbles in vials? Y (N) Any violent reactions? Y (N)
- Decontamination as per GHD procedure? (Y) / N
- Was sampling equipment pre-cleaned? (Y) N
- COC updated? (Y) N Field Filtered? Y (N)

Well Volume Calculations
- r = 0.025m H =
- R = 0.05 m h =
- H = height of water col (m) R = Bore Radius
- h = thickness of sat. filterpack (m) r = PVC radius (m)

$PV = [(H \times \pi \times r^2) + 0.2 (h \times \pi \times (R^2 - r^2))] \times 1000$

PV =

= = = 1 well volume = 3 well vols

Comment: Duplicate samples collected, bottles used, access, condition of headworks etc

1 x Envirolab TPAS bottle.

Purge Volumes

Casing Int. Dia (mm)	50	100	150
Vol (L/m of casing)	2.0	7.9	17.7

*Double for gravel pack

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Purging and Sampling Record

Bore ID: MW03

Job Information		Sampling Information		Bore Information	
Client:	SA MFS	Sample Method:	Hydrasleeve	SWL:	2.944 m
Project:	Largs North station - GW	WQ Meter Type:	Airmet -	Date:	11-04-2019
Proj. No.:	3319080	Flow Cell: Y / (N)	Pump Depth: N/A m	Ref.datum:	N/A
Sampler:	Joel Chance	WLevel Meter Type:	Dip / Fox / (Int.Fce) / Gge	Bore Depth:	4.527 m
		NAPL Check:	Y	Screen From:	1.5m to 4.5 m
				Logic Check:	N/A
				Time:	10:30AM
				Stick Up:	N/A m
				Bore Diam.:	50 mm
				Well Cap Secure?	Y

Time (.....)	Volume (L)	Temp (°C)	pH (pH units)	Elec.Cond (µS/cm)	Dis.Oxygen (mg/L)	Ox-Red Pt. (± mV)	SWL (m)	(.....)	Comment: Colour, turbidity, sediment load, sheen, odour, flow rate, purged dry?
Stable when (3 consecutive readings):		-	*+/- 0.05 pH*	*+/- 3%*	*+/- 10%*	*+/- 10 mV*	*stable*		
10:30	—	22.5	6.76	2040	0 mg/L	83.5	—	—	clear / pale brown
					0.1				
									no odour / sheen
									low turbidity / sediment load.

Field QA Checks:
Air bubbles in vials? Y (N) Any violent reactions? Y (N)
Decontamination as per GHD procedure? (Y) / N
Was sampling equipment pre-cleaned? (Y) N
COC updated? (Y) N Field Filtered? Y (N)

Well Volume Calculations
r = 0.025m H =
R = 0.05 m h =
H = height of water col (m) R = Bore Radius
h = thickness of sat. filterpack (m) r = PVC radius (m)

$PV = [(H \times \pi \times r^2) + 0.2 (h \times \pi \times (R^2 - r^2))] \times 1000$
PV =
=
= = 1 well volume = 3 well vols

Comment: Duplicate samples collected, bottles used, access, condition of headworks etc
1 x Envirolab PFAS bottle.

Purge Volumes

Casing Int. Dia (mm)	50	100	150
Vol (L/m of casing)	2.0	7.9	17.7

*Double for gravel pack

Purging and Sampling Record

Bore ID: MW04

Job Information
Client: SA MFS
Project: Largs North Station - GW
Proj. No.: 3319080
Sampler: Joel Chance

Sampling Information
Sample Method: Hydrasleeve
WQ Meter Type: Airmet -
Flow Cell: Y (N) Pump Depth: N/A m
WLevel Meter Type: Dip / Fox / (Int.Fce) / Gge
NAPL Check: 4

Bore Information
SWL: 2.703 m Logic Check: N/A
Date: 11-04-2019 Time: 10:45AM
Ref.datum: N/A Stick Up: N/A m
Bore Depth: 4.454 m Bore Diam.: 50 mm
Screen From: 1.5m to 4.5 m Well Cap Secure? 4

Time (.....)	Volume (L)	Temp (°C)	pH (pH units)	Elec.Cond (~~s/c~~)	Dis.Oxygen (.....)	Ox-Red Pt. (± mV)	SWL (m)	(.....)	Comment: Colour, turbidity, sediment load, sheen, odour, flow rate, purged dry?
Stable when (3 consecutive readings):	-	*+/- 0.05 pH*	*+/- 3%*	*+/- 10%*	*+/- 10 mV*	*stable*			
10:45	—	21.5	6.76	1681	0	86.3	—	—	Pale brown
									no odour \ sheen
									low - med turbidity
									low sediment load

Field QA Checks:
Air bubbles in vials? Y (N) Any violent reactions? Y (N)
Decontamination as per GHD procedure? (Y) / N
Was sampling equipment pre-cleaned? (Y) N
COC updated? (Y) N Field Filtered? Y (N)

Well Volume Calculations
r = 0.025m H =
R = 0.05 m h =
H = height of water col (m) R = Bore Radius
h = thickness of sat. filterpack (m) r = PVC radius (m)

$PV = [(H \times \pi \times r^2) + 0.2 (h \times \pi \times (R^2 - r^2))] \times 1000$

PV =
=
=

= 1 well volume = 3 well vols

Comment: Duplicate samples collected, bottles used, access, condition of headworks etc
1 x Envirolab PFAS bottle

Purge Volumes

Casing Int. Dia (mm)	50	100	150
Vol (L/m of casing)	2.0	7.9	17.7

*Double for gravel pack

Purging and Sampling Record

Bore ID: MW05

Job Information
Client: SA MFS
Project: Largs North Station - GW
Proj. No.: 33190880
Sampler: Scel Chance

Sampling Information
Sample Method: Hydrasleeve
WQ Meter Type: Airnet
Flow Cell: Y (N) Pump Depth: N/A m
WLevel Meter Type: Dip / Fox / (Int.Fce) / Gge
NAPL Check: Y

Bore Information
SWL: 2.389 m Logic Check: N/A
Date: 11-04-2019 Time: 11:20
Ref.datum: N/A Stick Up: N/A m
Bore Depth: 4.551 m Bore Diam.: 50 mm
Screen From: 1.5m to 4.5 m Well Cap Secure? Y

Time (.....)	Volume (L)	Temp (°C)	pH (pH units)	Elec.Cond (Spc.)	Dis.Oxygen (.....)	Ox-Red Pt. (± mV)	SWL (m)	(.....)	Comment: Colour, turbidity, sediment load, sheen, odour, flow rate, purged dry?
Stable when (3 consecutive readings):	-	*+/- 0.05 pH*	*+/- 3%*	*+/- 10%*	*+/- 10 mV*	*stable*			
11:20	—	24	7.01	835	—	51.5	—	—	Pale brown
									Slight HC odour
									No sheen.
									High sed load - trace org matter / fine sands in bottom of HS.

Field QA Checks:
Air bubbles in vials? Y (N) Any violent reactions? Y (N)
Decontamination as per GHD procedure? (Y) / N
Was sampling equipment pre-cleaned? (Y) N
COC updated? (Y) N Field Filtered? Y (N)

Well Volume Calculations
r = 0.025m H =
R = 0.05 m h =
H = height of water col (m) R = Bore Radius
h = thickness of sat. filterpack (m) r = PVC radius (m)

$PV = [(H \times \pi \times r^2) + 0.2 (h \times \pi \times (R^2 - r^2))] \times 1000$
PV =
=
= = 1 well volume = 3 well vols

Comment: Duplicate samples collected, bottles used, access, condition of headworks etc
1 x Envirolab PFAS bottle.

Purge Volumes

Casing Int. Dia (mm)	50	100	150
Vol (L/m of casing)	2.0	7.9	17.7

*Double for gravel pack

GHD | MANAGEMENT ENGINEERING ENVIRONMENT

Purging and Sampling Record

Bore ID: MW06

Job Information
Client: SA MFS
Project: Largs North Station - GW
Proj. No.: 3319080
Sampler: Scel Chance

Sampling Information
Sample Method: Hydrasleeve
WQ Meter Type: Airnet
Flow Cell: Y (N) Pump Depth: N/A m
WLevel Meter Type: Dip / Fox / (Int.Fce) / Gge
NAPL Check: Y

Bore Information
SWL: 2.50 m Logic Check: N/A
Date: 11-04-2019 Time: 11:10 AM
Ref.datum: N/A Stick Up: N/A m
Bore Depth: 4.383 m Bore Diam.: 50 mm
Screen From: 1.5m to 4.5 m Well Cap Secure? Y

Time (.....)	Volume (L)	Temp (°C)	pH (pH units)	Elec.Cond (SpC)	Dis.Oxygen (.....)	Ox-Red Pt. (± mV)	SWL (m)	(.....)	Comment: Colour, turbidity, sediment load, sheen, odour, flow rate, purged dry?
Stable when (3 consecutive readings):	-	+/- 0.05 pH	+/- 3%	+/- 10%	+/- 10 mV	stable			
11.10	—	22.2	6.85	2992	—	51.4	—	—	Pale brown
									No odour / Sheen
									High sed load - fine sands in bottom of HS, trace organic matter.
									Med turbidity.

Field QA Checks:
Air bubbles in vials? Y (N) Any violent reactions? Y (N)
Decontamination as per GHD procedure? (Y) / N
Was sampling equipment pre-cleaned? (Y) N
COC updated? (Y) N Field Filtered? Y (N)

Well Volume Calculations
r = 0.025m H =
R = 0.05 m h =
H = height of water col (m) R = Bore Radius
h = thickness of sat. filterpack (m) r = PVC radius (m)

PV = [(H x π x r²) + 0.2 (h x π x (R² - r²))] x 1000
PV =
=
= = 1 well volume = 3 well vols

Comment: Duplicate samples collected, bottles used, access, condition of headworks etc
1 x Envirolab PFAS bottle.

Purge Volumes

Casing Int. Dia (mm)	50	100	150
Vol (L/m of casing)	2.0	7.9	17.7

*Double for gravel pack

Purging and Sampling Record

Bore ID: MW07

Job Information

Client: SA MFS
Project: Largs North Station - GW
Proj. No.: 3319080
Sampler: Joel Chance

Sampling Information

Sample Method: Hydrasleeve
WQ Meter Type: Airnet
Flow Cell: Y (N) Pump Depth: N/A m
WLevel Meter Type: Dip / Fox / (Int.Fce) / Gge
NAPL Check: Y

Bore Information

SWL: 2.541 m Logic Check: N/A
Date: 11-04-2019 Time: 11AM
Ref.datum: N/A Stick Up: N/A m
Bore Depth: 4.361 m Bore Diam.: 50 mm
Screen From: 1.5m to 4.5 m Well Cap Secure? Y

Time (.....)	Volume (L)	Temp (°C)	pH (pH units)	Elec.Cond (~~SpC~~)	Dis.Oxygen (mg/L)	Ox-Red Pt. (± mV)	SWL (m)	(.....)	Comment: Colour, turbidity, sediment load, sheen, odour, flow rate, purged dry?
Stable when (3 consecutive readings):	-	*+/- 0.05 pH*	*+/- 3%*	*+/- 10%*	*+/- 10 mV*	*stable*			
11	-	23	6.99	1460	0.16	98.1	-	-	Pale brown
					0.8 %				High turbidity.
									Sediment load - high - Sand in bottom of HS (fine), trace organic matter
									no odour / sheen

Field QA Checks:

Air bubbles in vials? Y (N) Any violent reactions? Y (N)
Decontamination as per GHD procedure? (Y) / N
Was sampling equipment pre-cleaned? (Y) N
COC updated? (Y) N Field Filtered? Y (N)

Well Volume Calculations

r = 0.025m H =
R = 0.05 m h =
H = height of water col (m) R = Bore Radius
h = thickness of sat. filterpack (m) r = PVC radius (m)

PV = [(H x π x r^2) + 0.2 (h x π x (R^2 - r^2))] x 1000
PV =
=
= = 1 well volume = 3 well vols

Comment: Duplicate samples collected, bottles used, access, condition of headworks etc
1 x Envirolab PFAS bottle.

Purge Volumes

Casing Int. Dia (mm)	50	100	150
Vol (L/m of casing)	2.0	7.9	17.7

*Double for gravel pack

Purging and Sampling Record

Bore ID: MW08

Job Information		Sampling Information		Bore Information	
Client: SA MFS		Sample Method: Hydrasleeve		SWL: 2.507 m	Logic Check: N/A
Project: Largs North Station - GW		WQ Meter Type: Airnet -		Date: 11-04-2019	Time: 8:45 AM
Proj. No.: 33190080		Flow Cell: Y (N)	Pump Depth: N/A m	Ref.datum: N/A	Stick Up: N/A m
Sampler: Joel Chance		WLevel Meter Type: Dip / Fox / (Int.Fce) / Gge		Bore Depth: 4.421 m	Bore Diam.: 50 mm
		NAPL Check: Y		Screen From: 1.5m to 4.5 m	Well Cap Secure? Y

Time (.....)	Volume (L)	Temp (°C)	pH (pH units)	Elec.Cond (SpC..)	Dis.Oxygen (.....)	Ox-Red Pt. (± mV)	SWL (m)	(.....)	Comment: Colour, turbidity, sediment load, sheen, odour, flow rate, purged dry?
Stable when (3 consecutive readings):	-	*+/- 0.05 pH*	*+/- 3%*	*+/- 10%*	*+/- 10 mV*	*stable*			
8.45	-	23.2	6.96	2512	-	97.1			Pale brown
									High turbidity
									Fine sand in bottom of
									HS
									No odour / sheen.

Field QA Checks:
Air bubbles in vials? Y (N) Any violent reactions? Y (N)
Decontamination as per GHD procedure? (Y) / N
Was sampling equipment pre-cleaned? (Y) N
COC updated? (Y) N Field Filtered? Y (N)

Well Volume Calculations
r = 0.025m H =
R = 0.05 m h =
H = height of water col (m) R = Bore Radius
h = thickness of sat. filterpack (m) r = PVC radius (m)

$PV = [(H \times \pi \times r^2) + 0.2 (h \times \pi \times (R^2 - r^2))] \times 1000$
PV =
=
= 1 well volume = 3 well vols

Comment: Duplicate samples collected, bottles used, access, condition of headworks etc
1 x Envirolab PFAS bottle.
QA01 + QA02.

Purge Volumes

Casing Int. Dia (mm)	50	100	150
Vol (L/m of casing)	2.0	7.9	17.7

*Double for gravel pack

Purging and Sampling Record

Bore ID: MW09

Job Information
Client: SA MFS
Project: Largs North station - GW.
Proj. No.: 3319080
Sampler: Joel Chance.

Sampling Information
Sample Method: Hydrasleeve
WQ Meter Type: Airmet -
Flow Cell: Y (N) Pump Depth: N/A m
WLevel Meter Type: Dip / Fox / (Int.Fce) / Gge
NAPL Check: Y

Bore Information
SWL: 2.534 m Logic Check: N/A
Date: 11-04-2019 Time: 10 AM
Ref.datum: N/A Stick Up: N/A m
Bore Depth: 4.383 m Bore Diam.: 50 mm
Screen From: 1.5m to 4.5 m Well Cap Secure? Y

Time (.....)	Volume (L)	Temp (°C)	pH (pH units)	Elec.Cond (Spc)	Dis.Oxygen (.....)	Ox-Red Pt. (± mV)	SWL (m)	(.....)	Comment: Colour, turbidity, sediment load, sheen, odour, flow rate, purged dry?
Stable when (3 consecutive readings):		-	+/- 0.05 pH	+/- 3%	+/- 10%	+/- 10 mV	stable		
10	-	23.9	7.13	1222	-	1.2	-	-	Pale brown no odour / sheen Med - high turbidity Low sediment load. trace organic matter.

Field QA Checks:
Air bubbles in vials? Y (N) Any violent reactions? Y (N)
Decontamination as per GHD procedure? (Y) / N
Was sampling equipment pre-cleaned? (Y) N
COC updated? (Y) N Field Filtered? Y (N)

Well Volume Calculations
r = 0.025m H =
R = 0.05 m h =
H = height of water col (m) R = Bore Radius
h = thickness of sat. filterpack (m) r = PVC radius (m)

PV = [(H x π x r^2) + 0.2 (h x π x (R^2 - r^2))] x 1000
PV =
=
= = 1 well volume = 3 well vols

Comment: Duplicate samples collected, bottles used, access, condition of headworks etc
1 x Envirolab PFAS bottle.

Purge Volumes

Casing Int. Dia (mm)	50	100	150
Vol (L/m of casing)	2.0	7.9	17.7

*Double for gravel pack

MANAGEMENT
ENGINEERING
ENVIRONMENT

Purging and Sampling Record

Bore ID: MW10

Job Information
Client: SA MFS
Project: Largs North station - GW
Proj. No.: 33190880
Sampler: Joel Chance

Sampling Information
Sample Method: Hydrasleeve
WQ Meter Type: Airnet -
Flow Cell: Y (N) Pump Depth: N/A m
WLevel Meter Type: Dip / Fox / (Int.Fce) / Gge
NAPL Check: Y

Bore Information
SWL: 2.289 m Logic Check: N/A
Date: 11-04-2019 Time: 10:10AM
Ref.datum: N/A Stick Up: N/A m
Bore Depth: 4.431 m Bore Diam.: 50 mm
Screen From: 1.5m to 4.5 m Well Cap Secure? Y

Time (.....)	Volume (L)	Temp (°C)	pH (pH units)	Elec.Cond (µS/c)	Dis.Oxygen (.....)	Ox-Red Pt. (± mV)	SWL (m)	(.....)	Comment: Colour, turbidity, sediment load, sheen, odour, flow rate, purged dry?
Stable when (3 consecutive readings):	-	+/- 0.05 pH	+/- 3%	+/- 10%	+/- 10 mV	stable			
10.10	—	24.1	6.80	2669	—	44.8	—	—	Pale brown
									Sulphur odour
									No Sheen.
									Med - high turbidity
									low sediment load.

Field QA Checks:
Air bubbles in vials? Y (N) Any violent reactions? Y (N)
Decontamination as per GHD procedure? (Y) / N
Was sampling equipment pre-cleaned? (Y) N
COC updated? (Y) N Field Filtered? Y (N)

Well Volume Calculations
r = 0.025m H =
R = 0.05 m h =
H = height of water col (m) R = Bore Radius
h = thickness of sat. filterpack (m) r = PVC radius (m)

$PV = [(H \times \pi \times r^2) + 0.2 (h \times \pi \times (R^2 - r^2))] \times 1000$

PV =
=
=

= 1 well volume = 3 well vols

Comment: Duplicate samples collected, bottles used, access, condition of headworks etc
1 x Envirolab PFAS bottle.

Purge Volumes

Casing Int. Dia (mm)	50	100	150
Vol (L/m of casing)	2.0	7.9	17.7

*Double for gravel pack

GHD MANAGEMENT ENGINEERING ENVIRONMENT

Purging and Sampling Record

Bore ID: MW11

Job Information
Client: SA MFS
Project: Largs North Station - GW
Proj. No.: 3319080
Sampler: Joel Chance

Sampling Information
Sample Method: Hydrasleeve
WQ Meter Type: Airnet
Flow Cell: Y (N) Pump Depth: N/A m
WLevel Meter Type: Dip / Fox / (Int.Fce) / Gge
NAPL Check: Y

Bore Information
SWL: 2.646 m Logic Check: N/A
Date: 11-04-2019 Time: 9.45AM
Ref.datum: N/A Stick Up: N/A m
Bore Depth: 4.427 m Bore Diam.: 50 mm
Screen From: 1.5m to 4.5 m Well Cap Secure? Y

Time (.....)	Volume (L)	Temp (°C)	pH (pH units)	Elec.Cond (SpC)	Dis.Oxygen (.....)	Ox-Red Pt. (± mV)	SWL (m)	(.....)	Comment: Colour, turbidity, sediment load, sheen, odour, flow rate, purged dry?
Stable when (3 consecutive readings):	-	+/- 0.05 pH	+/- 3%	+/- 10%	+/- 10 mV	stable			
9.45	—	23.6	7.2	2555	—	-91.4	—	—	Clear / pale brown no odour / sheen low turbidity no sediment load.

Field QA Checks:
Air bubbles in vials? Y (N) Any violent reactions? Y (N)
Decontamination as per GHD procedure? (Y) / N
Was sampling equipment pre-cleaned? (Y) N
COC updated? (Y) N Field Filtered? Y (N)

Well Volume Calculations
r = 0.025m H =
R = 0.05 m h =
H = height of water col (m) R = Bore Radius
h = thickness of sat. filterpack (m) r = PVC radius (m)

PV = [(H x π x r^2) + 0.2 (h x π x (R^2 - r^2))] x 1000
PV =
=
= = 1 well volume = 3 well vols

Comment: Duplicate samples collected, bottles used, access, condition of headworks etc
1 x Envirolab PFAS bottle.

Purge Volumes

Casing Int. Dia (mm)	50	100	150
Vol (L/m of casing)	2.0	7.9	17.7

*Double for gravel pack

GHD MANAGEMENT ENGINEERING ENVIRONMENT

Purging and Sampling Record

Bore ID: PAE Well.

Job Information
Client: SA MFS
Project: Leigh North station - GW.
Proj. No.: 33190080
Sampler: Joel Chance.

Sampling Information
Sample Method: Hydrasleeve
WQ Meter Type: Airnet -
Flow Cell: Y (N) Pump Depth: N/A m
WLevel Meter Type: Dip / Fox / (Int.Fce) / Gge
NAPL Check: Y

Bore Information
SWL: 2.361 m Logic Check: N/A.
Date: 11-04-2019. Time: 9.15AM.
Ref.datum: N/A. Stick Up: N/A m
Bore Depth: 2.918. m Bore Diam.: 50 mm
Screen From: 1.5m to 4.5 m Well Cap Secure? Y

Time (.....)	Volume (L)	Temp (°C)	pH (pH units)	Elec.Cond (.....)	Dis.Oxygen (.....)	Ox-Red Pt. (± mV)	SWL (m)	(.....)	Comment: Colour, turbidity, sediment load, sheen, odour, flow rate, purged dry?
Stable when (3 consecutive readings):		-	*+/- 0.05 pH*	*+/- 3%*	*+/- 10%*	*+/- 10 mV*	*stable*		
9.15	—						—	—	See photo.
									Unable to source enough water to collect parameters.
									Casing - 25mm.
									Dark brown / black chemical odour. High turbidity. Film of pale brown foam on top of water.

Field QA Checks:
Air bubbles in vials? Y (N) Any violent reactions? Y (N)
Decontamination as per GHD procedure? (Y) / N
Was sampling equipment pre-cleaned? (Y) N
COC updated? (Y) N Field Filtered? Y (N)

Well Volume Calculations
r = 0.025m H =
R = 0.05 m h =
H = height of water col (m) R = Bore Radius
h = thickness of sat. filterpack (m) r = PVC radius (m)

PV = [(H x π x r²) + 0.2 (h x π x (R² - r²))] x 1000
PV =
=
= = 1 well volume = 3 well vols

Comment: Duplicate samples collected, bottles used, access, condition of headworks etc
1 x Envirolab PFAS bottle.

Purge Volumes

Casing Int. Dia (mm)	50	100	150
Vol (L/m of casing)	2.0	7.9	17.7

*Double for gravel pack

MW05.

Date:	2-4-19
Logged By:	JC
Driller:	WB
Drill Method:	PT-3m HA.
TD:	
Job No:	33191CRO
Client:	SA MFS.
Project Name:	
Diameter:	190mm
Casing:	50mm
Surface Completion:	Static
Water Strike:	2.4
Walter Level Final:	

Blank depth	0-1.5m
Screen Depth	1.5-4.5m
Gravel Pack Depth	to 3.9m 1mbgl.
Bentonite Depth	0.5 mbgl.
Grout	Surface.
Concrete	

DEPTH	Geology: Clay	Silt	Sandy Clay	Clayey Sand	Silty Sand	Sand	Clayey Gravel	Silty Gravel	Gravel	Fill	Other - Write in Comments	Colour: Lt grey	Md grey	Dk grey	Brn grey	Pale Brown	Greyish brown	Yellowish Brown	Dk Yellowish Orange	Reddish Brown	Mottled	other - write in comments	Moisture content: Wet	Moist	Low	Dry	Hardness: V-soft	Soft	Firm	Stiff	V- Stiff	Hard	Friable	CLAY Plasticity: High	Medium	Low	None	SAND Size: Coarse	Medium	Fine	Sorting: Well sorted	Moderatley well sorted	Poorly Sorted	Texture: Loose	Co-Hesive	IMPACT: Odour	Visual - Write in Comments	PID	COMMENTS
0					X				X							X										X	X									X	X	X			X								Silty Sand with gravel no odour. Fill
0.3										X	X					X										X	X									X		X	X		X								Sandy silt. trace organic matter. Fill.
0.6					X											X										X	X									X		X	X	X									Sand. pale brown. med. well sorted. no odour.
0.9					X																	X				X	X									X		X		X									Sand. yellow. well sorted no odour
2.1					X															X	X					X	X									X		X		X	X								Sand. yellow. orange mottle. no odour
2.4					X															X	X	X				X	X									X		X		X	X								Sand. wet. water strike yellow orange mottle
2.7					X							X									X					X	X									X		X		X	X								Sand. wet. med. grey. no odour.
↓																																																	
4.5																																																	" "

MW05.

COMMENTS

MW06

Date:	2-4-19
Logged By:	SJC
Driller:	WJS
Drill Method:	PT-3r - HA
TD:	4.5
Job No:	33/9080
Client:	SAMS
Diameter:	190mm
Casing:	50mm Galvanic
Surface Completion:	
Water Strike:	2.4
Water Level Final:	
Project Name:	

Blank depth	0 - 1.5m
Screen Depth	1.5 - 4.5m
Gravel Pack Depth	Sand (2-3mm) to 1 m bgl
Bentonite Depth	0.5 m bgl
Grout	Surface
Concrete	

DEPTH	Geology: Clay	Silt	Sandy Clay	Clayey Sand	Silty Sand	Sand	Clayey Gravel	Silty Gravel	Gravel	Fill	Other - Write in Comments	Colour: Lt grey	Md grey	Dk grey	Brn grey	Pale Brown	Greyish brown	Yellowish Brown	Dk Yellowish Orange	Reddish Brown	Mottled	other - Write in comments	Moisture content: Wet	Moist	Low	Dry	Hardness: V-soft	Soft	Firm	Stiff	V- Stiff	Hard	Friable	CLAY Plasticity: High	Medium	Low	None	SAND Size: Coarse	Medium	Fine	Sorting: Well sorted	Moderatley well sorted	Poorly Sorted	Texture: Loose	Co-Hesive	IMPACT: Odour	Visual - Write in Comments	PID	COMMENTS
0					X				X	X	X														X	X						X			X	X			X												Sand. Fill. rocks, gravel, organic matter.
0.2					X				X						X										X	X									X	X			X												Sand. Pale brown. No odor
0.4					X				X			X			X										X	X									X	X			X												" " light grey/pale brown rocks
1.4			X						X						X					X					X								X				X			X											Clay. Sand. mottled. orange No odor
1.8					X															X					X											X	X														Sand. yellow. Mottled - orange
2.4					X										X					X					X											X	X														Sand. wet. Water Strike. Pale brown/yellow/orange mottle
2.7					X							X									X					X											X	X														Sand. wet. grey (red). No odor
1																																																				" "
4.5																																																			" "

MW06	

MW07.

Date:	2-4-19.
Logged By:	JC
Driller:	CJS
Drill Method:	PT-3A. HA.
TD:	
Job No:	3319080
Client:	SAMFS.
Project Name:	
Diameter:	100mm
Casing:	50mm
Surface Completion:	Gatic
Water Strike:	2.5
Water Level Final:	

Blank depth	0-1.5m
Screen Depth	1.5-4.5m
Gravel Pack Depth	Sand to 1mbgl
Bentonite Depth	0.5mbgl.
Grout	Surface
Concrete	

DEPTH	Geology: Clay	Silt	Sandy Clay	Clayey Sand	Silty Sand	Sand	Clayey Gravel	Silty Gravel	Gravel	Fill	Other - Write in Comments	Colour: Lt grey	Md grey	Dk grey	Blu grey	Pale Brown	Greyish brown	Yellowish Brown	Dk Yellowish Orange	Reddish Brown	Mottled	other - write in comments	Moisture content: Wet	Moist	Low	Dry	Hardness: V-soft	Soft	Firm	Stiff	V- Stiff	Hard	Friable	CLAY Plasticity: High	Medium	Low	None	SAND Size: Coarse	Medium	Fine	Sorting: Well sorted	Moderatley well sorted	Poorly Sorted	Texture: Loose	Co-Hesive	IMPACT: Odour	Visual - Write in Comments	PID	COMMENTS
0					X						XX					X									XX									X		XX			X									MW07
0.8					X											X									XX											X			XX		X								Silty sand. trace organic matter. rocks, gravel, glass, rubbish / litter. No odour.
1.2					X							X				X									XX											X			XX		X								Sand. no odor.
2.4					X							X				X									XX											X			XX		X								Sand. pale brown / light grey. no odor.
3.2					X																XX	XX														X			XX		X								Sand. moist. yellow. no odor
3.8					X																XX		X													X			XX		X								Sand. well sorted. yellow / light brown. no odor.
↓					X							XX											X													X			XX		X								Sand. wet. no odor. light / red grey.
4.5																																																	

MW08.

Date:	1-4-19
Logged By:	JC
Driller:	WB.
Drill Method:	push tube to 3m. HA.
TD:	
Diameter:	190mm - auger.
Casing:	50mm.
Surface Completion:	Gatic.
Water Strike:	2.5m.
Water Level Final:	

Job No: 3319080 Client: SAMFS Project Name:

Blank depth	0 - 1.5m.
Screen Depth	1.5 - 4.5m.
Gravel Pack Depth	Sand to 1mbgl
Bentonite Depth	0.5 mbgl
Grout	to surface.
Concrete	

DEPTH	Geology: Clay	Silt	Sandy Clay	Clayey Sand	Silty Sand	Sand	Clayey Gravel	Silty Gravel	Gravel	Fill	Other - Write in Comments	Colour: Lt grey	Md grey	Dk grey	Brn grey	Pale Brown	Greyish brown	Yellowish Brown	Dk Yellowish Orange	Reddish Brown	Mottled	other - write in comments	Moisture content: Wet	Moist	Low	Dry	Hardness: V-soft	Soft	Firm	Stiff	V. Stiff	Hard	Friable	CLAY Plasticity: High	Medium	Low	None	SAND Size: Coarse	Medium	Fine	Sorting: Well sorted	Moderately well sorted	Poorly Sorted	Texture: Loose	Co-Hesive	IMPACT: Odour	Visual - Write in Comments	PID	COMMENTS
0											X					X									X	X								X		X	X		X									Sandy Silt. Pale brown. no plas no odor. Fill.
0.2									X		X					X									X	X					X			X		X	X			X							Sandy silt with gravel. pale brown no odor. Fill
0.3											X					X									X	X								X		X	X		X								Sandy silt. pale brown. no odor Fill.
0.5					X				X							X									X	X					X			X		X	X			X							Natural. Pale brown. white gravel No odor.
0.7						X															X					X								X		X	X										Sand. well sorted. no odor. Yellow/pale brown.
0.9						X															X					X								X		X	X										Sand. well sorted, no odor. white/yellow
1.8						X														X	X					X								X		X	X										Sand. mottled/orange. no odor.
2.6						X						X											X				X								X		X	X										Sand wet. med grey. no odor. Sample collected @ 2.6m.
2.9						X								X									X				X								X		X	X										Sand. Dark grey. no odor
4.5																																																		" " Dark grey, wet, sand

Sample collected @ water Strike - 2.5-2.6m. Sample name - MW08.

MW09

Date:	1-4-19
Logged By:	JC
Driller:	WB
Drill Method:	PT to 3m. HA.
TD:	
Job No:	3319080
Client:	SAMFS
Project Name:	
Diameter:	190mm
Casing:	50mm
Surface Completion:	Gatic
Water Strike:	2.5
Walter Level Final:	

Blank depth	0 - 1.5
Screen Depth	1.5 - 4.5m
Gravel Pack Depth	Sand to 1 mbgl
Bentonite Depth	0.5 mbgl
Grout	surface
Concrete	

DEPTH	Geology: Clay	Silt	Sandy Clay	Clayey Sand	Silty Sand	Sand	Clayey Gravel	Silty Gravel	Gravel	Fill	Other - Write in Comments	Colour: Lt grey	Md grey	Dk grey	Brn grey	Pale Brown	Greyish brown	Yellowish Brown	Dk Yellowish Orange	Reddish Brown	Mottled	other - write in comments	Moisture content: Wet	Moist	Low	Dry	Hardness: V-soft	Soft	Firm	Stiff	V. Stiff	Hard	Friable	CLAY Plasticity: High	Medium	Low	None	SAND Size: Coarse	Medium	Fine	SAND Sorting: Well sorted	Moderately well sorted	Poorly Sorted	Texture: Loose	Co-Hesive	IMPACT: Odour	Visual - Write in Comments	PID	COMMENTS
0										X					X										X	X										X	X			X										Sandy - Silt. no odor. Fill. Organic matter - trace.
0.2									X	X					X										X	X					X				X	X				X									Sandy - silt. no odor. rocks/gravel. Fill
0.4						X						X			X										X	X									X	X		X										Sand. light grey/pale brown Natural. no odor.
1						X															X					X	X									X	X	X										Sand. no odor. white/yellow. well sorted
1.7						X														X	X					X	X									X	X		X										Sand. Yellow motted (orange + grey) no odor
2.4						X														X	X	X					X									X	X		X										Sand " " wet. No odor
2.7						X						X										X					X									X	X		X										Sand. wet. grey. Sample collected @ 2.7 - 3m.
↓																																																		" "
4.5																																																			" "

MW09	

COMMENTS

Sample MW09. Collected @ 2.7 - 3m.

MW10

Date:	1-4-19
Logged By:	JC.
Driller:	WB
Drill Method:	PT-3m. HA.
TD:	
Job No:	3319080
Client:	SAMFS
Project Name:	
Diameter:	190mm
Casing:	50mm
Surface Completion:	Gatic
Water Strike:	2.4.
Walter Level Final:	

Blank depth	0 - 1.5m.
Screen Depth	1.5 - 4.5m.
Gravel Pack Depth	Sand to 1 mbgl.
Bentonite Depth	0.5 mbgl.
Grout	surface.
Concrete	

DEPTH	Geology: Clay	Silt	Sandy Clay	Clayey Sand	Silty Sand	Sand	Clayey Gravel	Silty Gravel	Gravel	Fill	Other - Write in Comments	Colour: Lt grey	Md grey	Dk grey	Brn grey	Pale Brown	Greyish brown	Yellowish Brown	Dk Yellowish Orange	Reddish Brown	Mottled	other - write in comments	Moisture content: Wet	Moist	Low	Dry	Hardness: V-soft	Soft	Firm	Stiff	V- Stiff	Hard	Friable	CLAY Plasticity: High	Medium	Low	None	SAND Size: Coarse	Medium	Fine	SAND Sorting: Well sorted	Moderatley well sorted	Poorly Sorted	Texture: Loose	Co-Hesive	IMPACT: Odour	Visual - Write in Comments	PID	COMMENTS
0					X										X										X	X					X			X			X	X			X								trace organic matter/gravel Fill. no odor
0.6										X					X										X	X					X				X			X		X								Sandy-silt. no odor. well sorted. natural
1.1						X						X														X	X					X				X	X		X									Sand. light grey. no odor.
1.4						X															X					X	X					X				X			X									Sand. white/yellow. no odor
1.9						X														X	X					X	X					X				X			X									Sand. yellow. motted-orange no odor
2						X														X	X		X			X	X					X				X			X									" " moist.
2.4						X						X											X			X	X					X				X			X	X									Sand. med grey. wet. water strike.
3																																																		" "
4.5																																																		" "

MW10	

Sample, MW10, collected @ 2.7-3m.

MW11.

Date:	1-4-19
Logged By:	JC
Driller:	WJB
Drill Method:	PT-3m. HA.
TD:	
Job No:	3319080
Client:	SAMES.
Project Name:	
Diameter:	190mm
Casing:	50mm
Surface Completion:	Gatic
Water Strike:	2.5.
Walter Level Final:	

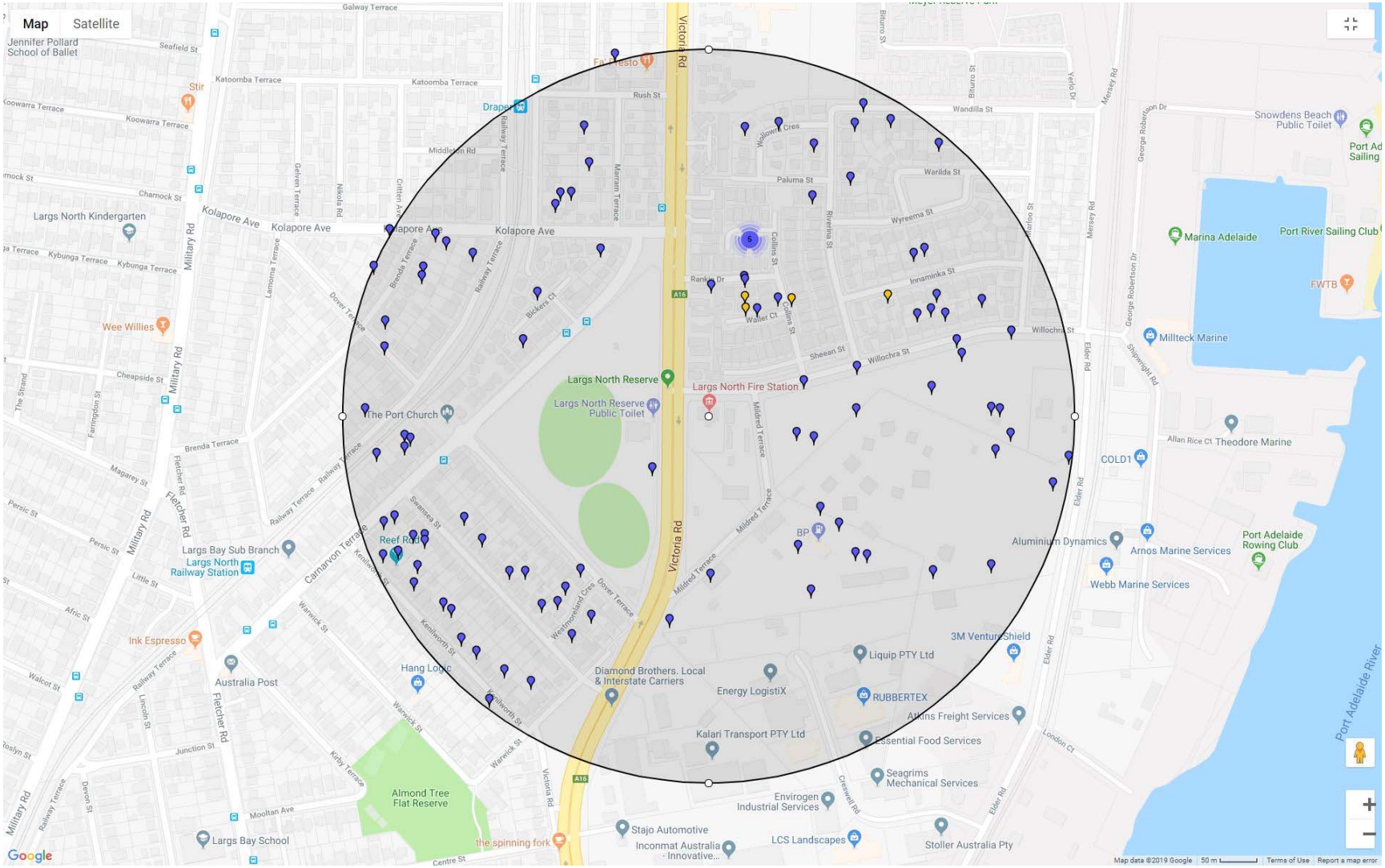
Blank depth	0-1.5m
Screen Depth	1.5-4.5m.
Gravel Pack Depth	Sand to 1mbgl
Bentonite Depth	0.5mbgl.
Grout	Surface.
Concrete	

DEPTH	Geology: Clay	Silt	Sandy Clay	Clayey Sand	Silty Sand	Sand	Clayey Gravel	Silty Gravel	Gravel	Fill	Other - Write in Comments	Colour: Lt grey	Md grey	Dk grey	Brn grey	Pale Brown	Greyish brown	Yellowish Brown	Dk Yellowish Orange	Reddish Brown	Mottled	other - write in comments	Moisture content: Wet	Moist	Low	Dry	Hardness: V-soft	Soft	Firm	Stiff	V- Stiff	Hard	Friable	CLAY Plasticity: High	Medium	Low	None	SAND Size: Coarse	Medium	Fine	Sorting: Well sorted	Moderatley well sorted	Poorly Sorted	Texture: Loose	Co-Hesive	IMPACT: Odour	Visual - Write in Comments	PID	COMMENTS
0									x	x	x					x										x	x									x	x				x								Sandy - silt. Gravel (trace) organic matter (trace). Fill.
0.4									x	x						x		x								x	x									x		x	x									Sandy-silt. rocks (5-10mm) fill.
0.6						x										x										x	x									x		x	x		x							Sand. Pale brown. mod. well sorted. No odor.
0.9						x										x										x	x									x			x	x								Sand. Fine. well sorted.
1.1						x															x					x	x									x			x	x								Sand. white / yellow. fine
2.6						x														x	x					x	x									x			x	x								Sand. wet. orang mottled. water strike 2.5-2.6
3						x							x													x	x									x			x	x								" " med. grey.
↓																																																	" "
4.5																																																		" "

Sample, MW11, collected @ 2.7-3m.

Appendix C – Registered Bore Search

Figure 1: Registered bore search 0.5 km

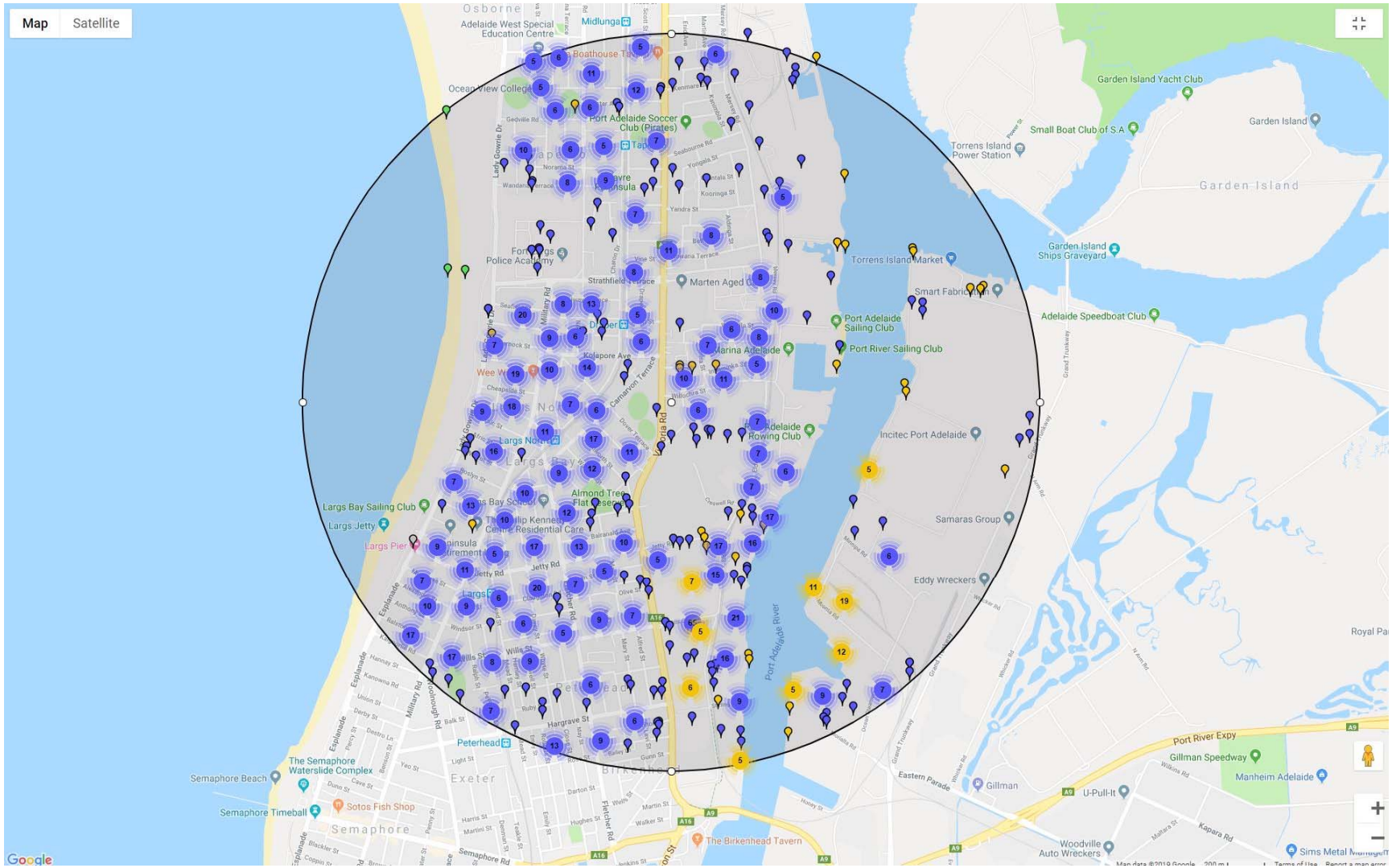


Notes: The blue icons represent 'Water Wells". The yellow icons represent 'Engineering Wells' which have been backfilled and decommissioned.

Groundwater Data Report 0.5km

DHNO	Unit_No	Unit_Numl	drillhole_class	Aquifer	Orig_drilled_depth	Orig_drilled_date	max_drill_depth	late_permit_no	cased_to	purpose	latest_status	swl	rswl	water_level_	TDS	EC	pH	yield	mga_easti	mga_north	mga_zone	long_degre	long_minu	long_secor	lat_degrees	lat_minutes	lat_seconds	decimal_long	decimal_lat	neg_decimal_l	hundred	plan	parcel	Title	map_250k	map_100k	map_50k	map_10k	map_2_5k	map_1k
27673	6528-545	6.53E+08	WW	Qhcks	5	1/06/1979	5	5826		DOM	OPR	3	1.86	1/06/1979	1468	2650	7.4	1	271081.8	6144076	54	138	29	49.577	34	49	11.534	138.4971048	34.8198706	-34.8198706	PORT ADEL	D426	A92	CT 5603 68	SI5409	6528	2	35	e	4
27762	6628-1980	6.63E+08	WW	Qhcks	6	30/06/1981	6	9709				3	1.38	30/06/1981				0.5	271348.7	6144493	54	138	30	0.485	34	48	58.225	138.5001347	34.8161735	-34.8161735	PORT ADEL	D9013	A10	CT 5548 92	SI5409	6628	3	31	h	1
27781	6528-653	6.53E+08	WW	Qhcks	6	26/02/1982	6	10251										0.5	271094.8	6144230	54	138	29	50.24	34	49	6.548	138.4972888	34.8184856	-34.8184856	PORT ADEL	D426	A180	CT 5721 48	SI5409	6528	2	35	e	3
27842	6528-714	6.53E+08	WW	Qhcks	6	1/12/1982	6	11334										0.5	271038.7	6144462	54	138	29	48.263	34	48	58.977	138.4967398	34.8163826	-34.8163826	PORT ADEL	D3096	A46	CT 5173 72	SI5409	6528	2	35	e	3
27880	6528-752	6.53E+08	WW	Qhcks	4.5	18/04/1983	4.5	12198	3.3			3	1.84	18/04/1983	827	1500	7.6	0.6	271170.7	6144124	54	138	29	53.123	34	49	10.047	138.4980898	34.8194576	-34.8194576	PORT ADEL	D426	A138	CT 5163 17	SI5409	6528	2	35	e	4
27886	6528-758	6.53E+08	WW	Qpah				92034							772	1400	7		271048.7	6144208	54	138	29	48.407	34	49	7.225	138.4967798	34.8186736	-34.8186736	PORT ADEL	D426	A183	CT 5265 10	SI5409	6528	2	35	e	3
27890	6528-762	6.53E+08	WW	Qhcks	4.5	18/04/1983	4.5	12056	3			2.1	2.07	18/04/1983	1295	2340	7.2	0.38	271329.8	6144610	54	138	29	59.855	34	48	54.412	138.4999597	34.8151145	-34.8151145	PORT ADEL	D2985	A15	CT 5708 76	SI5409	6528	2	35	e	3
27909	6528-781	6.53E+08	WW	Qhcks	3.6	19/09/1983	3.6	12753	2.4	DOM	OPR	2.1	2.77	19/09/1983	347	630	7.7	0.6	271108.8	6144057	54	138	29	50.621	34	49	12.171	138.4973948	34.8200476	-34.8200476	PORT ADEL	D426	A94	CT 5638 44	SI5409	6528	2	35	e	4
27955	6528-827	6.53E+08	WW	Qhcks	6	1/09/1983	6	13307		DOM	OPR				1457	2630	7.3		271284.7	6144552	54	138	29	58.026	34	48	56.259	138.4994517	34.8156275	-34.8156275	PORT ADEL	D2985	A18	CT 5141 63	SI5409	6528	2	35	e	3
27964	6528-836	6.53E+08	WW	Qhcks	6	1/12/1982	6	13709		DOM	OPR								271173.8	6144483	54	138	29	53.595	34	48	58.408	138.4982207	34.8162246	-34.8162246	PORT ADEL	D3096	A61	CT 5524 88	SI5409	6528	2	35	e	3
27974	6528-846	6.53E+08	WW	Qhcks	6	1/03/1984	6	14235		DOM	OPR								271171.7	6143960	54	138	29	53.001	34	49	15.368	138.4980558	34.8209356	-34.8209356	PORT ADEL	D426	A101	CT 5709 37	SI5409	6528	2	35	e	4
27987	6528-859	6.53E+08	WW	Qhcks	4	6/06/1984	4	14825							613	1112	7.6		271117.7	6144099	54	138	29	51.014	34	49	10.814	138.4975038	34.8196706	-34.8196706	PORT ADEL	D85531	A1	CT 6079 79	SI5409	6528	2	35	e	4
28008	6528-880	6.53E+08	WW	Qhcks	6	1/08/1984	6	12685		DOM	OPR				819	1486	7.6		271279.7	6144008	54	138	29	57.296	34	49	13.899	138.4992488	34.8205276	-34.8205276	PORT ADEL	D110234	A15	CT 6159 73	SI5409	6528	2	35	e	4
28032	6528-904	6.53E+08	WW	Qhcks	3.9	24/10/1984	3.9	15275	3	IRR	OPR	2.4	2.46	24/10/1984	630	1144	7.5	0.7	271075.7	6144124	54	138	29	49.387	34	49	9.972	138.4970518	34.8194366	-34.8194366	PORT ADEL	F5160	A54	CT 5862 38	SI5409	6528	2	35	e	4
28033	6528-905	6.53E+08	WW	Qhcks	3.9	24/10/1984	3.9	15276	3	IRR	OPR	2.4	2.48	24/10/1984	495	900	7.5	0.7	271061.7	6144115	54	138	29	48.829	34	49	10.253	138.4968968	34.8195146	-34.8195146	PORT ADEL	F5160	A53	CT 5692 20	SI5409	6528	2	35	e	4
28056	6528-928	6.53E+08	WW	Qhcks	6	7/01/1985	6	15792		DOM	OPR	3	1.24	7/01/1985	1636	2950	7.1	0.5	271306.7	6144569	54	138	29	58.908	34	48	55.726	138.4996967	34.8154795	-34.8154795	PORT ADEL	D2985	A19	CT 5793 64	SI5409	6528	2	35	e	3
28096	6528-968	6.53E+08	WW	Qhcks	4.2	7/03/1985	4.2	16106	3	DOM	OPR	2.7	1.37	7/03/1985	1239	2240	7.2	0.6	271321.8	6144660	54	138	29	59.589	34	48	52.785	138.4998857	34.8146625	-34.8146625	PORT ADEL	D2985	A12	CT 5105 9	SI5409	6528	2	35	e	3
28110	6528-982	6.53E+08	WW	Qhcks	6	28/03/1985	6	16388		DOM	OPR	4	0	28/03/1985	725	1315	7.5	0.5	271234.8	6144052	54	138	29	55.571	34	49	12.434	138.4987698	34.8201206	-34.8201206	PORT ADEL	D426	A144	CT 5704 80	SI5409	6528	2	35	e	4
28130	6528-1002	6.53E+08	WW	Qhcks	6	7/06/1985	6	16926		DOM	OPR	3	1.88	7/06/1985	921	1670	7.3	0.5	271104.7	6144033	54	138	29	50.438	34	49	12.945	138.4973438	34.8202626	-34.8202626	PORT ADEL	D426	A95	CT 5228 16	SI5409	6528	2	35	e	4
28165	6528-1037	6.53E+08	WW	Qhcks	3	1/10/1985	3	16231		DOM	OPR	1.8	1.2	1/10/1985	1765	3180	7.4	25	271245.8	6144367	54	138	29	56.313	34	49	2.228	138.4989758	34.8172856	-34.8172856	PORT ADEL	D9013	A2	CT 5548 89	SI5409	6528	2	35	e	3
28172	6528-1044	6.53E+08	WW	Qhcks	6	20/11/1985	6	17620	6	DOM	OPR	4	0.86	20/12/1985	1284	2320	7.3	0.5	271061.8	6144070	54	138	29	48.785	34	49	11.711	138.4968848	34.8199196	-34.8199196	PORT ADEL	D426	A91	CT 5465 67	SI5409	6528	2	35	e	4
28495	6528-1367	6.53E+08	WW	Qhcks	6	9/01/1990	6	23694	3.5	IRR	OPR	2	2.76	23/01/1990	1010	1829	8.2		271347.8	6143995	54	138	29	59.96	34	49	14.374	138.4999888	34.8206596	-34.8206596	PORT ADEL	D9013	A22	CT 5390 48	SI5409	6528	2	35	e	4
28510	6528-1382	6.53E+08	WW	Qhcks	7.62	12/10/1990	7.62	24431	7.62	DOM	OPR	3.05	1.43	12/10/1990	332	604	7.6		271104.7	6144451	54	138	29	50.848	34	48	59.388	138.4974578	34.8164966	-34.8164966	PORT ADEL	D3096	A54	CT 5836 62	SI5409	6528	2	35	e	3
28555	6528-1427	6.53E+08	WW	Qhcks	7.3	12/09/1991	7.3	26071		DOM	OPR	3	1.85	12/09/1991	1072	1940	7.3	0.87	271196.7	6144095	54	138	29	54.117	34	49	11.009	138.4983658	34.8197246	-34.8197246	PORT ADEL	D426	A140	CT 5137 77	SI5409	6528	2	35	e	4
28558	6528-1430	6.53E+08	WW	Qhcks	5	20/10/1991	5	26263		DOM	OPR	3.5	0.95	20/10/1991	1272	2300	7.2		271263.7	6144432	54	138	29	57.083	34	49	0.133	138.4991897	34.8167036	-34.8167036	PORT ADEL	D35002	A5	CT 5087 65	SI5409	6528	2	35	e	3
28630	6528-1502	6.53E+08	WW	Qhcks	5	24/01/1992	5	26805		DOM	OPR	3.5	1.29	4/03/1992	914	1656	8.4		271267.8	6143903	54	138	29	56.723	34	49	17.294	138.4990898	34.8214706	-34.8214706	PORT ADEL	D426	A110	CT 5797 14	SI5409	6528	2	35	e	4
51405	6628-4436	6.63E+08	ENG	Qpah	28.65	15/02/1965	28.65				UKN				2715	4861			271742.8	6144440	54	138	30	15.929	34	49	0.262	138.5044247	34.8167395	-34.8167395	PORT ADEL	D7964	A97	CT 5545 84	SI5409	6628	3	31	h	1
51406	6628-4437	6.63E+08	ENG	Qpah	18.29	19/02/1965	18.29				UKN				2830	5063			271611.8	6144432	54	138	30	10.77	34	49	0.413	138.5029917	34.8167815	-34.8167815	PORT ADELAIDE				SI5409	6628	3	31	h	1
51407	6628-4438	6.63E+08	ENG	Qpah	15.65	8/10/1970	15.65				UKN				28991	45028			271548.8	6144418	54	138	30	8.279	34	49	0.817	138.5022997	34.8168935	-34.8168935	PORT ADELAIDE				SI5409	6628	3	31	h	1
51408	6628-4439	6.63E+08	ENG	Qpah	15.7	9/10/1970	15.7				UKN								271547.8	6144433	54	138	30	8.254	34	49	0.331	138.5022927	34.8167585	-34.8167585	PORT ADEL	D71819	A73	CT 5973 34	SI5409	6628	3	31	h	1
59228	6628-1225	6.63E+08	WW	Qpah	4.2	16/04/1983	4.2	12638	3			2.7	-0.7	16/03/1983	838	1520	7.4	0.6	271687.7	6144599	54	138	30	13.92	34	48	55.06	138.5038667	34.8152945	-34.8152945	PORT ADEL	D7964	A26	CT 5554 87	SI5409	6628	3	31	h	1
59780	6628-1281	6.63E+08	WW	Qhcks	3.3	8/03/1984	3.3	13792	2.1	DOM	OPR	1.8	0.2	8/03/1984	1709	3080	7.5	0.6	271587.8	6144671	54	138	30	10.061	34	48	52.645	138.5027947	34.8146235	-34.8146235	PORT ADELAIDE				SI5409	6628	3	31	h	1
60057	6628-1308	6.63E+08	WW	Qpah	6	2/12/1984	6	15644		DOM	OPR				1036	1876	7.6		271783.7	6144416	54	138	30	17.516	34	49	1.072	138.5048657	34.8169645	-34.8169645	PORT ADEL	D7964	A104	CT 5545 85	SI5409	6628	3	31	h	1
60203	6628-1323	6.63E+08	WW	Qhcks	3.6	8/01/1985	3.6	15891	2.4			2.1	-0.1	8/01/1985	2284	4100	7.2	0.7	271740.7	6144679	54	138	30	16.084	34	48	52.508	138.5044676	34.8145855	-34.8145855	PORT ADEL	D7964	A34	CT 5393 11	SI5409	6628	3	31	h	1
62072	6628-1510	6.63E+08	WW	Qhcks	3.5	20/10/1989	3.5	23374		IRR	OPR	2	0	6/11/1989	1160	2100	7.8	0.6	271702.7	6144699	54	138	30	14.608	34	48	51.827	138.5040576	34.8143965	-34.8143965	PORT ADELAIDE				SI5409	6628	3	31	h	1
62646	6628-1567	6.63E+08	WW	Qhcks	5.8	5/11/1991	5.8	26398		DOM	OPR	2.3	2.01	5/11/1991	1446	2609	7.4	0.8	271790.7	6144505	54	138	30	17.88	34	48	58.192	138.5049667	34.8161645	-34.8161645	PORT ADEL	D7964	A83	CT 5545 29	SI5409	6628	3	31	h	1
132690	6528-1582	6.53E+08	WW	Qhcks	5.8	12/02/1993	5.8	28510		DOM		1.5	2.99	17/03/1993	517	940	7.7	0.89	271106.7	6144463	54	138	29	50.938	34	48	58.999	138.4974828	34.8163886	-34.8163886	PORT ADEL	D3096	A55	CT 5759 34	SI5409	6528	2	35	e	3
132764	6628-1629	6.63E+08	WW	Qhcks	5.3	15/02/1993	5.3	28876		DOM		1.8	2.41	17/03/1993	977	1770	7.4	0.89	271691.6	6144673	54	138	30	14.147	34	48	52.659	138.5039297	34.8146275	-34.8146275	PORT ADEL	D7964	A30	CT 5543 98	SI5409	6628	3	31	h	1
135655	6628-1642	6.63E+08	WW	Qhcks	5.2	24/06/1993	5.2	29052		DOM					1535	2770	7.7	0.8	271541.8	6144663	54	138	30	8.246	34	48	52.868	138.5022907	34.8146855	-34.8146855	PORT ADEL	D114875	A32	CT 6187 29	SI5409	6628	3	31	h	1
138720	6528-1649	6.53E+08	WW	Qhcks	6	18/11/1993	6	30323		DOM					2047	3680	7.1	0.9	271311.7	6144033	54	138	29	58.577	34	49	13.111	138.4996048	34.8203086	-34.8203086	PORT ADEL	D9013	A17	CT 5119 41	SI5409	6528	2	35	e	4
138727	6528-1656	6.53E+08	WW	Qhcks	6.7	22/12/1993	6.7	30744		DOM					865	1570	7.1	0.9	271056.7	6144388	54	138	29	48.897	34	49	1.389	138.4969158	34.8170526	-34.8170526	PORT ADEL	D117264	A101	CT 6201 93	SI5409	6528	2	35	e	3
142095	6528-1672	6.53E+08	WW	Qhcks	6	5/04/1994	6	31219		DOM					1166	2110	7.2	0.8	271056.8	6144353	54	138	29	48.868	34	49	2.531	138.4969078	34.8173696	-34.8173696	PORT ADELAIDE				SI5409	6528	2	35	e	3
145553	6528-1682	6.53E+08	WW	Qhcks	6.1	9/09/1994	6.1	32499		DOM					1306	2360	7	0.9	271231.6	6143918	54	138	29	55.316	34	49	16.779	138.4986988	34.8213276	-34.8213276	PORT ADEL	D426	A106	CT 5717 30	SI5409	6528	2	35	e	4
145670	6628-1982	6.63E+08	WW	Qhcks	6.7	29/09/1994	6.7	32615		DOM					2795	5000	7.6	0.9	271361.7	6144758	54	138	30	1.255	34	48	49.639	138.5003487	34.8137885	-34.8137885	PORT ADEL	D5411	A7	CT 5659 19	SI5409	6628	3	31	h	1
145744	6528-1705	6.53E+08	WW	Qhcks	5	28/01/1994	5	30378		DOM		3	1.84	28/01/1994	699	1270	7.3		271256.7	6144053	54	138	29	56.435	34	49	12.42	138.4990098	34.8201166	-34.8201166	PORT ADEL	D426	A145	CT 5171 21	SI5409	6528	2	35	e	4
149506	6528-1808	6.53E+08	WW	Qhcks	6.7	28/01/1995	6.7	33595		DOM					1244	2250	7.8	0.9	271086.8	6144218	54	138	29	49.916	34	49	6.93	138.4971988	34.8185916	-34.8185916	PORT ADEL	D426	A181	CT 5207 48	SI5409	6528	2	35	e	3
149531	6628-1713	6.63E+08	WW	Qpah	5.2	3/04/1995	5.2	34582		DOM					1558	2810	7.5	0.55	271871.7	6144438	54	138	30	20.998	34	49	0.428	138.5058327	34.8167855	-34.8167855	PORT ADEL	D7964	A109	CT 5545 85	SI5409	6628	3	31	h	1
149735	6528-1837	6.53E+08	WW	Qhcks	6.1	19/12/1994	6.1	33245		DOM					1770	3190	7.3	0.9	271291.9	6144568	54	138	29	58.325	34	48	55.748	138.4995347	34.8154855	-34.8154855	PORT ADEL	D2985	A18	CT 5141 63	SI5409	6528	2	35	e	3
153387	6628-1983	6.63E+08	WW	Qhcks	6	16/01/1996	6	36763	6	IRR					1423	2570	7.6	1	271426.8	6144198	54	138	30	3.268	34	49	7.858	138.5009078	34.8188496	-34.8188496	PORT ADEL	F30530	A1001	CT 5808 45	SI5409	6628	3	31	h	6
156135	6628-1782	6.63E+08	WW	Qpah	5.5	10/11/1995	5.5	36253		DOM					1244	2250	7.5	0.27	271821.8	6144418	54	138	30	19.018	34	49	1.04	138.5052827	34.8169555	-34.8169555	PORT ADEL	D7964	A107	CT 5280 10	SI5409	6628	3	31	h	1
159696	6528-1991	6.53E+08	WW	Qhcks	7	27/03/1996	7	37441		DOM					1049	1900	7.7	0.8	271101.8	6144098	54	138	29	50.387	34	49	10.839	138.4973298	34.8196776	-34.8196776	PORT ADEL	D426	A129	CT 5716 40	SI5409	6528	2	35	e	4
163070	6528-2026	6.53E+08	WW	Qhcks	7	3/12/1996	7	39222		DOM		3	1.88	3/12/1996	1356	2450		0.8	271156.9	6143998	54	138	29	52.457	34	49	14.119	138.4979048	34.8205886	-34.8205886	PORT ADEL	D426	A99	CT 5472 30	SI5409	6528	2	35	e	4
163075	6628-1823	6.63E+08	WW	Qpah	5.8	5/12/1996	5.8	39234		DOM		2.4	1.94	5/12/1996	1127	2040		0.4	271801.9	6144423	54	138	30	18.236	34	49	0.86	138.5050657	34.8169055	-34.8169055	PORT ADEL	D7964	A105	CT 5545 85	SI5409	6628	3	31	h	1
174107	6528-2102	6.53E+08	WW	Qhcks	6.1	19/12/1996	6.1	39644		DOM		2.4	2.39	19/12/1996	983	1780		0.75	271331.9	6144058	54	138	29	59.398	34	49	12.319	138.4998328	34.8200886	-34.8200886	PORT ADEL	D9013	A16	CT 5550 10	SI5409	6528	2	35	e	4
174109	6528-2104	6.53E+08	WW	Qhcks	6.4	8/01/1997	6.4	39655		DOM		2.4	2.11	8/01/1997	1066	1930		0.8	271121.9	6144508	54	138	29	51.579	34	48	57.555	138.4976607	34.8159876	-34.8159876	PORT ADEL	D56186	A581	CT 5845 66	SI5409	6528	2	35	e	3
174113	6528-2108	6.53E+08	WW	Qhcks	6	19/01/1997	6	39761		DOM		2.3	2.56	19/01/1997	1021	1850		0.8	271191.9	6143943	54	138	29	53.779	34	49	15.937	138.4982718	34.8210936	-34.8210936	PORT ADEL	D426	A103	CT 5694 76	SI5409	6528	2	35	e	4
175893	6528-2202	6.53E+08	WW	Qhcks	6.3	5/02/1999	6.3	47767		DOM		2.4	2.07	5/02/1999	1138	2060		0.81	271136.9	6144498	54	138	29	52.158	34	48	57.89	138.4978217	34.8160806	-34.8160806	PORT ADEL	D56186	A580	CT 5845 65	SI5409	6528	2	35	e	3
175910	6628-1955	6.63E+08	WW	Qhcks	5.8	6/02/1997	5.8	40043		DOM		2.4	1.92	6/02/1997	1233	2230		0.75	271776.9	6144498	54	138	30	17.329	34	48	58.408	138.5048137	34.8162245	-34.8162245	PORT ADEL	D7964	A84	CT 5392 77	SI5409	6628	3	31	h	1
176702	6528-2220	6.53E+08	WW	Qhcks	5.9	13/08/1997	5.9	42036		DOM		2.2	2.49	13/08/1997	1995	3590		0.64	271031.9	6144268	54	138	29	47.806	34	49	5.267	138.4966128	34.8181296	-34.8181296	PORT ADEL	D2290	A305	CT 5761 66	SI5409	6528	2	35	e	3
176728	6528-2246	6.53E+08	WW	Qhcks	6.6	31/03/1999	6.6	48422		DOM		2.9	1.77	31/03/1999	1199	2170		0.74	271086.9	6144233	54	138	29	49.934	34	49	6.444	138.4972038	34.8184566	-34.8184566	PORT ADEL	D426	A180	CT 5721 48	SI5409	6528	2	35	e	3
176731	6528-2249	6.53E+08	WW	Qhcks	6.3	19/05/1999	6.3	49425		DOM		2.2	2.57	19/05/1999	1575	2840		0.68	271321.9	6143968	54	138	29	58.916	34	49	15.228	138.4996988	34.8208966	-34.8208966	PORT ADEL	D9013	A20	CT 5550 13	SI5409	6528	2	35	e	4
177078	6528-2319	6.53E+08	WW	Qhcks	6	19/12/1997	6	43457		DOM		2.1	2.71	19/12/1997	1968	3540		0.75	271211.9	6143878	54	138	29	54.502	34	49	18.061	138.4984728	34.8216836	-34.8216836	PORT ADEL	D426	A70	CT 5072 39	SI5409	6528	2	35	e	4
177089	6528-2330	6.53E+08	WW	Qhcks	6.1	28/02/1998	6.1	44430		DOM		2.2	2.6	28/02/1998	1878	3380		0.71	271301.9	6144013	54	138	29	58.174	34	49	13.755	138.4994928	34.8204876	-34.8204876	PORT ADEL	D9013	A18	CT 5550 10	SI5409	6528	2	35	e	4
177118	6628-1971	6.63E+08	WW	Qhcks	5.5	16/02/1997	5.5	40094		DOM		1.8	2.44	16/02/1997	1895	3410		0.8	271636.9	6144643	54	138	30	11.965	34	48	53.591	138.5033237	34.8148865	-34.8148865	PORT ADEL	D8393	A15	CT 5339 37	SI5409	6628	3	31	h	1
177120	6628-1971	6.63E+08	WW	Qpah	5.5	26/06/1997	5.5	41708		DOM		1.8	2.41	26/06/1997	1957	3520		0.5	271806.9	6144648	54	138	30	18.654	34	48	53.566	138.5051816	34.8148795	-34.8148795	PORT ADEL	D7964	A51	CT 5740 28	SI5409	6628	3	31	h	1
179066	6528-2422	6.53E+08	WW	Qhcks	7.3	12/01/1997	7.3	39673		DOM		3.3	1.58	12/01/1997	1032	1870		0.8	271145.2	6144007	54	138	29	52.004	34	49	13.832	138.497779	34.820509	-34.820509	PORT ADEL	D426	A98	CT 5371 53	SI5409	6528	2	35	e	4
183000	6628-2038	6.63E+08	WW	Qhcks	10	25/01/1994	10	30766	6.5	INV		1.5	2.82	25/01/1994	2816	4850	7.5		271636.1	6144573	54	138	30	11.866	34	48	55.872	138.503296	34.81552	-34.81552	PORT ADEL	D69689	A9	CT 5954 56	SI5409	6628	3	31	h	1
184742	6628-2049	6.63E+08	WW	Qpah	5	3/03/2001	5	54876		DOM		3	1.32	3/03/2001	1373	2480			271809.2	6144443	54	138	30	18.544	34	49	0.228	138.505151	34.81673	-34.81673	PORT ADEL	D7964	A94	CT 5545 91	SI5409	6628	3	31	h	1
197648	6628-2136	6.63E+08	WW	Qhcks	5	4/03/2003	5	61203	1.5	INV		2.1	2.39	4/03/2003				0.01	271564.2	6144418	54	138	30	8.891	34	49	0.854	138.5024699	34.8169039	-34.8169039	PORT ADELAIDE				SI5409	6628	3	31	h	1
197649	6628-2136	6.63E+08	WW	Qhcks	5	4/03/2003	5	61204	1.5	INV		2.1	2.35	4/03/2003				0.01	271546.6	6144457	54	138	30	8.238	34	48	59.558	138.5022885	34.8165438	-34.8165438	PORT ADEL	D82872	A79	CT 6051 82	SI5409	6628	3	31	h	1
197650	6628-2136	6.63E+08	WW	Qhcks	5	4/03/2003	5	61205	1.5	INV		2.1	2.28	4/03/2003				0.01	271551	6144525	54	138	30	8.476	34	48	57.371	138.5023545	34.8159364	-34.8159364	PORT ADEL	D69689	A45	CT 5954 59	SI5409	6628	3	31	h	1
201587	6628-2187	6.63E+08	WW	Qhcks	5.5	21/09/2004	5.5	100058	2.5			3	1.37	21/09/2004					271521.5	6144530	54	138	30	7.323	34	48	57.181	138.5020341	34.8158837	-34.8158837	PORT ADELAIDE				SI5409	6628	3	31	h	1
201588	6628-2188	6.63E+08	WW	Qhcks	5	21/09/2004	5	100057	2			2.8	1.57	21/09/2004					271539.2	6144529	54	138	30	8.016	34	48	57.23	138.5022267	34.8158971	-34.8158971	PORT ADELAIDE				SI5409	6628	3	31	h	1
201589	6628-2188	6.63E+08	WW	Qhcks			5	100056	2			3	1.39	21/09/2004					271539.2	6144509	54	138	30	7.997	34	48	57.854	138.5022214	34.8160706	-34.8160706	PORT ADEL	D69689	A44	CT 5954 59	SI5409	6628	3	31	h	1
201590	6628-2188	6.63E+08	WW	Qhcks			5.5	100055	2.5	MON		3.4	0.99	21/09/2004					271520.8	6144509	54	138	30	7.275	34	48	57.869	138.5020207	34.8160747	-34.8160747	PORT ADELAIDE				SI5409	6628	3	31	h	1
219174	6628-2263	6.63E+08	WW	Qhcks	4.5	10/04/2006	4.5	116767	1.5	INV		3.1	1.36	10/04/2006					271592.2	6144433	54	138	30	10.008	34	49	0.362	138.5027799	34.8167674	-34.8167674	PORT ADEL	D69689	A75	CT 5954 62	SI5409	6628	3	31	h	1
219175	6628-2263	6.63E+08	WW	Qhcks	4.5	10/04/2006	4.5	116768	1.5	INV		2.91	1.54	10/04/2006					271545.3	6144461	54	138	30	8.188	34	48	59.436	138.5022745	34.81651	-34.81651	PORT ADEL	D82872	A79	CT 6051 82	SI5409	6628	3	31	h	1
219176	6628-2263	6.63E+08	WW	Qhcks	4	10/04/2006	4	116766	1	INV		2.25	2.22	10/04/2006					271501	6144448	54	138	30	6.437	34	48	59.816	138.501788	34.8166156	-34.8166156	PORT ADEL	S12521			SI5409	6628	3	31	h	1
236084	6628-2326	6.63E+08	WW	Qpah	4	6/11/2007	4	138298	1	INV		2.57	1.59	6/11/2007					271974.5	6144191	54	138	30	24.804	34	49	8.519	138.50689	34.819033	-34.819033	PORT ADEL	F4994	A12	CT 6098 82	SI5409	6628	3	31	h	6
236085	6628-2327	6.63E+08	WW	Qpah	4	6/11/2007	4	138297	1.5	INV		3.2	1.04	6/11/2007					271914.7	6144257	54	138	30	22.518	34	49	6.33	138.5062551	34.818425	-34.818425	PORT ADEL	F4994	A10	CT 5715 78	SI5409	6628	3	31	h	1
236086	6628-2327	6.63E+08	WW	Qpah	4	6/11/2007	4	138296	1	INV		2.87	1.4	6/11/2007					271887.9	6144291	54	138	30	21.499	34	49	5.209	138.505972	34.8181136	-34.8181136	PORT ADEL	F4994	A10	CT 5715 78	SI5409	6628	3	31	h	1
236087	6628-2327	6.63E+08	WW	Qpah	4	6/11/2007	4	138280	4	INV		2.63	1.68	6/11/2007					271846	6144364	54	138	30	19.921	34	49	2.832	138.5055337	34.8174534	-34.8174534	PORT ADEL	F4994	A10	CT 5715 78	SI5409	6628	3	31	h	1
236088	6628-2327	6.63E+08	WW	Qpah	4	7/11/2007	4	138279	1	INV		2.71	1.81	7/11/2007					271646.2	6144246	54	138	30	11.949	34	49	6.49	138.5033191	34.8184693	-34.8184693	PORT ADEL	F4994	A10	CT 5715 78	SI5409	6628	3	31	h	1
236089	6628-2327	6.63E+08	WW	Qpah	4	7/11/2007	4	138277	1	INV		2.75	1.88	7/11/2007					271509.8	6144055	54	138	30	6.395	34	49	12.57	138.5017764	34.8201583	-34.8201583	PORT ADEL	F4994	A16	CT 5431 30	SI5409	6628	3	31	h	6
236090	6628-2327	6.63E+08	WW	Qhcks	4	7/11/2007	4	138276	1	INV		2.63	2.04	7/11/2007					271455.4	6143993	54	138	30	4.194	34	49	14.551	138.5011651	34.8207086	-34.8207086	PORT ADEL	F4994	A16	CT 5431 30	SI5409	6628	3	31	h	6
236091	6628-2327	6.63E+08	WW	Qpah	4	7/11/2007	4	138274	1	INV		2.63	1.86	7/11/2007					271647.1	6144037	54	138	30	11.78	34	49	13.259	138.5032721	34.8203497	-34.8203497	PORT ADEL	F4994	A16	CT 5431 30	SI5409	6628	3	31	h	6
236092	6628-2327	6.63E+08	WW	Qpah	4	8/11/2007	4	138273	1	INV		2.63	1.68	8/11/2007					271813.9	6144068	54	138	30	18.37	34	49	12.382	138.5051027	34.820106	-34.820106	PORT ADEL	F4994	A12	CT 6098 82	SI5409	6628	3	31	h	6
236093	6628-2327	6.63E+08	WW	Qpah	4	8/11/2007	4	138269	0.5	INV		1.55	2.67	8/11/2007					271893.3	6144078	54	138	30	21.501	34	49	12.127	138.5059725	34.8200353	-34.8200353	PORT ADEL	F4994	A12	CT 6098 82	SI5409	6628	3	31	h	6
246953	6528-2682	6.53E+08	WW	Qhcks	6	2/11/2007	6	137539				3.5	1.24	2/11/2007	921	1670			271058.8	6144512	54	138	29	49.109	34	48	57.368	138.4969747	34.8159356	-34.8159356	PORT ADEL	C20079			SI5409	6528	2	35	e	3
257911	6628-2532	6.63E+08	WW	Qpah	4	17/02/2010	4	185660	1	INV		2.79		17/02/2010					271703	6144285	54	138	30	14.221	34	49	5.266	138.5039503	34.8181294	-34.8181294	PORT ADEL	F4994	A12	CT 6098 82	SI5409	6628	3	31	h	1
257912	6628-2532	6.63E+08	WW	Qhcks	4	16/02/2010	4	185661	1	INV		2.42		16/02/2010					271630.9	6144321	54	138	30	11.42	34	49	4.024	138.5031724	34.8177844	-34.8177844	PORT ADEL	F4994	A10	CT 5715 78	SI5409	6628	3	31	h	1
257913	6628-2532	6.63E+08	WW	Qpah	4	16/02/2010	4	184250	1	INV		2.21		16/02/2010					271702.7	6144343	54	138	30	14.265	34	49	3.397	138.5039624	34.8176102	-34.8176102	PORT ADEL	F4994	A10	CT 5715 78	SI5409	6628	3	31	h	1
257914	6628-2532	6.63E+08	WW	Qpah	4	17/02/2010	4	187251	1	INV		2.86		17/02/2010					271805.8	6144318	54	138	30	18.297	34	49	4.268	138.5050824	34.8178523	-34.8178523	PORT ADEL	F4994	A10	CT 5715 78	SI5409	6628	3	31	h	1
257915	6628-2532	6.63E+08	WW	Qpah	4	16/02/2010	4	187252	1	INV		2.12		16/02/2010					271838.1	6144382	54	138	30	19.628	34	49	2.214	138.5054523	34.8172816	-34.8172816	PORT ADELAIDE				SI5409	6628	3	31	h	1
257916	6628-2532	6.63E+08	WW	Qpah	4	16/02/2010	4	187254	0.3	INV									271912.5	6144396	54	138	30	22.569	34	49	1.845	138.5062691	34.8171792	-34.8171792	PORT ADEL	F4994	A10	CT 5715 78	SI5409	6628	3	31	h	1
257918	6628-2532	6.63E+08	WW	Qpah	4	17/02/2010	4	187256	0.5	INV		2.4		17/02/2010					271894.7	6144234	54	138	30	21.71	34	49	7.084	138.5060305	34.8186344	-34.8186344	PORT ADEL	F4994	A12	CT 6098 82	SI5409	6628	3	31	h	1
257919	6628-2532	6.63E+08	WW	Qpah	4	17/02/2010	4	187257	1	INV		2.78		17/02/2010					271899.1	6144290	54	138	30	21.935	34	49	5.259	138.506093	34.8181276	-34.8181276	PORT ADEL	F4994	A10	CT 5715 78	SI5409	6628	3	31	h	1
257920	6628-2533	6.63E+08	WW	Qpah	4	17/02/2010	4	187258	1	INV		2.53		17/02/2010					271995.1	6144228	54	138	30	25.652	34	49	7.352	138.5071256	34.818709	-34.818709	PORT ADEL	F4994	A12	CT 6098 82	SI5409	6628	3	31	h	1
257921	6628-2533	6.63E+08	WW	Qhcks	4	16/02/2010	4	187259	1	INV		2.09		16/02/2010					271622.2	6144250	54	138	30	11.008	34	49	6.323	138.5030576	34.8184231	-34.8184231	PORT ADEL	F4994	A10	CT 5715 78	SI5409	6628	3	31	h	1
264442	6528-2754	6.53E+08	WW	Qhcks	6	17/01/2010	6	194725	5			3		17/01/2010	1075	1946		0.5	271117.6	6144092	54	138	29	51.009	34	49	11.057	138.4975025	34.8197382	-34.8197382	PORT ADEL	D85531	A1	CT 6079 79	SI5409	6528	2	35	e	4
269464	6628-2633	6.63E+08	WW	Qpah	5	12/10/2011	5	206296	1	INV		2		12/10/2011					271657.7	6144150	54	138	30	12.3	34	49	9.6	138.5034167	34.8193333	-34.8193333	PORT ADEL	F4994	A16	CT 5431 30	SI5409	6628	3	31	h	6
269465	6628-2633	6.63E+08	WW	Qpah	5	12/10/2011	5	206297	1	INV		2		12/10/2011					271722.8	6144087	54	138	30	14.8	34	49	11.7	138.5041111	34.8199167	-34.8199167	PORT ADEL	F4994	A16	CT 5431 30	SI5409	6628	3	31	h	6
269466	6628-2633	6.63E+08	WW	Qpah	5	12/10/2011	5	206298	1	INV		2		12/10/2011					271683.6	6144129	54	138	30	13.3	34	49	10.3	138.5036944	34.8195278	-34.8195278	PORT ADEL	F4994	A16	CT 5431 30	SI5409	6628	3	31	h	6
269467	6628-2633	6.63E+08	WW	Qpah	5	12/10/2011	5	206299	1	INV		2		12/10/2011					271707.5	6144090	54	138	30	14.2	34	49	11.6	138.5039444	34.8198889	-34.8198889	PORT ADEL	F4994	A16	CT 5431 30	SI5409	6628	3	31	h	6
269468	6628-2633	6.63E+08	WW	Qpah	5	12/10/2011	5	206300	1	INV		2		12/10/2011					271628.5	6144097	54	138	30	11.1	34	49	11.3	138.5030833	34.8198056	-34.8198056	PORT ADEL	F4994	A16	CT 5431 30	SI5409	6628	3	31	h	6

Figure 2: Registered bore search 2 km



Notes: The blue icons represent 'Water Wells', whereas the yellow icons represent 'Engineering Wells' which have been backfilled and decommissioned.

Groundwater Data Report 2km

DHNO	Unit_No	Unit_Num	drillhole_c	Aquifer	Orig_drilled_depth	Orig_drilled_date	max_drill_depth	late_permit_no	cased_to	purpose	latest_status	swl	rswl	water_level_d	TDS	EC	pH	yield	mga_easting	mga_northing	mga_zone	long_degrees	long_minutes	long_seconds	lat_degrees	lat_minutes	lat_seconds	decimal_long	decimal_lat	neg_decimal_l	hundred	plan	parcel	Title	map_250k	map_100k	map_50k	map_10k	map_2_5k	map_1k
27150	6528-3	6.53E+08	PW	Tomw(T1)	92.96	1/12/1931	92.96			EXP	ABD	3.05	1.95	1/12/1931	1385	2502		1	270121.72	6143455.25	54	138	29	11.209	34	49	30.895	138.486447	34.8252487	-34.8252487	PORT ADELAIDE				SI5409	6528	2	35	m	2
27440	6528-312	6.53E+08	WW	Tomw(T1)	115.82	27/11/1968	143.26		130.15										270827.73	6145849.33	54	138	29	41.329	34	48	13.822	138.4948136	34.8038395	-34.8038395	PORT ADEL	D59587	A100	CT 5875 72	SI5409	6528	2	35	d	3
27441	6528-313	6.53E+08	WW	Tomw(T1)	101.8	31/08/1951	101.8	91530			BKF	2.13	2.21	31/08/1951	1642	2961		10.1	271075.7	6145301.3	54	138	29	50.542	34	48	31.797	138.4973726	34.8088325	-34.8088325	PORT ADEL	D16463	A35	CT 6148 34	SI5409	6528	2	35	d	4
27442	6528-314	6.53E+08	WW	Tomw(T1)	102.11	22/11/1934	102.11		0.91		NL	6.1	-1.1	22/11/1934	1727	3113		5.05	270758.78	6144945.29	54	138	29	37.729	34	48	43.087	138.4938137	34.8119686	-34.8119686	PORT ADEL	D88971	A200	CT 6095 84	SI5409	6528	2	35	d	4
27443	6528-315	6.53E+08	WW	Tomw(T1)	127.5	20/04/1972	127.5	229825		OBS	BKF			4/07/2003	2030	3650	7.4	5	270726.7	6145038.28	54	138	29	36.559	34	48	40.045	138.4934887	34.8111236	-34.8111236	PORT ADEL	D88971	A200	CT 6095 84	SI5409	6528	2	35	d	4
27444	6528-316	6.53E+08	WW	Qhcks			6.1		6.1	DOM	OPR	3.66	4.41	13/11/1967	645	1173	7		270632.78	6144240.28	54	138	29	32.081	34	49	5.85	138.4922449	34.8182916	-34.8182916	PORT ADEL	F4731	A170	CT 5450 57	SI5409	6528	2	35	e	3
27445	6528-317	6.53E+08	WW	Qhcks			3.66		3.66	IRRSTK	OPR	2.44	1.56	18/08/1969	830	1505	6.5	0.25	270899.77	6143882.33	54	138	29	42.23	34	49	17.676	138.4950639	34.8215766	-34.8215766	PORT ADEL	D82480	A182	CT 6053 66	SI5409	6528	2	35	e	4
27446	6528-318	6.53E+08	WW	Qhcks			6.1								471	856			270422.7	6143695.34	54	138	29	23.283	34	49	23.353	138.489801	34.8231537	-34.8231537	PORT ADEL	D1996	A73	CT 5407 42	SI5409	6528	2	35	e	5
27447	6528-319	6.53E+08	WW	Qhcks			8.23												270400.73	6143348.25	54	138	29	22.078	34	49	34.593	138.489466	34.8262757	-34.8262757	PORT ADEL	F4238	A17	CT 6094 98	SI5409	6528	2	35	m	2
27448	6528-320	6.53E+08	WW	Qhcks			3.35					2.44	2.56	31/10/1934	956	1733			270797.74	6143255.29	54	138	29	37.601	34	49	37.93	138.493778	34.8272027	-34.8272027	PORT ADEL	D2077	A40	CT 5271 23	SI5409	6528	2	35	m	3
27449	6528-321	6.53E+08	WW	Qhcks			2.74					2.13	1.87	26/02/1964	800	1451		0.19	270611.77	6143620.27	54	138	29	30.645	34	49	25.942	138.4918459	34.8238727	-34.8238727	PORT ADEL	D2790	A67	CT 5751 31	SI5409	6528	2	35	e	4
27450	6528-322	6.53E+08	WW	Qhcks			7.62		7.62	IRR	OPR	4.27	0.73	2/12/1968	1016	1840	6.8		270558.77	6143437.34	54	138	29	28.381	34	49	31.831	138.491217	34.8255087	-34.8255087	PORT ADEL	F4337	A100	CT 5150 23	SI5409	6528	2	35	m	2
27454	6528-326	6.53E+08	WW	Qhcks			6.4			DOM	OPR	1.85	3.15	9/11/1945	1113	2014			270202.72	6143141.26	54	138	29	14.086	34	49	41.145	138.4872461	34.8280958	-34.8280958	PORT ADEL	D341	A59	CT 5701 79	SI5409	6528	2	35	m	2
27456	6528-328	6.53E+08	WW	Qhcks			4.57					4.27	0.73	21/09/1934	4798	8472			270332.73	6142705.29	54	138	29	18.77	34	49	55.39	138.4885471	34.8320528	-34.8320528	PORT ADEL	H105800	S1098	CT 5932 85	SI5409	6528	2	35	m	5
27667	6528-539	6.53E+08	WW	Qpah		1/06/1979		5624							739	1340	7.6		271016.7	6143485.31	54	138	29	46.438	34	49	30.647	138.4962329	34.8251796	-34.8251796	PORT ADEL	D3186	A88	CT 5711 1	SI5409	6528	2	35	m	3
27668	6528-540	6.53E+08	WW	Qpah		1/06/1979		5502							1188	2150	7.5		271265.74	6145970.26	54	138	29	58.67	34	48	10.255	138.4996305	34.8028485	-34.8028485	PORT ADEL	D5464	A3	CT 5643 34	SI5409	6528	2	35	d	3
27673	6528-545	6.53E+08	WW	Qhcks	5	1/06/1979	5	5826		DOM	OPR	3	1.86	1/06/1979	1468	2650	7.4	1	271081.76	6144076.24	54	138	29	49.577	34	49	11.534	138.4971048	34.8198706	-34.8198706	PORT ADEL	D426	A92	CT 5603 68	SI5409	6528	2	35	e	4
27687	6528-559	6.53E+08	WW	Qhcks	6	1/01/1981	6	8130				3	3.9	1/01/1981	882	1600	7.5	0.5	270907.75	6145457.28	54	138	29	44.09	34	48	26.602	138.4955806	34.8073895	-34.8073895	PORT ADEL	D66756	A11	CT 5940 10	SI5409	6528	2	35	d	4
27688	6528-560	6.53E+08	WW	Qhcks	6	1/01/1981	6	7910				3	5.88	1/01/1981	932	1690	7.4	0.5	270815.71	6145462.31	54	138	29	40.476	34	48	26.365	138.4945766	34.8073236	-34.8073236	PORT ADEL	D112944	A50	CT 6176 21	SI5409	6528	2	35	d	4
27689	6528-561	6.53E+08	WW	Qhcks	6	1/01/1981	6	8157				3	5.25	1/01/1981	1160	2100	7.4	0.5	270874.75	6145565.35	54	138	29	42.899	34	48	23.071	138.4952496	34.8064085	-34.8064085	PORT ADEL	D116197	A1	CT 6194 74	SI5409	6528	2	35	d	4
27690	6528-562	6.53E+08	WW	Qhcks	6	1/01/1981	6	8363				3	6.17	1/01/1981	805	1460	7.1	0.5	270660.77	6145628.26	54	138	29	34.547	34	48	20.857	138.4929296	34.8057936	-34.8057936	PORT ADEL	D7557	A15	CT 5592 70	SI5409	6528	2	35	d	3
27691	6528-563	6.53E+08	WW	Qhcks	6	1/01/1981	6	8080				3	1.9	1/01/1981	916	1660	7.2	0.5	271091.76	6143965.27	54	138	29	49.862	34	49	15.141	138.4971838	34.8208726	-34.8208726	PORT ADEL	D426	A79	CT 5708 36	SI5409	6528	2	35	e	4
27692	6528-564	6.53E+08	WW	Qhcks	6	1/01/1981	6	8228				3	1.66	1/01/1981	950	1720	7.9	0.5	270765.72	6142859.33	54	138	29	35.952	34	49	50.746	138.49332	34.8307627	-34.8307627	PORT ADELAIDE				SI5409	6528	2	35	m	3
27693	6528-565	6.53E+08	WW	Qhcks	6	1/01/1981	6	8369				3	2	1/01/1981	938	1700	7.9	0.5	270400.78	6143379.33	54	138	29	22.11	34	49	33.585	138.489475	34.8259957	-34.8259957	PORT ADEL	F4238	A18	CT 5069 41	SI5409	6528	2	35	m	2
27694	6528-566	6.53E+08	WW	Qhcks	6	1/01/1981	6	7909				3	4.37	1/01/1981	1172	2120	7.5	0.5	270828.73	6144615.26	54	138	29	40.156	34	48	53.847	138.4944878	34.8149576	-34.8149576	PORT ADEL	D3735	A1	CT 5719 33	SI5409	6528	2	35	e	3
27702	6528-574	6.53E+08	WW	Qhcks	6	1/01/1981	6	8067				4	0	1/01/1981	761	1380	7.6	0.5	270589.73	6143195.25	54	138	29	29.36	34	49	39.708	138.491489	34.8276967	-34.8276967	PORT ADEL	F4279	A2	CT 5356 42	SI5409	6528	2	35	m	2
27703	6528-575	6.53E+08	WW	Qhcks	6	1/01/1981	6	8081				4	0	1/01/1981	716	1300	7.7	0.5	270583.73	6143241.28	54	138	29	29.17	34	49	38.211	138.491436	34.8272807	-34.8272807	PORT ADEL	F4279	A6	CT 5851 33	SI5409	6528	2	35	m	2
27706	6528-578	6.53E+08	WW	Qhcks	3.4	29/04/1981	3.4	91361	2			2	0	29/04/1981	683	1240	7.4	0.5	270709.73	6142902.33	54	138	29	33.792	34	49	49.306	138.49272	34.8303627	-34.8303627	PORT ADEL	F4704	A146	CT 5062 10	SI5409	6528	2	35	m	3
27707	6528-579	6.53E+08	WW	Qhcks	4	24/04/1981	4	8883				2.6	1.93	24/04/1981	1049	1900	7.3	0.46	270727.75	6143060.29	54	138	29	34.656	34	49	44.197	138.49296	34.8289437	-34.8289437	PORT ADEL	F25221	A37	CT 5387 84	SI5409	6528	2	35	m	3
27708	6528-580	6.53E+08	WW	Qhcks	6	1/06/1979	6	5793				4	1	1/06/1979	728	1320	7.5	1	270675.73	6145762.28	54	138	29	35.267	34	48	16.522	138.4931296	34.8045896	-34.8045896	PORT ADEL	D7557	A37	CT 5597 70	SI5409	6528	2	35	d	3
27711	6528-583	6.53E+08	WW	Qhcks	6	1/03/1981	6	8917				3	3.32	1/03/1981				0.5	270885.77	6144699.27	54	138	29	42.482	34	48	51.169	138.4951338	34.8142136	-34.8142136	PORT ADEL	D5493	A8	CT 5235 20	SI5409	6528	2	35	e	3
27712	6528-584	6.53E+08	WW	Qhcks	6	1/03/1981	6	8610				3	2.25	1/03/1981				0.5	270818.72	6144107.3	54	138	29	39.263	34	49	10.314	138.4942398	34.8195316	-34.8195316	PORT ADEL	F4784	A30	CT 5177 87	SI5409	6528	2	35	e	4
27717	6528-589	6.53E+08	WW	Qpah				5331							910	1650	7.6		270825.7	6144564.23	54	138	29	39.987	34	48	55.5	138.4944408	34.8154166	-34.8154166	PORT ADEL	F4802	A50	CT 5159 65	SI5409	6528	2	35	e	3
27718	6528-590	6.53E+08	WW	Qpah				5890							938	1700	7.1		271075.71	6143981.29	54	138	29	49.246	34	49	14.609	138.4970128	34.8207246	-34.8207246	PORT ADEL	D426	A81	CT 5715 51	SI5409	6528	2	35	e	4
27719	6528-591	6.53E+08	WW	Qpah				5965							1099	1990	7.5		271128.75	6144654.28	54	138	29	51.993	34	48	52.825	138.4977757	34.8146736	-34.8146736	PORT ADEL	D5377	A6	CT 5649 81	SI5409	6528	2	35	e	3
27722	6528-594	6.53E+08	WW	Qhcks	5.49	1/01/1981	5.49	8963	5.49			3.35	1.58	1/01/1981				0.69	271019.78	6146054.31	54	138	29	49.081	34	48	7.33	138.496967	34.802036	-34.802036	PORT ADEL	D116359	A812	CT 6195 91	SI5409	6528	2	35	d	3
27723	6528-595	6.53E+08	WW	Qpah		1/01/1980		7041											270714.75	6143770.25	54	138	29	34.843	34	49	21.161	138.4930119	34.8225447	-34.8225447	PORT ADEL	D2790	A31	CT 5246 79	SI5409	6528	2	35	e	4
27726	6528-598	6.53E+08	WW	Qhcks	6	1/01/1981	6	8432	6	OBS		3	6.46	1/01/1981	827	1500	7.5	0.5	270591.76	6144350.26	54	138	29	30.577	34	49	2.25	138.4918268	34.8172916	-34.8172916	PORT ADEL	D1092	A40	CT 5321 42	SI5409	6528	2	35	e	3
27727	6528-599	6.53E+08	WW	Qpah	6	1/01/1981	6	9396				3	1.43	1/01/1981				0.5	270909.76	6142410.27	54	138	29	41.176	34	50	5.427	138.4947711	34.8348407	-34.8348407	PORT ADEL	C26944			SI5409	6528	2	35	m	4
27730	6528-602	6.53E+08	WW	Qhcks	6	1/01/1981	6	8328				3	2.5	1/01/1981	938	1700	7.3	0.5	270819.76	6144135.29	54	138	29	39.332	34	49	9.407	138.4942588	34.8192796	-34.8192796	PORT ADEL	D2290	A220	CT 5469 67	SI5409	6528	2	35	e	4
27737	6528-609	6.53E+08	WW	Qhcks	3.5	17/09/1981	3.5	8983	2.7			2.4	2.56	17/09/1981	600	1090	7.4	0.5	270720.73	6143388.34	54	138	29	34.703	34	49	33.552	138.492973	34.8259867	-34.8259867	PORT ADEL	D2328	A5	CT 5158 92	SI5409	6528	2	35	m	3
27738	6528-610	6.53E+08	WW	Qhcks	3.9	18/09/1981	3.9	9366	2.7			2.4	2.58	18/09/1981	841	1526	7.5	0.5	270342.73	6142872.27	54	138	29	19.328	34	49	49.983	138.4887021	34.8305508	-34.8305508	PORT ADEL	F4203	A21	CT 5220 88	SI5409	6528	2	35	m	2
27740	6528-612	6.53E+08	WW	Qhcks	6	1/01/1980	6	7784				3	5.34	1/01/1980				0.5	270750.71	6144645.28	54	138	29	37.118	34	48	52.811	138.4936438	34.8146696	-34.8146696	PORT ADEL	D2331	A310	CT 5819 58	SI5409	6528	2	35	e	3
27744	6528-616	6.53E+08	WW	Qhcks	6	1/01/1980	6	7192				4	1.69	1/01/1980				0.5	270946.73	6144186.31	54	138	29	44.375	34	49	7.855	138.4956598	34.8188486	-34.8188486	PORT ADEL	D2290	A297	CT 5761 66	SI5409	6528	2	35	e	4
27758	6528-630	6.53E+08	WW	Qhcks	6	30/06/1981	6	9821				3	6.26	30/06/1981				0.5	270678.72	6144738.27	54	138	29	34.378	34	48	49.736	138.4928828	34.8138156	-34.8138156	PORT ADEL	D2401	A369	CT 5744 76	SI5409	6528	2	35	e	3
27761	6528-633	6.53E+08	WW	Qhcks	6	30/06/1981	6	9370				3	1.52	30/06/1981				0.5	271138.71	6143089.32	54	138	29	50.849	34	49	43.589	138.497458	34.8287746	-34.8287746	PORT ADEL	D87503	A1	CT 6085 69	SI5409	6528	2	35	m	3
27763	6528-635	6.53E+08	WW	Qhcks	6	30/06/1981	6	10087		DOM	OPR								271112.78	6145477.27	54	138	29	52.172	34	48	26.12	138.4978256	34.8072555	-34.8072555	PORT ADEL	D8235	A24	CT 5595 98	SI5409	6528	2	35	d	4
27773	6528-645	6.53E+08	WW	Tomw(T1)	175	24/06/1982	175	10538	147	OBS	OPR	8.89	-2.15	18/09/2018	2182	3920	7	4.5	270764	6145048	54	138	29	38.042	34	48	39.76	138.4939005	34.8110444	-34.8110444	PORT ADEL	D88971	A201	CT 6118 64	SI5409	6528	2	35	d	4
27776	6528-648	6.53E+08	WW	Qhcks	6	2/10/1982	6	9448				3	1.51	2/10/1982				0.5	270753.73	6142669.33	54	138	29	35.293	34	49	56.898	138.4931371	34.8324717	-34.8324717	PORT ADEL	F4425	A55	CT 5074 31	SI5409	6528	2	35	m	4
27777	6528-649	6.53E+08	WW	Qhcks	6	27/08/1982	6	10808										0.5	270540.71	6143994.33	54	138	29	28.219	34	49	13.752	138.4911719	34.8204867	-34.8204867	PORT ADEL	D2108	A54	CT 5415 57	SI5409	6528	2	35	e	5
27778	6528-650	6.53E+08	WW	Qhcks	6	27/08/1982	6	10807				0.5	6.03	27/08/1982					270834.72	6144445.25	54	138	29	40.224	34	48	59.366	138.4945068	34.8164906	-34.8164906	PORT ADEL	D2290	A200	CT 5208 54	SI5409	6528	2	35	e	3
27779	6528-651	6.53E+08	WW	Qhcks	6	30/07/1982	6	10681										0.5	270902.74	6144331.28	54	138	29	42.788	34	49	3.117	138.4952188	34.8175326	-34.8175326	PORT ADEL	D2290	A270	CT 5705 63	SI5409	6528	2	35	e	3
27781	6528-653	6.53E+08	WW	Qhcks	6	26/02/1982	6	10251										0.5	271094.75	6144230.3	54	138	29	50.24	34	49	6.548	138.4972888	34.8184856	-34.8184856	PORT ADEL	D426	A180	CT 5721 48	SI5409	6528	2	35	e	3
27782	6528-654	6.53E+08	WW	Qhcks	6	26/02/1982	6	10220										0.5	271019.78	6146054.31	54	138	29	49.081	34	48	7.33	138.496967	34.802036	-34.802036	PORT ADEL	D116359	A812	CT 6195 91	SI5409	6528	2	35	d	3
27788	6528-660	6.53E+08	WW	Qhcks	6	1/10/1982	6	11142										0.5	270285.77	6143724.32	54	138	29	17.927	34	49	22.302	138.488313	34.8228617	-34.8228617	PORT ADEL	F4667	A25	CT 5794 81	SI5409	6528	2	35	e	5
27789	6528-661	6.53E+08	WW	Qhcks	6	1/10/1982	6	11116										0.5	270640.69	6144842.33	54	138	29	32.985	34	48	46.331	138.4924958	34.8128696	-34.8128696	PORT ADEL	D2401	A341	CT 5671 45	SI5409	6528	2	35	e	3
27790	6528-662	6.53E+08	WW	Qhcks	6	1/10/1982	6	11117										0.5	270774.72	6143480.27	54	138	29	36.917	34	49	30.614	138.4935879	34.8251707	-34.8251707	PORT ADEL	D2328	A37	CT 5492 94	SI5409	6528	2	35	m	3
27791	6528-663	6.53E+08	WW	Qhcks	6	1/10/1982	6	11060										0.5	270626.77	6143697.34	54	138	29	31.311	34	49	23.454	138.4920309	34.8231817	-34.8231817	PORT ADEL	D63716	A100	CT 5914 79	SI5409	6528	2	35	e	4
27793	6528-665	6.53E+08	WW	Qhcks	6	1/10/1982	6	11062										0.5	270832.74	6143133.29	54	138	29	38.857	34	49	41.915	138.494127	34.8283097	-34.8283097	PORT ADEL	F25221	A86	CT 5400 56	SI5409	6528	2	35	m	3
27794	6528-666	6.53E+08	WW	Qhcks	6	1/10/1982	6	11063										0.5	270408.7	6143220.24	54	138	29	22.265	34	49	38.751	138.489518	34.8274307	-34.8274307	PORT ADEL	F4191	A29	CT 5108 54	SI5409	6528	2	35	m	2
27795	6528-667	6.53E+08	WW	Qhcks	6	1/10/1982	6	10987										0.5	270512.7	6143899.28	54	138	29	27.024	34	49	16.812	138.4908399	34.8213367	-34.8213367	PORT ADEL	D1996	A18	CT 5496 18	SI5409	6528	2	35	e	5
27801	6528-673	6.53E+08	WW	Qhcks	4.3	3/11/1982	4.3	11180	3.2			3.2	1.69	3/11/1982				0.6	271051.71	6144000.34	54	138	29	48.321	34	49	13.971	138.4967558	34.8205476	-34.8205476	PORT ADEL	D426	A83	CT 5704 81	SI5409	6528	2	35	e	4
27806	6528-678	6.53E+08	WW	Qhcks	4.4	24/01/1983	4.4	11877	3.1			2.9	1.79	24/01/1983	910	1650	7.4	0.6	270863.76	6143133.29	54	138	29	40.078	34	49	41.94	138.494466	34.8283167	-34.8283167	PORT ADEL	F25221	A85	CT 5402 94	SI5409	6528	2	35	m	3
27826	6528-698	6.53E+08	WW	Qhcks	6	1/12/1982	6	11569										0.5	270413.78	6143145.33	54	138	29	22.391	34	49	41.184	138.489553	34.8281067	-34.8281067	PORT ADEL	F4191	A42	CT 5108 67	SI5409	6528	2	35	m	2
27827	6528-699	6.53E+08	WW	Qhcks	6	1/01/1983	6	11568										0.5	270950.72	6145408.29	54	138	29	45.732	34	48	28.226	138.4960366	34.8078405	-34.8078405	PORT ADEL	D2986	A222	CT 5442 11	SI5409	6528	2	35	d	4
27828	6528-700	6.53E+08	WW	Qhcks	6	1/12/1982	6	11567										0.5	270897.69	6143167.32	54	138	29	41.446	34	49	40.864	138.494846	34.8280177	-34.8280177	PORT ADEL	F25221	A83	CT 5113 63	SI5409	6528	2	35	m	3
27830	6528-702	6.53E+08	WW	Qhcks	6	1/12/1982	6	11533										0.5	271032.77	6145576.29	54	138	29	49.123	34	48	22.844	138.4969786	34.8063455	-34.8063455	PORT ADEL	D2732	A54	CT 5557 32	SI5409	6528	2	35	d	4
27832	6528-704	6.53E+08	WW	Qhcks	6	1/12/1982	6	11477										0.5	270854.75	6145746.33	54	138	29	42.29	34	48	17.185	138.4950806	34.8047735	-34.8047735	PORT ADEL	D39026	A3	CT 5180 84	SI5409	6528	2	35	d	3
27833	6528-705	6.53E+08	WW	Qhcks	6	1/12/1982	6	11476										0.5	270598.75	6144272.29	54	138	29	30.775	34	49	4.784	138.4918819	34.8179956	-34.8179956	PORT ADEL	F44219	A5	CT 5893 50	SI5409	6528	2	35	e	3
27834	6528-706	6.53E+08	WW	Qhcks	6	1/12/1982	6	11475										0.5	270474.78	6144207.25	54	138	29	25.836	34	49	6.793	138.4905099	34.8185537	-34.8185537	PORT ADEL	D2108	A4	CT 5067 50	SI5409	6528	2	35	e	2
27836	6528-708	6.53E+08	WW	Qhcks	6	1/01/1983	6	11832										0.5	270548.77	6143793.29	54	138	29	28.338	34	49	20.279	138.4912049	34.8222997	-34.8222997	PORT ADEL	D1996	A44	CT 5422 73	SI5409	6528	2	35	e	5
27837	6528-709	6.53E+08	WW	Qhcks	6	1/01/1983	6	11828										0.5	270398.74	6142624.25	54	138	29	21.286	34	49	58.072	138.4892461	34.8327978	-34.8327978	PORT ADEL	F4424	A101	CT 5841 71	SI5409	6528	2	35	m	5
27838	6528-710	6.53E+08	WW	Qhcks	6	1/12/1982	6	11448										0.5	271022.76	6145977.3	54	138	29	49.123	34	48	9.83	138.4969785	34.8027305	-34.8027305	PORT ADEL	D7573	A86	CT 5595 53	SI5409	6528	2	35	d	3
27840	6528-712	6.53E+08	WW	Qhcks	6	1/01/1983	6	11714										0.5	270806.75	6144187.25	54	138	29	38.871	34	49	7.711	138.4941308	34.8188086	-34.8188086	PORT ADEL	D2290	A216	CT 5661 28	SI5409	6528	2	35	e	4
27841	6528-713	6.53E+08	WW	Qhcks	6	1/01/1983	6	11692										0.5	270116.76	6142985.26	54	138	29	10.551	34	49	46.134	138.4862641	34.8294818	-34.8294818	PORT ADEL	D341	A54	CT 5212 51	SI5409	6528	2	35	m	2
27842	6528-714	6.53E+08	WW	Qhcks	6	1/12/1982	6	11334										0.5	271038.7	6144462.33	54	138	29	48.263	34	48	58.977	138.4967398	34.8163826	-34.8163826	PORT ADEL	D3096	A46	CT 5173 72	SI5409	6528	2	35	e	3
27845	6528-717	6.53E+08	WW	Qhcks	6	1/12/1982	6	11263										0.5	271026.72	6145954.31	54	138	29	49.256	34	48	10.579	138.4970155	34.8029385	-34.8029385	PORT ADEL	D7573	A87	CT 5595 51	SI5409	6528	2	35	d	3
27846	6528-718	6.53E+08	WW	Qhcks	6	1/01/1983	6	11688										0.5	270230.76	6143096.23	54	138	29	15.144	34	49	42.628	138.4875401	34.8285078	-34.8285078	PORT ADEL	D341	A70	CT 5470 10	SI5409	6528	2	35	m	2
27848	6528-720	6.53E+08	WW	Qhcks	6	1/12/1982	6	11386										0.5	270944.78	6144440.34	54	138	29	44.548	34	48	59.615	138.4957078	34.8165596	-34.8165596	PORT ADEL	D2290	A257	CT 5662 98	SI5409	6528	2	35	e	3
27849	6528-721	6.53E+08	WW	Qhcks	6	1/12/1982	6	11385										0.5	271105.77	6143587.33	54	138	29	50.042	34	49	27.41	138.4972339	34.8242806	-34.8242806	PORT ADEL	D3186	A78	CT 5710 87	SI5409	6528	2	35	e	4
27851	6528-723	6.53E+08	WW	Qhcks	6	1/12/1982	6	11333										0.5	270918.72	6145641.26	54	138	29	44.702	34	48	20.644	138.4957506	34.8057345	-34.8057345	PORT ADEL	D48664	A104	CT 5508 57	SI5409	6528	2	35	d	3
27853	6528-725	6.53E+08	WW	Qhcks	6	1/12/1982	6	11258										0.5	270293.75	6142891.24	54	138	29	17.42	34	49	49.328	138.4881721	34.8303688	-34.8303688	PORT ADEL	F4203	A19	CT 5303 45	SI5409	6528	2	35	m	2
27854	6528-726	6.53E+08	WW	Qhcks	6	1/12/1982	6	11256										0.5	270560.72	6142851.31	54	138	29	27.881	34	49	50.839	138.4910781	34.8307887	-34.8307887	PORT ADEL	D429	A4	CT 5461 89	SI5409	6528	2	35	m	2
27855	6528-727	6.53E+08	WW	Qpah	6	1/11/1982	6	11208										0.5	271381.77	6142280.31	54	138	29	59.615	34	50	10.024	138.499893	34.8361177	-34.8361177	PORT ADEL	F4208	A35	CT 5393 73	SI5409	6528	2	35	m	4
27856	6528-728	6.53E+08	WW	Qhcks	6	1/11/1982	6	11207										0.5	271277.76	6144985.33	54	138	29	58.177	34	48	42.208	138.4994937	34.8117245	-34.8117245	PORT ADEL	D2789	A2	CT 5457 47	SI5409	6528	2	35	d	4
27857	6528-729	6.53E+08	WW	Qhcks	6	1/12/1982	6	11196										0.5	270872.7	6145768.31	54	138	29	43.017	34	48	16.486	138.4952826	34.8045795	-34.8045795	PORT ADEL	D57433	A52	CT 5854 60	SI5409	6528	2	35	d	3
27858	6528-730	6.53E+08	WW	Qhcks	6	1/12/1982	6	10986										0.5	271280.72	6145296.32	54	138	29	58.598	34	48	32.125	138.4996106	34.8089235	-34.8089235	PORT ADEL	D2789	A63	CT 5186 97	SI5409	6528	2	35	d	4
27865	6528-737	6.53E+08	WW	Qhcks	5.1	10/03/1983	5.1	11827	3.9			3.6	1.47	10/03/1983	761	1380	6.8	0.6	270829.77	6144061.35	54	138	29	39.653	34	49	11.813	138.494348	34.819948	-34.819948	PORT ADEL	F4784	A32	CT 5359 39	SI5409	6528	2	35	e	4
27866	6528-738	6.53E+08	WW	Qhcks	4.5	4/03/1983	4.5	12002	3.3			3	1.68	4/03/1983	484	880	7.1	0.6	270484.75	6143191.29	54	138	29	25.228	34	49	39.751	138.490341	34.8277087	-34.8277087	PORT ADEL	F4191	A35	CT 5334 62	SI5409	6528	2	35	m	2
27871	6528-743	6.53E+08	WW	Qhcks	3.6	16/03/1983	3.6	12356		DOM	OPR	2.1	2.68	16/03/1983	639	1160	7.6	0.6	270483.75	6142818.3	54	138	29	24.821	34	49	51.847	138.4902281	34.8310687	-34.8310687	PORT ADEL	F4703	A68	CT 5685 65	SI5409	6528	2	35	m	2
27873	6528-745	6.53E+08	WW	Qhcks	2.7	24/03/1983	2.7	12403				1.3	3.36	24/03/1983	1552	2800	7.4	0.6	270639.77	6142655.26	54	138	29	30.797	34	49	57.262	138.4918881	34.8325727	-34.8325727	PORT ADEL	F4424	A162	CT 5770 92	SI5409	6528	2	35	m	4
27880	6528-752	6.53E+08	WW	Qhcks	4.5	18/04/1983	4.5	12198	3.3			3	1.84	18/04/1983	827	1500	7.6	0.6	271170.72	6144124.3	54	138	29	53.123	34	49	10.047	138.4980898	34.8194576	-34.8194576	PORT ADEL	D426	A138	CT 5163 17	SI5409	6528	2	35	e	4
27883	6528-755	6.53E+08	WW	Qhcks	4.3	18/04/1983	4.3	12560	3.1			2.8	2.1	18/04/1983	994	1800	7.4	0.6	271079.77	6143910.24	54	138	29	49.336	34	49	16.916	138.4970378	34.8213656	-34.8213656	PORT ADEL	D426	A56	CT 5605 22	SI5409	6528	2	35	e	4
27884	6528-756	6.53E+08	WW	Qpah	3.5	18/04/1983	3.5	12544	2.3			2	2.25	18/04/1983	1608	2900	7.4	0.6	271306.76	6142726.33	54	138	29	57.102	34	49	55.498	138.499195	34.8320826	-34.8320826	PORT ADEL	D555	A80	CT 6187 19	SI5409	6528	2	35	m	4
27886	6528-758	6.53E+08	WW	Qpah				92034							772	1400	7		271048.71	6144208.28	54	138	29	48.407	34	49	7.225	138.4967798	34.8186736	-34.8186736	PORT ADEL	D426	A183	CT 5265 10	SI5409	6528	2	35	e	3
27887	6528-759	6.53E+08	WW	Qhcks	6.9	15/03/1983	6.9	12042				5.4	1.7	15/03/1983	860	1560	7.1	0.9	270818.77	6144369.26	54	138	29	39.523	34	49	1.818	138.4943118	34.8171716	-34.8171716	PORT ADEL	S3792			SI5409	6528	2	35	e	3
27889	6528-761	6.53E+08	WW	Qhcks	5	10/11/1982	5	11294							556	1010	7.2		271050.74	6144805.29	54	138	29	49.073	34	48	47.864	138.4969647	34.8132956	-34.8132956	PORT ADEL	D2533	A416	CT 5792 73	SI5409	6528	2	35	e	3
27890	6528-762	6.53E+08	WW	Qhcks	4.5	18/04/1983	4.5	12056	3			2.1	2.07	18/04/1983	1295	2340	7.2	0.38	271329.77	6144610.34	54	138	29	59.855	34	48	54.412	138.4999597	34.8151145	-34.8151145	PORT ADEL	D2985	A15	CT 5708 76	SI5409	6528	2	35	e	3
27892	6528-764	6.53E+08	WW	Qhcks	6	15/02/1982	6	10224	6			3	1.97	15/02/1982				0.5	271031.7	6146088.3	54	138	29	49.584	34	48	6.237	138.4971065	34.8017325	-34.8017325	PORT ADEL	D7573	A79	CT 5595 73	SI5409	6528	2	35	d	3
27894	6528-766	6.53E+08	WW	Qhcks	6	5/05/1983	6	12694		DOM	OPR	5	0.64	5/05/1983	1306	2360	7	0.6	270937.74	6144766.28	54	138	29	44.591	34	48	49.038	138.4957197	34.8136216	-34.8136216	PORT ADEL	D2533	A390	CT 5588 61	SI5409	6528	2	35	e	3
27896	6528-768	6.53E+08	WW	Qhcks	5	20/05/1983	5	12684	3			3	2.33	20/05/1983				1	271157.75	6145605.27	54	138	29	54.066	34	48	22.005	138.4983516	34.8061125	-34.8061125	PORT ADEL	D29917	A2	CT 5410 95	SI5409	6528	2	35	d	3
27897	6528-769	6.53E+08	WW	Qhcks			4	12840				3	0.61	15/07/1983	2397	4300	7.1	0.5	271298.74	6145091.31	54	138	29	59.106	34	48	38.788	138.4997516	34.8107745	-34.8107745	PORT ADEL	D2789	A26	CT 5729 94	SI5409	6528	2	35	d	4
27898	6528-770	6.53E+08	WW	Qhcks	4	1/01/1983	4	12516							705	1280	7.2		270657.72	6145761.28	54	138	29	34.557	34	48	16.54	138.4929326	34.8045946	-34.8045946	PORT ADEL	D7557	A36	CT 5597 66	SI5409	6528	2	35	d	3
27899	6528-771	6.53E+08	WW	Qhcks	3.6	20/07/1983	3.6	13029	2.5	DOM	OPR	2.2	-0.2	20/07/1983	2113	3799	7.1	0.6	271301.76	6145223.25	54	138	29	59.354	34	48	34.511	138.4998206	34.8095865	-34.8095865	PORT ADEL	D2789	A60	CT 5691 92	SI5409	6528	2	35	d	4
27903	6528-775	6.53E+08	WW	Qhcks	8	19/02/1983	8	12076	7.5										270535.74	6144189.24	54	138	29	28.215	34	49	7.427	138.4911709	34.8187297	-34.8187297	PORT ADEL	D2108	A9	CT 5726 34	SI5409	6528	2	35	e	2
27905	6528-777	6.53E+08	WW	Qhcks			6	10889											271276.71	6146055.34	54	138	29	59.185	34	48	7.504	138.4997735	34.8020845	-34.8020845	PORT ADEL	D3410	A35	CT 5369 15	SI5409	6528	2	35	d	3
27908	6528-780	6.53E+08	WW	Qhcks	4.5	21/09/1983	4.5	13315	3.3	DOM	OPR	3	1.95	21/09/1983	1216	2200	7.5	0.6	270600.77	6143244.25	54	138	29	29.843	34	49	38.128	138.491623	34.8272577	-34.8272577	PORT ADEL	F4279	A6	CT 5851 33	SI5409	6528	2	35	m	2
27909	6528-781	6.53E+08	WW	Qhcks	3.6	19/09/1983	3.6	12753	2.4	DOM	OPR	2.1	2.77	19/09/1983	347	630	7.7	0.6	271108.78	6144057.27	54	138	29	50.621	34	49	12.171	138.4973948	34.8200476	-34.8200476	PORT ADEL	D426	A94	CT 5638 44	SI5409	6528	2	35	e	4
27916	6528-788	6.53E+08	WW	Qhcks	6	27/10/1983	6	13304			ABD								270696.73	6145581.32	54	138	29	35.915	34	48	22.408	138.4933096	34.8062246	-34.8062246	PORT ADEL	D2413	A95	CT 5280 85	SI5409	6528	2	35	d	3
27919	6528-791	6.53E+08	WW	Qhcks	4.2	20/12/1983	4.2	13499	3	REC	OPR	2.7	2.09	20/12/1983				0.6	270946.71	6143667.27	54	138	29	43.864	34	49	24.689	138.4955179	34.8235246	-34.8235246	PORT ADEL	D3186	A48	CT 5716 47	SI5409	6528	2	35	e	4
27920	6528-792	6.53E+08	WW	Qhcks	4.5	14/12/1983	4.5	13568	3.3	DOM	OPR	3	2.19	14/12/1983	694	1260	6.7	0.6	270967.76	6144231.34	54	138	29	45.247	34	49	6.411	138.4959018	34.8184476	-34.8184476	PORT ADEL	D2290	A300	CT 5738 88	SI5409	6528	2	35	e	3
27921	6528-793	6.53E+08	WW	Qhcks	4.8	14/12/1983	4.8	13569	3.3	DOM	OPR	3.3	1.55	14/12/1983	902	1634	7.2	8.6	270970.7	6144498.26	54	138	29	45.624	34	48	57.757	138.4960068	34.8160436	-34.8160436	PORT ADEL	D37046	A1	CT 5135 93	SI5409	6528	2	35	e	3

27932	6528-804	6.53E+08	WW	Qhcks	5.1	20/03/1984	5.1	14202	3.9	IRR	OPR	3.6	1.4	20/03/1984	619	1124	7.6	0.6	270569.77	6143572.26	54	138	29	28.946	34	49	27.464	138.491374	34.8242957	-34.8242957	PORT ADEL	D2790	A66	CT 5817 62	SI5409	6528	2	35	e	5
27933	6528-805	6.53E+08	WW	Qhcks	4.2	25/03/1984	4.2	14402	3	IRR	OPR	2.7	1.97	25/03/1984	840	1524	7.6	0.6	271037.78	6144763.34	54	138	29	48.522	34	48	49.214	138.4968117	34.8136706	-34.8136706	PORT ADEL	D2533	A396	CT 5313 17	SI5409	6528	2	35	e	3
27936	6528-808	6.53E+08	WW	Qhcks	5.4	23/04/1984	5.4	14433	4.2	DOM	OPR	3.9	0.98	23/04/1984	542	985	7.7	0.6	270339.71	6143325.3	54	138	29	19.655	34	49	35.287	138.488793	34.8264687	-34.8264687	PORT ADEL	D343	A203	CT 5256 63	SI5409	6528	2	35	m	2
27937	6528-809	6.53E+08	WW	Qhcks	5	18/04/1984	5	14548	3.9	IRR	OPR	3.6	4.76	18/04/1984	1061	1920	7.5	0.6	270714.7	6144405.28	54	138	29	35.465	34	49	0.565	138.4931848	34.8168236	-34.8168236	PORT ADEL	F4731	A157	CT 5861 54	SI5409	6528	2	35	e	3
27938	6528-810	6.53E+08	WW	Qhcks	5.4	18/04/1984	5.4	14549	4.2	IRR	OPR	3.8	1.15	18/04/1984	927	1680	7.6	0.6	270478.77	6143269.28	54	138	29	25.069	34	49	37.217	138.490297	34.8270047	-34.8270047	PORT ADEL	D81778	A102	CT 6044 80	SI5409	6528	2	35	m	2
27939	6528-811	6.53E+08	WW	Qhcks	4.5	24/04/1984	4.5	14550	3.3	IRR	OPR	3	1.66	24/04/1984	1687	3040	7.4	0.6	271272.78	6143706.27	54	138	29	56.727	34	49	23.688	138.4990908	34.8232466	-34.8232466	PORT ADEL	S11189			SI5409	6528	2	35	e	4
27941	6528-813	6.53E+08	WW	Qhcks	3.9	26/04/1984	3.9	13955	2.7	DOM	OPR	2.4	1.5	26/04/1984	1351	2440	7.4	0.6	271304.74	6144755.24	54	138	29	59.012	34	48	49.693	138.4997257	34.8138035	-34.8138035	PORT ADEL	D5270	A19	CT 5751 77	SI5409	6528	2	35	e	3
27950	6528-822	6.53E+08	WW	Qhcks	6	1/02/1983	6	11916		DOM	OPR								270859.76	6145780.31	54	138	29	42.521	34	48	16.087	138.4951446	34.8044685	-34.8044685	PORT ADEL	D57433	A51	CT 5854 60	SI5409	6528	2	35	d	3
27953	6528-825	6.53E+08	WW	Qhcks	6	1/08/1983	6	13219		DOM	OPR								270870.71	6144166.31	54	138	29	41.366	34	49	8.442	138.4948238	34.8190116	-34.8190116	PORT ADEL	D2290	A231	CT 5804 19	SI5409	6528	2	35	e	4
27954	6528-826	6.53E+08	WW	Qhcks	6	1/10/1983	6	13305											271001.75	6143607.26	54	138	29	45.97	34	49	26.679	138.4961029	34.8240776	-34.8240776	PORT ADEL	D3186	A66	CT 5158 70	SI5409	6528	2	35	e	4
27955	6528-827	6.53E+08	WW	Qhcks	6	1/09/1983	6	13307		DOM	OPR				1457	2630	7.3		271284.72	6144552.28	54	138	29	58.026	34	48	56.259	138.4994517	34.8156275	-34.8156275	PORT ADEL	D2985	A18	CT 5141 63	SI5409	6528	2	35	e	3
27956	6528-828	6.53E+08	WW	Qhcks	6	1/10/1983	6	11570		DOM	OPR								270397.75	6143964.34	54	138	29	22.567	34	49	14.609	138.4896019	34.8207247	-34.8207247	PORT ADEL	D1996	A12	CT 5826 37	SI5409	6528	2	35	e	5
27957	6528-829	6.53E+08	WW	Qhcks	6	1/05/1983	6	12754		DOM	OPR								270900.72	6145654.24	54	138	29	44.007	34	48	20.209	138.4955576	34.8056135	-34.8056135	PORT ADEL	D48664	A104	CT 5508 57	SI5409	6528	2	35	d	3
27958	6528-830	6.53E+08	WW	Qhcks	6	1/10/1983	6	13433		DOM	OPR								270846.7	6142926.29	54	138	29	39.203	34	49	48.64	138.494223	34.8301777	-34.8301777	PORT ADEL	D2151	A1	CT 5887 97	SI5409	6528	2	35	m	3
27961	6528-833	6.53E+08	WW	Qhcks	6	11/05/1983	6	13539		DOM	OPR								270647.78	6144416.26	54	138	29	32.845	34	49	0.155	138.4924568	34.8167096	-34.8167096	PORT ADEL	D1092	A66	CT 5611 50	SI5409	6528	2	35	e	3
27962	6528-834	6.53E+08	WW	Qhcks	6	1/11/1983	6	13566		DOM	OPR								271228.74	6143655.33	54	138	29	54.945	34	49	25.304	138.4985959	34.8236956	-34.8236956	PORT ADEL	D3186	A134	CT 5713 34	SI5409	6528	2	35	e	4
27964	6528-836	6.53E+08	WW	Qhcks	6	1/12/1982	6	13709		DOM	OPR								271173.75	6144483.24	54	138	29	53.595	34	48	58.408	138.4982207	34.8162246	-34.8162246	PORT ADEL	D3096	A61	CT 5524 88	SI5409	6528	2	35	e	3
27969	6528-841	6.53E+08	WW	Qhcks	6	1/01/1984	6	13845		DOM	OPR								270834.72	6143460.34	54	138	29	39.257	34	49	31.309	138.4942379	34.8253637	-34.8253637	PORT ADEL	D2328	A32	CT 5714 49	SI5409	6528	2	35	m	3
27970	6528-842	6.53E+08	WW	Qhcks	6	1/01/1984	6	13887		DOM	OPR								271163.69	6143137.34	54	138	29	51.878	34	49	42.052	138.4977439	34.8283476	-34.8283476	PORT ADEL	D8207	A4	CT 5524 19	SI5409	6528	2	35	m	3
27973	6528-845	6.53E+08	WW	Qhcks	6	1/03/1984	6	14144		DOM	OPR								271097.78	6143614.32	54	138	29	49.754	34	49	26.528	138.4971539	34.8240356	-34.8240356	PORT ADEL	D111646	A592	CT 6168 41	SI5409	6528	2	35	e	4
27974	6528-846	6.53E+08	WW	Qhcks	6	1/03/1984	6	14235		DOM	OPR								271171.7	6143960.27	54	138	29	53.001	34	49	15.368	138.4980558	34.8209356	-34.8209356	PORT ADEL	D426	A101	CT 5709 37	SI5409	6528	2	35	e	4
27987	6528-859	6.53E+08	WW	Qhcks	4	6/06/1984	4	14825							613	1112	7.6		271117.7	6144099.34	54	138	29	51.014	34	49	10.814	138.4975038	34.8196706	-34.8196706	PORT ADEL	D85531	A1	CT 6079 79	SI5409	6528	2	35	e	4
27992	6528-864	6.53E+08	WW	Qhcks	6	7/01/1984	6	13164	5	IRR	OPR	4	0.94	7/01/1984	1317	2380	7.3	5	270336.78	6142989.33	54	138	29	19.209	34	49	46.181	138.4886691	34.8294947	-34.8294947	PORT ADEL	D341	A114	CT 5174 13	SI5409	6528	2	35	m	2
27994	6528-866	6.53E+08	WW	Qhcks	5	1/07/1984	5	12251											271242.7	6145910.3	54	138	29	57.705	34	48	12.181	138.4993625	34.8033835	-34.8033835	PORT ADEL	AIDE			SI5409	6528	2	35	d	3
27995	6528-867	6.53E+08	WW	Qhcks	4.5	15/08/1983	4.5	13152		IRR	OPR								271004.71	6144119.27	54	138	29	46.589	34	49	10.076	138.4962748	34.8194656	-34.8194656	PORT ADEL	D78625	A701	CT 6028 40	SI5409	6528	2	35	e	4
27999	6528-871	6.53E+08	WW	Qhcks	6	1/07/1984	6	14901							909	1648	7.5		270848.74	6142548.27	54	138	29	38.911	34	50	0.901	138.4941421	34.8335837	-34.8335837	PORT ADEL	F4425	A4	CT 5665 80	SI5409	6528	2	35	m	4
28000	6528-872	6.53E+08	WW	Qhcks	12	1/07/1984	12			DOM	OPR	10	1.58	1/07/1984	795	1442	7.5		270532.77	6144571.34	54	138	29	28.474	34	48	55.032	138.4912428	34.8152866	-34.8152866	PORT ADEL	D2331	A115	CT 6190 92	SI5409	6528	2	35	e	2
28004	6528-876	6.53E+08	WW	Qhcks	6	1/09/1984	6	15157		DOM	OPR				995	1802	7.6		270898.75	6144802.27	54	138	29	43.093	34	48	47.839	138.4953037	34.8132886	-34.8132886	PORT ADEL	D2533	A424	CT 5305 61	SI5409	6528	2	35	e	3
28006	6528-878	6.53E+08	WW	Qhcks	6	1/06/1984	6	14826		IRR	OPR				1362	2460	7.5		271093.74	6143574.26	54	138	29	49.556	34	49	27.824	138.4970989	34.8243956	-34.8243956	PORT ADEL	D3186	A77	CT 5731 84	SI5409	6528	2	35	e	4
28008	6528-880	6.53E+08	WW	Qhcks	6	1/08/1984	6	12685		DOM	OPR				819	1486	7.6		271279.71	6144008.25	54	138	29	57.296	34	49	13.899	138.4992488	34.8205276	-34.8205276	PORT ADEL	D110234	A15	CT 6159 73	SI5409	6528	2	35	e	4
28009	6528-881	6.53E+08	WW	Qhcks	5	1/07/1984	5	15044		DOM	OPR				1016	1840	7.6		270844.71	6142592.24	54	138	29	38.796	34	49	59.472	138.4941101	34.8331867	-34.8331867	PORT ADEL	F4425	A20	CT 5565 46	SI5409	6528	2	35	m	4
28020	6528-892	6.53E+08	WW	Qhcks	9	24/10/1984	9	15427		DOM	OPR	7	1.61	24/10/1984	325	590	7.9	0.3	270825.78	6145396.29	54	138	29	40.807	34	48	28.514	138.4946687	34.8079206	-34.8079206	PORT ADEL	D2986	A216	CT 5246 71	SI5409	6528	2	35	d	4
28028	6528-900	6.53E+08	WW	Qhcks	5.4	19/10/1984	5.4	15207	4.2	IRR	OPR	3.9	4.33	19/10/1984	1272	2300	7.5	0.7	270712.7	6144485.26	54	138	29	35.465	34	48	57.969	138.4931848	34.8161026	-34.8161026	PORT ADEL	D2331	A135	CT 5773 15	SI5409	6528	2	35	e	3
28031	6528-903	6.53E+08	WW	Qhcks	4.2	22/10/1984	4.2	15361	3	DOM	OPR	2.7	1.88	22/10/1984	912	1652	7.5	0.7	271052.76	6144735.3	54	138	29	49.084	34	48	50.136	138.4969677	34.8139266	-34.8139266	PORT ADEL	D2533	A397	CT 5733 26	SI5409	6528	2	35	e	3
28032	6528-904	6.53E+08	WW	Qhcks	3.9	24/10/1984	3.9	15275	3	IRR	OPR	2.4	2.46	24/10/1984	630	1144	7.5	0.7	271075.71	6144124.26	54	138	29	49.387	34	49	9.972	138.4970518	34.8194366	-34.8194366	PORT ADEL	F5160	A54	CT 5862 38	SI5409	6528	2	35	e	4
28033	6528-905	6.53E+08	WW	Qhcks	3.9	24/10/1984	3.9	15276	3	IRR	OPR	2.4	2.48	24/10/1984	495	900	7.5	0.7	271061.74	6144115.25	54	138	29	48.829	34	49	10.253	138.4968968	34.8195146	-34.8195146	PORT ADEL	F5160	A53	CT 5692 20	SI5409	6528	2	35	e	4
28036	6528-908	6.53E+08	WW	Qhcks	3.6	31/10/1984	3.6	15447	2.4	DOM	OPR	2.1	2.52	31/10/1984	1244	2250	7.6	0.7	271042.74	6143465.32	54	138	29	47.443	34	49	31.316	138.4965119	34.8253656	-34.8253656	PORT ADEL	D3186	A94	CT 5694 86	SI5409	6528	2	35	m	3
28037	6528-909	6.53E+08	WW	Qhcks	6	31/10/1984	6	15459		DOM	OPR	4	1.13	31/10/1984	865	1570	7.3	0.4	270967.74	6144789.34	54	138	29	45.793	34	48	48.314	138.4960537	34.8134206	-34.8134206	PORT ADEL	D2533	A420	CT 5700 60	SI5409	6528	2	35	e	3
28041	6528-913	6.53E+08	WW	Qhcks	6	11/11/1984	6	15614		DOM	OPR	3	1.73	11/11/1984	816	1480	7.1		271041.7	6143653.33	54	138	29	47.587	34	49	25.218	138.4965519	34.8236716	-34.8236716	PORT ADEL	D3186	A53	CT 5712 71	SI5409	6528	2	35	e	4
28042	6528-914	6.53E+08	WW	Qhcks	10.6	1/01/1984	10.6	15253	10.6	DOM	OPR	6.7	3.26	1/01/1984	1063	1924	8	0.5	270704.7	6145471.3	54	138	29	36.12	34	48	25.983	138.4933667	34.8072176	-34.8072176	PORT ADEL	D8248	A27	CT 5591 10	SI5409	6528	2	35	d	4
28044	6528-916	6.53E+08	WW	Qhcks	6	28/11/1984	6	15665		DOM	OPR	3	1.75	28/11/1984	905	1640	7.4	0.5	270835.74	6143192.3	54	138	29	39.034	34	49	40.003	138.494176	34.8277787	-34.8277787	PORT ADEL	F25221	A70	CT 5519 80	SI5409	6528	2	35	m	3
28047	6528-919	6.53E+08	WW	Qhcks	7	28/11/1984	7	15667		DOM	OPR	5	4.86	28/11/1984	770	1396	7.4	0.5	270596.72	6144419.31	54	138	29	30.839	34	49	0.014	138.4918998	34.8166706	-34.8166706	PORT ADEL	D1092	A65	CT 5154 51	SI5409	6528	2	35	e	3
28048	6528-920	6.53E+08	WW	Qhcks	6	28/11/1984	6	15668		DOM	OPR	3	1.61	28/11/1984	797	1446	7.3	0.5	271056.7	6143386.3	54	138	29	47.915	34	49	33.89	138.4966429	34.8260806	-34.8260806	PORT ADEL	F4477	A22	CT 5669 68	SI5409	6528	2	35	m	3
28050	6528-922	6.53E+08	WW	Qpah	4.5	10/12/1984	4.5	13766	4.5			1.5	2.59	10/12/1984	916	1660	7.9		271342.74	6142553.29	54	138	29	58.348	34	50	1.139	138.499541	34.8336497	-34.8336497	PORT ADEL	D597	A54	CT 5485 10	SI5409	6528	2	35	m	4
28052	6528-924	6.53E+08	WW	Qhcks	6	8/12/1984	6	15698		DOM	OPR				997	1806	7.2	0.5	271032.71	6145406.34	54	138	29	48.954	34	48	28.356	138.4969316	34.8078765	-34.8078765	PORT ADEL	D2732	A63	CT 5699 78	SI5409	6528	2	35	d	4
28053	6528-925	6.53E+08	WW	Qhcks	6	30/11/1984	6	15658		DOM	OPR				930	1686	7.2		270755.73	6145682.25	54	138	29	38.334	34	48	19.183	138.4939816	34.8053286	-34.8053286	PORT ADEL	D7557	A22	CT 5232 59	SI5409	6528	2	35	d	3
28056	6528-928	6.53E+08	WW	Qhcks	6	7/01/1985	6	15792		DOM	OPR	3	1.24	7/01/1985	1636	2950	7.1	0.5	271306.72	6144569.25	54	138	29	58.908	34	48	55.726	138.4996967	34.8154795	-34.8154795	PORT ADEL	D2985	A19	CT 5793 64	SI5409	6528	2	35	e	3
28057	6528-929	6.53E+08	WW	Qhcks	6	30/12/1984	6	15781		DOM	OPR	4	1.01	30/12/1984	846	1535	7.4	0.5	270447.72	6143811.3	54	138	29	24.381	34	49	19.613	138.4901059	34.8221147	-34.8221147	PORT ADEL	D1996	A39	CT 5768 47	SI5409	6528	2	35	e	5
28058	6528-930	6.53E+08	WW	Qhcks	7	30/12/1984	7	15777		DOM	OPR	5	1.98	30/12/1984	576	1048	7.4	0.5	270859.74	6144605.27	54	138	29	41.366	34	48	54.197	138.4948238	34.8150546	-34.8150546	PORT ADEL	D3735	A2	CT 5356 81	SI5409	6528	2	35	e	3
28059	6528-931	6.53E+08	WW	Qhcks	6	30/12/1984	6	15776		DOM	OPR				807	1464	7.4		271030.77	6145997.26	54	138	29	49.458	34	48	9.189	138.4970715	34.8025525	-34.8025525	PORT ADEL	D7573	A85	CT 5431 80	SI5409	6528	2	35	d	3
28063	6528-935	6.53E+08	WW	Qhcks	6	24/01/1985	6	15929		DOM	OPR	3	1.66	24/01/1985	1062	1923	7	0.5	271057.75	6143575.25	54	138	29	48.141	34	49	27.763	138.4967059	34.8243786	-34.8243786	PORT ADEL	D3186	A74	CT 5721 28	SI5409	6528	2	35	e	4
28064	6528-936	6.53E+08	WW	Qhcks	7	23/01/1985	7	15970				5	4.22	23/01/1985	1021	1850	7.3	0.5	270644.74	6144362.24	54	138	29	32.672	34	49	1.904	138.4924088	34.8171956	-34.8171956	PORT ADEL	D1092	A38	CT 5501 95	SI5409	6528	2	35	e	3
28065	6528-937	6.53E+08	WW	Qhcks	6	24/01/1985	6	15973		DOM	OPR	3	1.95	24/01/1985	1278	2310	7.1	0.5	270956.75	6143895.29	54	138	29	44.483	34	49	17.301	138.4956899	34.8214726	-34.8214726	PORT ADEL	D426	A7	CT 5251 23	SI5409	6528	2	35	e	4
28070	6528-942	6.53E+08	WW	Qhcks	4.5	27/12/1984	4.5	15231	4.5	IRR	OPR	2	2.93	27/12/1984	812	1472	7.5	1	270886.71	6143826.28	54	138	29	41.661	34	49	19.483	138.4949059	34.8220786	-34.8220786	PORT ADEL	D3186	A24	CT 5148 32	SI5409	6528	2	35	e	4
28072	6528-944	6.53E+08	WW	Qhcks	8	7/02/1985	8	16012		DOM	OPR	6	4.17	7/02/1985	671	1218	7.3	0.5	270693.77	6145542.29	54	138	29	35.76	34	48	23.672	138.4932667	34.8065756	-34.8065756	PORT ADEL	D2413	A97	CT 5696 27	SI5409	6528	2	35	d	4
28073	6528-945	6.53E+08	WW	Qhcks	6	7/01/1985	6	15963		DOM	OPR	3	1.89	7/01/1985	1143	2070	7.1	0.5	270747.77	6143617.34	54	138	29	35.991	34	49	26.147	138.4933309	34.8239297	-34.8239297	PORT ADEL	D2790	A40	CT 5221 74	SI5409	6528	2	35	e	4
28077	6528-949	6.53E+08	WW	Qhcks	6	15/02/1985	6	16100		DOM	OPR	3	2.39	15/02/1985	625	1134	7.3	0.5	270946.78	6144862.3	54	138	29	45.041	34	48	45.931	138.4958447	34.8127586	-34.8127586	PORT ADEL	D2533	A428	CT 5713 82	SI5409	6528	2	35	e	3
28078	6528-950	6.53E+08	WW	Qhcks	3.8	10/01/1985	3.8	15254	3.2	DOM	OPR	1.8	2.72	10/01/1985				0.43	270628.75	6143077.23	54	138	29	30.779	34	49	43.567	138.491883	34.8287687	-34.8287687	PORT ADEL	F25221	A53	CT 5400 75	SI5409	6528	2	35	m	3
28080	6528-952	6.53E+08	WW	Qhcks	6	20/02/1985	6	16218		DOM	OPR	4	1.79	20/02/1985	1418	2560	7.3	0.5	270921.74	6145740.35	54	138	29	44.918	34	48	17.433	138.4958106	34.8048425	-34.8048425	PORT ADEL	D31108	A2	CT 5415 99	SI5409	6528	2	35	d	3
28089	6528-961	6.53E+08	WW	Qhcks	4.5	15/01/1985	4.5	15680	3.3	DOM	OPR	3	1.88	15/01/1985	674	1224	7.4	0.7	271031.76	6143831.23	54	138	29	47.371	34	49	19.44	138.4964919	34.8220666	-34.8220666	PORT ADEL	D426	A13	CT 5105 90	SI5409	6528	2	35	e	4
28090	6528-962	6.53E+08	WW	Qhcks	4.5	19/12/1984	4.5	15631	3.3	DOM	OPR	3	1.82	19/12/1984	993	1798	7.2	0.7	270746.71	6143224.26	54	138	29	35.563	34	49	38.894	138.493212	34.8274707	-34.8274707	PORT ADEL	D2077	A51	CT 5786 76	SI5409	6528	2	35	m	3
28091	6528-963	6.53E+08	WW	Qhcks	3.3	19/12/1984	3.3	15569	2.1			1.8	2.61	19/12/1984	2295	4120	7.2	0.7	271100.73	6142741.27	54	138	29	49.013	34	49	54.846	138.496948	34.8319017	-34.8319017	PORT ADEL	F4426	A58	CT 5575 19	SI5409	6528	2	35	m	4
28093	6528-965	6.53E+08	WW	Qpah	4.2	22/01/1985	4.2	15372	3	IRR	OPR	2.7	1.71	22/01/1985	1452	2620	7.2	0.7	270939.7	6142446.32	54	138	29	42.389	34	50	4.282	138.4951081	34.8345227	-34.8345227	PORT ADEL	S11142			SI5409	6528	2	35	m	4
28094	6528-966	6.53E+08	WW	Qhcks	4.5	18/12/1984	4.5	15269	3.3	IRR	OPR	3	1.97	18/12/1984	1024	1855	7.5	0.7	270841.76	6146134.28	54	138	29	42.16	34	48	4.592	138.4950445	34.8012755	-34.8012755	PORT ADEL	D7573	A100	CT 5316 25	SI5409	6528	2	35	d	3
28095	6528-967	6.53E+08	WW	Qhcks	4.5	18/12/1984	4.5	15491	3.3	DOM	OPR	3	2.31	18/12/1984	520	945	7.5	0.7	270952.76	6144260.27	54	138	29	44.685	34	49	5.461	138.4957458	34.8181836	-34.8181836	PORT ADEL	D2290	A287	CT 5320 93	SI5409	6528	2	35	e	3
28096	6528-968	6.53E+08	WW	Qhcks	4.2	7/03/1985	4.2	16106	3	DOM	OPR	2.7	1.37	7/03/1985	1239	2240	7.2	0.6	271321.75	6144660.31	54	138	29	59.589	34	48	52.785	138.4998857	34.8146625	-34.8146625	PORT ADEL	D2985	A12	CT 5105 9	SI5409	6528	2	35	e	3
28097	6528-969	6.53E+08	WW	Qhcks	6.3	28/02/1985	6.3	16107	5.1	DOM	OPR	4.8	2.77	28/02/1985	1008	1825	7.4	0.6	270799.7	6144337.26	54	138	29	38.741	34	49	2.84	138.4940948	34.8174556	-34.8174556	PORT ADEL	D2290	A207	CT 5122 58	SI5409	6528	2	35	e	3
28098	6528-970	6.53E+08	WW	Qhcks	4.2	7/03/1985	4.2	16270	3	DOM	OPR	2.7	2.23	7/03/1985	935	1694	7.4	0.6	271137.73	6145989.27	54	138	29	53.655	34	48	9.535	138.4982375	34.8026485	-34.8026485	PORT ADEL	D54626	A9	CT 5798 40	SI5409	6528	2	35	d	3
28100	6528-972	6.53E+08	WW	Qhcks	6	18/03/1985	6	16174		DOM	OPR	4	0.46	18/03/1985	1070	1936	7.2	0.5	271117.75	6144607.27	54	138	29	51.514	34	48	54.34	138.4976427	34.8150946	-34.8150946	PORT ADEL	F4802	A85	CT 5650 55	SI5409	6528	2	35	e	3
28103	6528-975	6.53E+08	WW	Qhcks	6	18/03/1985	6	16391		DOM	OPR	4	0.95	18/03/1985	603	1096	7.5	0.5	271014.74	6144604.26	54	138	29	47.46	34	48	54.355	138.4965167	34.8150986	-34.8150986	PORT ADEL	D7132	A4	CT 5599 69	SI5409	6528	2	35	e	3
28104	6528-976	6.53E+08	WW	Qhcks	3.9	5/03/1985	3.9	16087	2.7	DOM	OPR	2.4	2.33	5/03/1985	1205	2180	7.5	0.6	270576.74	6142862.26	54	138	29	28.522	34	49	50.497	138.4912561	34.8306937	-34.8306937	PORT ADEL	D429	A3	CT 5087 44	SI5409	6528	2	35	m	2
28109	6528-981	6.53E+08	WW	Qhcks	6	28/03/1985	6	16465		DOM	OPR	4	0.9	28/03/1985	854	1550	7.2	0.5	270385.72	6142895.32	54	138	29	21.041	34	49	49.27	138.4891781	34.8303527	-34.8303527	PORT ADEL	F4203	A23	CT 5839 81	SI5409	6528	2	35	m	2
28110	6528-982	6.53E+08	WW	Qhcks	6	28/03/1985	6	16388		DOM	OPR	4	0	28/03/1985	725	1315	7.5	0.5	271234.76	6144052.31	54	138	29	55.571	34	49	12.434	138.4987698	34.8201206	-34.8201206	PORT ADEL	D426	A144	CT 5704 80	SI5409	6528	2	35	e	4
28115	6528-987	6.53E+08	WW	Qhcks	6	18/04/1984	6	16350		DOM	OPR	4	0.91	18/04/1984	332	603	7.7	0.5	270773.76	6143544.29	54	138	29	36.942	34	49	28.537	138.4935949	34.8245937	-34.8245937	PORT ADEL	D2328	A40	CT 5191 25	SI5409	6528	2	35	e	4
28120	6528-992	6.53E+08	WW	Qhcks	7.8	22/04/1985	7.8	16136	6.6	DOM	OPR	6.3	2.35	22/04/1985	801	1452	7.6	0.6	270725.69	6144734.34	54	138	29	36.221	34	48	49.902	138.4933948	34.8138616	-34.8138616	PORT ADEL	D2401	A366	CT 5671 44	SI5409	6528	2	35	e	3
28122	6528-994	6.53E+08	WW	Qhcks	8	1/04/1985	8	16610	8	DOM	OPR				742	1346	8.1		270486.74	6144245.29	54	138	29	26.343	34	49	5.569	138.4906509	34.8182137	-34.8182137	PORT ADEL	F4707	A226	CT 5826 35	SI5409	6528	2	35	e	2
28123	6528-995	6.53E+08	WW	Qhcks	3.6	24/04/1985	3.6	16608		DOM	OPR	2.1	2.26	24/04/1985	772	1400	7.5	0.8	270923.73	6142642.28	54	138	29	41.953	34	49	57.913	138.494987	34.8327537	-34.8327537	PORT ADEL	D596	A77	CT 5668 38	SI5409	6528	2	35	m	4
28127	6528-999	6.53E+08	WW	Qpah	6	5/05/1985	6	16717		DOM	OPR	4	0.17	5/05/1985	991	1794	7.4	0.5	271161.76	6142441.32	54	138	29	51.119	34	50	4.624	138.497533	34.8346177	-34.8346177	PORT ADEL	D336	A32	CT 5423 17	SI5409	6528	2	35	m	4
28130	6528-1002	6.53E+08	WW	Qhcks	6	7/06/1985	6	16926		DOM	OPR	3	1.88	7/06/1985	921	1670	7.3	0.5	271104.71	6144033.3	54	138	29	50.438	34	49	12.945	138.4973438	34.8202626	-34.8202626	PORT ADEL	D426	A95	CT 5228 16	SI5409	6528	2	35	e	4
28133	6528-1005	6.53E+08	WW	Qpah	6	28/05/1985	6	16876				3	1.34	28/05/1985	828	1502	7.3	0.5	271015.72	6142462.31	54	138	29	45.395	34	50	3.824	138.4959431	34.8343957	-34.8343957	PORT ADEL	D14422	A1	CT 5747 40	SI5409	6528	2	35	m	4
28135	6528-1007	6.53E+08	WW	Qhcks	6	20/05/1985	6	16867				4	-1	20/05/1985	994	1800	7.3	0.5	271261.75	6143517.3	54	138	29	56.108	34	49	29.808	138.4989189	34.8249466	-34.8249466	PORT ADEL	D3186	A108	CT 5716 83	SI5409	6528	2	35	e	4
28138	6528-1010	6.53E+08	WW	Qhcks	6	15/07/1985	6	17016		DOM	OPR	3	0.9	29/07/1985	1541	2780	7.4	0.5	271182.75	6144889.28	54	138	29	54.347	34	48	45.247	138.4984297	34.8125685	-34.8125685	PORT ADEL	D2533	A445	CT 5707 74	SI5409	6528	2	35	e	3
28139	6528-1011	6.53E+08	WW	Qpah	6	15/07/1985	6	17015		DOM	OPR	3	-1	29/07/1985	1362	2460	7.5	0.5	271317.74	6142572.31	54	138	29	57.383	34	50	0.502	138.499273	34.8334727	-34.8334727	PORT ADEL	F27842	A133	CT 5872 83	SI5409	6528	2	35	m	4
28144	6528-1016	6.53E+08	WW	Qhcks	6	8/09/1985	6	17159		DOM	OPR	3	1.63	11/09/1985	1479	2670	7.3	0.5	271289.78	6143674.28	54	138	29	57.364	34	49	24.739	138.4992679	34.8235386	-34.8235386	PORT ADEL	D3186	A159	CT 5151 82	SI5409	6528	2	35	e	4
28145	6528-1017	6.53E+08	WW	Qhcks	4.2	15/08/1985	4.2	17010	3	IRR	OPR	2.7	2.1	4/09/1985	874	1586	7.2	0.9	270517.69	6142921.27	54	138	29	26.257	34	49	48.535	138.4906271	34.8301487	-34.8301487	PORT ADEL	D341	A168	CT 5788 31	SI5409	6528	2	35	m	2
28146	6528-1018	6.53E+08	WW	Qhcks	6	5/08/1985	6	16956		DOM	OPR	3	2	4/09/1985	558	1014	7.5	0.5	270248.71	6143468.31	54	138	29	16.217	34	49	30.575	138.487838	34.8251597	-34.8251597	PORT ADEL	D1195	A240	CT 5351 83	SI5409	6528	2	35	m	2
28155	6528-1027	6.53E+08	WW	Qhcks	8	8/10/1985	8	17351				7	-2	25/10/1985	578	1050	7.5	0.5	270273.74	6143649.32	54	138	29	17.38	34	49	24.725	138.488161	34.8235347	-34.8235347	PORT ADEL	S13159			SI5409	6528	2	35	e	5
28156	6528-1028	6.53E+08	WW	Qhcks	6	8/10/1985	6	17380				3	0.64	25/10/1985	2171	3900	7.3	0.5	271314.77	6145017.34	54	138	29	59.664	34	48	41.2	138.4999066	34.8114445	-34.8114445	PORT ADEL	D2789	A20	CT 5709 78	SI5409	6528	2	35	d	4
28160	6528-1032	6.53E+08	WW	Qhcks	6	29/10/1985	6	17546		DOM	OPR	3	2	29/10/1985	404	734	7.3	0.5	270223.78	6143473.24	54	138	29	15.241	34	49	30.395	138.487567	34.8251097	-34.8251097	PORT ADEL	D1195	A241	CT 5192 60	SI5409	6528	2	35	m	2
28161	6528-1033	6.53E+08	WW	Qhcks	6	27/10/1985	6	17544		DOM	OPR	3	2	27/10/1985	836	1516	7	0.5	270383.73	6143643.31	54	138	29	21.699	34	49	25.009	138.489361	34.8236137	-34.8236137	PORT ADEL	D1195	A291	CT 5583 63	SI5409	6528	2	35	e	5
28163	6528-1035	6.53E+08	WW	Qhcks	6	27/10/1985	6	17459		DOM	OPR	3	2	27/10/1985	751	1362	8.2	0.5	270339.76	6143429.3	54	138	29	19.759	34	49	31.914	138.488822	34.8255317	-34.8255317	PORT ADEL	D1195	A235	CT 5726 82	SI5409	6528	2	35	m	2
28164	6528-1036	6.53E+08	WW	Qhcks	6	28/10/1985	6	17512		DOM	OPR	3	1.49	5/11/1985	1468	2650	7.3	0.5	270961.74	6142864.34	54	138	29	43.667	34	49	50.742	138.495463	34.8307617	-34.8307617	PORT ADEL	D2151	A27	CT 5666 27	SI5409	6528	2	35	m	3
28165	6528-1037	6.53E+08	WW	Qhcks	3	1/10/1985	3	16231		DOM	OPR	1.8	1.2	1/10/1985	1765	3180	7.4	25	271245.76	6144367.27	54	138	29	56.313	34	49	2.228	138.4989758	34.8172856	-34.8172856	PORT ADEL	D9013	A2	CT 5548 89	SI5409	6528	2	35	e	3
28172	6528-1044	6.53E+08	WW	Qhcks	6	20/11/1985	6	17620	6	DOM	OPR	4	0.86	20/12/1985	1284	2320	7.3	0.5	271061.77	6144070.3	54	138	29	48.785	34	49	11.711	138.4968848	34.8199196	-34.8199196	PORT ADEL	D426	A91	CT 5465 67	SI5409	6528	2	35	e	4
28175	6528-1047	6.53E+08	WW	Qhcks	6	21/11/1985	6	17669	6	DOM	OPR	4	1	29/11/1985	547	995	7.4	0.5	270092.77	6143091.33	54	138	29	9.712	34	49	42.675	138.4860311	34.8285208	-34.8285208	PORT ADEL	S6378			SI5409	6528	2	35	m	2
28177	6528-1049	6.53E+08	WW	Qhcks	6	23/11/1985	6	17684	6	DOM	OPR	4	0.99	29/11/1985	765	1388	7.6	0.5	270386.77	6143741.28	54	138	29	21.915	34	49	21.834	138.489421	34.8227317	-34.8227317	PORT ADEL	D1996	A59	CT 5169 58	SI5409	6528	2	35	e	5
28178	6528-1050	6.53E+08	WW	Qhcks	6	25/11/1985	6	17518	6	DOM	OPR	4	0.71	2/12/1985	824	1494	7.3	0.5	270520.69	6144077.31	54	138	29	27.513	34	49	11.045	138.4909759	34.8197347	-34.8197347	PORT ADEL	D2108	A41	CT 5813 41	SI5409	6528	2	35	e	5
28181	6528-1053	6.53E+08	WW	Qhcks	4	12/11/1985	4	17631	4	IRR	OPR	2.4	2.36	26/11/1985	622	1130	7.6	0.6	270912.75	6143601.27	54	138	29	42.464	34	49	26.802	138.4951289	34.8241116	-34.8241116	PORT ADEL	D3186	A12	CT 5819 94	SI5409	6528	2	35	e	4
28182	6528-1054	6.53E+08	WW	Qhcks	4.3	12/11/1985	4.3	17629	4.3	IRR	OPR	2.7	2.22	26/11/1985	750	1360	7.6	0.6	271003.78	6143973.28	54	138	29	46.409	34	49	14.81	138.4962248	34.8207806	-34.8207806	PORT ADEL	D426	A49	CT 5809 42	SI5409	6528	2	35	e	4
28185	6528-1057	6.53E+08	WW	Qhcks	6	13/12/1985	6	17737	6	DOM	OPR	4	2.86	7/01/1986	969	1755	7.2	0.5	270661.73	6144129.34	54	138	29	33.111	34	49	9.472	138.4925309	34.8192976	-34.8192976	PORT ADEL	D2108	A18	CT 5551 40	SI5409	6528	2	35	e	4
28186	6528-1058	6.53E+08	WW	Qhcks	6	12/12/1985	6	17726	6	DOM	OPR	4	1.02	7/01/1986	430	782	7.4	0.5	270267.74	6143242.24	54	138	29	16.743	34	49	37.923	138.487984	34.8272007	-34.8272007	PORT ADEL	D343	A177	CT 5786 33	SI5409	6528	2	35	m	2
28187	6528-1059	6.53E+08	WW	Qhcks	6	1/12/1985	6	16999	6	DOM	OPR	4	2.26	7/01/1986	952	1724	7.3	0.5	270897.71	6144569.25	54	138	29	42.824	34	48	55.395	138.4952288	34.8153876	-34.8153876	PORT ADEL	C25618			SI5409	6528	2	35	e	3
28188	6528-1060	6.53E+08	WW	Qhcks	13	12/12/1985	13	17686	13	DOM	OPR	11	-0.1	7/01/1986	999	1810	7.5	0.5	270572.71	6144826.31	54	138	29	30.296	34	48	46.795	138.4917488	34.8129986	-34.8129986	PORT ADEL	F4957	A52	CT 5116 81	SI5409	6528	2	35	e	3
28193	6528-1065	6.53E+08	WW	Qhcks	6	23/12/1985	6	17780	6	DOM	OPR	4	0.83	16/01/1986	1117	2022	7.3	0.5	271154.78	6146098.25	54	138	29	54.433	34	48	6.014	138.4984535	34.8016705	-34.8016705	PORT ADEL	D81257	A515	CT 6038 24	SI5409	6528	2	35	d	3
28196	6528-1068	6.53E+08	WW	Qhcks	6	1/01/1985	6	15813	6	DOM	OPR	4	1	1/01/1985	1412	2550	7.1	0.5	270062.72	6143074.26	54	138	29	8.513	34	49	43.204	138.4856981	34.8286678	-34.8286678	PORT ADEL	D341	A29	CT 5782 79	SI5409	6528	2	35	m	2
28198	6528-1070	6.53E+08	WW	Qhcks	6	1/02/1986	6	17896	6	DOM	OPR	4	0.67	25/02/1986	1154	2090	7.3	0.5	270784.73	6142897.32	54	138	29	36.737	34	49	49.529	138.493538	34.8304247	-34.8304247	PORT ADEL	F4704	A169	CT 5677 79	SI5409	6528	2	35	m	3
28199	6528-1071	6.53E+08	WW	Qhcks	6	1/02/1986	6	17929	6	DOM	OPR	4	0	25/02/1986	812	1472	7.3	0.5	270612.75	6143303.27	54	138	29	30.372	34	49	36.223	138.49177	34.8267287	-34.8267287	PORT ADEL	F4279	A13	CT 5392 67	SI5409	6528	2	35	m	3
28203	6528-1075	6.53E+08	WW	Qhcks	6	1/02/1986	6	17998	6	DOM	OPR	4	0.64	24/02/1986	925	1676	7.4	0.5	270947.77	6146021.27	54	138	29	46.218	34	48	8.343	138.4961715	34.8023175	-34.8023175	PORT ADEL	D7573	A92	CT 5595 56	SI5409	6528	2	35	d	3
28204	6528-1076	6.53E+08	WW	Qhcks	6	1/02/1986	6	18007	6	DOM	OPR	4	0.67	25/02/1986	959	1736	7.5	0.5	270926.76	6146008.31	54	138	29	45.379	34	48	8.746	138.4959386	34.8024295	-34.8024295	PORT ADEL	D2749	A114	CT 5600 54	SI5409	6528	2	35	d	3
28205	6528-1077	6.53E+08	WW	Qhcks	6	1/02/1986	6	17973	6	DOM	OPR	4	3	1/02/1986				0.5	270706.76	6144704.34	54	138	29	35.447	34	48	50.859	138.4931798	34.8141276	-34.8141276	PORT ADEL	D2331	A185	CT 5120 27	SI5409	6528	2	35	e	3
28207	6528-1079	6.53E+08	WW	Qhcks	6.5	22/01/1986	6.5	17752	6.5			5	0	25/02/1986	1412	2550	7.4		270638.78	6143744.26	54	138	29	31.83	34	49	21.942	138.4921749	34.8227617	-34.8227617	PORT ADEL	D2790	A53	CT 5222 74	SI5409	6528	2	35	e	4
28210	6528-1082	6.53E+08	WW	Qhcks	4.3	3/03/1986	4.3	18026	4.3			2.8	1.92	25/03/1986	1127	2040	7.8	0.6	270660.76	6143012.32	54	138	29	31.974	34	49	45.699	138.492215	34.8293607	-34.8293607	PORT ADEL	S11289			SI5409	6528	2	35	m	3
28211	6528-1083	6.53E+08	WW	Qhcks	4.5	14/03/1986	4.5	17775	4.5			3	1.85	25/03/1986	857	1554	7.7	0.6	270726.75	6143250.29	54	138	29	34.804	34	49	38.034	138.493001	34.8272317	-34.8272317	PORT ADEL	D2077	A49	CT 5332 79	SI5409	6528	2	35	m	3

28212	6528-1084	6.53E+08	WW	Qhcks	7	1/03/1985	7	18184				0	6.19					0.44	270899.71	6144650.33	54	138	29	42.982	34	48	52.767	138.4952728	34.8146576	-34.8146576	PORT ADEL	D5493	A6	CT 5649 56	SI5409	6528	2	35	e	3
28217	6528-1089	6.53E+08	WW	Qhcks	6	1/03/1986	6	18143	6			3	3.2	16/04/1986	451	820	8.7	0.5	270899.74	6144649.33	54	138	29	42.982	34	48	52.8	138.4952728	34.8146666	-34.8146666	PORT ADEL	D5493	A6	CT 5649 56	SI5409	6528	2	35	e	3
28218	6528-1090	6.53E+08	WW	Qhcks	6	4/04/1986	6	18268	6			3	1.76	16/04/1986	972	1760	7.3	0.5	271028.7	6143675.31	54	138	29	47.097	34	49	24.494	138.4964159	34.8234706	-34.8234706	PORT ADEL	D3186	A53	CT 5712 71	SI5409	6528	2	35	e	4
28220	6528-1092	6.53E+08	WW	Qhcks	6	1/03/1986	6	18235	6			3	2.07	16/04/1986	948	1716	7.3	0.5	270829.77	6144061.35	54	138	29	39.653	34	49	11.813	138.494348	34.819948	-34.819948	PORT ADEL	F4784	A32	CT 5359 39	SI5409	6528	2	35	e	4
28221	6528-1093	6.53E+08	WW	Qhcks	6	1/03/1986	6	18211	6			3	1.89	16/04/1986	916	1660	7.1	0.5	270850.71	6146047.26	54	138	29	42.427	34	48	7.421	138.4951186	34.8020615	-34.8020615	PORT ADEL	D2252	A268	CT 5635 59	SI5409	6528	2	35	d	3
28230	6528-1102	6.53E+08	WW	Qhcks	6	1/10/1986	6	18192	6			4	1.18	8/10/1986	1049	1900	7.1	0.5	270944.72	6144336.33	54	138	29	44.444	34	49	2.988	138.4956788	34.8174966	-34.8174966	PORT ADEL	D2290	A272	CT 5691 68	SI5409	6528	2	35	e	3
28231	6528-1103	6.53E+08	WW	Qpah	6	1/09/1986	6	18425	6			4	0.1	8/10/1986	1631	2940	7.3	0.5	271240.78	6142535.31	54	138	29	54.319	34	50	1.639	138.498422	34.8337887	-34.8337887	PORT ADEL	F20039	A48	CT 5125 99	SI5409	6528	2	35	m	4
28243	6528-1115	6.53E+08	WW	Qhcks	6	5/10/1986	6	18004	5			0	8.91	10/11/1986	1261	2280	7.3		270669.76	6144456.33	54	138	29	33.748	34	48	58.873	138.4927078	34.8163536	-34.8163536	PORT ADEL	D2331	A131	CT 5693 81	SI5409	6528	2	35	e	3
28245	6528-1117	6.53E+08	WW	Qhcks	4	5/01/1987	4	19373	4			4	1.31	17/02/1987				4	271062.78	6145474.25	54	138	29	50.203	34	48	26.177	138.4972786	34.8072715	-34.8072715	PORT ADEL	D8235	A21	CT 5261 28	SI5409	6528	2	35	d	4
28246	6528-1118	6.53E+08	WW	Qhcks	4.8	10/02/1987	4.8	19352	4.48			3.3	2.96	18/02/1987	802	1454	7.5	0.6	270908.69	6144210.33	54	138	29	42.903	34	49	7.045	138.4952508	34.8186236	-34.8186236	PORT ADEL	D79272	A1	CT 6022 29	SI5409	6528	2	35	e	3
28258	6528-1130	6.53E+08	WW	Qhcks	4.2	11/02/1988	4.2	20743	4.2			0	4.87	15/03/1988	547	995	7.8	0.6	271115.74	6143877.29	54	138	29	50.719	34	49	18.014	138.4974218	34.8216706	-34.8216706	PORT ADEL	D426	A59	CT 5787 96	SI5409	6528	2	35	e	4
28260	6528-1132	6.53E+08	WW	Qhcks	4.8	8/03/1988	4.8	21005	2.1	DOM	OPR	2.1	2.42	5/05/1988	1586	2860	7.6	0.38	270942.75	6143016.27	54	138	29	43.069	34	49	45.799	138.495297	34.8293887	-34.8293887	PORT ADEL	F4325	A115	CT 5209 97	SI5409	6528	2	35	m	3
28433	6528-1305	6.53E+08	WW	Qhcks	6	8/09/1988	6	21571	6	TWS	OPR	2	2.99	19/01/1989	942	1705	7.7		270685.78	6143413.33	54	138	29	33.353	34	49	32.713	138.492598	34.8257537	-34.8257537	PORT ADEL	D2328	A52	CT 5780 51	SI5409	6528	2	35	m	3
28436	6528-1308	6.53E+08	ENG	Qhcks	10.5	13/03/1984	10.5			INV	ABD								270439.73	6143545.25	54	138	29	23.806	34	49	28.235	138.489946	34.8245097	-34.8245097	PORT ADEL	F18865	A51	CT 6113 38	SI5409	6528	2	35	e	5
28437	6528-1309	6.53E+08	ENG	Qhcks	10.5	14/03/1984	10.5			INV	ABD								270942.77	6145829.34	54	138	29	45.832	34	48	14.564	138.4960646	34.8040455	-34.8040455	PORT ADEL	D59587	A100	CT 5875 72	SI5409	6528	2	35	d	3
28439	6528-1311	6.53E+08	WW	Qhcks	7	1/07/1988	7	21895		DOM	OPR	4	0.89	1/07/1988					270835.7	6143754.3	54	138	29	39.584	34	49	21.776	138.4943289	34.8227156	-34.8227156	PORT ADEL	D2790	A12	CT 5820 19	SI5409	6528	2	35	e	4
28489	6528-1361	6.53E+08	WW	Qpah	5	14/05/1989	5	22880	3	DOM	OPR	2.4	1.98	6/11/1989	2551	4572	7.4		270966.72	6142372.29	54	138	29	43.379	34	50	6.705	138.4953831	34.8351957	-34.8351957	PORT ADEL	D1116	A227	CT 5281 15	SI5409	6528	2	35	m	4
28490	6528-1362	6.53E+08	WW	Qhcks	7.5	17/11/1989	7.5	23500	3.7	DOM	OPR	3.5	1.47	17/11/1989					270656.72	6143583.32	54	138	29	32.377	34	49	27.176	138.4923269	34.8242157	-34.8242157	PORT ADEL	D45014	A2	CT 5343 73	SI5409	6528	2	35	e	4
28494	6528-1366	6.53E+08	WW	Qhcks	12	3/11/1989	12	22324	12	DOM	OPR	9	2.01	25/01/1990	745	1351		0.18	270563.76	6145502.29	54	138	29	30.608	34	48	24.864	138.4918357	34.8069066	-34.8069066	PORT ADEL	F51084	A401	CT 6017 27	SI5409	6528	2	35	d	4
28495	6528-1367	6.53E+08	WW	Qhcks	6	9/01/1990	6	23694	3.5	IRR	OPR	2	2.76	23/01/1990	1010	1829	8.2		271347.77	6143995.3	54	138	29	59.96	34	49	14.374	138.4999888	34.8206596	-34.8206596	PORT ADEL	D9013	A22	CT 5390 48	SI5409	6528	2	35	e	4
28498	6528-1370	6.53E+08	WW	Qhcks	9.2	7/03/1990	9.2	23742	6.7	IRR	OPR	6.2	3.21	7/03/1990					270663.7	6144698.27	54	138	29	33.748	34	48	51.021	138.4927078	34.8141726	-34.8141726	PORT ADEL	D2331	A188	CT 5271 57	SI5409	6528	2	35	e	3
28503	6528-1375	6.53E+08	WW	Qpah	5.7	27/04/1990	5.7	24066	3.1	DOM	OPR	2.6	1.51	27/04/1990					271263.76	6142366.28	54	138	29	55.057	34	50	7.14	138.498627	34.8353167	-34.8353167	PORT ADEL	F3889	A65	CT 5833 24	SI5409	6528	2	35	m	4
28510	6528-1382	6.53E+08	WW	Qhcks	7.62	12/10/1990	7.62	24431	7.62	DOM	OPR	3.05	1.43	12/10/1990	332	604	7.6		271104.7	6144451.32	54	138	29	50.848	34	48	59.388	138.4974578	34.8164966	-34.8164966	PORT ADEL	D3096	A54	CT 5836 62	SI5409	6528	2	35	e	3
28511	6528-1383	6.53E+08	WW	Qhcks	6	2/11/1990	6	24898		STK	OPR	2	2.79	2/11/1990					271184.74	6143819.29	54	138	29	53.375	34	49	19.951	138.4981598	34.8222086	-34.8222086	PORT ADEL	D426	A65	CT 5650 87	SI5409	6528	2	35	e	4
28512	6528-1384	6.53E+08	WW	Qhcks	5	5/11/1990	5	24902	5	DOM	OPR	0	4.86						271123.75	6143868.27	54	138	29	51.025	34	49	18.313	138.4975068	34.8217536	-34.8217536	PORT ADEL	D426	A60	CT 5734 66	SI5409	6528	2	35	e	4
28514	6528-1386	6.53E+08	WW	Qhcks	11	10/12/1990	11	24923	11	DOM	OPR	7	2.38	11/12/1990	906	1642	7.8		270667.78	6144630.33	54	138	29	33.842	34	48	53.228	138.4927338	34.8147856	-34.8147856	PORT ADEL	D2331	A178	CT 5199 14	SI5409	6528	2	35	e	3
28516	6528-1388	6.53E+08	WW	Qhcks	5.56	28/12/1990	5.56	24880	2.5	DOM	OPR	2.34	2.45	28/12/1990					271170.75	6143804.29	54	138	29	52.81	34	49	20.426	138.4980028	34.8223406	-34.8223406	PORT ADEL	D36999	A2	CT 5131 66	SI5409	6528	2	35	e	4
28526	6528-1398	6.53E+08	WW	Qhcks	9	10/03/1991	9	25384		DOM	OPR	6	1.7	15/05/1991	1144	2071	7.4		270720.76	6144287.33	54	138	29	35.588	34	49	4.395	138.4932188	34.8178876	-34.8178876	PORT ADEL	F4731	A177	CT 5178 73	SI5409	6528	2	35	e	3
28528	6528-1400	6.53E+08	WW	Qhcks	6.4	21/08/1991	6.4	25686	3.8	DOM	OPR	2.1	2.68	21/08/1991	1110	2009	7.5	1.06	270921.71	6143649.33	54	138	29	42.864	34	49	25.25	138.4952399	34.8236806	-34.8236806	PORT ADEL	D3186	A14	CT 5677 91	SI5409	6528	2	35	e	4
28530	6528-1402	6.53E+08	WW	Qhcks	6.7	29/08/1991	6.7	25964		DOM	OPR	2.4	1.41	3/09/1991	1373	2481	7.4	0.45	271263.7	6144833.25	54	138	29	57.475	34	48	47.13	138.4992987	34.8130915	-34.8130915	PORT ADEL	D65302	A61	CT 5928 35	SI5409	6528	2	35	e	3
28531	6528-1403	6.53E+08	WW	Qhcks	7.9	28/08/1991	7.9	25615		DOM	OPR	3.6	2.64	3/09/1991	1357	2451	7.7	0.93	270896.76	6144739.28	54	138	29	42.953	34	48	49.88	138.4952647	34.8138556	-34.8138556	PORT ADEL	D2533	A387	CT 5668 29	SI5409	6528	2	35	e	3
28533	6528-1405	6.53E+08	WW	Qhcks	10.2	19/08/1991	10.2	25722		DOM	OPR	5.5	-0.49	3/09/1991	605	1100	7.9	0.65	270230.7	6143007.32	54	138	29	15.054	34	49	45.512	138.4875151	34.8293088	-34.8293088	PORT ADEL	D341	A82	CT 5112 18	SI5409	6528	2	35	m	2
28551	6528-1423	6.53E+08	WW	Qhcks	7.9	19/09/1991	7.9	26161				3.6	1.37	19/09/1991	407	740	7.4	0.75	270468.73	6144021.28	54	138	29	25.414	34	49	12.82	138.4903929	34.8202277	-34.8202277	PORT ADEL	D2108	A59	CT 5309 54	SI5409	6528	2	35	e	5
28552	6528-1424	6.53E+08	WW	Qhcks	11.6	21/09/1991	11.6	26143		DOM	OPR	7.3	1.64	21/09/1991	357	649	7.4	0.31	270529.76	6144355.26	54	138	29	28.143	34	49	2.038	138.4911508	34.8172326	-34.8172326	PORT ADEL	F4731	A156	CT 5172 81	SI5409	6528	2	35	e	2
28553	6528-1425	6.53E+08	WW	Qhcks	8.5	16/09/1991	8.5	25101		DOM	OPR	4.3	0.7	16/09/1991	994	1800	7.2	0.7	270502.71	6143757.29	54	138	29	26.491	34	49	21.409	138.4906919	34.8226137	-34.8226137	PORT ADEL	D1996	A49	CT 5413 39	SI5409	6528	2	35	e	5
28554	6528-1426	6.53E+08	WW	Qhcks	8.5	15/09/1991	8.5	25948		DOM	OPR	4.3	0.82	15/09/1991	578	1051	7.3	0.45	270492.78	6143905.33	54	138	29	26.246	34	49	16.6	138.4906239	34.8212777	-34.8212777	PORT ADEL	D1996	A17	CT 5656 31	SI5409	6528	2	35	e	5
28555	6528-1427	6.53E+08	WW	Qhcks	7.3	12/09/1991	7.3	26071		DOM	OPR	3	1.85	12/09/1991	1072	1940	7.3	0.87	271196.71	6144095.31	54	138	29	54.117	34	49	11.009	138.4983658	34.8197246	-34.8197246	PORT ADEL	D426	A140	CT 5137 77	SI5409	6528	2	35	e	4
28558	6528-1430	6.53E+08	WW	Qhcks	5	20/10/1991	5	26263		DOM	OPR	3.5	0.95	20/10/1991	1272	2300	7.2		271263.73	6144432.32	54	138	29	57.083	34	49	0.133	138.4991897	34.8167036	-34.8167036	PORT ADEL	D35002	A5	CT 5087 65	SI5409	6528	2	35	e	3
28559	6528-1431	6.53E+08	WW	Qhcks	8.5	22/10/1991	8.5	26278		DOM	OPR	7	3.22	22/10/1991					270716.74	6145396.34	54	138	29	36.52	34	48	28.424	138.4934777	34.8078956	-34.8078956	PORT ADEL	D8248	A19	CT 5620 59	SI5409	6528	2	35	d	4
28570	6528-1442	6.53E+08	WW	Qhcks	6.4	27/10/1991	6.4	26247		DOM	OPR	2.1	2.6	27/10/1991	882	1600	7.3		271079.78	6143631.3	54	138	29	49.063	34	49	25.963	138.4969619	34.8238786	-34.8238786	PORT ADEL	D3186	A60	CT 5393 67	SI5409	6528	2	35	e	4
28577	6528-1449	6.53E+08	WW	Qhcks	6.5	3/11/1991	6.5	26369		DOM	OPR	5	-0.26	3/11/1991	805	1460	7.3		271265.77	6143822.31	54	138	29	56.565	34	49	19.919	138.4990458	34.8221996	-34.8221996	PORT ADEL	S3836			SI5409	6528	2	35	e	4
28587	6528-1459	6.53E+08	WW	Qhcks	7.6	26/11/1991	7.6	26396		DOM	OPR	3.3	1.69	26/11/1991	629	1142	7.8	0.6	270474.75	6143287.28	54	138	29	24.929	34	49	36.63	138.490258	34.8268417	-34.8268417	PORT ADEL	D81778	A101	CT 6044 80	SI5409	6528	2	35	m	2
28589	6528-1461	6.53E+08	WW	Qhcks	6.4	20/11/1991	6.4	26418		DOM	OPR	2.8	1.99	20/11/1991	1620	2920	7.4	0.68	271299.74	6145844.24	54	138	29	59.883	34	48	14.369	138.4999675	34.8039915	-34.8039915	PORT ADEL	F4983	A57	CT 5752 32	SI5409	6528	2	35	d	3
28592	6528-1464	6.53E+08	WW	Qhcks	8	28/11/1991	8	25139		DOM	OPR	3.7	1.31	28/11/1991	556	1011	7.7	0.8	270477.7	6143776.31	54	138	29	25.526	34	49	20.772	138.4904239	34.8224367	-34.8224367	PORT ADEL	D1996	A50	CT 5817 59	SI5409	6528	2	35	e	5
28593	6528-1465	6.53E+08	WW	Qhcks	5.5	23/11/1991	5.5	26537		DOM	OPR	2.1	2.54	23/11/1991	1234	2231	7.4	0.92	271019.78	6143457.31	54	138	29	46.532	34	49	31.558	138.4962589	34.8254326	-34.8254326	PORT ADEL	D3186	A93	CT 5160 53	SI5409	6528	2	35	m	3
28594	6528-1466	6.53E+08	WW	Qhcks	8.5	21/11/1991	8.5	26466		DOM	OPR	4.2	1.91	21/11/1991	1513	2729	7.8	0.55	270608.74	6144063.3	54	138	29	30.962	34	49	11.57	138.4919339	34.8198807	-34.8198807	PORT ADEL	D2108	A21	CT 5141 33	SI5409	6528	2	35	e	4
28595	6528-1467	6.53E+08	WW	Qhcks	8	1/01/1992	8	26631		DOM	OPR	8	-3.13	1/01/1992					270796.76	6143338.29	54	138	29	37.644	34	49	35.237	138.49379	34.8264547	-34.8264547	PORT ADEL	D2077	A12	CT 5410 16	SI5409	6528	2	35	m	3
28600	6528-1472	6.53E+08	WW	Qhcks	4.5	25/11/1991	4.5	26480		DOM	OPR	3.5	0.49	25/11/1991	724	1313	7.6		271147.71	6144914.27	54	138	29	52.993	34	48	44.408	138.4980537	34.8123355	-34.8123355	PORT ADEL	D2533	A447	CT 5741 14	SI5409	6528	2	35	d	4
28608	6528-1480	6.53E+08	WW	Qhcks	5	14/12/1991	5	26462		DOM	OPR	3.5	1.25	24/01/1992	1401	2529	7.8		270559.76	6142586.33	54	138	29	27.582	34	49	59.433	138.4909951	34.8331757	-34.8331757	PORT ADEL	D3800	A61	CT 5242 80	SI5409	6528	2	35	m	5
28617	6528-1489	6.53E+08	WW	Qhcks	6	18/01/1992	6	26760		DOM	OPR	2	2.84	31/01/1992	3133	5593	7.3	0.49	270453.77	6142645.28	54	138	29	23.471	34	49	57.435	138.4898531	34.8326208	-34.8326208	PORT ADEL	F4424	A131	CT 5834 40	SI5409	6528	2	35	m	5
28618	6528-1490	6.53E+08	WW	Qhcks	9.7	12/01/1992	9.7	26569		DOM	OPR	5.5	-0.8	31/01/1992	866	1571	7.7		270519.75	6144078.28	54	138	29	27.477	34	49	11.012	138.4909659	34.8197257	-34.8197257	PORT ADEL	D2108	A41	CT 5813 41	SI5409	6528	2	35	e	5
28619	6528-1491	6.53E+08	WW	Qhcks	8.5	5/01/1992	8.5	26607		DOM	OPR	4.2	1.89	31/01/1992	881	1598	7.7	0.68	270609.7	6144061.33	54	138	29	30.998	34	49	11.635	138.4919439	34.8198987	-34.8198987	PORT ADEL	D2108	A21	CT 5141 33	SI5409	6528	2	35	e	4
28620	6528-1492	6.53E+08	WW	Qhcks	9.7	5/01/1992	9.7	26632		DOM	OPR	5.5	-0.47	31/01/1992	677	1229	7	0.44	270473.75	6143996.32	54	138	29	25.587	34	49	13.633	138.4904409	34.8204537	-34.8204537	PORT ADEL	D2108	A70	CT 5522 26	SI5409	6528	2	35	e	5
28621	6528-1493	6.53E+08	WW	Qhcks	6.7	7/01/1992	6.7	26637		DOM	OPR	2.4	1.36	31/01/1992	1256	2271	7.4	0.45	271275.75	6144875.28	54	138	29	57.99	34	48	45.776	138.4994417	34.8127155	-34.8127155	PORT ADEL	D5270	A8	CT 5434 61	SI5409	6528	2	35	e	3
28622	6528-1494	6.53E+08	WW	Qhcks	9.1	10/01/1992	9.1	26675				4.9	2.89	31/01/1992	1017	1842	7.5	0.45	270783.76	6144312.33	54	138	29	38.09	34	49	3.636	138.4939138	34.8176766	-34.8176766	PORT ADEL	D2290	A209	CT 5272 92	SI5409	6528	2	35	e	3
28624	6528-1496	6.53E+08	WW	Qhcks	7	13/01/1992	7	26726		DOM	OPR	2.7	2.22	31/01/1992	945	1711	7.5	0.9	270941.72	6143837.31	54	138	29	43.836	34	49	19.17	138.4955099	34.8219916	-34.8219916	PORT ADEL	D3186	A30	CT 5682 21	SI5409	6528	2	35	e	4
28630	6528-1502	6.53E+08	WW	Qhcks	5	24/01/1992	5	26805		DOM	OPR	3.5	1.29	4/03/1992	914	1656	8.4		271267.77	6143903.28	54	138	29	56.723	34	49	17.294	138.4990898	34.8214706	-34.8214706	PORT ADEL	D426	A110	CT 5797 14	SI5409	6528	2	35	e	4
28640	6528-1512	6.53E+08	WW	Qhcks	9.8	7/02/1992	9.8	26911		DOM	OPR	5.5	3.93	18/03/1992	1407	2540	7.2	0.44	270634.78	6144460.34	54	138	29	32.377	34	48	58.715	138.4923268	34.8163096	-34.8163096	PORT ADEL	D2331	A129	CT 5689 35	SI5409	6528	2	35	e	3
28641	6528-1513	6.53E+08	WW	Qhcks	11.5	17/02/1992	11.5	26955		DOM	OPR	7.9	-2.95	16/03/1992	862	1563	7.2	0.33	270391.78	6143943.32	54	138	29	22.311	34	49	15.286	138.4895309	34.8209127	-34.8209127	PORT ADEL	D72151	A112	CT 5978 68	SI5409	6528	2	35	e	5
28643	6528-1515	6.53E+08	WW	Qhcks	7	31/01/1992	7	26980		DOM	OPR	3.7	1.26	18/03/1992	838	1520	7.5	0.8	270752.78	6143457.29	54	138	29	36.031	34	49	31.342	138.493342	34.8253727	-34.8253727	PORT ADEL	D2328	A49	CT 5514 94	SI5409	6528	2	35	m	3
28644	6528-1516	6.53E+08	WW	Qhcks	9.1	15/02/1992	9.1	26635		DOM	OPR	4.9	0.1	16/03/1992	805	1460	7.9	0.8	270429.71	6143470.3	54	138	29	23.338	34	49	30.658	138.489816	34.8251827	-34.8251827	PORT ADEL	D1195	A256	CT 5443 29	SI5409	6528	2	35	m	2
28645	6528-1517	6.53E+08	WW	Qhcks	9.1	12/02/1992	9.1	26785		DOM	OPR	4.9	0.1	16/03/1992	660	1198	7.5	0.74	270504.76	6143642.34	54	138	29	26.459	34	49	25.139	138.490683	34.8236497	-34.8236497	PORT ADEL	F4454	A3	CT 5333 74	SI5409	6528	2	35	e	5
28646	6528-1518	6.53E+08	WW	Qhcks	9.1	4/02/1992	9.1	26720		DOM	OPR	4.9	4	16/03/1992	1005	1820	7.2	0.59	270587.73	6144310.31	54	138	29	30.379	34	49	3.542	138.4917718	34.8176506	-34.8176506	PORT ADEL	D64472	A1	CT 5921 75	SI5409	6528	2	35	e	3
28647	6528-1519	6.53E+08	WW	Qpah	6	13/02/1992	6	27028		DOM	OPR	2.1	1.92	17/03/1992	1519	2740	7.4	0.62	271272.71	6142451.31	54	138	29	55.493	34	50	4.39	138.498748	34.8345527	-34.8345527	PORT ADEL	F3889	A11	CT 5841 57	SI5409	6528	2	35	m	4
28648	6528-1520	6.53E+08	WW	Qhcks	6.1	16/02/1992	6.1	26847		DOM	OPR	2.4	2.34	17/03/1992	687	1247	7.4	0.68	271297.74	6145935.32	54	138	29	59.894	34	48	11.414	138.4999705	34.8031705	-34.8031705	PORT ADEL	D3411	A12	CT 5737 34	SI5409	6528	2	35	d	3
28649	6528-1521	6.53E+08	WW	Qhcks	9.8	20/02/1992	9.8	26721		DOM	OPR	5.9	-0.89	17/03/1992	1546	2790	7.3	0.56	270172.72	6143279.26	54	138	29	13.042	34	49	36.645	138.4869561	34.8268457	-34.8268457	PORT ADEL	F4166	A105	CT 5785 98	SI5409	6528	2	35	m	2
28654	6528-1526	6.53E+08	WW	Qhcks	12.5	4/06/1992	12.5	27482		DOM	OPR	8.5	2.22	29/06/1992	855	1551	7.3	0.63	270546.76	6144469.35	54	138	29	28.924	34	48	58.351	138.4913678	34.8162086	-34.8162086	PORT ADEL	D2331	A123	CT 5493 97	SI5409	6528	2	35	e	2
28655	6528-1527	6.53E+08	WW	Qhcks	6.5	3/06/1992	6.5	27444		DOM	OPR	2.6	2.25	29/06/1992	967	1751	7.2	0.89	270787.72	6143297.33	54	138	29	37.248	34	49	36.558	138.49368	34.8268217	-34.8268217	PORT ADEL	D2077	A44	CT 5699 50	SI5409	6528	2	35	m	3
28657	6528-1529	6.53E+08	WW	Qhcks	9.2	7/06/1992	9.2	27265		DOM	OPR	4.3	4.4	29/06/1992	1367	2470	7	0.68	270756.74	6145660.3	54	138	29	38.352	34	48	19.896	138.4939866	34.8055266	-34.8055266	PORT ADEL	D7557	A21	CT 5138 77	SI5409	6528	2	35	d	3
28658	6528-1530	6.53E+08	WW	Qhcks	8.5	5/06/1992	8.5	27378		DOM	OPR	4.2	0.81	29/06/1992	734	1331	7.3	0.61	270450.76	6143916.27	54	138	29	24.605	34	49	16.211	138.4901679	34.8211697	-34.8211697	PORT ADEL	D1996	A15	CT 5355 38	SI5409	6528	2	35	e	5
28660	6528-1532	6.53E+08	WW	Qhcks	8.5	6/06/1992	8.5	27143		DOM	OPR	4.3	1.96	29/06/1992	1428	2579	7.2	0.68	270865.73	6144878.25	54	138	29	41.869	34	48	45.348	138.4949637	34.8125966	-34.8125966	PORT ADEL	D2533	A379	CT 5764 17	SI5409	6528	2	35	e	3
28662	6528-1534	6.53E+08	WW	Qhcks	7.4	27/02/1992	7.4	27161		DOM	OPR	5.4	1.19	3/07/1992	656	1191	8		270862.7	6144329.28	54	138	29	41.211	34	49	3.15	138.4947808	34.8175416	-34.8175416	PORT ADEL	D2290	A241	CT 5184 61	SI5409	6528	2	35	e	3
28664	6528-1536	6.53E+08	WW	Qpah	3	2/06/1992	3	27735		DOM	OPR	0.9	3.35	29/06/1992	6242	10915	7.2	0.3	271320.77	6142700.26	54	138	29	57.628	34	49	56.354	138.499341	34.8323206	-34.8323206	PORT ADEL	F4426	A98	CT 5582 32	SI5409	6528	2	35	m	4
28671	6528-1543	6.53E+08	WW	Qhcks	4.5	21/02/1992	4.5	27065		DOM	OPR	2.5	2.05	3/07/1992	1658	2990	7.9		271085.72	6143089.33	54	138	29	48.764	34	49	43.546	138.496879	34.8287627	-34.8287627	PORT ADEL	D2079	A21	CT 5129 92	SI5409	6528	2	35	m	3
28675	6528-1547	6.53E+08	WW	Qhcks	6	20/03/1992	6	26417		DOM	OPR	4.5	3.82	2/07/1992	478	869	8.3		270699.7	6145726.25	54	138	29	36.174	34	48	17.71	138.4933816	34.8049196	-34.8049196	PORT ADEL	D7557	A46	CT 5597 79	SI5409	6528	2	35	d	3
130761	6528-1569	6.53E+08	WW	Qhcks			8.8	27341		DOM		4.6	4.36	17/03/1993	1077	1950	7.5	0.67	270666.78	6144443.38	54	138	29	33.619	34	48	59.291	138.4926718	34.8164696	-34.8164696	PORT ADEL	D2331	A131	CT 5693 81	SI5409	6528	2	35	e	3
132687	6528-1579	6.53E+08	WW	Qpah	4.3	5/02/1993	4.3	28442		DOM		0.85	3.47	17/03/1993	583	1060	7.9	0.71	270991.68	6142523.21	54	138	29	44.509	34	50	1.83	138.4956971	34.8338417	-34.8338417	PORT ADEL	F3887	A40	CT 5455 39	SI5409	6528	2	35	m	4
132688	6528-1580	6.53E+08	WW	Qhcks	5.2	11/02/1993	5.2	28587		DOM		0.9	3.81	17/03/1993	424	770	7.6	0.92	270606.72	6142593.39	54	138	29	29.436	34	49	59.242	138.4915101	34.8331227	-34.8331227	PORT ADEL	F4424	A154	CT 5083 31	SI5409	6528	2	35	m	5
132689	6528-1581	6.53E+08	WW	Qhcks	9	1/12/1992	9	27446	9	DOM		5	-0.26	1/12/1992					270471.66	6143228.26	54	138	29	24.749	34	49	38.542	138.490208	34.8273727	-34.8273727	PORT ADEL	F4191	A32	CT 5132 28	SI5409	6528	2	35	m	2
132690	6528-1582	6.53E+08	WW	Qhcks	5.8	12/02/1993	5.8	28510		DOM		1.5	2.99	17/03/1993	517	940	7.7	0.89	271106.69	6144463.36	54	138	29	50.938	34	48	58.999	138.4974828	34.8163886	-34.8163886	PORT ADEL	D3096	A55	CT 5759 34	SI5409	6528	2	35	e	3
132692	6528-1584	6.53E+08	WW	Qhcks	10.9	19/02/1993	10.9	27546		DOM		6.7	-1.69	18/05/1993	805	1460		0.59	270086.79	6143063.21	54	138	29	9.449	34	49	43.582	138.4859581	34.8287728	-34.8287728	PORT ADEL	F3881	A107	CT 5461 28	SI5409	6528	2	35	m	2
132693	6528-1585	6.53E+08	WW	Qhcks	8.8	24/01/1993	8.8	26947		DOM		4.8	0.17	18/05/1993	755	1371		0.68	270376.86	6143318.46	54	138	29	21.109	34	49	35.539	138.489197	34.8265387	-34.8265387	PORT ADEL	D343	A202	CT 5842 32	SI5409	6528	2	35	m	2
132694	6528-1586	6.53E+08	WW	Qhcks	9.2	17/02/1993	9.2	28964		DOM		5	0	17/03/1993	666	1210	7.2	0.6	270246.74	6142988.3	54	138	29	15.666	34	49	46.142	138.4876851	34.8294838	-34.8294838	PORT ADEL	D341	A81	CT 5349 50	SI5409	6528	2	35	m	2
132695	6528-1587	6.53E+08	WW	Qhcks	6.5	28/01/1993	6.5	28542		DOM		3	1.3	18/05/1993	1121	2030	7.2	0.74	271106.65	6144758.4	54	138	29	51.226	34	48	49.43	138.4975627	34.8137306	-34.8137306	PORT ADEL	D2533	A400	CT 5815 73	SI5409	6528	2	35	e	3
132696	6528-1588	6.53E+08	WW	Qhcks	6.4	2/03/1993	6.4	28342		DOM		2.1	2.68	18/05/1993	866	1571		0.89	270621.76	6143133.45	54	138	29	30.559	34	49	41.739	138.491822	34.8282607	-34.8282607	PORT ADEL	F25221	A56	CT 5399 33	SI5409	6528	2	35	m	3
132698	6528-1590	6.53E+08	WW	Qhcks	9	9/02/1993	9	28489		DOM		5.8	3.12	17/03/1993	1373	2480	7.3	0.45	270811.89	6145413.37	54	138	29	40.278	34	48	27.949	138.4945217	34.8077636	-34.8077636	PORT ADEL	F4849	A11	CT 5584 47	SI5409	6528	2	35	d	4
135432	6528-1600	6.53E+08	WW	Qhcks	6.1	1/05/1993	6.1	29582	6.1	DOM									271301.69	6145013.35	54	138	29	59.146	34	48	41.319	138.4997627	34.8114775	-34.8114775	PORT ADEL	D2789	A20	CT 5709 78	SI5409	6528	2	35	d	4
135643	6528-1604	6.53E+08	WW	Qhcks	10.3	4/06/1993	10.3	28588		DOM					1138	2060	7.4	0.7	270216.85	6143118.31	54	138	29	14.619	34	49	41.901	138.4873941	34.8283058	-34.8283058	PORT ADEL	D341	A63	CT 5739 64	SI5409	6528	2	35	m	2
135645	6528-1606	6.53E+08	WW	Qhcks	9.1	13/05/1993	9.1	29229		DOM		4.8	3.96	5/07/1993	745	1353	7.3	0.61	270816.65	6145578.44	54	138	29	40.627	34	48	22.599	138.4946186	34.8062775	-34.8062775	PORT ADEL	F4866	A5	CT 5786 53	SI5409	6528	2	35	d	4
135647	6528-1608	6.53E+08	WW	Qhcks	7.6	14/06/1993	7.6	28724		DOM					1042	1887	7.4	0.8	270636.7	6144138.37	54	138	29	32.136	34	49	9.158	138.4922599	34.8192106	-34.8192106	PORT ADEL	D2108	A16	CT 5158 51	SI5409	6528	2	35	e	4
135648	6528-1609	6.53E+08	WW	Qhcks	10.9	2/06/1993	10.9	28484		DOM					1222	2211	7.2	0.5	270811.72	6145398.27	54	138	29	40.256	34	48	28.438	138.4945157	34.8078996	-34.8078996	PORT ADEL	F4849	A11	CT 5584 47	SI5409	6528	2	35	d	4
135649	6528-1610	6.53E+08	WW	Qhcks	9.4	24/05/1993	9.4	28312		DOM		4.8	0.2	5/07/1993	898	1629	7.4	0.9	270191.78	6143508.4	54	138	29	14.017	34	49	29.229	138.487227	34.8247857	-34.8247857	PORT ADEL	F4238	A11	CT 5498 63	SI5409	6528	2	35	e	5
135651	6528-1612	6.53E+08	WW	Qhcks	7.7	19/05/1993	7.7	28311		DOM		3.3	1.82	5/07/1993	1030	1865	7.5	1.1	270491.83	6143903.09	54	138	29	26.207	34	49	16.672	138.4906129	34.8212977	-34.8212977	PORT ADEL	D1996	A17	CT 5656 31	SI5409	6528	2	35	e	5
135703	6528-1620	6.53E+08	WW	Qhcks	9.6	18/08/1993	9.6	29920		DOM					736	1336	7.4	0.55	270306.77	6143233.45	54	138	29	18.269	34	49	38.239	138.488408	34.8272887	-34.8272887	PORT ADEL	D343	A175	CT 5664 22	SI5409	6528	2	35	m	2
135704	6528-1621	6.53E+08	WW	Qhcks	11.3	5/08/1993	11.3	29533		DOM					1255	2271	7.3	0.57	270331.62	6143823.26	54	138	29	19.827	34	49	19.131	138.488841	34.8219807	-34.8219807	PORT ADEL	F4667	A23	CT 5845 34	SI5409	6528	2	35	e	5
135705	6528-1622	6.53E+08	WW	Qhcks	13.3	25/08/1993	13.3	29489		DOM					1244	2251	7.4	0.25	270456.6	6144213.34	54	138	29	25.126	34	49	6.581	138.4903129	34.8184947	-34.8184947	PORT ADEL	D2108	A4	CT 5067 50	SI5409	6528	2	35	e	2
138387	6528-1627	6.53E+08	WW	Qhcks	6.6	18/09/1993	6.6	28895	6.6	DOM					1183	2140	7	1	271181.72	6143533.39	54	138	29	52.976	34	49	29.221	138.4980489	34.8247836	-34.8247836	PORT ADEL	D3186	A122	CT 5396 62	SI5409	6528	2	35	e	4
138388	6528-1628	6.53E+08	WW	Qpah	5.6	6/10/1993	5.6	28931		DOM					1077	1950	7.2	0.75	271016.67	6142508.4	54	138	29	45.478	34	50	2.33	138.4959661	34.8339807	-34.8339807	PORT ADEL	D1318	A276	CT 5089 42	SI5409	6528	2	35	m	4
138389	6528-1629	6.53E+08	WW	Qhcks	11.3	22/10/1993	11.3	29821	11.3	DOM					1183	2140	7.1	0.5	270701.73	6144843.3	54	138	29	35.386	34	48	46.349	138.4931628	34.8128746	-34.8128746	PORT ADEL	D2401	A337	CT 5716 22	SI5409	6528	2	35	e	3
138390	6528-1630	6.53E+08	WW	Qhcks	6.6	10/10/1993	6.6	30061		DOM					1143	2070	7	0.9	271001.61	6143558.2	54	138	29	45.916	34	49	28.271	138.4960879	34.8245196	-34.8245196	PORT ADEL	D3186	A71	CT 5296 22	SI5409	6528	2	35	e	4
138393	6528-1633	6.53E+08	WW	Qhcks	8	28/10/1993	8	30247	8	DOM					932	1690	7.1	0.93	270691.75	6143383.4	54	138	29	33.558	34	49	33.689	138.492655	34.8260247	-34.8260247	PORT ADEL	D2328	A3	CT 5188 53	SI5409	6528	2	35	m	3
138394	6528-1634	6.53E+08	WW	Qhcks	8.1	2/11/1993	8.1	30268	8.1	DOM					728	1320	7.2	0.9	270271.73	6143353.45	54	138	29	17.009	34	49	34.319	138.488058	34.8261997	-34.8261997	PORT ADEL	D343	A207	CT 5521 91	SI5409	6528	2	35	m	2
138396	6528-1636	6.53E+08	WW	Qhcks	11	8/11/1993	11	30294	11	DOM					827	1500	7.1	0.68	270216.69	6143113.42	54	138	29	14.608	34	49	42.059	138.4873911	34.8283498	-34.8283498	PORT ADEL	D341	A63	CT 5739 64	SI5409	6528	2	35	m	2
138675	6528-1641	6.53E+08	WW	Qhcks	9.4	24/11/1993	9.4	30372		DOM					1055	1910	7	0.68	270596.75	6143858.32	54	138	29	30.289	34	49	18.209	138.4917469	34.8217247	-34.8217247	PORT ADEL	D1996	A23	CT 5632 55	SI5409	6528	2	35	e	4
138677	6528-1643	6.53E+08	WW	Qhcks	7.3	24/12/1993	7.3	30657		DOM					1233	2230	7.4	0.9	270721.7	6143393.36	54	138	29	34.746	34	49	33.39	138.492985	34.8259417	-34.8259417	PORT ADEL	D2328	A5	CT 5158 92	SI5409	6528	2	35	m	3
138679	6528-1645	6.53E+08	WW	Qhcks	8.8	21/12/1993	8.8	30717		DOM					1049	1900	7.1	0.8	270751.73	6144513.32	54	138	29	37.028	34	48	57.091	138.4936188	34.8158586	-34.8158586	PORT ADEL	D2331	A317	CT 5327 64	SI5409	6528	2	35	e	3
138718	6528-1647	6.53E+08	WW	Qhcks	11.5	20/11/1993	11.5	29926		DOM					805	1460	7.4	0.5	270591.68	6144708.23	54	138	29	30.926	34	48	50.64	138.4919238	34.8140666	-34.8140666	PORT ADEL	D2331	A193	CT 5351 58	SI5409	6528	2	35	e	3
138719	6528-1648	6.53E+08	WW	Qhcks	11	15/11/1993	11	30244		DOM					1289	2330	7.3	0.5	270649.72	6144818.24	54	138	29	33.316	34	48	47.119	138.4925878	34.8130886	-34.8130886	PORT ADEL	D2401	A357	CT 5074 41	SI5409	6528	2	35	e	3
138720	6528-1649	6.53E+08	WW	Qhcks	6	18/11/1993	6	30323		DOM					2047	3680	7.1	0.9	271311.67	6144033.36	54	138	29	58.577	34	49	13.111	138.4996048	34.8203086	-34.8203086	PORT ADEL	D9013	A17	CT 5119 41	SI5409	6528	2	35	e	4
138721	6528-1650	6.53E+08	WW	Qhcks	5.2	27/11/1993	5.2	30426		DOM					1177	2130	7.2	0.9	271001.74	6143278.26	54	138	29	45.647	34	49	37.35	138.4960129	34.8270417	-34.8270417	PORT ADEL	D2078	A5	CT 5709 82	SI5409	6528	2	35	m	3
138722	6528-1651	6.53E+08	WW	Qhcks	6.7	23/12/1993	6.7	30649		DOM					1272	2300	7.1	0.9	270976.78	6144493.42	54	138	29	45.858	34	48	57.919	138.4960718	34.8160886	-34.8160886	PORT ADEL	D37046	A1	CT 5135 93	SI5409	6528	2	35	e	3
138723	6528-1652	6.53E+08	WW	Qhcks	6.4	11/12/1993	6.4	30650		DOM					777	1410	7	0.85	270721.68	6143628.34	54	138	29	34.976	34	49	25.769	138.4930489	34.8238247	-34.8238247	PORT ADEL	D2790	A44	CT 5791 48	SI5409	6528	2	35	e	4
138725	6528-1654	6.53E+08	WW	Qhcks	7.6	15/12/1993	7.6	30709	7.6	DOM					805	1460	6.9	0.9	270971.85	6144628.27	54	138	29	45.797	34	48	53.541	138.4960548	34.8148726	-34.8148726	PORT ADEL	F4802	A62	CT 5499 13	SI5409	6528	2	35	e	3

Groundwater Data Report 2km

138726	6528-1655	6.53E+08	WW	Qhcks	11.3	20/12/1993	11.3	30726	11.3	DOM					600	1090	6.9	0.3	270656.72	6144743.16	54	138	29	33.518	34	48	49.56	138.4926438	34.8137666	-34.8137666	PORT ADEL	D2401	A371	CT 6089 64	SI5409	6528	2	35	e	3
138727	6528-1656	6.53E+08	WW	Qhcks	6.7	22/12/1993	6.7	30744		DOM					865	1570	7.1	0.9	271056.66	6144388.41	54	138	29	48.897	34	49	1.389	138.4969158	34.8170526	-34.8170526	PORT ADEL	D117264	A101	CT 6201 93	SI5409	6528	2	35	e	3
140950	6528-1659	6.53E+08	WW	Qhcks	7.4	27/02/1994	7.4	31001	4.8	DOM		4.5	0.57	27/02/1994	722	1310	6.9		270611.78	6143978.24	54	138	29	30.998	34	49	14.332	138.4919439	34.8206477	-34.8206477	PORT ADEL	D2108	A50	CT 5349 9	SI5409	6528	2	35	e	4
142063	6528-1668	6.53E+08	WW	Qhcks	6.6	18/02/1994	6.6	30832		DOM					1340	2420	7.5	0.9	271206.86	6143098.35	54	138	29	53.538	34	49	43.351	138.4982049	34.8287086	-34.8287086	PORT ADEL	D8207	A10	CT 5116 95	SI5409	6528	2	35	m	3
142064	6528-1669	6.53E+08	WW	Qhcks	5.6	3/03/1994	5.6	30848		DOM					1636	2950	7.8	0.8	270661.76	6142588.33	54	138	29	31.596	34	49	59.451	138.4921101	34.8331807	-34.8331807	PORT ADEL	F4424	A166	CT 5512 77	SI5409	6528	2	35	m	4
142093	6528-1670	6.53E+08	WW	Qhcks	10	5/03/1994	10	30894		DOM					1452	2620	7	0.67	270653.82	6144643.19	54	138	29	33.305	34	48	52.8	138.4925848	34.8146666	-34.8146666	PORT ADEL	D2331	A177	CT 5707 94	SI5409	6528	2	35	e	3
142094	6528-1671	6.53E+08	WW	Qhcks	6.3	16/03/1994	6.3	30930		DOM					1166	2110	7.8	0.9	271006.74	6143913.19	54	138	29	46.467	34	49	16.761	138.4962409	34.8213226	-34.8213226	PORT ADEL	D426	A37	CT 5139 94	SI5409	6528	2	35	e	4
142095	6528-1672	6.53E+08	WW	Qhcks	6	5/04/1994	6	31219		DOM					1166	2110	7.2	0.8	271056.81	6144353.23	54	138	29	48.868	34	49	2.531	138.4969078	34.8173696	-34.8173696	PORT ADELAIDE				SI5409	6528	2	35	e	3
145547	6528-1676	6.53E+08	WW	Qhcks	6.6	17/08/1994	6.6	32166		DOM					1154	2090	7	0.9	270781.86	6143308.17	54	138	29	37.028	34	49	36.202	138.493619	34.8267227	-34.8267227	PORT ADEL	D2077	A45	CT 5777 24	SI5409	6528	2	35	m	3
145551	6528-1680	6.53E+08	WW	Qpah	5.1	31/08/1994	5.1	32425		DOM					1351	2440	6.9	0.8	271086.76	6142593.4	54	138	29	48.318	34	49	59.63	138.496755	34.8332307	-34.8332307	PORT ADEL	D596	A15	CT 5439 33	SI5409	6528	2	35	m	4
145552	6528-1681	6.53E+08	WW	Qhcks	7.2	5/09/1994	7.2	304925		DOM	BKF				955	1730	7.1	0.9	270741.63	6143288.41	54	138	29	35.426	34	49	36.81	138.493174	34.8268917	-34.8268917	PORT ADEL	D2077	A47	CT 5757 54	SI5409	6528	2	35	m	3
145553	6528-1682	6.53E+08	WW	Qhcks	6.1	9/09/1994	6.1	32499		DOM					1306	2360	7	0.9	271231.61	6143918.25	54	138	29	55.316	34	49	16.779	138.4986988	34.8213276	-34.8213276	PORT ADEL	D426	A106	CT 5717 30	SI5409	6528	2	35	e	4
145665	6528-1690	6.53E+08	WW	Qhcks	4.2	19/09/1994	4.2	31382		DOM					1412	2550	7	0.93	271221.72	6143163.21	54	138	29	54.186	34	49	41.259	138.4983849	34.8281276	-34.8281276	PORT ADEL	D611	A82	CT 5233 13	SI5409	6528	2	35	m	3
145666	6528-1691	6.53E+08	WW	Qhcks	7.2	28/09/1994	7.2	31678		DOM					977	1770	7.1	0.9	270461.63	6142978.25	54	138	29	24.108	34	49	46.642	138.4900301	34.8296227	-34.8296227	PORT ADEL	D341	A138	CT 5402 95	SI5409	6528	2	35	m	2
145667	6528-1692	6.53E+08	WW	Qhcks	8.5	13/09/1994	8.5	32292		DOM					1216	2200	6.8	0.65	270346.71	6143758.26	54	138	29	20.357	34	49	21.251	138.488988	34.8225697	-34.8225697	PORT ADEL	D1996	A57	CT 5781 80	SI5409	6528	2	35	e	5
145668	6528-1693	6.53E+08	WW	Qhcks	10	16/09/1994	10	32559		DOM					882	1600	7.1	0.46	270816.6	6145558.34	54	138	29	40.605	34	48	23.251	138.4946126	34.8064585	-34.8064585	PORT ADEL	F4866	A6	CT 5368 79	SI5409	6528	2	35	d	4
145669	6528-1694	6.53E+08	WW	Qhcks	8.1	22/09/1994	8.1	32563		DOM					821	1490	7.4	0.9	270971.89	6144678.22	54	138	29	45.847	34	48	51.921	138.4960687	34.8144226	-34.8144226	PORT ADEL	F4802	A66	CT 5079 87	SI5409	6528	2	35	e	3
145673	6528-1698	6.53E+08	WW	Qhcks	7.3	23/09/1994	7.3	31629		DOM					2081	3740	6.8	0.8	270831.77	6144098.19	54	138	29	39.767	34	49	10.62	138.4943798	34.8196166	-34.8196166	PORT ADEL	F4784	A30	CT 5177 87	SI5409	6528	2	35	e	4
145674	6528-1699	6.53E+08	WW	Qhcks	7.3	7/10/1994	7.3	32663		DOM					1272	2300	6.9	0.9	271056.83	6144748.27	54	138	29	49.257	34	48	49.718	138.4970157	34.8138106	-34.8138106	PORT ADEL	D2533	A397	CT 5733 26	SI5409	6528	2	35	e	3
145744	6528-1705	6.53E+08	WW	Qhcks	5	28/01/1994	5	30378		DOM		3	1.84	28/01/1994	699	1270	7.3		271256.71	6144053.3	54	138	29	56.435	34	49	12.42	138.4990098	34.8201166	-34.8201166	PORT ADEL	D426	A145	CT 5171 21	SI5409	6528	2	35	e	4
146180	6528-1713	6.53E+08	WW	Qpah	4.5	4/01/1993	4.5	26916		DOM		2.5	1.89	4/01/1993	927	1680	7.3		271316.65	6143118.4	54	138	29	57.876	34	49	42.789	138.4994099	34.8285526	-34.8285526	PORT ADEL	D611	A48	CT 5197 53	SI5409	6528	2	35	m	3
146209	6528-1717	6.53E+08	WW	Qhcks	6	11/03/1994	6	30920		DOM					1056	1912	7.2	0.8	271061.77	6143513.19	54	138	29	48.238	34	49	29.779	138.4967329	34.8249386	-34.8249386	PORT ADEL	D3186	A85	CT 5471 93	SI5409	6528	2	35	e	4
146210	6528-1718	6.53E+08	WW	Qhcks	9.4	30/05/1994	9.4	31327		DOM					961	1740	6.9	0.8	270341.83	6143233.33	54	138	29	19.648	34	49	38.272	138.488791	34.8272977	-34.8272977	PORT ADELAIDE				SI5409	6528	2	35	m	2
146212	6528-1720	6.53E+08	WW	Qhcks	11.8	4/05/1994	11.8	31398		DOM					854	1550	6.7	0.37	270651.89	6144398.27	54	138	29	32.989	34	49	0.741	138.4924968	34.8168726	-34.8168726	PORT ADEL	D1092	A59	CT 5338 32	SI5409	6528	2	35	e	3
146213	6528-1721	6.53E+08	WW	Qhcks	9.7	3/06/1994	9.7	31685		DOM					860	1560	7.9	0.61	270476.79	6143988.18	54	138	29	25.699	34	49	13.9	138.4904719	34.8205277	-34.8205277	PORT ADEL	D2108	A70	CT 5522 26	SI5409	6528	2	35	e	5
146214	6528-1722	6.53E+08	WW	Qhcks	7.3	25/05/1994	7.3	31702		DOM					1384	2500	7.4	0.75	270841.67	6146083.22	54	138	29	42.106	34	48	6.248	138.4950296	34.8017355	-34.8017355	PORT ADEL	D2252	A266	CT 5635 45	SI5409	6528	2	35	d	3
146215	6528-1723	6.53E+08	WW	Qhcks	5.7	19/05/1994	5.7	31807		IRR					1216	2200	6.9	0.68	270761.78	6142768.43	54	138	29	35.707	34	49	53.691	138.4932521	34.8315807	-34.8315807	PORT ADEL	F4704	A157	CT 5333 88	SI5409	6528	2	35	m	4
147637	6528-1735	6.53E+08	WW	Qpah	3.8	9/02/1995	3.8	33658		DOM		2.2	2.19	9/02/1995	1205	2180	7.2	0.6	271101.82	6142723.32	54	138	29	49.038	34	49	55.429	138.496955	34.8320637	-34.8320637	PORT ADEL	F4426	A59	CT 5151 64	SI5409	6528	2	35	m	4
147687	6528-1737	6.53E+08	WW	Qhcks	7.9	4/11/1994	7.9	32906		DOM					1066	1930	7.3	0.75	270921.8	6144748.23	54	138	29	43.947	34	48	49.61	138.4955407	34.8137806	-34.8137806	PORT ADEL	D2533	A389	CT 5126 40	SI5409	6528	2	35	e	3
147688	6528-1738	6.53E+08	WW	Qhcks	10.3	2/11/1994	10.3	32849		DOM					854	1550	7	0.61	270251.87	6143313.1	54	138	29	16.188	34	49	35.611	138.48783	34.8265587	-34.8265587	PORT ADEL	D343	A194	CT 5330 32	SI5409	6528	2	35	m	2
147701	6528-1741	6.53E+08	WW	Qpah	5.2	13/10/1994	5.2	32653		DOM					722	1310	7	0.44	271186.75	6142518.2	54	138	29	52.177	34	50	2.15	138.497827	34.8339307	-34.8339307	PORT ADEL	F20039	A53	CT 5468 27	SI5409	6528	2	35	m	4
147763	6528-1745	6.53E+08	WW	Qhcks	10.3	31/10/1994	10.3	32750		DOM					1105	2000	7	0.68	270141.72	6143143.29	54	138	29	11.688	34	49	41.03	138.4865801	34.8280638	-34.8280638	PORT ADEL	F4166	A113	CT 5163 96	SI5409	6528	2	35	m	2
147768	6528-1750	6.53E+08	WW	Qhcks	6	16/11/1994	6	32935		DOM					1199	2170	7.3	0.8	271271.71	6145378.23	54	138	29	58.325	34	48	29.461	138.4995346	34.8081835	-34.8081835	PORT ADEL	D2789	A82	CT 5744 34	SI5409	6528	2	35	d	4
148122	6528-1754	6.53E+08	ENG	Qhcks	7.5		7.5												270521.72	6144578.24	54	138	29	28.046	34	48	54.799	138.491124	34.815222	-34.815222	PORT ADELAIDE				SI5409	6528	2	35	e	2
149496	6528-1798	6.53E+08	WW	Qhcks	10	6/01/1995	10	32992	10	DOM					1303	2355	8.3		270891.73	6143358.09	54	138	29	41.399	34	49	34.672	138.4948329	34.8262977	-34.8262977	PORT ADEL	D2077	A17	CT 5421 93	SI5409	6528	2	35	m	3
149497	6528-1799	6.53E+08	WW	Qhcks	13.4	11/12/1994	13.4	33022		DOM					1016	1840	7.3	0.5	270561.62	6144508.35	54	138	29	29.547	34	48	57.098	138.4915408	34.8158606	-34.8158606	PORT ADEL	D2331	A145	CT 5196 34	SI5409	6528	2	35	e	2
149500	6528-1802	6.53E+08	WW	Qhcks	7.3	6/12/1994	7.3	33063		DOM					788	1430	7.7	0.1	270911.74	6143158.24	54	138	29	41.989	34	49	41.17	138.494997	34.8281027	-34.8281027	PORT ADEL	F25221	A82	CT 5400 39	SI5409	6528	2	35	m	3
149503	6528-1805	6.53E+08	WW	Qhcks	7.3	13/01/1995	7.3	33255		DOM					783	1420	7.4	0.8	270711.65	6143828.12	54	138	29	34.778	34	49	19.282	138.4929939	34.8220227	-34.8220227	PORT ADEL	F4538	A103	CT 6126 63	SI5409	6528	2	35	e	4
149504	6528-1806	6.53E+08	WW	Qhcks	9.1	17/01/1995	9.1	33467		DOM					1250	2260	7.6	0.75	270381.81	6143413.26	54	138	29	21.397	34	49	32.469	138.489277	34.8256857	-34.8256857	PORT ADEL	D1195	A233	CT 5730 72	SI5409	6528	2	35	m	2
149505	6528-1807	6.53E+08	WW	Qhcks	11	26/01/1995	11	33581		DOM					1049	1900	7.1	0.5	270476.66	6144143.25	54	138	29	25.846	34	49	8.87	138.4905129	34.8191307	-34.8191307	PORT ADEL	D2108	A31	CT 5780 51	SI5409	6528	2	35	e	5
149506	6528-1808	6.53E+08	WW	Qhcks	6.7	28/01/1995	6.7	33595		DOM					1244	2250	7.8	0.9	271086.81	6144218.33	54	138	29	49.916	34	49	6.93	138.4971988	34.8185916	-34.8185916	PORT ADEL	D426	A181	CT 5207 48	SI5409	6528	2	35	e	3
149508	6528-1810	6.53E+08	WW	Qhcks	9.4	4/02/1995	9.4	33764		DOM					710	1290	7.4	0.61	270156.79	6142958.29	54	138	29	12.099	34	49	47.042	138.4866941	34.8297338	-34.8297338	PORT ADEL	D341	A66	CT 5233 96	SI5409	6528	2	35	m	2
149509	6528-1811	6.53E+08	WW	Qhcks	10.4	6/01/1995	10.4	33770		DOM					999	1810	7.2	0.5	270571.67	6144553.22	54	138	29	29.986	34	48	55.651	138.4916628	34.8154586	-34.8154586	PORT ADEL	D2331	A148	CT 5128 32	SI5409	6528	2	35	e	2
149511	6528-1813	6.53E+08	WW	Qhcks	9.1	11/02/1995	9.1	33788		DOM					999	1810	7.1	0.75	270716.68	6144348.17	54	138	29	35.487	34	49	2.419	138.4931908	34.8173386	-34.8173386	PORT ADEL	D1092	A34	CT 5166 56	SI5409	6528	2	35	e	3
149513	6528-1815	6.53E+08	WW	Qhcks	8.5	3/03/1995	8.5	34112		DOM					977	1770	7.4	0.68	270621.87	6144043.32	54	138	29	31.459	34	49	12.229	138.4920719	34.8200637	-34.8200637	PORT ADEL	D2108	A48	CT 5127 12	SI5409	6528	2	35	e	4
149514	6528-1816	6.53E+08	WW	Qhcks	8.2	9/03/1995	8.2	34192		DOM					722	1310	7.5	0.75	270401.79	6143843.23	54	138	29	22.607	34	49	18.54	138.4896129	34.8218167	-34.8218167	PORT ADEL	D1996	A36	CT 5773 77	SI5409	6528	2	35	e	5
149515	6528-1817	6.53E+08	WW	Qhcks	10	25/02/1995	10	34238		DOM					728	1320	7.4	0.61	270101.73	6142993.32	54	138	29	9.968	34	49	45.861	138.4861021	34.8294058	-34.8294058	PORT ADEL	D341	A43	CT 5081 49	SI5409	6528	2	35	m	2
149516	6528-1818	6.53E+08	WW	Qhcks	7.9	4/03/1995	7.9	34261		DOM					1049	1900	7.3	0.75	270436.68	6143718.34	54	138	29	23.856	34	49	22.619	138.48996	34.8229497	-34.8229497	PORT ADEL	D1996	A62	CT 5209 63	SI5409	6528	2	35	e	5
149517	6528-1819	6.53E+08	WW	Qhcks	11.6	4/04/1995	11.6	34609		DOM					1216	2200	7.6	0.35	270641.84	6144738.12	54	138	29	32.927	34	48	49.711	138.4924798	34.8138086	-34.8138086	PORT ADEL	D2401	A372	CT 5645 68	SI5409	6528	2	35	e	3
149729	6528-1831	6.53E+08	WW	Qhcks	8.5	28/12/1994	8.5	33273		DOM					927	1680	6.8	0.9	270761.87	6144708.16	54	138	29	37.618	34	48	50.78	138.4937828	34.8141056	-34.8141056	PORT ADEL	F4903	A67	CT 5677 96	SI5409	6528	2	35	e	3
149735	6528-1837	6.53E+08	WW	Qhcks	6.1	19/12/1994	6.1	33245		DOM					1770	3190	7.3	0.9	271291.92	6144568.22	54	138	29	58.325	34	48	55.748	138.4995347	34.8154855	-34.8154855	PORT ADEL	D2985	A18	CT 5141 63	SI5409	6528	2	35	e	3
149736	6528-1838	6.53E+08	WW	Qhcks	7.3	4/01/1995	7.3	33511		DOM					583	1060	7.2	0.9	270961.86	6144588.28	54	138	29	45.365	34	48	54.83	138.4959348	34.8152306	-34.8152306	PORT ADEL	D64447	A1	CT 5921 62	SI5409	6528	2	35	e	3
149737	6528-1839	6.53E+08	WW	Qhcks	7.6	24/12/1994	7.6	33339		DOM					1642	2960	7.1	0.9	270611.92	6143658.23	54	138	29	30.689	34	49	24.71	138.4918579	34.8235307	-34.8235307	PORT ADEL	D2790	A69	CT 5421 61	SI5409	6528	2	35	e	4
149738	6528-1840	6.53E+08	WW	Qhcks	7	3/01/1995	7	33189		DOM					894	1620	7.7	0.9	270866.97	6142983.18	54	138	29	40.056	34	49	46.811	138.49446	34.8296697	-34.8296697	PORT ADEL	D82278	A701	CT 6045 74	SI5409	6528	2	35	m	3
149739	6528-1841	6.53E+08	WW	Qhcks	8.5	15/12/1994	8.5	33226		DOM					1038	1880	7.9	0.8	270696.91	6143938.19	54	138	29	34.306	34	49	15.7	138.4928629	34.8210277	-34.8210277	PORT ADEL	F4668	A106	CT 5824 67	SI5409	6528	2	35	e	4
149745	6528-1847	6.53E+08	WW	Qhcks	8.2	14/12/1994	8.2	33069		DOM					843	1530	7.4	0.8	270681.75	6144218.42	54	138	29	33.986	34	49	6.599	138.4927738	34.8184996	-34.8184996	PORT ADEL	F45305	A11	CT 5933 76	SI5409	6528	2	35	e	3
149746	6528-1848	6.53E+08	WW	Qhcks	9.15	13/12/1994	9.15	33264		DOM					1094	1980	7.7	0.8	270661.86	6144413.4	54	138	29	33.395	34	49	0.259	138.4926098	34.8167386	-34.8167386	PORT ADEL	D1092	A66	CT 5611 50	SI5409	6528	2	35	e	3
149747	6528-1849	6.53E+08	WW	Qhcks	8.5	13/10/1994	8.5	32727		DOM					699	1270	7.7	0.75	270646.85	6144058.37	54	138	29	32.456	34	49	11.761	138.4923489	34.8199337	-34.8199337	PORT ADEL	F4668	A130	CT 5701 82	SI5409	6528	2	35	e	4
149748	6528-1850	6.53E+08	WW	Qhcks	7	16/12/1994	7	33259		DOM					1284	2320	7.6	0.9	271031.9	6144463.27	54	138	29	47.997	34	48	58.941	138.4966658	34.8163726	-34.8163726	PORT ADEL	D3096	A46	CT 5173 72	SI5409	6528	2	35	e	3
149749	6528-1851	6.53E+08	WW	Qhcks	6.1	23/12/1994	6.1	33184		DOM					1010	1830	7.4	0.98	271086.79	6143618.27	54	138	29	49.326	34	49	26.391	138.4970349	34.8239976	-34.8239976	PORT ADEL	D3186	A60	CT 5393 67	SI5409	6528	2	35	e	4
149769	6528-1857	6.53E+08	WW	Qhcks	7.9	26/12/1994	7.9	33258		DOM					1049	1900	7.5	0.9	271111.89	6145568.27	54	138	29	52.226	34	48	23.168	138.4978406	34.8064355	-34.8064355	PORT ADEL	D91592	A703	CT 6113 62	SI5409	6528	2	35	d	4
149770	6528-1858	6.53E+08	WW	Qhcks	6.7	21/12/1994	6.7	33158		IRR					1508	2720	7.1	0.9	271091.86	6144698.2	54	138	29	50.585	34	48	51.37	138.4973847	34.8142696	-34.8142696	PORT ADEL	D5007	A3	CT 5527 11	SI5409	6528	2	35	e	3
152919	6528-1866	6.53E+08	WW	Qhcks	6.9	20/04/1995	6.9	33098		DOM					722	1310	7.7	0.9	270691.86	6143298.26	54	138	29	33.479	34	49	36.45	138.492633	34.8267917	-34.8267917	PORT ADEL	F4279	A24	CT 5232 82	SI5409	6528	2	35	m	3
152920	6528-1867	6.53E+08	WW	Qhcks	7	6/09/1995	7	34386		DOM					1188	2150	7.5	0.1	270781.97	6143538.28	54	138	29	37.259	34	49	28.739	138.4936829	34.8246497	-34.8246497	PORT ADEL	D2328	A40	CT 5191 25	SI5409	6528	2	35	e	4
152921	6528-1868	6.53E+08	WW	Qhcks	7.3	14/09/1995	7.3	34576		DOM					644	1170	7.4	0.8	270606.79	6143413.35	54	138	29	30.246	34	49	32.648	138.491735	34.8257357	-34.8257357	PORT ADEL	F4337	A109	CT 5408 20	SI5409	6528	2	35	m	3
152925	6528-1872	6.53E+08	WW	Qhcks	5.4	4/05/1995	5.4	34735		DOM					3252	5800	7.5	0.37	271161.8	6145138.39	54	138	29	53.767	34	48	37.15	138.4982687	34.8103195	-34.8103195	PORT ADEL	D16463	A84	CT 5677 65	SI5409	6528	2	35	d	4
152927	6528-1874	6.53E+08	WW	Qhcks	8.5	21/04/1995	8.5	34739		DOM					794	1440	7.5	0.75	270632.02	6144358.37	54	138	29	32.168	34	49	2.019	138.4922688	34.8172276	-34.8172276	PORT ADEL	D1092	A39	CT 5724 42	SI5409	6528	2	35	e	3
152928	6528-1875	6.53E+08	WW	Qhcks	8.85	1/09/1995	8.85	34810		DOM					1105	2000	7.2	0.8	270351.97	6143263.22	54	138	29	20.076	34	49	37.311	138.48891	34.8270307	-34.8270307	PORT ADEL	D343	A199	CT 5215 20	SI5409	6528	2	35	m	2
152929	6528-1876	6.53E+08	WW	Qhcks	5.5	20/05/1995	5.5	35043		DOM					1440	2600	8.1	0.02	271087.02	6142828.4	54	138	29	48.559	34	49	52.009	138.496822	34.8311137	-34.8311137	PORT ADEL	D89846	A101	CT 6099 28	SI5409	6528	2	35	m	3
152930	6528-1877	6.53E+08	WW	Qhcks	5.5	1/09/1995	5.5	35046		DOM					2545	4560	7.3	0.55	270826.98	6142803.36	54	138	29	38.307	34	49	52.611	138.493974	34.8312807	-34.8312807	PORT ADEL	D1113	A105	CT 5357 39	SI5409	6528	2	35	m	4
152931	6528-1878	6.53E+08	WW	Qhcks	7.3	19/06/1995	7.3	35131		DOM					772	1400	7.4	0.89	270621.99	6143153.43	54	138	29	30.588	34	49	41.091	138.49183	34.8280807	-34.8280807	PORT ADEL	F25221	A57	CT 5594 22	SI5409	6528	2	35	m	3
152932	6528-1879	6.53E+08	WW	Qhcks	9.4	27/05/1995	9.4	35148		DOM					772	1400	7.5	0.68	270606.99	6144188.14	54	138	29	31.016	34	49	7.52	138.4919489	34.8187556	-34.8187556	PORT ADEL	D2108	A99	CT 5671 65	SI5409	6528	2	35	e	4
152933	6528-1880	6.53E+08	WW	Qhcks	8	8/10/1995	8	35955		DOM					622	1130	7	0.86	270572.03	6143423.25	54	138	29	28.889	34	49	32.299	138.491358	34.8256387	-34.8256387	PORT ADEL	F4337	A101	CT 5087 54	SI5409	6528	2	35	m	2
153053	6528-1886	6.53E+08	WW	Qhcks	7.5	1/12/1995	7.5	34758	3.5	DOM		3.5	1.28	1/12/1995	783	1420	7.3		270741.89	6143168.2	54	138	29	35.318	34	49	40.709	138.493144	34.8279747	-34.8279747	PORT ADEL	F25221	A63	CT 5086 76	SI5409	6528	2	35	m	3
153399	6528-1892	6.53E+08	WW	Qhcks	6	22/11/1995	6	34286		DOM					1401	2530	7.8	0.8	271041.78	6143038.17	54	138	29	46.986	34	49	45.169	138.496385	34.8292137	-34.8292137	PORT ADEL	D2079	A3	CT 5836 68	SI5409	6528	2	35	m	3
153400	6528-1893	6.53E+08	WW	Qhcks	7	25/10/1995	7	35044		DOM					772	1400	7.7	0.9	270662.01	6143423.28	54	138	29	32.427	34	49	32.371	138.492341	34.8256587	-34.8256587	PORT ADEL	D2328	A68	CT 5123 13	SI5409	6528	2	35	m	3
153401	6528-1894	6.53E+08	WW	Qhcks	6.5	29/09/1995	6.5	35612		DOM					882	1600	7.6	0.8	271181.78	6145823.43	54	138	29	55.225	34	48	14.949	138.4986735	34.8041525	-34.8041525	PORT ADEL	D2775	A176	CT 5642 16	SI5409	6528	2	35	d	3
153403	6528-1896	6.53E+08	WW	Qhcks	8.2	17/11/1995	8.2	36204		DOM					788	1430	7.6	0.8	270922	6144568.19	54	138	29	43.778	34	48	55.449	138.4954938	34.8154026	-34.8154026	PORT ADEL	F4802	A55	CT 5499 73	SI5409	6528	2	35	e	3
153404	6528-1897	6.53E+08	WW	Qhcks	11.7	29/11/1995	11.7	36222		DOM					799	1450	7.6	0.5	270481.8	6144263.37	54	138	29	26.167	34	49	4.979	138.4906019	34.8180497	-34.8180497	PORT ADEL	F4707	A227	CT 5200 52	SI5409	6528	2	35	e	2
153405	6528-1898	6.53E+08	WW	Qhcks	9.8	15/11/1995	9.8	36223		DOM					865	1570	7.6	0.52	270081.74	6142998.37	54	138	29	9.186	34	49	45.681	138.4858851	34.8293558	-34.8293558	PORT ADEL	D341	A42	CT 5308 37	SI5409	6528	2	35	m	2
153408	6528-1901	6.53E+08	WW	Qhcks	5.5	26/11/1995	5.5	36321		DOM					1737	3130	7.6	0.6	270541.78	6142628.17	54	138	29	26.916	34	49	58.061	138.4908101	34.8327947	-34.8327947	PORT ADEL	F4424	A137	CT 5136 20	SI5409	6528	2	35	m	5
153409	6528-1902	6.53E+08	WW	Qhcks	6.7	28/11/1995	6.7	36329		DOM					788	1430	7.3	0.8	270721.78	6143218.2	54	138	29	34.577	34	49	39.071	138.492938	34.8275197	-34.8275197	PORT ADEL	D2077	A52	CT 5247 20	SI5409	6528	2	35	m	3
155064	6528-1914	6.53E+08	WW	Qhcks	7.6	19/12/1995	7.6	36401		DOM					766	1390	7.2	0.8	270981.94	6144803.35	54	138	29	46.366	34	48	47.871	138.4962127	34.8132976	-34.8132976	PORT ADEL	D2533	A419	CT 5700 60	SI5409	6528	2	35	e	3
155066	6528-1916	6.53E+08	WW	Qhcks	7.3	8/01/1996	7.3	36667		DOM					594	1080	7.1	0.75	270666.74	6144218.27	54	138	29	33.395	34	49	6.592	138.4926099	34.8184976	-34.8184976	PORT ADEL	F45305	A10	CT 5933 76	SI5409	6528	2	35	e	3
155067	6528-1917	6.53E+08	WW	Qhcks	7.6	18/01/1996	7.6	36725		DOM					927	1680	7.3	0.8	271071.95	6146038.36	54	138	29	51.117	34	48	7.889	138.4975325	34.8021915	-34.8021915	PORT ADEL	D2252	A296	CT 5552 54	SI5409	6528	2	35	d	3
155068	6528-1918	6.53E+08	WW	Qhcks	6	14/01/1996	6	36749	2	DOM									271031.83	6142788.17	54	138	29	46.349	34	49	53.269	138.496208	34.8314637	-34.8314637	PORT ADEL	D2151	A20	CT 5156 89	SI5409	6528	2	35	m	4
155924	6528-1925	6.53E+08	WW	Qhcks	5.8	25/01/1996	5.8	34113		DOM					932	1690	7.4	0.75	271001.96	6143258.17	54	138	29	45.636	34	49	38.002	138.4960099	34.8272227	-34.8272227	PORT ADEL	D2078	A4	CT 5194 66	SI5409	6528	2	35	m	3
155925	6528-1926	6.53E+08	WW	Qhcks	6	19/01/1996	6	36168		DOM					932	1690	7.4	0.8	270936.75	6143263.43	54	138	29	43.076	34	49	37.778	138.495299	34.8271607	-34.8271607	PORT ADEL	F4279	A54	CT 5399 28	SI5409	6528	2	35	m	3
155926	6528-1927	6.53E+08	WW	Qhcks	13.2	13/02/1996	13.2	36345		DOM					1021	1850	7.2	0.5	270581.85	6144768.37	54	138	29	30.598	34	48	48.681	138.4918328	34.8135226	-34.8135226	PORT ADEL	F4957	A56	CT 5499 89	SI5409	6528	2	35	e	3
155927	6528-1928	6.53E+08	WW	Qhcks	8.2	6/02/1996	8.2	36891		DOM					1027	1860	7.4	0.6	270601.94	6144148.27	54	138	29	30.778	34	49	8.809	138.4918829	34.8191137	-34.8191137	PORT ADEL	D2108	A14	CT 5672 91	SI5409	6528	2	35	e	4
155928	6528-1929	6.53E+08	WW	Qhcks	6	24/01/1996	6	36937		DOM					1210	2190	6.8	0.8	271166.83	6143528.47	54	138	29	52.386	34	49	29.369	138.4978849	34.8248246	-34.8248246	PORT ADEL	C24897			SI5409	6528	2	35	e	4
155929	6528-1930	6.53E+08	WW	Qhcks	8.5	8/02/1996	8.5	36973		IRR					639	1160	7.6	0.9	270311.78	6143508.3	54	138	29	18.737	34	49	29.329	138.488538	34.8248137	-34.8248137	PORT ADEL	D1195	A249	CT 5121 67	SI5409	6528	2	35	e	5
155930	6528-1931	6.53E+08	WW	Qhcks	7	3/03/1996	7	36994		DOM					1154	2090	7.2	0.8	270821.89	6143303.4	54	138	29	38.598	34	49	36.389	138.494055	34.8267747	-34.8267747	PORT ADEL	D2077	A34	CT 5197 61	SI5409	6528	2	35	m	3
155931	6528-1932	6.53E+08	WW	Qhcks	10.7	27/02/1996	10.7	37084		DOM					594	1080	7.3	0.4	270481.93	6144148.37	54	138	29	26.059	34	49	8.708	138.4905719	34.8190857	-34.8190857	PORT ADEL	D2108	A31	CT 5780 51	SI5409	6528	2	35	e	5
156118	6528-1935	6.53E+08	WW	Qhcks	6	3/01/1996	6	34757		DOM					1049	1900	7.5	0.8	270687.05	6142993.22	54	138	29	32.989	34	49	46.339	138.492497	34.8295387	-34.8295387	PORT ADEL	D84283	A277	CT 6061 60	SI5409	6528	2	35	m	3
156119	6528-1936	6.53E+08	WW	Qhcks	8.5	20/12/1995	8.5	36427		DOM					1546	2790	7.6	0.8	270586.8	6144153.44	54	138	29	30.188	34	49	8.629	138.4917189	34.8190637	-34.8190637	PORT ADEL	D2108	A13	CT 5678 24	SI5409	6528	2	35	e	4
156120	6528-1937	6.53E+08	WW	Qhcks	10	2/01/1996	10	36431		DOM					1300	2350	7.4	0.6	270316.88	6143783.49	54	138	29	19.208	34	49	20.409	138.488669	34.8223357	-34.8223357	PORT ADEL	D38298	A100	CT 5158 78	SI5409	6528	2	35	e	5
156121	6528-1938	6.53E+08	WW	Qhcks	10	11/11/1995	10	36188		DOM					916	1660	7.5	0.55	270071.98	6142953.39	54	138	29	8.758	34	49	47.132	138.4857661	34.8297588	-34.8297588	PORT ADEL	D1545	A21	CT 5290 47	SI5409	6528	2	35	m	2
156122	6528-1939	6.53E+08	WW	Qhcks	9.5	5/01/1996	9.5	36567		DOM					594	1080	7.8	0.6	270331.89	6143213.43	54	138	29	19.237	34	49	38.909	138.488677	34.8274747	-34.8274747	PORT ADEL	D343	A173	CT 5812 54	SI5409	6528	2	35	m	2
156366	6528-1950	6.53E+08	WW	Qhcks	6	12/12/1995	6	36508		DOM		4	0.67	12/12/1995	1188	2150	7.8		271252	6146088.14	54	138	29	58.245	34	48	6.42	138.4995125	34.8017835	-34.8017835	PORT ADEL	D3410	A37	CT 5649 56	SI5409	6528	2	35	d	3
156508	6528-1965	6.53E+08	WW	Qhcks	7.3	11/10/1994	7.3	32994		DOM					755	1370	7.6	0.8	270706.89	6143663.38	54	138	29	34.429	34	49	24.62	138.4928969	34.8235057	-34.8235057	PORT ADEL	D2790	A46	CT 5748 42	SI5409	6528	2	35	e	4
156509	6528-1966	6.53E+08	WW	Qhcks	12	12/10/1995	12	36019		DOM					672	1220	7.7	0.5	270625.91	6144248.13	54	138	29	31.858	34	49	5.591	138.4921829	34.8182196	-34.8182196	PORT ADEL	F4731	A170	CT 5450 5	SI5409	6528	2	35	e	3
156510	6528-1967	6.53E+08	WW	Qhcks	10	13/12/1995	10	36290		DOM					910	1650	7.6	0.6	270496.98	6144143.2	54	138	29	26.646	34	49	8.888	138.4907349	34.8191357	-34.8191357	PORT ADEL	D2108	A30	CT 5759 2	SI5409	6528	2	35	e	5
156511	6528-1968	6.53E+08	WW	Qpah	5.2	16/12/1995	5.2	36367		DOM					2323	4170	7.5	0.45	271181.97	6142508.2	54	138	29	51.979	34	50	2.471	138.497772	34.8340197	-34.8340197	PORT ADEL	F20039	A53	CT 5468 2	SI5409	6528	2	35	m	4
156512	6528-1969	6.53E+08	WW	Qhcks	8.2	4/12/1995	8.2	36440		DOM					722	1310	7.6	0.8	271021.78	6144553.37	54	138	29	47.687	34	48	56.011	138.4965798	34.8155586	-34.8155586	PORT ADEL	F4802	A72	CT 5786 5	SI5409	6528	2	35	e	3
156513	6528-1970	6.53E+08	WW	Qhcks	9	15/12/1995	9	36447		DOM					1083	1960	7.6	0.7	270266.87	6142908.33	54	138	29	16.379	34	49	48.752	138.4878831	34.8302088	-34.8302088	PORT ADEL	F4203	A11	CT 5136 6	SI5409	6528	2	35	m	2
156514	6528-1971	6.53E+08	WW	Qhcks	5.2	16/12/1995	5.2	36497		DOM					1132	2050	7.6	0.8	271036.91	6143233.18	54	138	29	46.986	34	49	38.84	138.4963849	34.8274557	-34.8274557	PORT ADEL	D2078	A56	CT 5661 9	SI5409	6528	2	35	m	3
156516	6528-1973	6.53E+08	WW	Qhcks	8	23/02/1996	8	36805		DOM					1266	2290	7.4	0.8	270886.95	6143498.28	54	138	29	41.348	34	49	30.121	138.4948189	34.8250337	-34.8250337	PORT ADEL	D2328	A19	CT 5710 9	SI5409	6528	2	35	m	3
156518	6528-1975	6.53E+08	WW	Qhcks	7.6	1/02/1996	7.6	36824		DOM					1776	3200	7.3	0.75	270941.81	6144343.25	54	138	29	44.336	34	49	2.761	138.4956488	34.8174336	-34.8174336	PORT ADEL	D2290	A272	CT 5691 6	SI5409	6528	2	35	e	3
156519	6528-1976	6.53E+08	WW	Qhcks	5.8	23/01/1996	5.8	36901		DOM					578	1050	7.2	0.8	270701.78	6142463.23	54	138	29	33.047	34	50	3.54	138.4925131	34.8343167	-34.8343167	PORT ADEL	F3497	A72	CT 5557 6	SI5409	6528	2	35	m	4
156522	6528-1979	6.53E+08	WW	Qpah	4	31/01/1996	4	36945		DOM					2103	3780	7.3	0.6	271356.84	6143158.26	54	138	29	59.496	34	49	41.529	138.4998599	34.8282026	-34.8282026	PORT ADEL	D611	A40	CT 5272 7	SI5409	6528	2	35	m	3
156523	6528-1980	6.53E+08	WW	Qhcks	5	9/02/1996	5	36947		DOM					1468	2650	7.3	0.8	270891.8	6142773.24	54	138	29	40.827	34	49	53.64	138.494674	34.8315667	-34.8315667	PORT ADEL	D2151	A44	CT 5741 1	SI5409	6528	2	35	m	4
159692	6528-1987	6.53E+08	WW	Qhcks	7.2	21/05/1996	7.2	37452		DOM					1016	1840	7.4	0.8	270771.76	6143558.34	54	138	29	36.877	34	49	28.08	138.4935769	34.8244667	-34.8244667	PORT ADEL	F4429	A4	CT 5574 5	SI5409	6528	2	35	e	4

159693	6528-1988	6.53E+08	WW	Qhcks	8.5	12/04/1996	8.5	37543		DOM					988	1790	7.7	0.8	270891.93	6144793.44	54	138	29	42.816	34	48	48.12	138.4952267	34.8133666	-34.8133666	PORT ADEL	D2533	A424	CT 5305 61	SI5409	6528	2	35	e	3
159695	6528-1990	6.53E+08	WW	Qhcks	14.3	24/11/1995	14.3	36283		DOM					860	1560	7.8	0.5	270546.99	6144698.12	54	138	29	29.158	34	48	50.931	138.4914328	34.8141476	-34.8141476	PORT ADEL	D2331	A109	CT 5242 78	SI5409	6528	2	35	e	2
159696	6528-1991	6.53E+08	WW	Qhcks	7	27/03/1996	7	37441		DOM					1049	1900	7.7	0.8	271101.8	6144098.16	54	138	29	50.387	34	49	10.839	138.4973298	34.8196776	-34.8196776	PORT ADEL	D426	A129	CT 5716 40	SI5409	6528	2	35	e	4
159697	6528-1992	6.53E+08	WW	Qpah	5	12/04/1996	5	37463		DOM					3690	6560	7.9	0.4	271296.85	6142628.29	54	138	29	56.616	34	49	58.669	138.49906	34.8329637	-34.8329637	PORT ADEL	D68089	A931	CT 5949 62	SI5409	6528	2	35	m	4
159698	6528-1993	6.53E+08	WW	Qhcks	7.3	23/05/1996	7.3	37774		DOM					1519	2740	7.5	0.8	270751.79	6143493.34	54	138	29	36.027	34	49	30.172	138.4933409	34.8250477	-34.8250477	PORT ADEL	D2328	A47	CT 5137 38	SI5409	6528	2	35	m	3
159985	6528-1997	6.53E+08	WW	Qhcks	6.5	9/04/1996	6.5	37069		DOM					374	680	8.1	0.75	270522.02	6142913.17	54	138	29	26.419	34	49	48.802	138.4906721	34.8302227	-34.8302227	PORT ADEL	D341	A168	CT 5788 31	SI5409	6528	2	35	m	2
159986	6528-1998	6.53E+08	WW	Qhcks	8.5	14/05/1996	8.5	37077		DOM					655	1190	8.1	0.6	270861.81	6144423.28	54	138	29	41.268	34	49	0.101	138.4947968	34.8166946	-34.8166946	PORT ADEL	D2290	A247	CT 5207 88	SI5409	6528	2	35	e	3
159990	6528-2002	6.53E+08	WW	Qhcks	8.8	3/05/1996	8.8	37672		DOM					1519	2740	8.1	0.6	270471.94	6143703.12	54	138	29	25.227	34	49	23.141	138.490341	34.8230947	-34.8230947	PORT ADEL	D1996	A64	CT 5215 65	SI5409	6528	2	35	e	5
159991	6528-2003	6.53E+08	WW	Qhcks	7.3	10/05/1996	7.3	37755		DOM					1116	2020	8.1	0.75	270971.87	6143803.21	54	138	29	44.988	34	49	20.3	138.4958299	34.8223056	-34.8223056	PORT ADEL	D3186	A32	CT 5712 85	SI5409	6528	2	35	e	4
162866	6528-2006	6.53E+08	WW	Qhcks	9	10/11/1996	9	38999	10	DOM		7.5	2.04	10/11/1996	966	1750	7.2	0.37	270746.98	6145578.25	54	138	29	37.888	34	48	22.549	138.4938576	34.8062636	-34.8062636	PORT ADEL	D2413	A94	CT 5646 70	SI5409	6528	2	35	d	4
163057	6528-2013	6.53E+08	WW	Qhcks	9.4	17/10/1996	9.4	37181		DOM		5.5	1.23	17/10/1996	1367	2470		0.8	270821.86	6144443.26	54	138	29	39.717	34	48	59.42	138.4943658	34.8165056	-34.8165056	PORT ADEL	D2290	A200	CT 5208 54	SI5409	6528	2	35	e	3
163058	6528-2014	6.53E+08	WW	Qhcks	6.4	6/11/1996	6.4	37329		DOM		2.4	2.31	6/11/1996	1239	2240		0.8	270606.95	6142858.35	54	138	29	29.706	34	49	50.649	138.4915851	34.8307357	-34.8307357	PORT ADEL	D22262	A1	CT 5440 77	SI5409	6528	2	35	m	2
163059	6528-2015	6.53E+08	WW	Qhcks	8.5	27/09/1996	8.5	37415		DOM		4.3	0.71	27/09/1996	1373	2480		0.8	270431.82	6143203.28	54	138	29	23.158	34	49	39.319	138.489766	34.8275887	-34.8275887	PORT ADEL	F4191	A43	CT 5584 60	SI5409	6528	2	35	m	2
163061	6528-2017	6.53E+08	WW	Qhcks	7.3	4/09/1996	7.3	38453		DOM		3.3	1.59	4/09/1996	1132	2050		0.8	271006.81	6144643.35	54	138	29	47.187	34	48	53.08	138.4964407	34.8147446	-34.8147446	PORT ADEL	D7132	A2	CT 5599 70	SI5409	6528	2	35	e	3
163062	6528-2018	6.53E+08	WW	Qhcks	6	9/10/1996	6	38561		DOM		2.1	2.57	9/10/1996	1328	2400		0.75	270961.8	6145998.31	54	138	29	46.747	34	48	9.099	138.4963186	34.8025275	-34.8025275	PORT ADEL	D7573	A91	CT 5595 73	SI5409	6528	2	35	d	3
163063	6528-2019	6.53E+08	WW	Qhcks	10	20/09/1996	10	38562		DOM		5.5	-0.49	20/09/1996	783	1420		0.8	270111.89	6142953.17	54	138	29	10.328	34	49	47.171	138.4862021	34.8297698	-34.8297698	PORT ADEL	D1545	A23	CT 5235 48	SI5409	6528	2	35	m	2
163064	6528-2020	6.53E+08	WW	Qhcks	6.3	30/10/1996	6.3	39008		DOM		1.8	3.15	30/10/1996	1205	2180		0.8	270946.91	6143948.44	54	138	29	44.149	34	49	15.57	138.4955969	34.8209916	-34.8209916	PORT ADEL	D426	A41	CT 5194 34	SI5409	6528	2	35	e	4
163066	6528-2022	6.53E+08	WW	Qhcks	5.8	22/11/1996	5.8	39050		DOM		2.1	1.57	22/11/1996	6062	10600		0.55	271307	6145178.42	54	138	29	59.516	34	48	35.969	138.4998656	34.8099915	-34.8099915	PORT ADEL	D2789	A46	CT 5326 56	SI5409	6528	2	35	d	4
163067	6528-2023	6.53E+08	WW	Qhcks	5.5	12/11/1996	5.5	39075		DOM		1.8	2.76	12/11/1996	1496	2700		0.8	271211.9	6143538.14	54	138	29	54.168	34	49	29.091	138.4983799	34.8247476	-34.8247476	PORT ADEL	D3186	A120	CT 5235 44	SI5409	6528	2	35	e	4
163068	6528-2024	6.53E+08	WW	Qhcks	7	2/12/1996	7	39185		DOM		3.3	1.53	2/12/1996	1239	2240		0.8	270861.94	6143418.4	54	138	29	40.286	34	49	32.692	138.4945239	34.8257477	-34.8257477	PORT ADEL	D2328	A12	CT 5704 48	SI5409	6528	2	35	m	3
163070	6528-2026	6.53E+08	WW	Qhcks	7	3/12/1996	7	39222		DOM		3	1.88	3/12/1996	1356	2450		0.8	271156.93	6143998.42	54	138	29	52.457	34	49	14.119	138.4979048	34.8205886	-34.8205886	PORT ADEL	D426	A99	CT 5472 30	SI5409	6528	2	35	e	4
163071	6528-2027	6.53E+08	WW	Qpah	5.5	6/12/1996	5.5	39235		DOM		1.8	2.59	6/12/1996	2132	3830		0.68	270971.89	6142418.15	54	138	29	43.627	34	50	5.221	138.4954521	34.8347837	-34.8347837	PORT ADEL	C26405			SI5409	6528	2	35	m	4
164336	6528-2032	6.53E+08	WW	Qhcks	6	30/01/1997	6	37044	5.9	DOM		1.5	2.99	30/01/1997	1255	2270		1.5	270901.88	6142758.28	54	138	29	41.208	34	49	54.133	138.49478	34.8317037	-34.8317037	PORT ADEL	D2151	A41	CT 5288 22	SI5409	6528	2	35	m	4
166958	6528-2043	6.53E+08	WW	Qhcks	6	6/10/1997	6	42438	6	IRR		4	1	6/10/1997	1429	2580		0.8	270246.88	6142738.33	54	138	29	15.425	34	49	54.249	138.4876181	34.8317358	-34.8317358	PORT ADEL	H105800	S1098	CT 5932 85	SI5409	6528	2	35	m	5
166959	6528-2044	6.53E+08	WW	Qhcks	6	6/10/1997	6	42439	6	IRR		4	1	6/10/1997	1440	2600		0.8	270226.89	6142783.34	54	138	29	14.684	34	49	52.773	138.4874121	34.8313258	-34.8313258	PORT ADELAIDE				SI5409	6528	2	35	m	5
166960	6528-2045	6.53E+08	WW	Qhcks	6	7/10/1997	6	42440	6	IRR		4	0.99	7/10/1997	1440	2600		0.8	270246.86	6142808.26	54	138	29	15.494	34	49	51.981	138.4876371	34.8311058	-34.8311058	PORT ADEL	H105800	S1098	CT 5932 85	SI5409	6528	2	35	m	2
166961	6528-2046	6.53E+08	WW	Qhcks	6	7/10/1997	6	42441	6	IRR		4	0.95	7/10/1997	1440	2600		0.8	270311.94	6142808.34	54	138	29	18.053	34	49	52.031	138.4883481	34.8311198	-34.8311198	PORT ADEL	H105800	S1098	CT 5932 85	SI5409	6528	2	35	m	2
166962	6528-2047	6.53E+08	WW	Qhcks	6	7/10/1997	6	42442	6	IRR		4	0.9	7/10/1997	1440	2600		0.8	270386.89	6142823.31	54	138	29	21.016	34	49	51.606	138.4891711	34.8310017	-34.8310017	PORT ADEL	H105800	S1098	CT 5932 85	SI5409	6528	2	35	m	2
166963	6528-2048	6.53E+08	WW	Qhcks	6	8/10/1997	6	42443	6	IRR		4	0.86	8/10/1997	1429	2580		0.8	270416.93	6142833.28	54	138	29	22.208	34	49	51.307	138.4895021	34.8309187	-34.8309187	PORT ADEL	H105800	S1098	CT 5932 85	SI5409	6528	2	35	m	2
167604	6528-2053	6.53E+08	WW	Qhcks	7.5	3/11/1997	7.5	43316	3.6			4.72	1.29	3/11/1997					270748.85	6145972.34	54	138	29	38.348	34	48	9.769	138.4939856	34.8027135	-34.8027135	PORT ADEL	D59587	A100	CT 5875 72	SI5409	6528	2	35	d	3
167605	6528-2054	6.53E+08	WW	Qhcks	6	7/11/1997	6	43345	3	INV		4.68	1.27	7/11/1997					270741.92	6145971.28	54	138	29	38.075	34	48	9.798	138.4939096	34.8027215	-34.8027215	PORT ADEL	D59587	A100	CT 5875 72	SI5409	6528	2	35	d	3
167606	6528-2055	6.53E+08	WW	Qhcks	6	7/11/1997	6	43346	3	INV		4.74	1.28	7/11/1997					270745.88	6145970.27	54	138	29	38.229	34	48	9.834	138.4939526	34.8027315	-34.8027315	PORT ADEL	D59587	A100	CT 5875 72	SI5409	6528	2	35	d	3
167607	6528-2056	6.53E+08	WW	Qhcks	6	7/11/1997	6	43347	2.8	INV		4.87	1.29	7/11/1997					270757.9	6145969.24	54	138	29	38.701	34	48	9.877	138.4940836	34.8027435	-34.8027435	PORT ADEL	D59587	A100	CT 5875 72	SI5409	6528	2	35	d	3
167608	6528-2057	6.53E+08	WW	Qhcks	6	7/11/1997	6	43348	3	INV		4.39	1.29	7/11/1997					270749.91	6145981.25	54	138	29	38.398	34	48	9.481	138.4939996	34.8026335	-34.8026335	PORT ADEL	D59587	A100	CT 5875 72	SI5409	6528	2	35	d	3
169589	6528-2070	6.53E+08	WW	Qhcks	5.5	4/06/1998	5.5	44607	5.5	MON		1.5	3.41	4/06/1998				0.2	271016.87	6145868.26	54	138	29	48.784	34	48	13.361	138.4968846	34.8037115	-34.8037115	PORT ADEL	F5016	A1	CT 5615 32	SI5409	6528	2	35	d	3
169590	6528-2071	6.53E+08	WW	Qhcks	5.5	4/06/1998	5.5	44608	5.5	MON		1.5	3.44	4/06/1998				0.2	271026.94	6145868.29	54	138	29	49.18	34	48	13.369	138.4969946	34.8037135	-34.8037135	PORT ADEL	F5016	A1	CT 5615 32	SI5409	6528	2	35	d	3
169591	6528-2072	6.53E+08	WW	Qhcks	5.5	4/06/1998	5.5	44609	5.5	MON		1.5	3.45	4/06/1998				0.2	271026.92	6145858.3	54	138	29	49.17	34	48	13.693	138.4969916	34.8038035	-34.8038035	PORT ADEL	F5016	A1	CT 5615 32	SI5409	6528	2	35	d	3
169592	6528-2073	6.53E+08	WW	Qhcks	5.5	4/06/1998	5.5	44611	5.5	MON		1.5	3.42	4/06/1998				0.2	271016.94	6145858.27	54	138	29	48.777	34	48	13.685	138.4968826	34.8038015	-34.8038015	PORT ADEL	F5016	A1	CT 5615 32	SI5409	6528	2	35	d	3
169593	6528-2074	6.53E+08	WW	Qhcks	5.5	4/06/1998	5.5	44612	5.5	MON		1.5	3.45	4/06/1998				0.2	271021.86	6145848.3	54	138	29	48.961	34	48	14.013	138.4969336	34.8038925	-34.8038925	PORT ADEL	F5016	A1	CT 5615 32	SI5409	6528	2	35	d	3
174102	6528-2097	6.53E+08	WW	Qhcks	13.3	26/11/1996	13.3	39394		DOM		9.2	2.08	26/11/1996	1049	1900		0.5	270586.93	6144693.35	54	138	29	30.724	34	48	51.119	138.4918678	34.8141996	-34.8141996	PORT ADEL	D2331	A193	CT 5351 58	SI5409	6528	2	35	e	3
174105	6528-2100	6.53E+08	WW	Qhcks	6.1	3/01/1997	6.1	39606		DOM		2.1	2.57	3/01/1997	2364	4240		0.8	271011.86	6143338.34	54	138	29	46.104	34	49	35.41	138.4961399	34.8265026	-34.8265026	PORT ADEL	D2078	A34	CT 5339 64	SI5409	6528	2	35	m	3
174106	6528-2101	6.53E+08	WW	Qhcks	7.3	12/01/1997	7.3	39607		DOM		3.4	1.52	12/01/1997	766	1390		0.8	270886.85	6143813.29	54	138	29	41.654	34	49	19.904	138.4949039	34.8221956	-34.8221956	PORT ADEL	D3186	A23	CT 5272 94	SI5409	6528	2	35	e	4
174107	6528-2102	6.53E+08	WW	Qhcks	6.1	19/12/1996	6.1	39644		DOM		2.4	2.39	19/12/1996	983	1780		0.75	271331.92	6144058.28	54	138	29	59.398	34	49	12.319	138.4998328	34.8200886	-34.8200886	PORT ADEL	D9013	A16	CT 5550 10	SI5409	6528	2	35	e	4
174108	6528-2103	6.53E+08	WW	Qhcks	7	27/12/1996	7	39645		IRR		3	1.46	27/12/1996	506	920		0.8	271071.91	6144793.27	54	138	29	49.894	34	48	48.271	138.4971927	34.8134086	-34.8134086	PORT ADEL	D2533	A414	CT 5148 16	SI5409	6528	2	35	e	3
174109	6528-2104	6.53E+08	WW	Qhcks	6.4	8/01/1997	6.4	39655		DOM		2.4	2.11	8/01/1997	1066	1930		0.8	271121.87	6144508.25	54	138	29	51.579	34	48	57.555	138.4976607	34.8159876	-34.8159876	PORT ADEL	D56186	A581	CT 5845 66	SI5409	6528	2	35	e	3
174110	6528-2105	6.53E+08	WW	Qhcks	7	15/01/1997	7	39667		DOM		3	1.65	15/01/1997	843	1530		0.8	271116.92	6145403.34	54	138	29	52.262	34	48	28.521	138.4978506	34.8079225	-34.8079225	PORT ADEL	D2732	A132	CT 5178 20	SI5409	6528	2	35	d	4
174111	6528-2106	6.53E+08	WW	Qhcks	8.5	13/01/1997	8.5	39722		IRR		4.6	0.4	13/01/1997	550	1000		0.75	270016.86	6143118.29	54	138	29	6.753	34	49	41.739	138.4852091	34.8282608	-34.8282608	PORT ADEL	F3881	A101	CT 5093 48	SI5409	6528	2	35	m	2
174112	6528-2107	6.53E+08	WW	Qpah	6.1	16/01/1997	6.1	39739		DOM		2.1	2.02	16/01/1997	1205	2180		0.8	271251.85	6142363.32	54	138	29	54.586	34	50	7.226	138.498496	34.8353407	-34.8353407	PORT ADEL	F3889	A65	CT 5833 24	SI5409	6528	2	35	m	4
27762	6628-1980	6.63E+08	WW	Qhcks	6	30/06/1981	6	9709				3	1.38	30/06/1981				0.5	271348.71	6144493.27	54	138	30	0.485	34	48	58.225	138.5001347	34.8161735	-34.8161735	PORT ADEL	D9013	A10	CT 5548 92	SI5409	6628	3	31	h	1
27796	6628-1980	6.63E+08	WW	Qhcks	6	1/10/1982	6	10926										0.5	271314.76	6145370.31	54	138	30	0.009	34	48	29.752	138.5000026	34.8082645	-34.8082645	PORT ADEL	D2789	A84	CT 5671 86	SI5409	6628	3	31	a	6
27843	6628-1973	6.63E+08	WW	Qhcks	6	1/12/1982	6	11326										0.5	271355.77	6144889.27	54	138	30	1.151	34	48	45.387	138.5003197	34.8126075	-34.8126075	PORT ADEL	D58893	A202	CT 5868 67	SI5409	6628	3	31	h	1
27850	6628-1973	6.63E+08	WW	Qhcks	6	1/12/1982	6	11335										0.5	271363.73	6144812.32	54	138	30	1.388	34	48	47.889	138.5003857	34.8133025	-34.8133025	PORT ADEL	D5411	A4	CT 5639 58	SI5409	6628	3	31	h	1
27960	6628-1987	6.63E+08	WW	Qpah	6	1/11/1983	6	13502		DOM	OPR								271453.74	6142660.29	54	138	30	2.819	34	49	57.758	138.500783	34.8327106	-34.8327106	PORT ADEL	D92766	A751	CT 6124 46	SI5409	6628	3	31	j	6
27986	6628-1980	6.63E+08	WW	Qpah	4.5	22/06/1984	4.5	13708				3.5	0.39	22/06/1984	838	1520	7.5		271468.74	6142444.32	54	138	30	3.197	34	50	4.775	138.500888	34.8346596	-34.8346596	PORT ADEL	D597	A40	CT 5838 59	SI5409	6628	3	31	j	6
28043	6628-1973	6.63E+08	WW	Qhcks	6	22/11/1984	6	15606		DOM	OPR	3	1.71	22/11/1984	714	1296	7.2	0.5	271382.78	6145697.24	54	138	30	3.004	34	48	19.204	138.5008345	34.8053345	-34.8053345	PORT ADEL	F4881	A51	CT 5786 55	SI5409	6628	3	31	a	1
28087	6628-1984	6.63E+08	WW	Qhcks	3.9	10/01/1985	3.9	15782	2.7	DOM	OPR	2.4	2.58	10/01/1985	1373	2480	7.1	0.7	271381.78	6145524.28	54	138	30	2.796	34	48	24.813	138.5007766	34.8068925	-34.8068925	PORT ADEL	D2595	A20	CT 5165 76	SI5409	6628	3	31	a	6
28179	6628-1986	6.63E+08	WW	Qhcks	6	22/11/1985	6	17562	6	DOM	OPR	4	0.63	2/12/1985	2227	4000	7.2	0.5	271328.77	6145388.31	54	138	30	0.578	34	48	29.18	138.5001606	34.8081055	-34.8081055	PORT ADEL	D2789	A85	CT 5579 13	SI5409	6628	3	31	a	6
28249	6628-1985	6.63E+08	WW	Qpah	3.6	4/03/1987	3.6	19053	3.6			2.1	1.85	24/03/1987	1095	1982	7.4	0.6	271479.72	6142488.33	54	138	30	3.672	34	50	3.356	138.50102	34.8342656	-34.8342656	PORT ADEL	D597	A36	CT 5324 68	SI5409	6628	3	31	j	6
28252	6628-1974	6.63E+08	WW	Qhcks	5	1/01/1983	5	11762	5										271394.72	6145196.26	54	138	30	2.983	34	48	35.462	138.5008286	34.8098505	-34.8098505	PORT ADEL	D2789	A53	CT 5170 41	SI5409	6628	3	31	a	6
28256	6628-1974	6.63E+08	WW	Qhcks	4.2	16/11/1987	4.2	20473	4.2			2.7	1.92	25/11/1987	830	1506	7.6	0.6	271326.7	6146202.33	54	138	30	1.294	34	48	2.777	138.5003595	34.8007715	-34.8007715	PORT ADEL	F5068	A18	CT 6089 20	SI5409	6628	3	31	a	1
28500	6628-1980	6.63E+08	WW	Qhcks	4	30/03/1990	4	23937	4	DOM	OPR	2.5	1.65	30/03/1990	3899	6921	6.9		271332.72	6145307.27	54	138	30	0.654	34	48	31.811	138.5001816	34.8088365	-34.8088365	PORT ADEL	D113587	A1	CT 6180 62	SI5409	6628	3	31	a	6
28576	6628-1981	6.63E+08	WW	Qhcks	6	3/11/1991	6	26356		DOM	OPR	4.5	0.28	3/11/1991	1328	2400	7.2		271375.72	6145422.34	54	138	30	2.457	34	48	28.114	138.5006826	34.8078095	-34.8078095	PORT ADEL	D2595	A26	CT 5367 47	SI5409	6628	3	31	a	6
50371	6628-3402	6.63E+08	WW	Tomw(T1)			137	24936		IND	BKF	17	-12.81	6/12/1990	1546	2790	8.1	10	271949.74	6145654.3	54	138	30	25.256	34	48	21.054	138.5070155	34.8058484	-34.8058484	PORT ADEL	D71673	A14	CT 5994 99	SI5409	6628	3	31	a	1
51396	6628-4427	6.63E+08	WW	Tomw(T1)	140.21	28/09/1966	140.21	95402		OBS	BKF	16.29	-13.19	18/09/1989	1502	2710	7.8	18.94	272120.74	6145990.32	54	138	30	32.308	34	48	10.294	138.5089744	34.8028594	-34.8028594	PORT ADEL	D111812	A3	CT 6184 76	SI5409	6628	3	31	a	2
51398	6628-4429	6.63E+08	WW	Qpah	15.24		15.24				UKN				1664	3000	7		272177.72	6145561.29	54	138	30	34.13	34	48	24.255	138.5094805	34.8067374	-34.8067374	PORT ADEL	D75890	A52	CT 6017 98	SI5409	6628	3	31	a	5
51405	6628-4436	6.63E+08	ENG	Qpah	28.65	15/02/1965	28.65				UKN				2715	4861			271742.75	6144440.26	54	138	30	15.929	34	49	0.262	138.5044247	34.8167395	-34.8167395	PORT ADEL	D7964	A97	CT 5545 84	SI5409	6628	3	31	h	1
51406	6628-4437	6.63E+08	ENG	Qpah	18.29	19/02/1965	18.29				UKN				2830	5063			271611.77	6144432.34	54	138	30	10.77	34	49	0.413	138.5029917	34.8167815	-34.8167815	PORT ADELAIDE				SI5409	6628	3	31	h	1
51407	6628-4438	6.63E+08	ENG	Qpah	15.65	8/10/1970	15.65				UKN				28991	45028			271548.77	6144418.33	54	138	30	8.279	34	49	0.817	138.5022997	34.8168935	-34.8168935	PORT ADELAIDE				SI5409	6628	3	31	h	1
51408	6628-4439	6.63E+08	ENG	Qpah	15.7	9/10/1970	15.7				UKN								271547.75	6144433.29	54	138	30	8.254	34	49	0.331	138.5022927	34.8167585	-34.8167585	PORT ADEL	D71819	A73	CT 5973 34	SI5409	6628	3	31	h	1
51409	6628-4440	6.63E+08	ENG	Qpah	23.78	18/03/1975	23.78				ABD								273112.7	6144889.29	54	138	31	10.241	34	48	46.801	138.5195114	34.8130003	-34.8130003	PORT ADEL	D89039	A500	CT 6111 63	SI5409	6628	3	31	h	3
51410	6628-4441	6.63E+08	ENG	Qpah	24.38	26/03/1975	24.38				UKN								273167.7	6144886.32	54	138	31	12.401	34	48	46.942	138.5201114	34.8130393	-34.8130393	PORT ADEL	D89039	A500	CT 6111 63	SI5409	6628	3	31	h	3
51411	6628-4442	6.63E+08	ENG	Qpah	35.05	13/10/1970	35.05				ABD								272587.8	6143945.39	54	138	30	48.679	34	49	16.993	138.513522	34.821387	-34.821387	PORT ADEL	D73873	A13	CT 5991 46	SI5409	6628	3	31	h	5
51412	6628-4443	6.63E+08	ENG	Qpah	34.44	29/10/1970	34.44				ABD								272587.8	6143945.39	54	138	30	48.679	34	49	16.993	138.513522	34.821387	-34.821387	PORT ADEL	D73873	A13	CT 5991 46	SI5409	6628	3	31	h	5
51413	6628-4444	6.63E+08	ENG	Qpah	34.44	21/10/1970	34.44				ABD								272587.8	6143945.39	54	138	30	48.679	34	49	16.993	138.513522	34.821387	-34.821387	PORT ADEL	D73873	A13	CT 5991 46	SI5409	6628	3	31	h	5
51414	6628-4445	6.63E+08	ENG	Qpah	29.87	2/10/1970	29.87				ABD								272587.8	6143945.39	54	138	30	48.679	34	49	16.993	138.513522	34.821387	-34.821387	PORT ADEL	D73873	A13	CT 5991 46	SI5409	6628	3	31	h	5
51424	6628-4455	6.63E+08	ENG	Qpah	36.73	21/05/1962	36.73				UKN				80710	100888			272469.71	6143225.25	54	138	30	43.332	34	49	40.255	138.5120368	34.8278485	-34.8278485	PORT ADEL	D41006	A1	CT 6140 3	SI5409	6628	3	31	j	2
51425	6628-4456	6.63E+08	ENG	Qpah	21.34	25/05/1962	21.34				UKN	3.51	-0.26	28/05/1962	47124	71208			272470.72	6143233.32	54	138	30	43.38	34	49	39.994	138.51205	34.827776	-34.827776	PORT ADEL	D41006	A1	CT 6140 3	SI5409	6628	3	31	j	2
51426	6628-4457	6.63E+08	ENG	Qpah	21.34	31/05/1962	21.34				UKN	3.51	-0.26	31/05/1962	64260	91800			272470.72	6143233.32	54	138	30	43.38	34	49	39.994	138.51205	34.827776	-34.827776	PORT ADEL	D41006	A1	CT 6140 3	SI5409	6628	3	31	j	2
51427	6628-4458	6.63E+08	ENG	Qpah	21.34	14/05/1962	21.34				UKN	3.66	0.34	14/05/1962	70686	100980			272470.72	6143233.32	54	138	30	43.38	34	49	39.994	138.51205	34.827776	-34.827776	PORT ADEL	D41006	A1	CT 6140 3	SI5409	6628	3	31	j	2
51428	6628-4459	6.63E+08	ENG	Qpah	21.34	4/07/1962	21.34				UKN	3.51	-0.26	4/07/1962	74970	107100			272470.72	6143233.32	54	138	30	43.38	34	49	39.994	138.51205	34.827776	-34.827776	PORT ADEL	D41006	A1	CT 6140 3	SI5409	6628	3	31	j	2
51429	6628-4460	6.63E+08	ENG	Qpah	21.34	6/07/1962	21.34				UKN	3.51	-0.26	10/07/1962	72828	104040			272470.72	6143233.32	54	138	30	43.38	34	49	39.994	138.51205	34.827776	-34.827776	PORT ADEL	D41006	A1	CT 6140 3	SI5409	6628	3	31	j	2
51430	6628-4461	6.63E+08	ENG	Qpah	40.69	17/07/1962	40.69				UKN	7.54	-4.29	17/07/1962	77826	111180			272470.72	6143233.32	54	138	30	43.38	34	49	39.994	138.51205	34.827776	-34.827776	PORT ADEL	D41006	A1	CT 6140 3	SI5409	6628	3	31	j	2
51431	6628-4462	6.63E+08	ENG	Qpah	21.34	26/06/1962	21.34				UKN	3.51	-0.51	26/06/1962	68415	97736			272470.72	6143233.32	54	138	30	43.38	34	49	39.994	138.51205	34.827776	-34.827776	PORT ADEL	D41006	A1	CT 6140 3	SI5409	6628	3	31	j	2
51432	6628-4463	6.63E+08	ENG	Qpah	21.34	7/06/1962	21.34				UKN	3.28	-0.03	7/06/1962	74256	106080			272470.72	6143233.32	54	138	30	43.38	34	49	39.994	138.51205	34.827776	-34.827776	PORT ADEL	D41006	A1	CT 6140 3	SI5409	6628	3	31	j	2
51433	6628-4464	6.63E+08	ENG	Qpah	21.34	11/06/1962	21.34				UKN	5.64	-1.64	11/06/1962	67116	95880			272470.72	6143233.32	54	138	30	43.38	34	49	39.994	138.51205	34.827776	-34.827776	PORT ADEL	D41006	A1	CT 6140 3	SI5409	6628	3	31	j	2
51434	6628-4465	6.63E+08	ENG	Qpah	21.34	18/06/1962	21.34			INV	UKN	3.73	-0.48	18/06/1962	17136	28184			272470.72	6143233.32	54	138	30	43.38	34	49	39.994	138.51205	34.827776	-34.827776	PORT ADEL	D41006	A1	CT 6140 3	SI5409	6628	3	31	j	2
51435	6628-4466	6.63E+08	ENG	Qpah	21.34	21/06/1962	21.34				UKN	3.35	-0.1	21/06/1962	71400	102000			272470.72	6143233.32	54	138	30	43.38	34	49	39.994	138.51205	34.827776	-34.827776	PORT ADEL	D41006	A1	CT 6140 3	SI5409	6628	3	31	j	2
51436	6628-4467	6.63E+08	ENG	Qpah	24.84	9/08/1965	24.84				UKN	4.27	-1.02	9/08/1965	41000	61954			272470.72	6143233.32	54	138	30	43.38	34	49	39.994	138.51205	34.827776	-34.827776	PORT ADEL	D41006	A1	CT 6140 3	SI5409	6628	3	31	j	2
51437	6628-4468	6.63E+08	ENG	Qpah	24.69	5/07/1965	24.69				UKN								272470.72	6143233.32	54	138	30	43.38	34	49	39.994	138.51205	34.827776	-34.827776	PORT ADEL	D41006	A1	CT 6140 3	SI5409	6628	3	31	j	2
51438	6628-4469	6.63E+08	ENG	Qpah	24.69	3/08/1965	24.69				UKN	2.74	0.51	29/07/1965	29600	45974			272470.72	6143233.32	54	138	30	43.38	34	49	39.994	138.51205	34.827776	-34.827776	PORT ADEL	D41006	A1	CT 6140 3	SI5409	6628	3	31	j	2
51439	6628-4470	6.63E+08	ENG	Qpah	24.69	13/07/1965	24.69				UKN	2.9	0.35	13/07/1965					272470.72	6143233.32	54	138	30	43.38	34	49	39.994	138.51205	34.827776	-34.827776	PORT ADEL	D41006	A1	CT 6140 3	SI5409	6628	3	31	j	2
51440	6628-4471	6.63E+08	ENG	Qpah	24.84	21/07/1965	24.84				UKN	2.74	0.51	21/07/1965					272470.74	6143224.27	54	138	30	43.372	34	49	40.287	138.5120478	34.8278575	-34.8278575	PORT ADEL	D41006	A1	CT 6140 3	SI5409	6628	3	31	j	2
51441	6628-4472	6.63E+08	ENG	Qpah	23.62	27/07/1965	23.62				UKN	4.27	-1.02	27/07/1965	35200	53430			272473.8	6143216.3	54	138	30	43.484	34	49	40.548	138.512079	34.82793	-34.82793	PORT ADEL	D41006	A1	CT 6140 3	SI5409	6628	3	31	j	2
51442	6628-4473	6.63E+08	ENG	Qpah	24.69	29/06/1965	24.69				UKN								272473.8	6143216.3	54	138	30	43.484	34	49	40.548	138.512079	34.82793	-34.82793	PORT ADEL	D41006	A1	CT 6140 3	SI5409	6628	3	31	j	2
51443	6628-4474	6.63E+08	ENG	Qpah	21.33	24/02/1967	21.33				ABD								272298.76	6143295.31	54	138	30	36.677	34	49	37.844	138.510188	34.827179	-34.827179	PORT ADEL	D73873	A5	CT 6191 73	SI5409	6628	3	31	j	2
51444	6628-4475	6.63E+08	ENG	Qpah	21.33	2/03/1967	21.33				ABD								272298.76	6143295.31	54	138	30	36.677	34	49	37.844	138.510188	34.827179	-34.827179	PORT ADEL	D73873	A5	CT 6191 73	SI5409	6628	3	31	j	2
51445	6628-4476	6.63E+08	ENG	Qpah	18.59	9/03/1967	18.59				ABD								272298.76	6143295.31	54	138	30	36.677	34	49	37.844	138.510188	34.827179	-34.827179	PORT ADEL	D73873	A5	CT 6191 73	SI5409	6628	3	31	j	2
51446	6628-4477	6.63E+08	ENG	Qpah	24.79	13/03/1967	24.79				ABD								272298.76	6143295.31	54	138	30	36.677	34	49	37.844	138.510188	34.827179	-34.827179	PORT ADEL	D73873	A5	CT 6191 73	SI5409	6628	3	31	j	2
51447	6628-4478	6.63E+08	ENG	Qpah	24.69	15/03/1967	24.69				ABD								272298.76	6143295.31	54	138	30	36.677	34	49	37.844	138.510188	34.827179	-34.827179	PORT ADEL	D73873	A5	CT 6191 73	SI5409	6628	3	31	j	2
51448	6628-4479	6.63E+08	ENG	Qpah	24.38	17/03/1967	24.38				ABD								272298.76	6143295.31	54	138	30	36.677	34	49	37.844	138.510188	34.827179	-34.827179	PORT ADEL	D73873	A5	CT 6191 73	SI5409	6628	3	31	j	2
51449	6628-4480	6.63E+08	ENG	Qpah	24.38	21/03/1967	24.38				ABD								272298.76	6143295.31	54	138	30	36.677	34	49	37.844	138.510188	34.827179	-34.827179	PORT ADEL	D73873	A5	CT 6191 73	SI5409	6628	3	31	j	2
51450	6628-4481	6.63E+08	ENG	Qpah	21.64	29/03/1967	21.64				ABD								272298.76	6143295.31	54	138	30	36.677	34	49	37.844	138.510188	34.827179	-34.827179	PORT ADEL	D73873	A5	CT 6191 73	SI5409	6628	3	31	j	2
51451	6628-4482	6.63E+08	ENG	Qpah	24.38	3/04/1967	24.38				ABD								272298.76	6143295.31	54	138	30	36.677	34	49	37.844	138.510188	34.827179	-34.827179	PORT ADEL	D73873	A5	CT 6191 73	SI5409	6628	3	31	j	2
51452	6628-4483	6.63E+08	ENG	Qpah	21.33	8/04/1967	21.33				ABD								272298.76	6143295.31	54	138	30	36.677	34	49	37.844	138.510188	34.827179	-34.827179	PORT ADEL	D73873	A5	CT 6191 73	SI5409	6628	3	31	j	2
51453	6628-4484	6.63E+08	ENG	Qpah	24.38	11/04/1967	24.38				ABD								272298.76	6143295.31	54	138	30	36.677	34	49	37.844	138.510188	34.827179	-34.827179	PORT ADEL	D73873	A5	CT 6191 73	SI5409	6628	3	31	j	2
51454	6628-4485	6.63E+08	ENG	Qpah	21.33	15/05/1968	21.33				ABD								272460.79	6142951.36	54	138	30	42.714	34	49	49.13	138.511865	34.830314	-34.830314	PORT ADEL	D73873	A5	CT 6191 73	SI5409	6628	3	31	j	2
51455	6628-4486	6.63E+08	ENG	Qpah	21.33	9/05/1968	21.33				ABD								272460.79	6142951.36	54	138	30	42.714	34	49	49.13	138.511865	34.830314	-34.830314	PORT ADEL	D73873	A5	CT 6191 73	SI5409	6628	3	31	j	2
51456	6628-4487	6.63E+08	ENG	Qpah	20.73	11/07/1968	20.73				ABD								272460.72	6142950.36	54	138	30	42.71	34	49	49.163	138.511864	34.830323	-34.830323	PORT ADEL	D73873	A5	CT 6191 73	SI5409	6628	3	31	j	2
51457	6628-4488	6.63E+08	ENG	Qpah	21.33	30/04/1968	21.33				ABD								272460.79	6142951.36	54	138	30	42.714	34	49	49.13	138.511865	34.830314	-34.830314	PORT ADEL	D73873	A5	CT 6191 73	SI5409	6628	3	31	j	2
51458	6628-4489	6.63E+08	ENG	Qpah	20.73	15/07/1968	20.73				ABD								272460.72	6142950.36	54	138	30	42.71	34	49	49.163	138.511864	34.830323	-34.830323	PORT ADEL	D73873	A5	CT 6191 73	SI5409	6628	3	31	j	2
51459	6628-4490	6.63E+08	ENG	Qpah	21.33	6/05/1968	21.33				ABD								272460.79	6142951.36	54	138	30	42.714	34	49	49.13	138.511865	34.830314	-34.830314	PORT ADEL	D73873	A5	CT 6191 73	SI5409	6628	3	31	j	2
51460	6628-4491	6.63E+08	ENG	Qpah	21.33	22/04/1968	21.33				ABD								272460.79	6142951.36	54	138	30	42.714	34	49	49.13	138.511865	34.830314	-34.830314	PORT ADEL	D73873	A5	CT 6191 73	SI5409	6628	3	31	j	2
51461	6628-4492	6.63E+08	ENG	Qpah	10.97	16/04/1968	10.97				ABD								272460.79	6142951.36	54	138	30	42.714	34	49	49.13	138.511865	34.830314	-34.830314	PORT ADEL	D73873	A5	CT 6191 73	SI5409	6628	3	31	j	2

51462	6628-4493	6.63E+08	ENG	Qpah	10.97	11/04/1968	10.97				ABD								272460.72	6142950.36	54	138	30	42.71	34	49	49.163	138.511864	34.830323	-34.830323	PORT ADEL	D73873	A5	CT 6191 73	SI5409	6628	3	31	j	2
51463	6628-4494	6.63E+08	ENG	Qpah	10.97	9/04/1968	10.97				ABD								272460.72	6142950.36	54	138	30	42.71	34	49	49.163	138.511864	34.830323	-34.830323	PORT ADEL	D73873	A5	CT 6191 73	SI5409	6628	3	31	j	2
51464	6628-4495	6.63E+08	ENG	Qpah	10.97	8/04/1968	10.97				ABD								272460.79	6142951.36	54	138	30	42.714	34	49	49.13	138.511865	34.830314	-34.830314	PORT ADEL	D73873	A5	CT 6191 73	SI5409	6628	3	31	j	2
51465	6628-4496	6.63E+08	ENG	Qpah	10.97	4/04/1968	10.97				ABD								272460.79	6142951.36	54	138	30	42.714	34	49	49.13	138.511865	34.830314	-34.830314	PORT ADEL	D73873	A5	CT 6191 73	SI5409	6628	3	31	j	2
51466	6628-4497	6.63E+08	ENG	Qpah	24.38	17/04/1967	24.38				ABD								272202.78	6142741.38	54	138	30	32.36	34	49	55.733	138.508989	34.832148	-34.832148	PORT ADEL	D73873	A4	CT 6156 19	SI5409	6628	3	31	j	5
51467	6628-4498	6.63E+08	ENG	Qpah	24.38	20/04/1967	24.38				ABD								272202.78	6142741.38	54	138	30	32.36	34	49	55.733	138.508989	34.832148	-34.832148	PORT ADEL	D73873	A4	CT 6156 19	SI5409	6628	3	31	j	5
51468	6628-4499	6.63E+08	ENG	Qpah	23.16	27/04/1967	23.16				ABD								272202.78	6142741.38	54	138	30	32.36	34	49	55.733	138.508989	34.832148	-34.832148	PORT ADEL	D73873	A4	CT 6156 19	SI5409	6628	3	31	j	5
51469	6628-4500	6.63E+08	ENG	Qpah	23.16	19/05/1967	23.16				ABD								272200.7	6142747.26	54	138	30	32.284	34	49	55.54	138.5089679	34.8320945	-34.8320945	PORT ADEL	D73873	A4	CT 6156 19	SI5409	6628	3	31	j	5
51471	6628-4502	6.63E+08	ENG	Qpah	23.16	15/01/1927	23.16				ABD								272184.74	6142465.26	54	138	30	31.381	34	50	4.674	138.5087169	34.8346316	-34.8346316	PORT ADEL	D73873	A4	CT 6156 19	SI5409	6628	3	31	j	5
51472	6628-4503	6.63E+08	ENG	Qpah	23.16	20/01/1927	23.16				ABD								272190.76	6142602.27	54	138	30	31.752	34	50	0.235	138.5088199	34.8333985	-34.8333985	PORT ADEL	D73873	A4	CT 6156 19	SI5409	6628	3	31	j	5
51473	6628-4504	6.63E+08	ENG	Qpah	23.16	25/01/1927	23.16				ABD								272199.72	6142676.31	54	138	30	32.176	34	49	57.841	138.5089379	34.8327335	-34.8327335	PORT ADEL	D73873	A4	CT 6156 19	SI5409	6628	3	31	j	5
51504	6628-4535	6.63E+08	ENG	Qpah	23.47	19/05/1952	23.47				UKN								271799.77	6142628.28	54	138	30	16.398	34	49	59.076	138.5045549	34.8330766	-34.8330766	PORT ADEL	D86398	A40	CT 6087 69	SI5409	6628	3	31	j	6
51505	6628-4536	6.63E+08	ENG	Qpah	22.86	28/05/1952	22.86				UKN								271901.72	6142628.27	54	138	30	20.408	34	49	59.158	138.5056689	34.8330996	-34.8330996	PORT ADEL	D86398	A40	CT 6087 69	SI5409	6628	3	31	j	6
51506	6628-4537	6.63E+08	WW	Tomw(T1)	108.2	16/03/1960	108.2		98.73			3.66	-1.66	16/03/1960	2585	4632		15.15	271660.73	6142533.25	54	138	30	10.836	34	50	2.046	138.50301	34.8339016	-34.8339016	PORT ADEL	F12609	A1	CT 5411 66	SI5409	6628	3	31	j	6
51513	6628-4544	6.63E+08	ENG	Qpah	23.77	15/12/1961	23.77				ABD								271925.73	6142355.32	54	138	30	21.085	34	50	8.03	138.505857	34.835564	-34.835564	PORT ADEL	D86398	A42	CT 6087 69	SI5409	6628	3	31	j	6
51514	6628-4545	6.63E+08	ENG	Qpah	23.16	4/12/1961	23.16				UKN								271946.76	6142396.29	54	138	30	21.953	34	50	6.719	138.506098	34.8351996	-34.8351996	PORT ADEL	D86398	A45	CT 6126 85	SI5409	6628	3	31	j	6
51515	6628-4546	6.63E+08	ENG	Qpah	22.86	8/12/1961	22.86				ABD								271969.7	6142456.25	54	138	30	22.914	34	50	4.792	138.5063649	34.8346646	-34.8346646	PORT ADELAIDE				SI5409	6628	3	31	j	6
51516	6628-4547	6.63E+08	ENG	Qpah	23.16	4/07/1972	23.16				ABD								271959.75	6142878.24	54	138	30	22.935	34	49	51.098	138.5063709	34.8308606	-34.8308606	PORT ADEL	D87823	A201	CT 6145 88	SI5409	6628	3	31	j	1
51517	6628-4548	6.63E+08	ENG	Qpah	18.59	7/07/1972	18.59				ABD								271962.75	6142853.34	54	138	30	23.029	34	49	51.908	138.5063969	34.8310856	-34.8310856	PORT ADEL	D88720	A10	CT 6126 86	SI5409	6628	3	31	j	1
51518	6628-4549	6.63E+08	ENG	Qpah	10.67	20/12/1961	10.67				ABD								271925.73	6142355.32	54	138	30	21.085	34	50	8.03	138.505857	34.835564	-34.835564	PORT ADEL	D86398	A42	CT 6087 69	SI5409	6628	3	31	j	6
51527	6628-4558	6.63E+08	ENG	Qpah	13.11	27/03/1954	13.11				UKN								271897.71	6143635.27	54	138	30	21.236	34	49	26.495	138.5058988	34.8240265	-34.8240265	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	h	6
51528	6628-4559	6.63E+08	ENG	Qpah	15.24	9/06/1953	15.24				UKN								271687.77	6143042.3	54	138	30	12.398	34	49	45.558	138.5034439	34.8293216	-34.8293216	PORT ADEL	D70924	A2	CT 6040 73	SI5409	6628	3	31	j	1
51529	6628-4560	6.63E+08	ENG	Qpah	15.24	11/06/1953	15.24				UKN								271711.7	6143110.27	54	138	30	13.406	34	49	43.372	138.5037239	34.8287146	-34.8287146	PORT ADEL	D70924	A2	CT 6040 73	SI5409	6628	3	31	j	1
51530	6628-4561	6.63E+08	ENG	Qpah	15.24	12/06/1953	15.24				UKN								271718.75	6143077.26	54	138	30	13.651	34	49	44.449	138.5037919	34.8290136	-34.8290136	PORT ADEL	D70924	A2	CT 6040 73	SI5409	6628	3	31	j	1
51531	6628-4562	6.63E+08	ENG	Qpah	15.24	16/06/1953	15.24				UKN								271635.78	6143090.29	54	138	30	10.4	34	49	43.959	138.5028889	34.8288776	-34.8288776	PORT ADEL	D70924	A2	CT 6040 73	SI5409	6628	3	31	j	1
51532	6628-4563	6.63E+08	ENG	Qpah	15.24	18/06/1953	15.24				UKN								271644.71	6143040.34	54	138	30	10.702	34	49	45.587	138.5029729	34.8293296	-34.8293296	PORT ADEL	D70924	A2	CT 6040 73	SI5409	6628	3	31	j	1
51533	6628-4564	6.63E+08	WW	Tomw(T1)	106.68	4/02/1954	106.68		96.62			3.66	-1.91	17/04/1964	2440	4377		7.5	271663.78	6142877.31	54	138	30	11.293	34	49	50.889	138.5031369	34.8308026	-34.8308026	PORT ADEL	F4542	A38	CT 5841 73	SI5409	6628	3	31	j	1
51534	6628-4565	6.63E+08	WW	Qpah	10.06	27/02/1963	10.06		9.17	IND	OPR	3.6	-1.6	27/02/1963	17100	28125		3.16	271626.7	6142852.3	54	138	30	9.81	34	49	51.671	138.5027249	34.8310196	-34.8310196	PORT ADEL	F4542	A38	CT 5841 73	SI5409	6628	3	31	j	1
51535	6628-4566	6.63E+08	ENG	Qpah	18.29	11/08/1952	18.29		3.17		UKN								271635.77	6143311.35	54	138	30	10.616	34	49	36.79	138.502949	34.826886	-34.826886	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j	1
51536	6628-4567	6.63E+08	ENG	Qpah	18.29	15/08/1952	18.29				UKN								271635.77	6143311.35	54	138	30	10.616	34	49	36.79	138.502949	34.826886	-34.826886	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j	1
51537	6628-4568	6.63E+08	ENG	Qpah	14.63	2/04/1953	14.63				UKN								271753.71	6143397.25	54	138	30	15.339	34	49	34.099	138.5042608	34.8261386	-34.8261386	PORT ADEL	D75123	A301	CT 6028 53	SI5409	6628	3	31	j	1
51538	6628-4569	6.63E+08	ENG	Qpah	14.63	9/04/1953	14.63				UKN								271738.73	6143359.25	54	138	30	14.713	34	49	35.319	138.5040868	34.8264776	-34.8264776	PORT ADEL	D75123	A301	CT 6028 53	SI5409	6628	3	31	j	1
51539	6628-4570	6.63E+08	ENG	Qpah	14.63	13/04/1953	14.63				UKN								271748.78	6143433.31	54	138	30	15.181	34	49	32.925	138.5042168	34.8258126	-34.8258126	PORT ADEL	D75123	A301	CT 6028 53	SI5409	6628	3	31	j	1
51540	6628-4571	6.63E+08	ENG	Qpah	14.63	14/04/1953	14.63				UKN								271694.74	6143383.24	54	138	30	13.006	34	49	34.506	138.5036128	34.8262516	-34.8262516	PORT ADEL	D75123	A301	CT 6028 53	SI5409	6628	3	31	j	1
51541	6628-4572	6.63E+08	ENG	Qpah	14.63	15/04/1953	14.63				UKN								271730.76	6143403.34	54	138	30	14.443	34	49	33.883	138.5040118	34.8260786	-34.8260786	PORT ADEL	D75123	A301	CT 6028 53	SI5409	6628	3	31	j	1
51542	6628-4573	6.63E+08	ENG	Qpah	15.24	17/04/1953	15.24				UKN								271703.72	6143504.34	54	138	30	13.478	34	49	30.585	138.5037438	34.8251626	-34.8251626	PORT ADEL	D75123	A301	CT 6028 53	SI5409	6628	3	31	j	1
51543	6628-4574	6.63E+08	ENG	Qpah	14.63	20/04/1953	14.63				UKN								271687.73	6143536.24	54	138	30	12.88	34	49	29.538	138.5035778	34.8248716	-34.8248716	PORT ADEL	D75123	A301	CT 6028 53	SI5409	6628	3	31	h	6
51544	6628-4575	6.63E+08	ENG	Qpah	14.63	22/04/1953	14.63				UKN								271714.75	6143458.33	54	138	30	13.867	34	49	32.086	138.5038518	34.8255796	-34.8255796	PORT ADEL	D75123	A301	CT 6028 53	SI5409	6628	3	31	j	1
58538	6628-1156	6.63E+08	WW	Qhcks	3.2	13/03/1981	3.2	8689	2.1			1.9	1.1	13/03/1981	1244	2250	6.9	0.46	271469.75	6145958.25	54	138	30	6.68	34	48	10.809	138.5018555	34.8030025	-34.8030025	PORT ADEL	F5520	A1	CT 5174 48	SI5409	6628	3	31	a	1
58753	6628-1178	6.63E+08	ENG	Qpah	5.6	12/06/1981	5.6												271640.7	6142738.32	54	138	30	10.249	34	49	55.379	138.5028469	34.8320496	-34.8320496	PORT ADEL	F32267	A200	CT 5968 73	SI5409	6628	3	31	j	6
58756	6628-1178	6.63E+08	ENG	Qpah	1.52	16/06/1981	1.52												271577.71	6142717.32	54	138	30	7.751	34	49	56.009	138.502153	34.8322246	-34.8322246	PORT ADEL	F32267	A200	CT 5968 73	SI5409	6628	3	31	j	6
58757	6628-1178	6.63E+08	ENG	Qpah	0.8	16/06/1981	0.8												271566.71	6142736.25	54	138	30	7.337	34	49	55.386	138.502038	34.8320516	-34.8320516	PORT ADEL	F32267	A200	CT 5968 73	SI5409	6628	3	31	j	6
58758	6628-1178	6.63E+08	ENG	Qpah	5.02	17/06/1981	5.02												271566.7	6142740.25	54	138	30	7.34	34	49	55.256	138.502039	34.8320156	-34.8320156	PORT ADEL	F32267	A200	CT 5968 73	SI5409	6628	3	31	j	6
59127	6628-1215	6.63E+08	WW	Qhcks	3	2/02/1983	3	12244	3						1440	2600	7.6		271842.75	6145509.34	54	138	30	20.907	34	48	25.67	138.5058075	34.8071304	-34.8071304	PORT ADEL	D56414	A18	CT 6120 91	SI5409	6628	3	31	a	6
59228	6628-1225	6.63E+08	WW	Qpah	4.2	16/04/1983	4.2	12638	3			2.7	-0.7	16/03/1983	838	1520	7.4	0.6	271687.71	6144599.28	54	138	30	13.92	34	48	55.06	138.5038667	34.8152945	-34.8152945	PORT ADEL	D7964	A26	CT 5554 87	SI5409	6628	3	31	h	1
59257	6628-1228	6.63E+08	WW	Qhcks	5.49	27/07/1979	5.49	12421							1440	2600	6.9		271466.75	6145105.26	54	138	30	5.726	34	48	38.471	138.5015906	34.8106865	-34.8106865	PORT ADEL	D7611	A243	CT 5222 24	SI5409	6628	3	31	a	6
59269	6628-1230	6.63E+08	WW	Qpah	15	20/02/1983	15	12030	15			6	-2.05	20/02/1983					271695.73	6145192.33	54	138	30	14.816	34	48	35.832	138.5041156	34.8099535	-34.8099535	PORT ADEL	D7611	A134	CT 5640 12	SI5409	6628	3	31	a	6
59297	6628-1232	6.63E+08	WW	Qhcks	4.27	18/03/1983	4.27	12445	4.27	DOM	OPR	1.83	0.17	18/03/1983	1468	2650	7.4	0.88	271575.74	6145147.27	54	138	30	10.053	34	48	37.197	138.5027926	34.8103325	-34.8103325	PORT ADEL	D7611	A179	CT 5493 49	SI5409	6628	3	31	a	6
59298	6628-1232	6.63E+08	WW	Qhcks	4.2	21/06/1983	4.2	12176	3.1	DOM	OPR	2.8	-0.8	21/06/1983	1362	2460	7	0.6	271487.77	6145198.25	54	138	30	6.644	34	48	35.473	138.5018456	34.8098535	-34.8098535	PORT ADEL	D7611	A238	CT 5367 30	SI5409	6628	3	31	a	6
59300	6628-1233	6.63E+08	WW	Qpah	3.9	17/03/1983	3.9	12275	2.7	DOM	OPR	2.4	-0.4	17/03/1983	1524	2750	7.1	0.6	271714.7	6145276.27	54	138	30	15.644	34	48	33.125	138.5043456	34.8092015	-34.8092015	PORT ADEL	D7611	A216	CT 5369 35	SI5409	6628	3	31	a	6
59340	6628-1237	6.63E+08	WW	Qhcks	4.5	6/03/1983	4.5	12335		DOM	OPR	2	1.84	6/03/1983	1580	2850	7.1		271513.75	6145188.24	54	138	30	7.656	34	48	35.818	138.5021266	34.8099495	-34.8099495	PORT ADEL	D7611	A163	CT 5299 12	SI5409	6628	3	31	a	6
59413	6628-1244	6.63E+08	ENG	Qpah	7.3	15/06/1981	7.3				ABD								271590.78	6142692.34	54	138	30	8.24	34	49	56.829	138.502289	34.8324526	-34.8324526	PORT ADEL	F32267	A200	CT 5968 73	SI5409	6628	3	31	j	6
59414	6628-1244	6.63E+08	ENG	Qpah	5.7	16/06/1981	5.7				ABD								271581.7	6142715.31	54	138	30	7.905	34	49	56.077	138.502196	34.8322436	-34.8322436	PORT ADEL	F32267	A200	CT 5968 73	SI5409	6628	3	31	j	6
59449	6628-1248	6.63E+08	WW	Qpah	3.9	21/09/1983	3.9	13159	2.7	IRR	OPR	2.4	-0.4	21/09/1983	1077	1950	6.8	0.6	271971.77	6144650.31	54	138	30	25.141	34	48	53.634	138.5069836	34.8148985	-34.8148985	PORT ADEL	D7964	A124	CT 5370 82	SI5409	6628	3	31	h	1
59780	6628-1281	6.63E+08	WW	Qhcks	3.3	8/03/1984	3.3	13792	2.1	DOM	OPR	1.8	0.2	8/03/1984	1709	3080	7.5	0.6	271587.78	6144671.27	54	138	30	10.061	34	48	52.645	138.5027947	34.8146235	-34.8146235	PORT ADELAIDE				SI5409	6628	3	31	h	1
59863	6628-1289	6.63E+08	WW	Qhcks	3.6	19/04/1984	3.6	14508	2.4	IRR	OPR	2.1	2.38	19/04/1984	2375	4260	7.5	0.6	271620.75	6145990.32	54	138	30	12.648	34	48	9.891	138.5035135	34.8027474	-34.8027474	PORT ADEL	D4594	A64	CT 5686 81	SI5409	6628	3	31	a	1
59926	6628-1295	6.63E+08	WW	Qpah	3.9	20/06/1984	3.9	14562	2.7	DOM	OPR	2.4	-0.4	20/06/1984	1832	3300	7.2	0.7	271971.7	6144653.3	54	138	30	25.141	34	48	53.537	138.5069836	34.8148715	-34.8148715	PORT ADEL	D7964	A125	CT 5545 86	SI5409	6628	3	31	h	1
60057	6628-1308	6.63E+08	WW	Qpah	6	2/12/1984	6	15644		DOM	OPR				1036	1876	7.6		271783.71	6144416.3	54	138	30	17.516	34	49	1.072	138.5048657	34.8169645	-34.8169645	PORT ADEL	D7964	A104	CT 5545 85	SI5409	6628	3	31	h	1
60122	6628-1315	6.63E+08	WW	Qpah	6	17/01/1985	6	15915		DOM	OPR	3	-1	17/01/1985	2125	3818	7	0.5	271910.75	6144656.34	54	138	30	22.747	34	48	53.39	138.5063186	34.8148305	-34.8148305	PORT ADEL	D7964	A44	CT 5545 24	SI5409	6628	3	31	h	1
60203	6628-1323	6.63E+08	WW	Qhcks	3.6	8/01/1985	3.6	15891	2.4			2.1	-0.1	8/01/1985	2284	4100	7.2	0.7	271740.73	6144679.3	54	138	30	16.084	34	48	52.508	138.5044676	34.8145855	-34.8145855	PORT ADEL	D7964	A34	CT 5393 11	SI5409	6628	3	31	h	1
60204	6628-1323	6.63E+08	WW	Qpah	3.6	8/01/1985	3.6	15839	2.4	IRR	OPR	2.1	-0.1	8/01/1985	1356	2450	7.4	0.7	271834.73	6144665.32	54	138	30	19.766	34	48	53.037	138.5054906	34.8147325	-34.8147325	PORT ADEL	D7964	A39	CT 5545 25	SI5409	6628	3	31	h	1
60205	6628-1323	6.63E+08	WW	Qhcks	3.9	20/12/1984	3.9	15541	2.7	DOM	OPR	2.4	-0.4	20/12/1984	2113	3799	7.5	0.7	271569.75	6145119.26	54	138	30	9.791	34	48	38.101	138.5027196	34.8105835	-34.8105835	PORT ADEL	D7611	A180	CT 5154 72	SI5409	6628	3	31	a	6
60216	6628-1324	6.63E+08	WW	Qhcks	3.6	28/02/1985	3.6	16264	2.4			2.1	2.36	28/02/1985	4141	7340	7.1	0	271638.71	6146078.23	54	138	30	13.44	34	48	7.054	138.5037335	34.8019594	-34.8019594	PORT ADEL	D4488	A27	CT 5700 23	SI5409	6628	3	31	a	1
60246	6628-1327	6.63E+08	WW	Qpah	6	28/03/1985	6	16501		DOM	OPR	4	-2	28/03/1985	1614	2910	7.3	0.5	271655.7	6145219.3	54	138	30	13.268	34	48	34.925	138.5036856	34.8097015	-34.8097015	PORT ADEL	D7611	A137	CT 5261 13	SI5409	6628	3	31	a	6
60247	6628-1327	6.63E+08	WW	Qpah	6	28/03/1985	6	16500				4	-2	28/03/1985	2307	4140	7.1	0.5	271580.74	6145218.32	54	138	30	10.32	34	48	34.897	138.5028666	34.8096935	-34.8096935	PORT ADEL	D7611	A141	CT 5389 98	SI5409	6628	3	31	a	6
60528	6628-1355	6.63E+08	WW	Qhcks	5.8	20/12/1985	5.8	17740	5.8	DOM	OPR	1.8	0.2	29/01/1986	6758	11772	7.5	0.63	271684.71	6145109.25	54	138	30	14.301	34	48	38.518	138.5039726	34.8106995	-34.8106995	PORT ADEL	D113441	A1	CT 6179 39	SI5409	6628	3	31	a	6
60529	6628-1356	6.63E+08	WW	Qhcks	6	1/01/1986	6	17784	6	DOM	OPR	4	-2	16/01/1986	2949	5270	7.1	0.5	271731.75	6145073.24	54	138	30	16.116	34	48	39.724	138.5044766	34.8110345	-34.8110345	PORT ADEL	D29364	A51	CT 5158 14	SI5409	6628	3	31	a	6
60654	6628-1368	6.63E+08	WW	Qpah	3.2	22/05/1986	3.2	18362	3.2			1.8	0.2	19/06/1986	2301	4130	7.3	0.6	271697.7	6146176.27	54	138	30	15.856	34	48	3.922	138.5044044	34.8010894	-34.8010894	PORT ADEL	D4488	A11	CT 5599 23	SI5409	6628	3	31	a	1
61260	6628-1429	6.63E+08	WW	Qhcks	4	9/11/1988	4	21354		DOM	OPR	2.5	-0.5	17/11/1988	1367	2470	7.5	0.6	271656.72	6145976.34	54	138	30	14.049	34	48	10.373	138.5039025	34.8028814	-34.8028814	PORT ADEL	D4594	A65	CT 5685 22	SI5409	6628	3	31	a	1
61417	6628-1444	6.63E+08	ENG	Qpah	4.69	21/06/1989	4.69				UKN								272414.75	6145491.25	54	138	30	43.382	34	48	26.717	138.5120504	34.8074214	-34.8074214	PORT ADEL	D75708	A38	CT 6007 78	SI5409	6628	3	31	a	5
61418	6628-1444	6.63E+08	ENG	Qpah	0.92	21/06/1989	0.92				UKN								272427.71	6145109.29	54	138	30	43.519	34	48	39.115	138.5120885	34.8108654	-34.8108654	PORT ADEL	D75708	A38	CT 6007 78	SI5409	6628	3	31	a	5
61419	6628-1445	6.63E+08	ENG	Qpah	5.22	21/06/1989	5.22				UKN								272398.74	6144458.23	54	138	30	41.744	34	49	0.208	138.5115956	34.8167244	-34.8167244	PORT ADEL	D75708	A39	CT 6007 78	SI5409	6628	3	31	h	2
61420	6628-1445	6.63E+08	ENG	Qpah	1.32	21/06/1989	1.32				UKN								272799.74	6145080.33	54	138	30	58.12	34	48	40.354	138.5161445	34.8112093	-34.8112093		D89039	A500	CT 6111 63	SI5409	6628	3	31	a	5
61421	6628-1445	6.63E+08	ENG	Qpah	4.45	21/06/1989	4.45				UKN								272768.73	6144366.29	54	138	30	56.205	34	49	3.487	138.5156126	34.8176354	-34.8176354	PORT ADELAIDE				SI5409	6628	3	31	h	2
61422	6628-1445	6.63E+08	ENG	Qpah	2.85	21/06/1989	2.85				UKN								272576.78	6143956.28	54	138	30	48.257	34	49	16.631	138.5134046	34.8212864	-34.8212864	PORT ADEL	D73873	A13	CT 5991 46	SI5409	6628	3	31	h	5
61423	6628-1445	6.63E+08	ENG	Qpah	0.43	22/06/1989	0.43				UKN								273184.79	6144902.28	54	138	31	13.089	34	48	46.438	138.5203024	34.8128993	-34.8128993	PORT ADEL	D89039	A500	CT 6111 63	SI5409	6628	3	31	h	3
61443	6628-1447	6.63E+08	ENG	Qpah	9.7	23/06/1989	9.7				UKN								272794.76	6145096.31	54	138	30	57.94	34	48	39.832	138.5160944	34.8110643	-34.8110643		D89039	A500	CT 6111 63	SI5409	6628	3	31	a	5
61444	6628-1447	6.63E+08	ENG	Qpah	10.3	23/06/1989	10.3				UKN								272777.72	6144321.34	54	138	30	56.515	34	49	4.953	138.5156986	34.8180424	-34.8180424	PORT ADEL	D73873	A15	CT 6178 64	SI5409	6628	3	31	h	2
61446	6628-1447	6.63E+08	ENG	Qpah	13.2	23/06/1989	13.2				UKN								273328.71	6143913.3	54	138	31	17.787	34	49	18.629	138.5216076	34.8218413	-34.8218413	PORT ADEL	D92972	A111	CT 6151 18	SI5409	6628	3	31	h	4
61447	6628-1447	6.63E+08	ENG	Qpah	14.1	23/06/1989	14.1				UKN								272386.75	6145118.27	54	138	30	41.917	34	48	38.791	138.5116435	34.8107754	-34.8107754	PORT ADEL	D75890	A52	CT 6017 98	SI5409	6628	3	31	a	5
62072	6628-1510	6.63E+08	WW	Qhcks	3.5	20/10/1989	3.5	23374		IRR	OPR	2	0	6/11/1989	1160	2100	7.8	0.6	271702.7	6144699.33	54	138	30	14.608	34	48	51.827	138.5040576	34.8143965	-34.8143965	PORT ADELAIDE				SI5409	6628	3	31	h	1
62174	6628-1520	6.63E+08	WW	Tomw(T2)	243	6/12/1989	243	23531	156	OBS	OPR	1.59	0.41	18/09/2018	4031	7150	7.8	25.3	272133.14	6146059	54	138	30	32.868	34	48	8.076	138.5091301	34.8022434	-34.8022434	PORT ADEL	D111812	A3	CT 6184 76	SI5409	6628	3	31	a	2
62176	6628-1520	6.63E+08	WW	Qpah	5	21/02/1990	5	23883	5	IRR	OPR	1.4	0.6	13/03/1990	3858	6852	7.1	12	271712.76	6146156.33	54	138	30	16.428	34	48	4.581	138.5045634	34.8012724	-34.8012724	PORT ADEL	D4488	A12	CT 5700 29	SI5409	6628	3	31	a	1
62214	6628-1524	6.63E+08	WW	Tomw(T1)	144	21/03/1990	144	95402	132	IND		31.42	-27.25	12/11/2008	1560	2740	7.8	10	272136.27	6146021	54	138	30	32.954	34	48	9.311	138.509154	34.8025864	-34.8025864	PORT ADEL	D111812	A3	CT 6184 76	SI5409	6628	3	31	a	2
62646	6628-1567	6.63E+08	WW	Qhcks	5.8	5/11/1991	5.8	26398		DOM	OPR	2.3	2.01	5/11/1991	1446	2609	7.4	0.8	271790.74	6144505.28	54	138	30	17.88	34	48	58.192	138.5049667	34.8161645	-34.8161645	PORT ADEL	D7964	A83	CT 5545 29	SI5409	6628	3	31	h	1
62776	6628-1580	6.63E+08	WW	Qpah	4.5	28/11/1991	4.5	26568		DOM	OPR	3	1.45	28/11/1991	1401	2529	7.2		271696.78	6146099.33	54	138	30	15.744	34	48	6.417	138.5043734	34.8017824	-34.8017824	PORT ADEL	D4488	A30	CT 5565 35	SI5409	6628	3	31	a	1
62833	6628-1586	6.63E+08	WW	Qhcks	5.2	5/01/1992	5.2	26655		DOM	OPR	1.8	2.59	31/01/1992	2505	4491	7.8	0.4	271517.73	6145410.34	54	138	30	8.03	34	48	28.618	138.5022306	34.8079495	-34.8079495	PORT ADEL	D56033	A56	CT 5837 84	SI5409	6628	3	31	a	6
132764	6628-1629	6.63E+08	WW	Qhcks	5.3	15/02/1993	5.3	28876		DOM		1.8	2.41	17/03/1993	977	1770	7.4	0.89	271691.63	6144673.42	54	138	30	14.147	34	48	52.659	138.5039297	34.8146275	-34.8146275	PORT ADEL	D7964	A30	CT 5543 98	SI5409	6628	3	31	h	1
135644	6628-1981	6.63E+08	WW	Qhcks	4.9	24/06/1993	4.9	29267		DOM					1216	2200	7.2	0.75	271356.82	6146048.24	54	138	30	2.327	34	48	7.799	138.5006465	34.8021665	-34.8021665	PORT ADEL	D3410	A29	CT 5631 69	SI5409	6628	3	31	a	1
135654	6628-1642	6.63E+08	WW	Qpah	5.5	16/06/1993	5.5	28826		DOM					4204	7451	7.1	0.5	271821.71	6144688.31	54	138	30	19.277	34	48	52.281	138.5053546	34.8145225	-34.8145225	PORT ADEL	D7964	A38	CT 5543 99	SI5409	6628	3	31	h	1
135655	6628-1642	6.63E+08	WW	Qhcks	5.2	24/06/1993	5.2	29052		DOM					1535	2770	7.7	0.8	271541.84	6144663.25	54	138	30	8.246	34	48	52.868	138.5022907	34.8146855	-34.8146855	PORT ADEL	D114875	A32	CT 6187 29	SI5409	6628	3	31	h	1
145566	6628-1669	6.63E+08	WW	Qpah	4.2	12/08/1994	4.2	32143		IRR					5880	10300	7	0.34	271791.89	6145213.37	54	138	30	18.618	34	48	35.228	138.5051716	34.8097855	-34.8097855	PORT ADEL	D7611	A124	CT 5870 12	SI5409	6628	3	31	a	6
145670	6628-1982	6.63E+08	WW	Qhcks	6.7	29/09/1994	6.7	32615		DOM					2795	5000	7.6	0.9	271361.69	6144758.32	54	138	30	1.255	34	48	49.639	138.5003487	34.8137885	-34.8137885	PORT ADEL	D5411	A7	CT 5659 19	SI5409	6628	3	31	h	1
146324	6628-1676	6.63E+08	WW	Qpah	4.63	12/11/1994	4.63	33213	4.63	INV		1.83	2.16	12/11/1994					271971.8	6144973.31	54	138	30	25.458	34	48	43.158	138.5070716	34.8119884	-34.8119884	PORT ADEL	D90694	A506	CT 6107 39	SI5409	6628	3	31	a	6
146325	6628-1676	6.63E+08	WW	Qpah	5.04	12/11/1994	5.04	33214	5.04	INV		2.44	1.52	12/11/1994					272001.71	6145158.43	54	138	30	26.815	34	48	37.179	138.5074485	34.8103274	-34.8103274	PORT ADEL	F218226	A56	CT 5832 13	SI5409	6628	3	31	a	6
146326	6628-1676	6.63E+08	WW	Qpah	4.62	12/11/1994	4.62	33215	4.62	INV		1.71	2.27	12/11/1994					272031.76	6144903.21	54	138	30	27.747	34	48	45.48	138.5077076	34.8126334	-34.8126334	PORT ADEL	D71673	A14	CT 5994 99	SI5409	6628	3	31	h	1
146327	6628-1676	6.63E+08	WW	Qpah	4.7	12/11/1994	4.7	33216	4.7	INV		1.69	2.32	12/11/1994					271991.8	6144883.13	54	138	30	26.156	34	48	46.1	138.5072656	34.8128054	-34.8128054	PORT ADEL	D90694	A506	CT 6107 39	SI5409	6628	3	31	h	1
146328	6628-1676	6.63E+08	WW	Qpah	4.64	12/11/1994	4.64	33217	4.64	INV		1.92	2.15	12/11/1994					271956.63	6144773.47	54	138	30	24.666	34	48	49.628	138.5068516	34.8137855	-34.8137855	PORT ADEL	C40063			SI5409	6628	3	31	h	1
146329	6628-1677	6.63E+08	WW	Qpah	4.57	12/11/1994	4.57	212038		INV	BKF	1.66	2.36	12/11/1994					271931.82	6144913.38	54	138	30	23.827	34	48	45.07	138.5066186	34.8125195	-34.8125195	PORT ADELAIDE				SI5409	6628	3	31	h	1
147765	6628-1986	6.63E+08	WW	Qhcks	6.4	1/11/1994	6.4	32815		DOM					5257	9250	6.9	0.9	271401.65	6145083.33	54	138	30	3.145	34	48	39.13	138.5008736	34.8108695	-34.8108695	PORT ADEL	D2789	A32	CT 5738 54	SI5409	6628	3	31	a	6
148156	6628-1699	6.63E+08	ENG	Qpah	14.9	21/08/1987	14.9				UKN								272021.69	6143578.41	54	138	30	26.056	34	49	28.439	138.5072378	34.8245665	-34.8245665	PORT ADEL	D87823	A201	CT 6145 88	SI5409	6628	3	31	h	6
148636	6628-1709	6.63E+08	WW	Qhcks	5	14/02/1995	5	33462		DOM		3	0.77	14/02/1995	3006	5371	7.1		271476.84	6145148.47	54	138	30	6.165	34	48	37.078	138.5017126	34.8102995	-34.8102995	PORT ADEL	D7611	A241	CT 5367 46	SI5409	6628	3	31	a	6
149530	6628-1713	6.63E+08	WW	Qhcks	5.5	17/03/1995	5.5	34021		DOM					3184	5680	6.9	0.75	271481.73	6145198.21	54	138	30	6.407	34	48	35.469	138.5017796	34.8098525	-34.8098525	PORT ADEL	D7611	A238	CT 5367 30	SI5409	6628	3	31	a	6
149531	6628-1713	6.63E+08	WW	Qpah	5.2	3/04/1995	5.2	34582		DOM					1558	2810	7.5	0.55	271871.68	6144438.36	54	138	30	20.998	34	49	0.428	138.5058327	34.8167855	-34.8167855	PORT ADEL	D7964	A109	CT 5545 85	SI5409	6628	3	31	h	1
149741	6628-1982	6.63E+08	WW	Qpah	5.2	24/12/1994	5.2	32019		DOM					446	810	7.1	0.98	271471.97	6142498.24	54	138	30	3.377	34	50	3.029	138.500938	34.8341746	-34.8341746	PORT ADEL	D597	A36	CT 5324 68	SI5409	6628	3	31	j	6
153387	6628-1983	6.63E+08	WW	Qhcks	6	16/01/1996	6	36763	6	IRR					1423	2570	7.6	1	271426.83	6144198.18	54	138	30	3.268	34	49	7.858	138.5009078	34.8188496	-34.8188496	PORT ADEL	F30530	A1001	CT 5808 45	SI5409	6628	3	31	h	6
156135	6628-1782	6.63E+08	WW	Qpah	5.5	10/11/1995	5.5	36253		DOM					1244	2250	7.5	0.27	271821.84	6144418.25	54	138	30	19.018	34	49	1.04	138.5052827	34.8169555	-34.8169555	PORT ADEL	D7964	A107	CT 5280 10	SI5409	6628	3	31	h	1
156539	6628-1788	6.63E+08	WW	Qhcks	4.7	20/02/1996	4.7	36960		DOM					1788	3220	7.3	0.3	271502.01	6146078.38	54	138	30	8.066	34	48	6.939	138.5022405	34.8019274	-34.8019274	PORT ADEL	D4488	A41	CT 5698 56	SI5409	6628	3	31	a	1
159778	6628-1794	6.63E+08	WW	Qhcks	6	26/04/1996	6	37509		DOM					6361	11100	7.6	0.6	271476.81	6145098.19	54	138	30	6.115	34	48	38.709	138.5016986	34.8107525	-34.8107525	PORT ADEL	D7611	A243	CT 5222 24	SI5409	6628	3	31	a	6
163075	6628-1823	6.63E+08	WW	Qpah	5.8	5/12/1996	5.8	39234		DOM		2.4	1.94	5/12/1996	1127	2040		0.4	271801.85	6144423.3	54	138	30	18.236	34	49	0.86	138.5050657	34.8169055	-34.8169055	PORT ADEL	D7964	A105	CT 5545 85	SI5409	6628	3	31	h	1
164187	6628-1829	6.63E+08	WW	Qpah	4.4	28/11/1996	4.4	39926	4.4	INV		2.38	1.48	28/11/1996					271881.9	6143123.28	54	138	30	20.113	34	49	43.088	138.5055869	34.8286356	-34.8286356	PORT ADEL	D87823	A205	CT 6146 57	SI5409	6628	3	31	j	1
164188	6628-1829	6.63E+08	WW	Qpah	4.4	28/11/1996	4.4	40025	4.4	INV		2	1.91	28/11/1996					271836.92	6143128.26	54	138	30	18.349	34	49	42.89	138.5050969	34.8285806	-34.8285806	PORT ADEL	D87823	A205	CT 6146 57	SI5409	6628	3	31	j	1
164189	6628-1829	6.63E+08	WW	Qpah	4.6	28/11/1996	4.6	40026	4.6	INV		2.16	1.68	28/11/1996					271911.87	6143143.34	54	138	30	21.311	34	49	42.462	138.5059198	34.8284616	-34.8284616	PORT ADEL	D87823	A205	CT 6146 57	SI5409	6628	3	31	j	1

Groundwater Data Report 2km

169303	6628-1898	6.63E+08	WW	Qpah	4	22/02/1998	4	56303		INV	BKF	1.5	2.53	22/02/1998				0.2	272061.86	6145438.31	54	138	30	29.453	34	48	28.15	138.5081815	34.8078194	-34.8078194	PORT ADEL	D75890	A52	CT 6017 98	SI5409	6628	3	31	a	6
169304	6628-1898	6.63E+08	WW	Qpah	4	22/02/1998	4	44221	4	INV		1.5	2.54	22/02/1998				0.2	271981.86	6145393.25	54	138	30	26.264	34	48	29.547	138.5072955	34.8082074	-34.8082074	PORT ADEL	F218226	A56	CT 5832 13	SI5409	6628	3	31	a	6
169305	6628-1898	6.63E+08	WW	Qpah	4	22/02/1998	4	44222	4	INV		1.5	2.5	22/02/1998				0.2	272081.92	6145408.28	54	138	30	30.213	34	48	29.14	138.5083925	34.8080944	-34.8080944	PORT ADEL	D75890	A52	CT 6017 98	SI5409	6628	3	31	a	5
169306	6628-1898	6.63E+08	WW	Qpah	4	22/02/1998	4	44223	4	INV		1.5	2.51	22/02/1998				0.2	272046.87	6145378.33	54	138	30	28.805	34	48	30.083	138.5080015	34.8083564	-34.8083564	PORT ADEL	D71673	A14	CT 5994 99	SI5409	6628	3	31	a	6
169307	6628-1898	6.63E+08	WW	Qpah	4	22/02/1998	4	44224	4	INV		1.5	2.53	22/02/1998				0.2	272021.93	6145398.24	54	138	30	27.844	34	48	29.417	138.5077345	34.8081714	-34.8081714	PORT ADEL	F218226	A56	CT 5832 13	SI5409	6628	3	31	a	6
169308	6628-1898	6.63E+08	WW	Qpah	5	22/02/1998	5	56303		INV	BKF	2	2.08	22/02/1998				0.2	271966.88	6145458.26	54	138	30	25.738	34	48	27.426	138.5071495	34.8076184	-34.8076184	PORT ADEL	F218226	A56	CT 5832 13	SI5409	6628	3	31	a	6
173630	6628-1926	6.63E+08	WW	Qpah	5	27/11/1998	5	46991	4.5	DOM		2	2.02	27/11/1998	5737	10050		0.5	271761.89	6145278.33	54	138	30	17.502	34	48	33.096	138.5048616	34.8091935	-34.8091935	PORT ADEL	D59093	A6	CT 5870 12	SI5409	6628	3	31	a	6
174113	6528-2108	6.53E+08	WW	Qhcks	6	19/01/1997	6	39761		DOM		2.3	2.56	19/01/1997	1021	1850		0.8	271191.9	6143943.24	54	138	29	53.779	34	49	15.937	138.4982718	34.8210936	-34.8210936	PORT ADEL	D426	A103	CT 5694 76	SI5409	6528	2	35	e	4
174115	6528-2110	6.53E+08	WW	Qhcks	7	20/02/1997	7	40272		DOM		3.4	1.56	20/02/1997	999	1810		0.8	270891.86	6144008.34	54	138	29	42.043	34	49	13.583	138.4950119	34.8204396	-34.8204396	PORT ADEL	D426	A199	CT 5320 32	SI5409	6528	2	35	e	4
174116	6528-2111	6.53E+08	WW	Qhcks	10.1	20/03/1997	10.1	40508		DOM		6.1	-1.48	20/03/1997	1032	1870		0.5	270491.91	6144093.35	54	138	29	26.397	34	49	10.501	138.4906659	34.8195837	-34.8195837	PORT ADEL	D2108	A39	CT 5357 76	SI5409	6528	2	35	e	5
174117	6528-2112	6.53E+08	WW	Qhcks	7.5	11/04/1997	7.5	40911		DOM		3.5	1.39	11/04/1997	1328	2400		0.86	270851.88	6146048.29	54	138	29	42.474	34	48	7.389	138.4951316	34.8020525	-34.8020525	PORT ADEL	D2252	A268	CT 5635 59	SI5409	6528	2	35	d	3
174118	6528-2113	6.53E+08	WW	Qhcks	5	15/04/1997	5	40920		DOM		1	3.45	15/04/1997	1535	2770		0.86	271021.88	6142838.31	54	138	29	46.007	34	49	51.635	138.496113	34.8310097	-34.8310097	PORT ADEL	D110960	A10	CT 6163 40	SI5409	6528	2	35	m	3
174119	6528-2114	6.53E+08	WW	Qhcks	6.8	10/08/1997	6.8	42111		DOM		2.8	1.9	10/08/1997	849	1540		0.9	270966.9	6143423.24	54	138	29	44.419	34	49	32.62	138.4956719	34.8257276	-34.8257276	PORT ADEL	S7789			SI5409	6528	2	35	m	3
174121	6528-2116	6.53E+08	WW	Qhcks	8.1	24/09/1997	8.1	42549		DOM		3.7	1.88	24/09/1997	683	1240		0.89	271096.88	6145663.24	54	138	29	51.729	34	48	20.075	138.4977026	34.8055765	-34.8055765	PORT ADEL	D43837	A56	CT 5310 31	SI5409	6528	2	35	d	3
174123	6528-2118	6.53E+08	WW	Qpah	5.6	29/10/1997	5.6	42897		DOM		1.6	2.58	29/10/1997	805	1460		0.6	271331.93	6142638.27	54	138	29	58.006	34	49	58.374	138.499446	34.8328816	-34.8328816	PORT ADEL	D25899	A16	CT 5275 22	SI5409	6528	2	35	m	4
174130	6628-1987	6.63E+08	WW	Qhcks	6.8	28/11/1997	6.8	43187		DOM		2.8	0.96	28/11/1997	1850	3330		0.49	271351.9	6144868.3	54	138	30	0.978	34	48	46.064	138.5002717	34.8127955	-34.8127955	PORT ADEL	F4953	A55	CT 5794 78	SI5409	6628	3	31	h	1
174134	6528-2122	6.53E+08	WW	Qhcks	7.2	18/12/1997	7.2	43425		DOM		3.1	1.42	18/12/1997	1850	3330		0.8	271321.93	6143563.31	54	138	29	58.52	34	49	28.364	138.4995889	34.8245456	-34.8245456	PORT ADEL	D3186	A113	CT 5297 43	SI5409	6528	2	35	e	4
174136	6528-2124	6.53E+08	WW	Qhcks	8.4	27/01/1998	8.4	43471		DOM		4.3	0.7	27/01/1998	821	1490		0.8	270266.9	6143458.34	54	138	29	16.922	34	49	30.913	138.488034	34.8252537	-34.8252537	PORT ADEL	D1195	A239	CT 5410 60	SI5409	6528	2	35	m	2
174138	6528-2126	6.53E+08	WW	Qhcks	8.7	14/01/1998	8.7	43653		DOM		4.6	0.63	14/01/1998	854	1550		0.7	270786.86	6144038.23	54	138	29	37.942	34	49	12.528	138.4938729	34.8201466	-34.8201466	PORT ADEL	F4668	A114	CT 6012 81	SI5409	6528	2	35	e	4
174139	6528-2127	6.53E+08	WW	Qhcks	6.5	3/02/1998	6.5	43765		DOM		2.5	2.02	3/02/1998	1446	2610		0.8	271156.89	6143358.28	54	138	29	51.828	34	49	34.88	138.4977299	34.8263556	-34.8263556	PORT ADEL	D2078	A24	CT 5409 22	SI5409	6528	2	35	m	3
174141	6528-2129	6.53E+08	WW	Qhcks	8.1	3/04/1998	8.1	44781		DOM		4	4.37	3/04/1998	385	700		0.8	270651.9	6144288.27	54	138	29	32.881	34	49	4.309	138.4924668	34.8178636	-34.8178636	PORT ADEL	D1092	A26	CT 5698 89	SI5409	6528	2	35	e	3
174142	6528-2130	6.53E+08	WW	Qhcks	8.1	17/04/1998	8.1	44843		DOM		4	3.1	17/04/1998	1138	2060		0.89	270841.86	6144258.28	54	138	29	40.322	34	49	5.436	138.4945338	34.8181766	-34.8181766	PORT ADEL	D2290	A236	CT 5718 17	SI5409	6528	2	35	e	3
174143	6528-2131	6.53E+08	WW	Qhcks	6.8	14/04/1998	6.8	44844		DOM		2.8	1.93	14/04/1998	1210	2190		0.8	271106.89	6143678.27	54	138	29	50.175	34	49	24.462	138.4972709	34.8234616	-34.8234616	PORT ADEL	D3186	A57	CT 5419 77	SI5409	6528	2	35	e	4
174144	6528-2132	6.53E+08	WW	Qhcks	6.8	2/10/1998	6.8	46461		DOM		2.8	1.94	2/10/1998	854	1550		0.9	270931.93	6143588.31	54	138	29	43.206	34	49	27.238	138.4953349	34.8242326	-34.8242326	PORT ADEL	D3186	A11	CT 5599 48	SI5409	6528	2	35	e	4
174146	6528-2134	6.53E+08	WW	Qhcks	6.8	11/11/1998	6.8	46969		DOM		2.8	1.93	11/11/1998	1295	2340		0.8	270936.88	6143573.34	54	138	29	43.386	34	49	27.727	138.4953849	34.8243686	-34.8243686	PORT ADEL	D3186	A10	CT 5565 90	SI5409	6528	2	35	e	4
174147	6528-2135	6.53E+08	WW	Qhcks	8.1	21/11/1998	8.1	47124		DOM		3.7	2.09	21/11/1998	722	1310		0.89	271111.93	6145603.35	54	138	29	52.262	34	48	22.03	138.4978506	34.8061195	-34.8061195	PORT ADEL	D91592	A701	CT 6113 62	SI5409	6528	2	35	d	3
174148	6528-2136	6.53E+08	WW	Qhcks	5.9	23/12/1998	5.9	47241		DOM		2.2	2.32	23/12/1998	755	1370		0.9	271161.89	6143418.35	54	138	29	52.083	34	49	32.936	138.4978009	34.8258156	-34.8258156	PORT ADEL	D1200	A1	CT 5238 83	SI5409	6528	2	35	m	3
174149	6528-2137	6.53E+08	WW	Qhcks	6.2	10/12/1998	6.2	47244		DOM		2.2	2.37	10/12/1998	1440	2600		0.8	271101.92	6143408.3	54	138	29	49.714	34	49	33.213	138.4971429	34.8258926	-34.8258926	PORT ADEL	D2078	A20	CT 5125 90	SI5409	6528	2	35	m	3
174150	6528-2138	6.53E+08	WW	Qhcks	6.8	12/12/1998	6.8	47245		DOM		2.8	2.09	12/12/1998	1373	2480		0.9	270766.92	6143338.32	54	138	29	36.47	34	49	35.212	138.493464	34.8264477	-34.8264477	PORT ADEL	D2077	A10	CT 5412 49	SI5409	6528	2	35	m	3
174155	6628-1938	6.63E+08	WW	Qpah	6.1	10/01/1997	6.1	38586		DOM		2.7	1.47	10/01/1997	3035	5420		0.4	271961.88	6144503.32	54	138	30	24.608	34	48	58.394	138.5068356	34.8162205	-34.8162205	PORT ADEL	D7964	A116	CT 5265 31	SI5409	6628	3	31	h	1
174483	6528-2145	6.53E+08	WW	Qhcks	8.4	22/10/1997	8.4	42810		DOM		4.3	0.71	22/10/1997	1278	2310		0.75	270306.9	6142863.27	54	138	29	17.909	34	49	50.246	138.4883081	34.8306238	-34.8306238	PORT ADEL	F4203	A18	CT 5165 80	SI5409	6528	2	35	m	2
174939	6528-2147	6.53E+08	WW	Qhcks	6	22/03/1999	6	48208	5.5	DOM		2.1	2.71	22/03/1999	994	1800		0.5	270981.89	6143713.33	54	138	29	45.294	34	49	23.223	138.4959149	34.8231176	-34.8231176	PORT ADEL	D3186	A44	CT 5819 60	SI5409	6528	2	35	e	4
175181	6528-2149	6.53E+08	WW	Qpah	6	28/12/1996	6	39705		DOM		2.1	2.33	28/12/1996	1788	3220		0.8	270911.93	6142378.25	54	138	29	41.23	34	50	6.467	138.4947861	34.8351297	-34.8351297	PORT ADEL	D1116	A209	CT 5703 73	SI5409	6528	2	35	m	4
175854	6528-2163	6.53E+08	WW	Qhcks	9.8	7/01/1997	9.8	39189		DOM		6.1	-1.1	7/01/1997	611	1110		0.5	270101.93	6143098.33	54	138	29	10.079	34	49	42.455	138.4861331	34.8284598	-34.8284598	PORT ADEL	S6378			SI5409	6528	2	35	m	2
175862	6528-2171	6.53E+08	WW	Qhcks	8.8	22/01/1997	8.8	39822		DOM		5	1.95	22/01/1997	1110	2010		0.68	270581.92	6144158.31	54	138	29	30.001	34	49	8.467	138.4916669	34.8190187	-34.8190187	PORT ADEL	D2108	A12	CT 5193 80	SI5409	6528	2	35	e	4
175863	6528-2172	6.53E+08	WW	Qhcks	8.8	12/02/1997	8.8	40093		DOM		4.9	0.11	12/02/1997	832	1510		0.6	270166.87	6143253.25	54	138	29	12.786	34	49	37.484	138.4868851	34.8270788	-34.8270788	PORT ADEL	D341	A36	CT 5817 96	SI5409	6528	2	35	m	2
175864	6528-2173	6.53E+08	WW	Qhcks	7.6	5/02/1997	7.6	40095		DOM		3.7	1.35	5/02/1997	854	1550		0.8	271056.9	6145728.29	54	138	29	50.221	34	48	17.933	138.4972836	34.8049815	-34.8049815	PORT ADEL	D43837	A60	CT 5310 31	SI5409	6528	2	35	d	3
175865	6528-2174	6.53E+08	WW	Qhcks	7.3	31/01/1997	7.3	40112		DOM		3.7	2.05	31/01/1997	843	1530		0.8	271111.92	6145618.33	54	138	29	52.277	34	48	21.544	138.4978546	34.8059845	-34.8059845	PORT ADEL	D91592	A701	CT 6113 62	SI5409	6528	2	35	d	3
175869	6528-2178	6.53E+08	WW	Qhcks	6	4/07/1997	6	41738		DOM		2.7	2.09	4/07/1997	1564	2820		0.65	271181.9	6146068.29	54	138	29	55.469	34	48	7.007	138.4987415	34.8019465	-34.8019465	PORT ADEL	D81257	A517	CT 6038 24	SI5409	6528	2	35	d	3
175870	6528-2179	6.53E+08	WW	Qhcks	6.8	16/09/1997	6.8	42470		DOM		3.5	1.78	16/09/1997	1005	1820		0.72	270556.87	6145748.32	54	138	29	30.58	34	48	16.879	138.4918276	34.8046886	-34.8046886	PORT ADEL	D7557	A4	CT 5592 95	SI5409	6528	2	35	d	3
175872	6528-2181	6.53E+08	WW	Qhcks	6.2	7/11/1997	6.2	43034		DOM		2.2	2.67	7/11/1997	1055	1910		0.6	270461.91	6142963.28	54	138	29	24.105	34	49	47.128	138.4900291	34.8297577	-34.8297577	PORT ADEL	D341	A145	CT 6121 78	SI5409	6528	2	35	m	2
175874	6528-2183	6.53E+08	WW	Qhcks	8.9	7/01/1998	8.9	43472		DOM		4.9	0.12	7/01/1998	468	850		0.8	270256.88	6142883.32	54	138	29	15.962	34	49	49.554	138.4877671	34.8304318	-34.8304318	PORT ADEL	F4203	A13	CT 5122 63	SI5409	6528	2	35	m	2
175876	6528-2185	6.53E+08	WW	Qhcks	5.4	10/03/1998	5.4	44339		DOM		1.5	3.28	10/03/1998	1088	1970		0.48	270506.88	6142673.25	54	138	29	25.588	34	49	56.571	138.4904411	34.8323807	-34.8323807	PORT ADEL	D429	A46	CT 5372 98	SI5409	6528	2	35	m	5
175877	6528-2186	6.53E+08	WW	Qhcks	7.9	26/03/1998	7.9	44664		DOM		4	1.55	26/03/1998	655	1190		0.8	270941.9	6145728.31	54	138	29	45.699	34	48	17.84	138.4960276	34.8049555	-34.8049555	PORT ADEL	D117175	A200	CT 6200 86	SI5409	6528	2	35	d	3
175878	6528-2187	6.53E+08	WW	Qhcks	13.7	9/10/1998	13.7	46414		DOM		9.3	2.5	9/10/1998	733	1330		0.61	270546.91	6144613.32	54	138	29	29.072	34	48	53.682	138.4914088	34.8149116	-34.8149116	PORT ADEL	D2331	A113	CT 5270 30	SI5409	6528	2	35	e	2
175879	6528-2188	6.53E+08	WW	Qhcks	8.7	1/10/1998	8.7	46463		DOM		5.1	-0.15	1/10/1998	534	970		0.65	270316.85	6142988.28	54	138	29	18.424	34	49	46.199	138.4884511	34.8294997	-34.8294997	PORT ADEL	D341	A97	CT 5322 35	SI5409	6528	2	35	m	2
175880	6528-2189	6.53E+08	WW	Qhcks	9	21/10/1998	9	46807		DOM		5.4	3.09	21/10/1998	766	1390		0.71	270731.86	6144623.27	54	138	29	36.354	34	48	53.509	138.4934318	34.8148636	-34.8148636	PORT ADEL	D2331	A182	CT 5714 15	SI5409	6528	2	35	e	3
175881	6528-2190	6.53E+08	WW	Qhcks	7.9	16/10/1998	7.9	46814		DOM		3.5	0.79	16/10/1998	1099	1990		0.74	271106.86	6144768.28	54	138	29	51.244	34	48	49.11	138.4975677	34.8136416	-34.8136416	PORT ADEL	D2533	A400	CT 5815 73	SI5409	6528	2	35	e	3
175888	6528-2197	6.53E+08	WW	Qhcks	6.2	20/11/1998	6.2	47127		DOM		2.4	2.39	20/11/1998	882	1600		0.71	270971.87	6143693.32	54	138	29	44.88	34	49	23.864	138.4957999	34.8232956	-34.8232956	PORT ADEL	D3186	A45	CT 5904 56	SI5409	6528	2	35	e	4
175889	6528-2198	6.53E+08	WW	Qhcks	6.3	20/01/1999	6.3	47576		DOM		2.5	2.02	20/01/1999	1295	2340		0.82	270621.91	6143083.28	54	138	29	30.516	34	49	43.366	138.49181	34.8287127	-34.8287127	PORT ADEL	F25221	A53	CT 5400 75	SI5409	6528	2	35	m	3
175890	6528-2199	6.53E+08	WW	Qhcks	6.9	28/12/1998	6.9	47617		DOM		3.3	1.53	28/12/1998	888	1610		0.8	270436.87	6142903.26	54	138	29	23.061	34	49	49.054	138.4897391	34.8302927	-34.8302927	PORT ADEL	F4203	A36	CT 5475 65	SI5409	6528	2	35	m	2
175893	6528-2202	6.53E+08	WW	Qhcks	6.3	5/02/1999	6.3	47767		DOM		2.4	2.07	5/02/1999	1138	2060		0.81	271136.85	6144498.3	54	138	29	52.158	34	48	57.89	138.4978217	34.8160806	-34.8160806	PORT ADEL	D56186	A580	CT 5845 65	SI5409	6528	2	35	e	3
175910	6628-1955	6.63E+08	WW	Qhcks	5.8	6/02/1997	5.8	40043		DOM		2.4	1.92	6/02/1997	1233	2230		0.75	271776.91	6144498.27	54	138	30	17.329	34	48	58.408	138.5048137	34.8162245	-34.8162245	PORT ADEL	D7964	A84	CT 5392 77	SI5409	6628	3	31	h	1
176698	6528-2216	6.53E+08	WW	Qhcks	9.5	18/10/1996	9.5	38869		DOM		5.7	-0.69	18/10/1996	860	1560		0.6	270041.94	6142983.27	54	138	29	7.606	34	49	46.138	138.4854461	34.8294828	-34.8294828	PORT ADEL	D1545	A19	CT 5579 33	SI5409	6528	2	35	m	2
176699	6528-2217	6.53E+08	WW	Qhcks	7.6	21/11/1997	7.6	39184		DOM		3.9	1.04	21/11/1997	1457	2630		0.58	270476.88	6143063.33	54	138	29	24.792	34	49	43.895	138.49022	34.8288597	-34.8288597	PORT ADEL	F4191	A66	CT 5410 12	SI5409	6528	2	35	m	2
176702	6528-2220	6.53E+08	WW	Qhcks	5.9	13/08/1997	5.9	42036		DOM		2.2	2.49	13/08/1997	1995	3590		0.64	271031.92	6144268.24	54	138	29	47.806	34	49	5.267	138.4966128	34.8181296	-34.8181296	PORT ADEL	D2290	A305	CT 5761 66	SI5409	6528	2	35	e	3
176703	6528-2221	6.53E+08	WW	Qhcks	6.6	19/08/1997	6.6	42110		DOM		2.4	2.11	19/08/1997	1356	2450		0.84	270661.9	6143058.31	54	138	29	32.064	34	49	44.208	138.49224	34.8289467	-34.8289467	PORT ADEL	D77457	A410	CT 6009 46	SI5409	6528	2	35	m	3
176704	6528-2222	6.53E+08	WW	Qhcks	6.8	23/10/1997	6.8	42808		DOM		2.7	1.6	23/10/1997	1614	2910		0.76	270976.91	6142953.3	54	138	29	44.351	34	49	47.869	138.495653	34.8299637	-34.8299637	PORT ADEL	D2151	A8	CT 5718 89	SI5409	6528	2	35	m	3
176705	6528-2223	6.53E+08	WW	Qhcks	8.7	2/11/1997	8.7	42896		DOM		4.6	1.8	2/11/1997	1631	2940		0.61	270596.86	6145738.33	54	138	29	32.142	34	48	17.235	138.4922616	34.8047876	-34.8047876	PORT ADEL	D7557	A34	CT 5406 55	SI5409	6528	2	35	d	3
176706	6528-2224	6.53E+08	WW	Qhcks	6.8	6/11/1997	6.8	42966		DOM		2.8	1.93	6/11/1997	888	1610		0.74	270931.91	6143248.32	54	138	29	42.871	34	49	38.264	138.495242	34.8272957	-34.8272957	PORT ADEL	F4279	A53	CT 5114 16	SI5409	6528	2	35	m	3
176708	6528-2226	6.53E+08	WW	Qhcks	9.3	30/01/1998	9.3	43426		DOM		5.3	3.77	30/01/1998	545	990		0.7	270661.91	6144378.32	54	138	29	33.363	34	49	1.397	138.4926008	34.8170546	-34.8170546	PORT ADEL	D1092	A54	CT 5296 33	SI5409	6528	2	35	e	3
176709	6528-2227	6.53E+08	WW	Qhcks	9.3	13/12/1997	9.3	43455		DOM		5	0	13/12/1997	899	1630		0.8	270126.9	6143358.26	54	138	29	11.317	34	49	34.045	138.486477	34.8261237	-34.8261237	PORT ADEL	D113722	A1	CT 6192 41	SI5409	6528	2	35	m	2
176712	6528-2230	6.53E+08	WW	Qhcks	7.1	11/01/1998	7.1	43764		DOM		3	1.89	11/01/1998	733	1330		0.8	270766.89	6143343.32	54	138	29	36.474	34	49	35.05	138.493465	34.8264027	-34.8264027	PORT ADEL	D2077	A10	CT 5412 49	SI5409	6528	2	35	m	3
176714	6528-2232	6.53E+08	WW	Qhcks	8.3	12/02/1998	8.3	43959		DOM		4.6	0.41	12/02/1998	899	1630		0.68	270526.87	6143673.31	54	138	29	27.359	34	49	24.152	138.4909329	34.8233757	-34.8233757	PORT ADEL	D1996	A67	CT 5251 97	SI5409	6528	2	35	e	5
176717	6528-2235	6.53E+08	WW	Qhcks	5.4	21/01/1999	5.4	47577		DOM		1.6	3.1	21/01/1999	1872	3370		0.81	270611.89	6142628.26	54	138	29	29.674	34	49	58.115	138.4915761	34.8328097	-34.8328097	PORT ADEL	F4424	A156	CT 5292 71	SI5409	6528	2	35	m	5
176718	6528-2236	6.53E+08	WW	Qhcks	9	5/02/1999	9	47790		DOM		5	-0.01	5/02/1999	628	1140		0.7	270321.85	6143738.33	54	138	29	19.359	34	49	21.877	138.488711	34.8227437	-34.8227437	PORT ADEL	D93035	A111	CT 6142 80	SI5409	6528	2	35	e	5
176720	6528-2238	6.53E+08	WW	Qhcks	6.5	18/02/1999	6.5	47978		DOM		2.6	2.25	18/02/1999	988	1790		0.74	270551.91	6143013.26	54	138	29	27.694	34	49	45.58	138.491026	34.8293277	-34.8293277	PORT ADEL	D341	A129	CT 5227 83	SI5409	6528	2	35	m	2
176721	6528-2239	6.53E+08	WW	Qhcks	5	11/02/1999	5	48027		DOM		1.5	3.06	11/02/1999	1770	3190		0.74	271136.91	6143198.27	54	138	29	50.885	34	49	40.054	138.4974679	34.8277926	-34.8277926	PORT ADEL	F4478	A9	CT 5362 32	SI5409	6528	2	35	m	3
176722	6528-2240	6.53E+08	WW	Qhcks	9.1	3/03/1999	9.1	48086		DOM		5.3	-0.28	3/03/1999	639	1160		0.49	270216.88	6143248.29	54	138	29	14.748	34	49	37.685	138.4874301	34.8271347	-34.8271347	PORT ADEL	D343	A179	CT 5296 73	SI5409	6528	2	35	m	2
176723	6528-2241	6.53E+08	WW	Qhcks	7.7	4/03/1999	7.7	48087		DOM		3.6	3.34	4/03/1999	728	1320		0.68	270816.88	6145763.26	54	138	29	40.818	34	48	16.605	138.4946716	34.8046125	-34.8046125	PORT ADEL	D52101	A75	CT 5673 55	SI5409	6528	2	35	d	3
176724	6528-2242	6.53E+08	WW	Qpah	5.5	25/02/1999	5.5	48088		DOM		1.8	2.52	25/02/1999	2194	3940		0.6	271021.85	6142473.23	54	138	29	45.647	34	50	3.475	138.4960131	34.8342987	-34.8342987	PORT ADEL	C26786			SI5409	6528	2	35	m	4
176726	6528-2244	6.53E+08	WW	Qhcks	6	10/03/1999	6	48214		DOM		2.7	2.17	10/03/1999	1973	3550		0.74	271146.91	6143923.24	54	138	29	51.989	34	49	16.549	138.4977748	34.8212636	-34.8212636	PORT ADEL	D426	A75	CT 5425 53	SI5409	6528	2	35	e	4
176727	6528-2245	6.53E+08	WW	Qhcks	6.5	1/04/1999	6.5	48421		DOM		2.5	2.35	1/04/1999	1418	2560		0.8	271141.9	6143878.27	54	138	29	51.748	34	49	18.003	138.4977078	34.8216676	-34.8216676	PORT ADEL	D426	A60	CT 5734 66	SI5409	6528	2	35	e	4
176728	6528-2246	6.53E+08	WW	Qhcks	6.6	31/03/1999	6.6	48422		DOM		2.9	1.77	31/03/1999	1199	2170		0.74	271086.9	6144233.32	54	138	29	49.934	34	49	6.444	138.4972038	34.8184566	-34.8184566	PORT ADEL	D426	A180	CT 5721 48	SI5409	6528	2	35	e	3
176730	6528-2248	6.53E+08	WW	Qhcks	8.6	27/04/1999	8.6	49424		DOM		4.3	0.69	27/04/1999	761	1380		0.65	270381.88	6143823.3	54	138	29	21.804	34	49	19.17	138.4893899	34.8219917	-34.8219917	PORT ADEL	D1996	A56	CT 5786 99	SI5409	6528	2	35	e	5
176731	6528-2249	6.53E+08	WW	Qhcks	6.3	19/05/1999	6.3	49425		DOM		2.2	2.57	19/05/1999	1575	2840		0.68	271321.9	6143968.35	54	138	29	58.916	34	49	15.228	138.4996988	34.8208966	-34.8208966	PORT ADEL	D9013	A20	CT 5550 13	SI5409	6528	2	35	e	4
176732	6528-2250	6.53E+08	WW	Qhcks	9.6	15/07/1999	9.6	49900		DOM		5.4	-0.4	15/07/1999	639	1160		0.45	270136.91	6143298.34	54	138	29	11.652	34	49	35.997	138.4865701	34.8266658	-34.8266658	PORT ADEL	D343	A184	CT 5066 75	SI5409	6528	2	35	m	2
176734	6528-2252	6.53E+08	WW	Qhcks	7.3	23/07/1999	7.3	49902		DOM		3.4	1.47	23/07/1999	1216	2200		0.71	270946.89	6143773.28	54	138	29	43.976	34	49	21.251	138.4955489	34.8225696	-34.8225696	PORT ADEL	D3186	A34	CT 5668 48	SI5409	6528	2	35	e	4
176791	6628-1970	6.63E+08	WW	Qpah	5.9	18/12/1998	5.9	44208		DOM		2.4	1.76	18/12/1998	2607	4670		0.63	271961.93	6144538.29	54	138	30	24.644	34	48	57.26	138.5068456	34.8159055	-34.8159055	PORT ADEL	D7964	A118	CT 5187 39	SI5409	6628	3	31	h	1
176792	6628-1970	6.63E+08	WW	Qpah	6.2	26/02/1999	6.2	47975		DOM		2.5	1.65	26/02/1999	8367	14440		0.74	271911.86	6144648.26	54	138	30	22.783	34	48	53.652	138.5063286	34.8149035	-34.8149035	PORT ADEL	D7964	A45	CT 5281 50	SI5409	6628	3	31	h	1
176793	6628-1970	6.63E+08	WW	Qhcks	4.9	6/04/1999	4.9	48635		DOM		1.5	2.84	6/04/1999	2375	4260		0.37	271791.88	6145758.26	54	138	30	19.15	34	48	17.555	138.5053195	34.8048764	-34.8048764	PORT ADEL	D52921	A104	CT 5708 58	SI5409	6628	3	31	a	1
177057	6528-2298	6.53E+08	WW	Qhcks	10.2	29/04/1997	10.2	41179		DOM		6.5	3.46	29/04/1997	810	1470		0.37	270721.94	6145408.24	54	138	29	36.736	34	48	28.042	138.4935377	34.8077896	-34.8077896	PORT ADEL	D8248	A19	CT 5620 59	SI5409	6528	2	35	d	4
177059	6528-2300	6.53E+08	WW	Qhcks	7.3	23/12/1996	7.3	39486		DOM		3.7	1.26	23/12/1996	827	1500		0.8	270696.91	6143733.29	54	138	29	34.105	34	49	22.345	138.4928069	34.8228737	-34.8228737	PORT ADEL	D80147	A502	CT 6031 47	SI5409	6528	2	35	e	4
177062	6528-2303	6.53E+08	WW	Qhcks	8.8	1/07/1997	8.8	40009		DOM		4.9	0.11	1/07/1997	838	1520		0.61	270286.88	6143103.3	54	138	29	17.358	34	49	42.444	138.4881551	34.8284567	-34.8284567	PORT ADEL	F4166	A110	CT 5264 93	SI5409	6528	2	35	m	2
177063	6528-2304	6.53E+08	WW	Qhcks	10.7	7/03/1997	10.7	40396		DOM		6.7	2.09	7/03/1997	1110	2010		0.4	270821.93	6145473.34	54	138	29	40.732	34	48	26.012	138.4946476	34.8072256	-34.8072256	PORT ADEL	D112944	A50	CT 6176 21	SI5409	6528	2	35	d	4
177064	6528-2305	6.53E+08	WW	Qhcks	5.5	12/04/1997	5.5	40734		DOM		1.5	3.05	12/04/1997	1351	2440		0.86	271136.88	6143298.29	54	138	29	50.982	34	49	36.81	138.4974949	34.8268916	-34.8268916	PORT ADEL	D2078	A43	CT 5654 69	SI5409	6528	2	35	m	3
177065	6528-2306	6.53E+08	WW	Qhcks	7	19/09/1997	7	42507		DOM		3.5	0.35	19/09/1997	1199	2170		0.68	271196.87	6144903.28	54	138	29	54.916	34	48	44.804	138.4985877	34.8124455	-34.8124455	PORT ADEL	D2533	A444	CT 5742 89	SI5409	6528	2	35	d	4
177067	6528-2308	6.53E+08	WW	Qhcks	7	20/10/1997	7	42757		DOM		3	1.94	20/10/1997	865	1570		0.89	270721.9	6143733.25	54	138	29	35.088	34	49	22.367	138.4930799	34.8228797	-34.8228797	PORT ADEL	D2790	A33	CT 5537 19	SI5409	6528	2	35	e	4
177070	6528-2311	6.53E+08	WW	Qhcks	8.5	25/10/1997	8.5	42804		DOM		4.8	0.06	25/10/1997	905	1640		0.74	270341.93	6143313.25	54	138	29	19.73	34	49	35.68	138.488814	34.8265777	-34.8265777	PORT ADEL	D343	A203	CT 5256 63	SI5409	6528	2	35	m	2
177071	6528-2312	6.53E+08	WW	Qhcks	7.3	12/11/1997	7.3	42894		DOM		3.3	1.63	12/11/1997	966	1750		0.8	270881.9	6143828.27	54	138	29	41.474	34	49	19.415	138.4948539	34.8220596	-34.8220596	PORT ADEL	D3186	A24	CT 5148 32	SI5409	6528	2	35	e	4
177072	6528-2313	6.53E+08	WW	Qhcks	5.8	28/10/1997	5.8	42895		DOM		2.1	2.67	28/10/1997	1917	3450		0.62	270501.92	6142853.28	54	138	29	25.57	34	49	50.728	138.4904361	34.8307577	-34.8307577	PORT ADEL	F4703	A67	CT 5489 90	SI5409	6528	2	35	m	2
177073	6528-2314	6.53E+08	WW	Qhcks	6.3	16/11/1997	6.3	43032		DOM		2.6	2.06	16/11/1997	2239	4020		0.66	270951.87	6146143.25	54	138	29	46.498	34	48	4.39	138.4962495	34.8012195	-34.8012195	PORT ADEL	D65328	A141	CT 5926 37	SI5409	6528	2	35	d	3
177076	6528-2317	6.53E+08	WW	Qhcks	8.9	6/12/1997	8.9	43243		DOM		5.1	3.71	6/12/1997	739	1340		0.65	270671.89	6144488.24	54	138	29	33.863	34	48	57.84	138.4927398	34.8160666	-34.8160666	PORT ADEL	D2331	A138	CT 5199 14	SI5409	6528	2	35	e	3
177077	6528-2318	6.53E+08	WW	Qhcks	6	8/01/1998	6	43245		DOM		2	2.7	8/01/1998	1602	2890		0.61	271286.92	6145998.32	54	138	29	59.53	34	48	9.362	138.4998695	34.8026005	-34.8026005	PORT ADEL	F4983	A50	CT 5478 92	SI5409	6528	2	35	d	3
177078	6528-2319	6.53E+08	WW	Qhcks	6	19/12/1997	6	43457		DOM		2.1	2.71	19/12/1997	1968	3540		0.75	271211.92	6143878.25	54	138	29	54.502	34	49	18.061	138.4984728	34.8216836	-34.8216836	PORT ADEL	D426	A70	CT 5072 39	SI5409	6528	2	35	e	4
177080	6528-2321	6.53E+08	WW	Qhcks	7.5	9/01/1998	7.5	43574		DOM		3.7	1.24	9/01/1998	894	1620		0.8	270696.87	6143698.32	54	138	29	34.069	34	49	23.479	138.4927969	34.8231887	-34.8231887	PORT ADEL	D2790	A48	CT 5784 69	SI5409	6528	2	35	e	4
177083	6528-2324	6.53E+08	WW	Qhcks	8.7	15/01/1998	8.7	43652		DOM		4.8	1.15	15/01/1998	1143	2070		0.7	270871.92	6144458.27	54	138	29	41.7	34	48	58.974	138.4949168	34.8163816	-34.8163816	PORT ADEL	D2290	A249	CT 5741 20	SI5409	6528	2	35	e	3
177084	6528-2325	6.53E+08	WW	Qhcks	9	29/01/1998	9	43697		DOM		5	1.93	29/01/1998	888	1610		0.67	270561.87	6144213.31	54	138	29	29.266	34	49	6.667	138.4914629	34.8185187	-34.8185187	PORT ADEL	D2108	A102	CT 5518 57	SI5409	6528	2	35	e	2
177089	6528-2330	6.53E+08	WW	Qhcks	6.1	28/02/1998	6.1	44430		DOM		2.2	2.6	28/02/1998	1878	3380		0.71	271301.92	6144013.25	54	138	29	58.174	34	49	13.755	138.4994928	34.8204876	-34.8204876	PORT ADEL	D9013	A18	CT 5550 10	SI5409	6528	2	35	e	4
177090	6528-2331	6.53E+08	WW	Qhcks	9	14/03/1998	9	44431		DOM		4.5	0.5	14/03/1998	650	1180		0.65	270391.9	6143708.33	54	138	29	22.085	34	49	22.907	138.489468	34.8230297	-34.8230297	PORT ADEL	D1996	A75	CT 5491 54	SI5409	6528	2	35	e	5
177092	6628-1988	6.63E+08	WW	Qhcks	6.1	1/04/1998	6.1	44708		DOM		2.5	2.12	1/04/1998	1072	1940		0.55	271341.92	6146223.35	54	138	30	1.913	34	48	2.108	138.5005315	34.8005855	-34.8005855	PORT ADEL	F5068	A11	CT 5444 55	SI5409	6628	3	31	a	1
177093	6528-2334	6.53E+08	WW	Qhcks	7.5	9/09/1998	7.5	46415		DOM		4	1.21	9/09/1998	805	1460		0.56	271081.94	6145473.28	54	138	29	50.955	34	48	26.224	138.4974876	34.8072845	-34.8072845	PORT ADEL	D8235	A22	CT 5595 89	SI5409	6528	2	35	d	4
177094	6528-2335	6.53E+08	WW	Qhcks	7.2	29/09/1998	7.2	46462		DOM		3.1	1.87	29/09/1998	1356	2450		0.72	270926.94	6143938.28	54	138	29	43.353	34	49	15.883	138.4953759	34.8210786	-34.8210786	PORT ADEL	D426	A3	CT 5247 39	SI5409	6528	2	35	e	4
177099	6528-2340	6.53E+08	WW	Qhcks	5.4	26/11/1998	5.4	47122		DOM		1.6	2.99	26/11/1998	1127	2040		0.81	270906.92	6143058.33	54	138	29	41.701	34	49	44.406	138.494917	34.8290017	-34.8290017	PORT ADEL	F4325	A62	CT 5420 35	SI5409	6528	2	35	m	3
177100	6528-2341	6.53E+08	WW	Qhcks	8.1	10/12/1998	8.1	47232		DOM		4.6	0.39	10/12/1998	1027	1860		0.67	270536.89	6143748.26	54	138	29	27.827	34	49	21.73	138.4910629	34.8227027	-34.8227027	PORT ADEL	D1996	A46	CT 5222 11	SI5409	6528	2	35	e	5
177102	6528-2343	6.53E+08	WW	Qhcks	7.6	1/12/1998	7.6	47247		DOM		3.4	1.36	1/12/1998	750	1360		0.69	270596.88	6143948.34	54	138	29	30.382	34	49	15.289	138.4917729	34.8209137	-34.8209137	PORT ADEL	D2108	A78	CT 5722 65	SI5409	6528	2	35	e	4
177105	6528-2346	6.53E+08	WW	Qhcks	7.2	11/01/1999	7.2	47460		DOM		3.4	0.9	11/01/1999	944	1710		0.7	271101.93	6144793.25	54	138	29	51.075	34	48	48.296	138.4975207	34.8134156	-34.8134156	PORT ADEL	D2533	A412	CT 5607 8	SI5409	6528	2	35	e	3
177107	6528-2348	6.53E+08	WW	Qhcks	5.7	16/01/1999	5.7	47568		DOM		1.8	2.83	16/01/1999	330	600		0.81	270921.93	6143098.33	54	138	29	42.331	34	49	43.121	138.495092	34.8286447	-34.8286447	PORT ADEL	F4325	A61	CT 5485 46	SI5409	6528	2	35	m	3
177108	6528-2349	6.53E+08	WW	Qhcks	7.7	27/01/1999	7.7	47472		DOM		4.1	0.87	27/01/1999	783	1420		0.55	270456.87	6143073.26	54	138	29	24.015	34	49	43.557	138.490004	34.8287657	-34.8287657	PORT ADEL	F4191	A67	CT 5431 64	SI5409	6528	2	35	m	2
177109	6528-2350	6.53E+08	WW	Qhcks	7.2	6/01/1999	7.2	47482		DOM		2.8	2.11	6/01/1999	944	1710		0.89	270726.91	6143613.27	54	138	29	35.167	34	49	26.262	138.4931019	34.8239617	-34.8239617	PORT ADEL	D2790	A43	CT 5194 77	SI5409	6528	2	35	e	4
177118	6628-1971	6.63E+08	WW	Qhcks	5.5	16/02/1997	5.5	40094		DOM		1.8	2.44	16/02/1997	1895	3410		0.8	271636.9	6144643.31	54	138	30	11.965	34	48	53.591	138.5033237	34.8148865	-34.8148865	PORT ADEL	D8393	A15	CT 5339 37	SI5409	6628	3	31	h	1
177119	6628-1971	6.63E+08	WW	Qhcks	5.8	9/05/1997	5.8	41246		DOM		2.7	1.97	9/05/1997	2234	4010		0.55	271481.85	6145498.24	54	138	30	6.705	34	48	25.738	138.5018626	34.8071495	-34.8071495	PORT ADEL	D7590	A223	CT 5121 52	SI5409	6628	3	31	a	6
177120	6628-1971	6.63E+08	WW	Qpah	5.5	26/06/1997	5.5	41708		DOM		1.8	2.41	26/06/1997	1957	3520		0.5	271806.86	6144648.31	54	138	30	18.654	34	48	53.566	138.5051816	34.8148795	-34.8148795	PORT ADEL	D7964	A51	CT 5740 28	SI5409	6628	3	31	h	1

178276	6528-2378	6.53E+08	WW	Qhcks	9.1	16/10/1997	9.1	42633		DOM		5.2	1.24	16/10/1997	905	1640		0.55	270682.13	6144112.05	54	138	29	33.896	34	49	10.049	138.492749	34.819458	-34.819458	PORT ADEL	D2108	A90	CT 5108 60	SI5409	6528	2	35	e	4
178277	6628-2003	6.63E+08	WW	Qpah	5.9	12/10/1999	5.9	50583		DOM		2.4	1.78	12/10/1999	3932	6980		0.6	271867.18	6144653.97	54	138	30	21.031	34	48	53.431	138.505842	34.814842	-34.814842	PORT ADEL	D7964	A47	CT 5281 46	SI5409	6628	3	31	h	1
178279	6528-2380	6.53E+08	WW	Qhcks	6.4	8/10/1999	6.4	50580		DOM		2.5	2.31	8/10/1999	1373	2480		0.89	270876.15	6143425.04	54	138	29	40.852	34	49	32.488	138.494681	34.825691	-34.825691	PORT ADEL	D2328	A13	CT 5777 25	SI5409	6528	2	35	m	3
178280	6528-2381	6.53E+08	WW	Qhcks	12.2	22/09/1999	12.2	50477		DOM		8.5	1.88	22/09/1999	1088	1970		0.62	270551.2	6144428.01	54	138	29	29.058	34	48	59.695	138.491405	34.816582	-34.816582	PORT ADEL	D1092	A64	CT 5430 83	SI5409	6528	2	35	e	2
178287	6528-2388	6.53E+08	WW	Qpah	5.8	14/10/1998	5.8	46812		DOM		1.6	2.83	14/10/1998	1328	2400		0.71	270911.19	6142411.05	54	138	29	41.233	34	50	5.402	138.494787	34.834834	-34.834834	PORT ADEL	C26944			SI5409	6528	2	35	m	4
178288	6528-2389	6.53E+08	WW	Qpah	4.9	29/01/1999	4.9	47765		DOM		1.2	3.14	29/01/1999	1038	1880		0.64	271030.16	6142430.01	54	138	29	45.931	34	50	4.884	138.496092	34.83469	-34.83469	PORT ADEL	D1318	A271	CT 5509 81	SI5409	6528	2	35	m	4
178289	6528-2390	6.53E+08	WW	Qpah	5.3	3/02/1999	5.3	47791		DOM		1.5	2.63	3/02/1999	1468	2650		0.58	271202.11	6142547.96	54	138	29	52.811	34	50	1.198	138.498003	34.833666	-34.833666	PORT ADEL	F20039	A36	CT 5402 16	SI5409	6528	2	35	m	4
178294	6628-2003	6.63E+08	WW	Qhcks	5	13/10/1999	5	50584		DOM		1.7	2.38	13/10/1999	3862	6860		0.6	271332.17	6145293.99	54	138	30	0.619	34	48	32.242	138.500172	34.808956	-34.808956	PORT ADEL	D2789	A68	CT 5446 70	SI5409	6628	3	31	a	6
178295	6528-2395	6.53E+08	WW	Qhcks	6.3	10/11/1999	6.3	50900		DOM		3	1.84	10/11/1999	1513	2730		0.62	271269.19	6145874.06	54	138	29	58.711	34	48	13.378	138.499642	34.803716	-34.803716	PORT ADEL	D5464	A8	CT 5115 24	SI5409	6528	2	35	d	3
178296	6528-2396	6.53E+08	WW	Qhcks	8.3	22/10/1998	8.3	46813		DOM		4	2.29	22/10/1998	1636	2950		0.8	271050.15	6145556.02	54	138	29	49.787	34	48	23.515	138.497163	34.806532	-34.806532	PORT ADEL	D2732	A56	CT 5178 79	SI5409	6528	2	35	d	4
178297	6628-2003	6.63E+08	WW	Qhcks	6.2	27/10/1998	6.2	46890		DOM		2.2	2.5	27/10/1998	1384	2500		0.7	271348.15	6145865.03	54	138	30	1.807	34	48	13.734	138.500502	34.803815	-34.803815	PORT ADEL	D3411	A7	CT 5363 20	SI5409	6628	3	31	a	1
178298	6528-2397	6.53E+08	WW	Qhcks	7.9	9/02/1999	7.9	47778		DOM		3.6	1.97	9/02/1999	1289	2330		0.81	271057.14	6145675.96	54	138	29	50.179	34	48	19.631	138.497272	34.805453	-34.805453	PORT ADEL	D43837	A51	CT 5310 30	SI5409	6528	2	35	d	3
178299	6528-2398	6.53E+08	WW	Qhcks	7.3	9/01/1999	7.3	47616		DOM		3.7	1.31	9/01/1999	1434	2590		0.81	271168.15	6145843.01	54	138	29	54.708	34	48	14.303	138.49853	34.803973	-34.803973	PORT ADEL	D2775	A177	CT 5585 29	SI5409	6528	2	35	d	3
178300	6528-2399	6.53E+08	WW	Qhcks	5.9	27/10/1999	5.9	50820		DOM		2.4	2.25	27/10/1999	1440	2600		0.68	271079.14	6143572.97	54	138	29	48.98	34	49	27.854	138.496939	34.824404	-34.824404	PORT ADEL	D3186	A76	CT 5416 61	SI5409	6528	2	35	e	4
178301	6528-2400	6.53E+08	WW	Qhcks	9.8	4/02/1998	9.8	43960		DOM		5.9	-0.89	4/02/1998	821	1490		0.46	270034.16	6142960.96	54	138	29	7.278	34	49	46.855	138.485355	34.829682	-34.829682	PORT ADEL	D1545	A19	CT 5579 33	SI5409	6528	2	35	m	2
178303	6528-2402	6.53E+08	WW	Qhcks	8.9	20/02/1998	8.9	44188		DOM		6.1	-1.09	20/02/1998	827	1500		0.54	270127.16	6142850.96	54	138	29	10.828	34	49	50.498	138.486341	34.830694	-34.830694	PORT ADEL	D1545	A33	CT 5298 1	SI5409	6528	2	35	m	2
178304	6528-2403	6.53E+08	WW	Qhcks	10.8	16/03/1999	10.8	48216		DOM		6.7	-1.69	16/03/1999	805	1460		0.55	270083.13	6142967.96	54	138	29	9.211	34	49	46.668	138.485892	34.82963	-34.82963	PORT ADEL	D1545	A21	CT 5290 47	SI5409	6528	2	35	m	2
178305	6528-2404	6.53E+08	WW	Qhcks	5.9	3/11/1999	5.9	50908		DOM		2.4	1.99	3/11/1999	490	890		0.61	271071.12	6144891.99	54	138	29	49.96	34	48	45.068	138.497211	34.812519	-34.812519	PORT ADEL	D2533	A452	CT 5602 97	SI5409	6528	2	35	e	3
178306	6528-2405	6.53E+08	WW	Qhcks	11.5	4/11/1999	11.5	50909		DOM		7.4	2.18	4/11/1999	611	1110		0.72	270612.13	6144521	54	138	29	31.546	34	48	56.729	138.492096	34.815758	-34.815758	PORT ADEL	D2331	A142	CT 5791 27	SI5409	6528	2	35	e	3
178307	6528-2406	6.53E+08	WW	Qhcks	9	17/02/1998	9	44148		DOM		5.1	3.27	17/02/1998	821	1490		0.68	270724.16	6144334.99	54	138	29	35.768	34	49	2.852	138.493269	34.817459	-34.817459	PORT ADEL	D1092	A33	CT 5160 40	SI5409	6528	2	35	e	3
178308	6528-2407	6.53E+08	WW	Qhcks	8.9	25/02/1998	8.9	44233		DOM		5.1	1.37	25/02/1998	876	1590		0.71	270711.12	6144216.01	54	138	29	35.138	34	49	6.701	138.493094	34.818528	-34.818528	PORT ADEL	F4731	A181	CT 5319 74	SI5409	6528	2	35	e	3
178309	6528-2408	6.53E+08	WW	Qhcks	8.6	18/12/1998	8.6	47457		DOM		4.6	4.2	18/12/1998	783	1420		0.65	270678.12	6144440.96	54	138	29	34.062	34	48	59.378	138.492795	34.816494	-34.816494	PORT ADEL	D38452	A1	CT 5170 41	SI5409	6528	2	35	e	3
178311	6528-2409	6.53E+08	WW	Qhcks	8.7	12/02/1999	8.7	47979		DOM		4.8	3.57	12/02/1999	794	1440		0.76	270709.18	6144428.97	54	138	29	35.272	34	48	59.792	138.493131	34.816609	-34.816609	PORT ADEL	D2331	A134	CT 5716 2	SI5409	6528	2	35	e	3
178312	6528-2410	6.53E+08	WW	Qhcks	7.3	1/09/1999	7.3	50362		DOM		3.6	1.49	1/09/1999	1564	2820		0.89	270946.18	6144362.96	54	138	29	44.527	34	49	2.125	138.495702	34.817257	-34.817257	PORT ADEL	D2290	A273	CT 5691 68	SI5409	6528	2	35	e	3
178408	6628-2004	6.63E+08	WW	Qpah	5	5/11/1998	5	46964		DOM		2.1	2.08	5/11/1998	910	1650		0.57	271843.11	6144672.02	54	138	30	20.102	34	48	52.826	138.505584	34.814674	-34.814674	PORT ADEL	D7964	A39	CT 5545 25	SI5409	6628	3	31	h	1
178409	6628-2004	6.63E+08	WW	Qpah	5.7	24/03/1998	5.7	44657		DOM		2.6	1.64	24/03/1998	1222	2210		0.55	271668.17	6145447.99	54	138	30	13.982	34	48	27.518	138.503884	34.807644	-34.807644	PORT ADEL	D31452	A1	CT 5327 91	SI5409	6628	3	31	a	6
178568	6528-2419	6.53E+08	WW	Qhcks	6	9/11/1998	6	47105	6	MON									270606.18	6146015.01	54	138	29	32.78	34	48	8.269	138.492439	34.802297	-34.802297	PORT ADEL	D59587	A100	CT 5875 72	SI5409	6528	2	35	d	3
179066	6528-2422	6.53E+08	WW	Qhcks	7.3	12/01/1997	7.3	39673		DOM		3.3	1.58	12/01/1997	1032	1870		0.8	271145.2	6144006.96	54	138	29	52.004	34	49	13.832	138.497779	34.820509	-34.820509	PORT ADEL	D426	A98	CT 5371 53	SI5409	6528	2	35	e	4
180518	6528-2423	6.53E+08	WW	Qhcks	5.5	11/05/2000	5.5	52473	5.5	INV		3	1.91	11/05/2000				0.01	271012.12	6145850.99	54	138	29	48.581	34	48	13.918	138.496828	34.803866	-34.803866	PORT ADEL	F5016	A1	CT 5615 32	SI5409	6528	2	35	d	3
182998	6528-2450	6.53E+08	WW	Qpah	31.5	7/02/1994	31.5	30765	11	INV		9.2	-1.45	7/02/1994	1200	1820	7.54		270498.14	6144711.96	54	138	29	27.251	34	48	50.443	138.490903	34.814012	-34.814012	PORT ADELAIDE				SI5409	6528	2	35	e	2
183000	6628-2038	6.63E+08	WW	Qhcks	10	25/01/1994	10	30766	6.5	INV		1.5	2.82	25/01/1994	2816	4850	7.5		271636.12	6144572.97	54	138	30	11.866	34	48	55.872	138.503296	34.81552	-34.81552	PORT ADEL	D69689	A9	CT 5954 56	SI5409	6628	3	31	h	1
183002	6628-2038	6.63E+08	WW	Qpah	11.5	21/01/1994	11.5	30767	7.6	INV		2.85	0.85	21/01/1994	19250	35700	7.2		272410.15	6144564.01	54	138	30	42.296	34	48	56.786	138.511749	34.815774	-34.815774	PORT ADEL	D75708	A29	CT 6007 77	SI5409	6628	3	31	h	2
184742	6628-2049	6.63E+08	WW	Qpah	5	3/03/2001	5	54876		DOM		3	1.32	3/03/2001	1373	2480			271809.17	6144442.97	54	138	30	18.544	34	49	0.228	138.505151	34.81673	-34.81673	PORT ADEL	D7964	A94	CT 5545 91	SI5409	6628	3	31	h	1
184745	6528-2455	6.53E+08	WW	Qhcks	8	16/02/2001	8	54695	8	DOM		6	-0.99	16/02/2001	810	1470		0.5	270115.19	6142864.98	54	138	29	10.37	34	49	50.034	138.486214	34.830565	-34.830565	PORT ADEL	D1545	A34	CT 5657 85	SI5409	6528	2	35	m	2
184761	6628-2051	6.63E+08	WW	Qpah	5	20/02/2001	5	54767	5	DOM		4	0.49	20/02/2001	1027	1860			271676.12	6146170.01	54	138	30	15.001	34	48	4.108	138.504167	34.801141	-34.801141	PORT ADEL	D4488	A10	CT 5700 22	SI5409	6628	3	31	a	1
184832	6628-2053	6.63E+08	WW	Qpah	4.5	20/05/1998	4.5	45463	1.5	MON		2	1.89	20/05/1998					272054.16	6143671.96	54	138	30	27.425	34	49	25.432	138.507618	34.823731	-34.823731	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	h	6
184833	6628-2053	6.63E+08	WW	Qpah	4.5	20/05/1998	4.5	45764	1.5	MON		2.4	1.51	20/05/1998					272003.14	6143563.02	54	138	30	25.312	34	49	28.924	138.507031	34.824701	-34.824701	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	h	6
184834	6628-2053	6.63E+08	WW	Qpah	4.5	20/05/1998	4.5	45765	1.5	MON		2.2	1.74	20/05/1998					271964.12	6143530.97	54	138	30	23.746	34	49	29.932	138.506596	34.824981	-34.824981	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	h	6
184835	6628-2053	6.63E+08	WW	Qpah	4.5	21/05/1998	4.5	45766	1.5	MON		2.3	1.73	21/05/1998					271890.16	6143546.01	54	138	30	20.851	34	49	29.384	138.505792	34.824829	-34.824829	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	h	6
184836	6628-2053	6.63E+08	WW	Qpah	4	20/05/1998	4	45767	1	MON		2	1.95	20/05/1998					271981.17	6143610.98	54	138	30	24.494	34	49	27.35	138.506804	34.824264	-34.824264	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	h	6
185654	6628-2057	6.63E+08	WW	Qpah	5	29/03/1999	5	48117	2			2.95	0.04	29/03/1999					272120.19	6145104.03	54	138	30	31.421	34	48	39.038	138.508728	34.810844	-34.810844	PORT ADEL	D75890	A52	CT 6017 98	SI5409	6628	3	31	a	5
185655	6628-2057	6.63E+08	WW	Qhcks	5	29/03/1999	5	48055	2	MON		2.49	-0.06	29/03/1999					272050.12	6145496	54	138	30	29.048	34	48	26.269	138.508069	34.807297	-34.807297	PORT ADEL	D75890	A52	CT 6017 98	SI5409	6628	3	31	a	6
185656	6628-2057	6.63E+08	WW	Qpah	5	29/03/1999	5	48118	2	MON		2.06	-0.09	29/03/1999					272012.14	6145137.98	54	138	30	27.205	34	48	37.85	138.507557	34.810514	-34.810514	PORT ADEL	F218226	A56	CT 5832 13	SI5409	6628	3	31	a	6
185657	6628-2057	6.63E+08	WW	Qpah	4	29/03/1999	4	48119	1	MON		2.91	0.04	29/03/1999					272071.13	6144444.04	54	138	30	28.847	34	49	0.404	138.508013	34.816779	-34.816779	PORT ADELAIDE				SI5409	6628	3	31	h	1
187194	6528-2458	6.53E+08	MW		12	17/05/2000	12												270271.2	6144924.06	54	138	29	18.535	34	48	43.38	138.488482	34.81205	-34.81205					SI5409	6528	2	35	d	5
187195	6528-2459	6.53E+08	MW		18	17/05/2000	18												270367.25	6144919.8	54	138	29	22.308	34	48	43.596	138.48953	34.81211	-34.81211	PORT ADELAIDE				SI5409	6528	2	35	d	5
187198	6528-2462	6.53E+08	MW		20	18/05/2000	20												270244.11	6145779.19	54	138	29	18.312	34	48	15.624	138.48842	34.80434	-34.80434	PORT ADELAIDE				SI5409	6528	2	35	d	2
194805	6528-2478	6.53E+08	WW	Qhcks			9.5		9.5	DOM								0.5	270273	6143114.96	54	138	29	16.83	34	49	42.055	138.4880084	34.8283486	-34.8283486	PORT ADEL	F4166	A109	CT 5422 52	SI5409	6528	2	35	m	2
195190	6528-2485	6.53E+08	WW	Qpah	6	20/09/1968	6		6	DOM	OPR								270950.23	6142378.2	54	138	29	42.742	34	50	6.5	138.4952062	34.8351388	-34.8351388	PORT ADEL	D1116	A227	CT 5281 15	SI5409	6528	2	35	m	4
195314	6528-2486	6.53E+08	WW	Qpah	3	21/03/2003	3		2	DOM									271043.24	6144783.33	54	138	29	48.763	34	48	48.57	138.4968785	34.8134916	-34.8134916	PORT ADEL	D2533	A416	CT 5792 73	SI5409	6528	2	35	e	3
195350	6528-2491	6.53E+08	WW	Qhcks	6	9/12/2002	6	60356		DOM		3	2.01	9/12/2002	1222	2210		0.5	270238.86	6143360.69	54	138	29	15.73	34	49	34.057	138.4877027	34.8261271	-34.8261271	PORT ADEL	D343	A209	CT 5255 26	SI5409	6528	2	35	m	2
195351	6528-2492	6.53E+08	WW	Qhcks	11.5	9/12/2002	11.5	60407	10	DOM		8	2.35	9/12/2002	605	1100		1	270605.63	6144656.26	54	138	29	31.429	34	48	52.337	138.4920636	34.814538	-34.814538	PORT ADEL	F4903	A63	CT 5505 74	SI5409	6528	2	35	e	3
195367	6628-2106	6.63E+08	WW	Qpah	4	27/09/2002	4	59720	1	INV		2.3	1.46	27/09/2002					272354.49	6144937.84	54	138	30	40.478	34	48	44.617	138.5112439	34.8123936	-34.8123936	PORT ADEL	D75890	A52	CT 6017 98	SI5409	6628	3	31	a	5
195368	6628-2106	6.63E+08	WW	Qpah	5	27/09/2002	5	59721	2	INV		2	1.88	27/09/2002					272230.04	6144719.29	54	138	30	35.371	34	48	51.605	138.5098252	34.8143347	-34.8143347	PORT ADEL	D75890	A51	CT 6007 78	SI5409	6628	3	31	h	2
196726	6628-2123	6.63E+08	WW	Qpah	4.86	21/01/2003	4.86	60643	4.86	MON		2	1.14	21/01/2003					272391.64	6142573.04	54	138	30	39.631	34	50	1.345	138.5110085	34.8337069	-34.8337069	PORT ADEL	D73873	A3	CT 6119 10	SI5409	6628	3	31	j	5
196727	6628-2123	6.63E+08	WW	Qpah	4	21/01/2003	4	60644	4	MON		2	1.24	21/01/2003					272365.01	6142715.54	54	138	30	38.722	34	49	56.701	138.5107562	34.8324171	-34.8324171	PORT ADEL	D73873	A3	CT 6119 10	SI5409	6628	3	31	j	5
196871	6628-2126	6.63E+08	WW	Qpah	4.5	16/04/2003	4.5	61924	3	MON		2.6	1.36	16/04/2003					272051.87	6144955.82	54	138	30	28.595	34	48	43.79	138.5079431	34.8121639	-34.8121639	PORT ADEL	D71673	A14	CT 5994 99	SI5409	6628	3	31	a	6
196872	6628-2126	6.63E+08	WW	Qpah	4	16/04/2003	4	61923	2.5	MON		2.1	1.91	16/04/2003					272051.87	6144795.18	54	138	30	28.438	34	48	49	138.5078995	34.8136112	-34.8136112	PORT ADEL	D71673	A14	CT 5994 99	SI5409	6628	3	31	h	1
196873	6628-2126	6.63E+08	WW	Qpah	4	16/04/2003	4	61922	2.5	MON									272054.69	6144848.73	54	138	30	28.602	34	48	47.266	138.5079449	34.8131293	-34.8131293	PORT ADEL	D71673	A14	CT 5994 99	SI5409	6628	3	31	h	1
196874	6628-2126	6.63E+08	WW	Qpah	4	16/04/2003	4	61921	2.5	MON		1.7	2.29	16/04/2003					272034.97	6144886.77	54	138	30	27.863	34	48	46.016	138.5077398	34.8127823	-34.8127823	PORT ADEL	D71673	A14	CT 5994 99	SI5409	6628	3	31	h	1
196880	6628-2126	6.63E+08	WW	Qpah	4.5	16/04/2003	4.5	61920	3.1	MON		2.1	1.94	16/04/2003					271977.94	6144810.48	54	138	30	25.546	34	48	48.445	138.5070961	34.8134568	-34.8134568	PORT ADEL	D90694	A507	CT 6107 39	SI5409	6628	3	31	h	1
196881	6628-2127	6.63E+08	WW	Qpah	4.5	17/04/2003	4.5	61925	3	MON		4.25	-0.33	17/04/2003					272139.71	6144914.96	54	138	30	32.01	34	48	45.186	138.5088916	34.8125517	-34.8125517	PORT ADEL	D75890	A52	CT 6017 98	SI5409	6628	3	31	h	2
197642	6628-2136	6.63E+08	WW	Qpah	4	21/07/2003	4	62826	1	MON									272689.01	6142754.66	54	138	30	51.505	34	49	55.694	138.5143068	34.8321371	-34.8321371	PORT ADEL	D84069	A51	CT 6067 87	SI5409	6628	3	31	j	5
197644	6628-2136	6.63E+08	WW	Qpah	4	21/07/2003	4	62828	1	MON									272752.6	6142808.46	54	138	30	54.058	34	49	54	138.5150162	34.8316665	-34.8316665	PORT ADEL	D84069	A51	CT 6067 87	SI5409	6628	3	31	j	5
197648	6628-2136	6.63E+08	WW	Qhcks	5	4/03/2003	5	61203	1.5	INV		2.1	2.39	4/03/2003				0.01	271564.21	6144417.57	54	138	30	8.891	34	49	0.854	138.5024699	34.8169039	-34.8169039	PORT ADELAIDE				SI5409	6628	3	31	h	1
197649	6628-2136	6.63E+08	WW	Qhcks	5	4/03/2003	5	61204	1.5	INV		2.1	2.35	4/03/2003				0.01	271546.62	6144457.1	54	138	30	8.238	34	48	59.558	138.5022885	34.8165438	-34.8165438	PORT ADEL	D82872	A79	CT 6051 82	SI5409	6628	3	31	h	1
197650	6628-2136	6.63E+08	WW	Qhcks	5	4/03/2003	5	61205	1.5	INV		2.1	2.28	4/03/2003				0.01	271550.98	6144524.62	54	138	30	8.476	34	48	57.371	138.5023545	34.8159364	-34.8159364	PORT ADEL	D69689	A45	CT 5954 59	SI5409	6628	3	31	h	1
197836	6628-2140	6.63E+08	WW	Qpah			5					4	-0.03	1/01/1995					271478.94	6142503.62	54	138	30	3.662	34	50	2.86	138.5010173	34.8341278	-34.8341278	PORT ADEL	D597	A36	CT 5324 68	SI5409	6628	3	31	j	6
198065	6528-2505	6.53E+08	WW	Qhcks	7.5	23/04/2003	7.5	61792	6.5	DOM		3.5	3.39	23/04/2003	1154	2090		0.5	270666.28	6144181.33	54	138	29	33.347	34	49	7.789	138.4925964	34.8188303	-34.8188303	PORT ADEL	D2108	A95	CT 5284 45	SI5409	6528	2	35	e	4
198086	6628-2148	6.63E+08	WW	Qpah	4.5	28/06/2001	4.5	56090	1.5	INV		1.5	2.49	28/06/2001					271925.22	6145004.01	54	138	30	23.662	34	48	42.125	138.5065728	34.8117015	-34.8117015	PORT ADEL	C28595			SI5409	6628	3	31	a	6
198087	6628-2148	6.63E+08	WW	Qpah	4.5	28/06/2001	4.5	56089	1.5	INV		1.9	2.14	28/06/2001					272039.82	6144727.19	54	138	30	27.898	34	48	51.196	138.5077495	34.814221	-34.814221	PORT ADELAIDE				SI5409	6628	3	31	h	1
198088	6628-2148	6.63E+08	WW	Qpah	4.5	28/06/2001	4.5	56088	1.5	INV		1.8	2.27	28/06/2001					271980.29	6144730.17	54	138	30	25.56	34	48	51.051	138.5071	34.8141809	-34.8141809	PORT ADEL	C40063			SI5409	6628	3	31	h	1
198089	6628-2148	6.63E+08	WW	Qpah	4.5	28/06/2001	4.5	56087	1.5	INV		1.7	2.42	28/06/2001					271893.97	6144730.17	54	138	30	22.165	34	48	50.982	138.5061571	34.8141615	-34.8141615	PORT ADEL	D90694	A98	CT 6107 36	SI5409	6628	3	31	h	1
198202	6628-2152	6.63E+08	WW	Qpah	4	12/08/2003	4	62955	1	INV		1.68	2.75	12/08/2003				0.01	271824.96	6146223.05	54	138	30	20.911	34	48	2.507	138.5058087	34.8006965	-34.8006965	PORT ADEL	D111812	A1	CT 6170 77	SI5409	6628	3	31	a	1
198318	6528-2513	6.53E+08	WW	Qpah	5.5	7/11/2003	5.5	63724	5.5	DOM		2	2.45	7/11/2003	1322	2390		0.67	270897.11	6142418.29	54	138	29	40.692	34	50	5.156	138.4946368	34.8347656	-34.8347656	PORT ADEL	D1116	A212	CT 5782 91	SI5409	6528	2	35	m	4
200587	6628-2179	6.63E+08	WW	Qpah			5	64005			ABD								272641.78	6142649.59	54	138	30	49.544	34	49	59.064	138.5137623	34.8330732	-34.8330732	PORT ADEL	D84069	A52	CT 6067 87	SI5409	6628	3	31	j	5
200588	6628-2179	6.63E+08	WW	Qpah			5	64002			ABD								272642.8	6142656.73	54	138	30	49.592	34	49	58.832	138.5137754	34.833009	-34.833009	PORT ADEL	D84069	A52	CT 6067 87	SI5409	6628	3	31	j	5
200589	6628-2179	6.63E+08	WW	Qpah			5	64006			ABD								272641.78	6142668.06	54	138	30	49.562	34	49	58.464	138.5137673	34.8329067	-34.8329067	PORT ADEL	D84069	A52	CT 6067 87	SI5409	6628	3	31	j	5
200590	6628-2179	6.63E+08	WW	Qpah			5	64003			ABD								272663.18	6142655.07	54	138	30	50.392	34	49	58.902	138.5139976	34.8330285	-34.8330285	PORT ADEL	D84069	A52	CT 6067 87	SI5409	6628	3	31	j	5
200591	6628-2179	6.63E+08	WW	Qpah			5	64007			ABD								272659.36	6142674.18	54	138	30	50.26	34	49	58.28	138.5139611	34.8328555	-34.8328555	PORT ADEL	D84069	A52	CT 6067 87	SI5409	6628	3	31	j	5
201587	6628-2187	6.63E+08	WW	Qhcks	5.5	21/09/2004	5.5	100058	2.5			3	1.37	21/09/2004					271521.53	6144529.75	54	138	30	7.323	34	48	57.181	138.5020341	34.8158837	-34.8158837	PORT ADELAIDE				SI5409	6628	3	31	h	1
201588	6628-2188	6.63E+08	WW	Qhcks	5	21/09/2004	5	100057	2			2.8	1.57	21/09/2004					271539.18	6144528.7	54	138	30	8.016	34	48	57.23	138.5022267	34.8158971	-34.8158971	PORT ADELAIDE				SI5409	6628	3	31	h	1
201589	6628-2188	6.63E+08	WW	Qhcks			5	100056	2			3	1.39	21/09/2004					271539.18	6144509.43	54	138	30	7.997	34	48	57.854	138.5022214	34.8160706	-34.8160706	PORT ADEL	D69689	A44	CT 5954 59	SI5409	6628	3	31	h	1
201590	6628-2188	6.63E+08	WW	Qhcks			5.5	100055	2.5	MON		3.4	0.99	21/09/2004					271520.83	6144508.52	54	138	30	7.275	34	48	57.869	138.5020207	34.8160747	-34.8160747	PORT ADELAIDE				SI5409	6628	3	31	h	1
202825	6628-2195	6.63E+08	WW	Qpah	4.5	16/11/2004	4.5	102526	3	MON		1.65	2.33	16/11/2004					272010.53	6144937.66	54	138	30	26.952	34	48	44.346	138.5074866	34.8123183	-34.8123183	PORT ADELAIDE				SI5409	6628	3	31	a	6
202826	6628-2195	6.63E+08	WW	Qpah	4.5	16/11/2004	4.5	102525	3.5			1.31	2.7	16/11/2004					272015.07	6144854.15	54	138	30	27.049	34	48	47.058	138.5075136	34.8130717	-34.8130717	PORT ADELAIDE				SI5409	6628	3	31	h	1
202827	6628-2195	6.63E+08	WW	Qpah	4.5	16/11/2004	4.5	102524	3.5	MON		1.95	2.07	16/11/2004					272022.42	6144790.53	54	138	30	27.276	34	48	49.127	138.5075766	34.8136464	-34.8136464	PORT ADELAIDE				SI5409	6628	3	31	h	1
202828	6628-2195	6.63E+08	WW	Qpah	4.5	19/11/2004	4.5	102523	3			1.73	2.29	19/11/2004					272064.71	6144709.47	54	138	30	28.86	34	48	51.791	138.5080165	34.8143863	-34.8143863	PORT ADEL	D75708	A42	CT 6007 78	SI5409	6628	3	31	h	1
203648	6628-2204	6.63E+08	WW	Qpah	4.5	3/02/2005	4.5	104741											272391.37	6142535.04	54	138	30	39.583	34	50	2.577	138.5109952	34.8340491	-34.8340491	PORT ADEL	D73873	A3	CT 6119 10	SI5409	6628	3	31	j	5
203649	6628-2204	6.63E+08	WW	Qpah	4.52	3/02/2005	4.52	104740											272474.43	6142775.76	54	138	30	43.085	34	49	54.837	138.5119681	34.831899	-34.831899	PORT ADEL	D73873	A4	CT 6156 19	SI5409	6628	3	31	j	5
203650	6628-2204	6.63E+08	WW	Qpah	4	3/02/2005	4	104739											272486.3	6142714.13	54	138	30	43.492	34	49	56.845	138.512081	34.8324569	-34.8324569	PORT ADEL	D73873	A4	CT 6156 19	SI5409	6628	3	31	j	5
203651	6628-2204	6.63E+08	WW	Qpah	4.77	3/02/2005	4.77	104738											272475.93	6142661.76	54	138	30	43.033	34	49	58.535	138.5119535	34.8329263	-34.8329263	PORT ADEL	D73873	A4	CT 6156 19	SI5409	6628	3	31	j	5
203652	6628-2204	6.63E+08	WW	Qpah	3.58	3/02/2005	3.58	104737											272534.39	6142612.43	54	138	30	45.284	34	50	0.182	138.5125789	34.8333838	-34.8333838	PORT ADEL	D73873	A4	CT 6156 19	SI5409	6628	3	31	j	5
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204780	6528-2539	6.53E+08	WW	Qhcks	6	25/11/2004	6	101633	6			3	1.63	25/11/2004	990	1792		0.5	271285.66	6146205.14	54	138	29	59.689	34	48	2.653	138.4999137	34.8007369	-34.8007369	PORT ADEL	F5068	A20	CT 5524 74	SI5409	6528	2	35	d	3
205840	6628-2216	6.63E+08	WW	Qpah	5.5	19/11/2004	5.5	101316	4.5			3.2	1.32	19/11/2004	2278	4090		3.2	271592.19	6146157.52	54	138	30	11.695	34	48	4.445	138.5032486	34.8012347	-34.8012347	PORT ADEL	D4488	A6	CT 5700 23	SI5409	6628	3	31	a	1
212240	6628-2242	6.63E+08	WW	Tomw(T2)	227	11/11/2005	227	106780	18		BKF				3827	6800			271807	6146018	54	138	30	20.005	34	48	9.143	138.5055569	34.8025397	-34.8025397	PORT ADEL	D111812	A2	CT 6184 75	SI5409	6628	3	31	a	1
218359	6628-2255	6.63E+08	WW	Tomw(T2)	194	16/02/2006	194	106780	156			28.16	-23.85	16/06/2011				25	271887	6145851	54	138	30	22.987	34	48	14.624	138.5063853	34.8040623	-34.8040623	PORT ADEL	D111812	A3	CT 6184 76	SI5409	6628	3	31	a	1
218485	6528-2565	6.53E+08	WW	Qhcks	6	10/03/2006	6	114010				2.8	1.26	10/03/2006	2409	4320		0.5	271045.42	6145198.37	54	138	29	49.256	34	48	35.111	138.4970155	34.809753	-34.809753	PORT ADEL	D16463	A43	CT 5677 65	SI5409	6528	2	35	d	4
219174	6628-2263	6.63E+08	WW	Qhcks	4.5	10/04/2006	4.5	116767	1.5	INV		3.1	1.36	10/04/2006					271592.2	6144433.42	54	138	30	10.008	34	49	0.362	138.5027799	34.8167674	-34.8167674	PORT ADEL	D69689	A75	CT 5954 62	SI5409	6628	3	31	h	1
219175	6628-2263	6.63E+08	WW	Qhcks	4.5	10/04/2006	4.5	116768	1.5	INV		2.91	1.54	10/04/2006					271545.25	6144460.82	54	138	30	8.188	34	48	59.436	138.5022745	34.81651	-34.81651	PORT ADEL	D82872	A79	CT 6051 82	SI5409	6628	3	31	h	1
219176	6628-2263	6.63E+08	WW	Qhcks	4	10/04/2006	4	116766	1	INV		2.25	2.22	10/04/2006					271501.03	6144448	54	138	30	6.437	34	48	59.816	138.501788	34.8166156	-34.8166156	PORT ADEL	S12521			SI5409	6628	3	31	h	1
229675	6628-2287	6.63E+08	WW	Qpah	4.5	29/11/2005	4.5	112144	0.5	MON		1.2	2.87	29/11/2005					271643.16	6143088.27	54	138	30	10.694	34	49	44.031	138.5029707	34.8288974	-34.8288974	PORT ADEL	D70924	A2	CT 6040 73	SI5409	6628	3	31	j	1
229676	6628-2288	6.63E+08	WW	Qpah	5	29/11/2005	5	112145	0.5	MON		1.2	2.84	29/11/2005					271680.84	6143097.5	54	138	30	12.186	34	49	43.761	138.5033849	34.8288226	-34.8288226	PORT ADEL	D70924	A2	CT 6040 73	SI5409	6628	3	31	j	1
229677	6628-2288	6.63E+08	WW	Qpah	5	30/11/2005	5	112146	0.5	MON		1.2	2.79	30/11/2005					271744.67	6143140.56	54	138	30	14.738	34	49	42.416	138.504094	34.828449	-34.828449	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j	1
229678	6628-2288	6.63E+08	WW	Qpah			5	112147	0.5	MON		1.2	2.82	30/11/2005					271706.67	6143140.71	54	138	30	13.244	34	49	42.381	138.5036788	34.8284391	-34.8284391	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j	1
229679	6628-2288	6.63E+08	WW	Qpah	5	30/11/2005	5	112148	0.4	MON		1.2	2.8	30/11/2005					271728.2	6143109.8	54	138	30	14.06	34	49	43.401	138.5039056	34.8287225	-34.8287225	PORT ADEL	D70924	A2	CT 6040 73	SI5409	6628	3	31	j	1
229680	6628-2288	6.63E+08	WW	Qpah	5	1/12/2005	5	112149	0.5	MON		1.4	2.74	1/12/2005					271576.3	6143101.46	54	138	30	8.078	34	49	43.549	138.5022438	34.8287636	-34.8287636	PORT ADELAIDE				SI5409	6628	3	31	j	1
229681	6628-2288	6.63E+08	WW	Qpah	5	1/12/2005	5	112150	0.5	MON		1.2	2.9	1/12/2005					271617.47	6143073.04	54	138	30	9.669	34	49	44.504	138.5026859	34.8290288	-34.8290288	PORT ADEL	D70924	A2	CT 6040 73	SI5409	6628	3	31	j	1
229682	6628-2288	6.63E+08	WW	Qpah	4.5	2/12/2005	4.5	112151	0.5	MON		1.4	2.78	2/12/2005					271530.24	6143096.34	54	138	30	6.261	34	49	43.677	138.5017392	34.8287993	-34.8287993	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j	1
229683	6628-2288	6.63E+08	WW	Qpah	5	2/12/2005	5	112152	0.5	MON		1.2	2.89	2/12/2005					271630.08	6143115.95	54	138	30	10.207	34	49	43.122	138.5028353	34.8286451	-34.8286451	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j	1
229684	6628-2288	6.63E+08	WW	Qpah	5	5/12/2005	5	112153	0.5	MON		1.2	2.86	5/12/2005					271667.45	6143131.48	54	138	30	11.692	34	49	42.649	138.5032478	34.8285136	-34.8285136	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j	1
234237	6628-2308	6.63E+08	WW	Qpah	4.5	25/09/2007	4.5	135955	1.5	INV		2.3	1.01	25/09/2007					272303.96	6142721.33	54	138	30	36.327	34	49	56.465	138.5100907	34.8323513	-34.8323513	PORT ADEL	D73873	A3	CT 6119 10	SI5409	6628	3	31	j	5

Groundwater Data Report 2km

234238	6628-2308	6.63E+08	WW	Qpah	5.5	25/09/2007	5.5	135956	2.5			4.8	-1.65	25/09/2007					272457.2	6142757.92	54	138	30	42.39	34	49	55.401	138.511775	34.8320559	-34.8320559	PORT ADEL	D73873	A4	CT 6156 19	SI5409	6628	3	31	j	5
234363	6628-2311	6.63E+08	WW	Qpah	5	3/07/2006	5	119867	2	INV		2.3	1.65	3/07/2006					271768	6143040	54	138	30	15.557	34	49	45.697	138.5043215	34.8293602	-34.8293602	PORT ADELAIDE				SI5409	6628	3	31	j	1
234364	6628-2311	6.63E+08	WW	Qpah	5	26/06/2006	5	119866	1	INV		2.8	1.09	26/06/2006					271829	6143023	54	138	30	17.94	34	49	46.298	138.5049833	34.8295271	-34.8295271	PORT ADEL	D87823	A205	CT 6146 57	SI5409	6628	3	31	j	1
234365	6628-2311	6.63E+08	WW	Qpah	5	29/06/2006	5	119865	1.7	INV		2.6	1.33	29/06/2006					271792	6143023	54	138	30	16.485	34	49	46.268	138.5045791	34.8295188	-34.8295188	PORT ADEL	D87823	A205	CT 6146 57	SI5409	6628	3	31	j	1
234366	6628-2311	6.63E+08	WW	Qpah			8	119864	2	INV		2.3	1.65	28/06/2006					271762	6143016	54	138	30	15.298	34	49	46.471	138.5042494	34.8295752	-34.8295752	PORT ADELAIDE				SI5409	6628	3	31	j	1
234367	6628-2311	6.63E+08	WW	Qpah	5	28/06/2006	5	119863	2	INV		2	1.95	28/06/2006					271774	6143056	54	138	30	15.809	34	49	45.183	138.5043914	34.8292174	-34.8292174	PORT ADELAIDE				SI5409	6628	3	31	j	1
234368	6628-2311	6.63E+08	WW	Qpah	5	29/06/2006	5	119862	2	INV		3.3	0.6	29/06/2006					271819	6143043	54	138	30	17.566	34	49	45.641	138.5048795	34.8293447	-34.8293447	PORT ADEL	D87823	A205	CT 6146 57	SI5409	6628	3	31	j	1
234369	6628-2311	6.63E+08	WW	Qpah	6	27/06/2006	6	119861	1.75	INV		3.2	0.7	27/06/2006					271815	6143001	54	138	30	17.368	34	49	47	138.5048244	34.8297222	-34.8297222	PORT ADEL	D87823	A205	CT 6146 57	SI5409	6628	3	31	j	1
234370	6628-2311	6.63E+08	WW	Qpah	5	29/06/2006	5	119860	2	INV		3.2	0.72	29/06/2006					271795	6142989	54	138	30	16.569	34	49	47.373	138.5046026	34.8298257	-34.8298257	PORT ADEL	D87823	A205	CT 6146 57	SI5409	6628	3	31	j	1
234371	6628-2311	6.63E+08	WW	Qpah	5.1	27/06/2006	5.1	119859	2	INV		3.5	0.38	27/06/2006					271833	6143001	54	138	30	18.076	34	49	47.014	138.5050211	34.8297262	-34.8297262	PORT ADEL	D87823	A205	CT 6146 57	SI5409	6628	3	31	j	1
234372	6628-2312	6.63E+08	WW	Qpah	5	27/06/2006	5	119858	2	INV		3.5	0.37	27/06/2006					271843	6143010	54	138	30	18.478	34	49	46.731	138.5051328	34.8296474	-34.8296474	PORT ADEL	D87823	A205	CT 6146 57	SI5409	6628	3	31	j	1
234373	6628-2312	6.63E+08	WW	Qpah	5.2	3/07/2006	5.2	119857	2	INV		2.4	1.19	3/07/2006					271915	6142673	54	138	30	20.98	34	49	57.718	138.5058278	34.8326996	-34.8326996	PORT ADELAIDE				SI5409	6628	3	31	j	6
235752	6528-2602	6.53E+08	WW	Qhcks			6				EQP								270846.71	6143261.77	54	138	29	39.539	34	49	37.759	138.4943165	34.8271553	-34.8271553	PORT ADEL	D2077	A37	CT 5551 14	SI5409	6528	2	35	m	3
235979	6528-2619	6.53E+08	WW	Qhcks	5.6	21/11/2007	5.6	137104	4						747	1355			270718.19	6143678.39	54	138	29	34.894	34	49	24.143	138.4930261	34.823373	-34.823373	PORT ADEL	D2790	A47	CT 5245 83	SI5409	6528	2	35	e	4
236084	6628-2326	6.63E+08	WW	Qpah	4	6/11/2007	4	138298	1	INV		2.57	1.59	6/11/2007					271974.46	6144191.44	54	138	30	24.804	34	49	8.519	138.50689	34.819033	-34.819033	PORT ADEL	F4994	A12	CT 6098 82	SI5409	6628	3	31	h	6
236085	6628-2327	6.63E+08	WW	Qpah	4	6/11/2007	4	138297	1.5	INV		3.2	1.04	6/11/2007					271914.7	6144257.44	54	138	30	22.518	34	49	6.33	138.5062551	34.818425	-34.818425	PORT ADEL	F4994	A10	CT 5715 78	SI5409	6628	3	31	h	1
236086	6628-2327	6.63E+08	WW	Qpah	4	6/11/2007	4	138296	1	INV		2.87	1.4	6/11/2007					271887.94	6144291.34	54	138	30	21.499	34	49	5.209	138.505972	34.8181136	-34.8181136	PORT ADEL	F4994	A10	CT 5715 78	SI5409	6628	3	31	h	1
236087	6628-2327	6.63E+08	WW	Qpah	4	6/11/2007	4	138280	4	INV		2.63	1.68	6/11/2007					271846.02	6144363.58	54	138	30	19.921	34	49	2.832	138.5055337	34.8174534	-34.8174534	PORT ADEL	F4994	A10	CT 5715 78	SI5409	6628	3	31	h	1
236088	6628-2327	6.63E+08	WW	Qpah	4	7/11/2007	4	138279	1	INV		2.71	1.81	7/11/2007					271646.23	6144245.85	54	138	30	11.949	34	49	6.49	138.5033191	34.8184693	-34.8184693	PORT ADEL	F4994	A10	CT 5715 78	SI5409	6628	3	31	h	1
236089	6628-2327	6.63E+08	WW	Qpah	4	7/11/2007	4	138277	1	INV		2.75	1.88	7/11/2007					271509.76	6144054.97	54	138	30	6.395	34	49	12.57	138.5017764	34.8201583	-34.8201583	PORT ADEL	F4994	A16	CT 5431 30	SI5409	6628	3	31	h	6
236090	6628-2327	6.63E+08	WW	Qhcks	4	7/11/2007	4	138276	1	INV		2.63	2.04	7/11/2007					271455.36	6143992.54	54	138	30	4.194	34	49	14.551	138.5011651	34.8207086	-34.8207086	PORT ADEL	F4994	A16	CT 5431 30	SI5409	6628	3	31	h	6
236091	6628-2327	6.63E+08	WW	Qpah	4	7/11/2007	4	138274	1	INV		2.63	1.86	7/11/2007					271647.12	6144037.14	54	138	30	11.78	34	49	13.259	138.5032721	34.8203497	-34.8203497	PORT ADEL	F4994	A16	CT 5431 30	SI5409	6628	3	31	h	6
236092	6628-2327	6.63E+08	WW	Qpah	4	8/11/2007	4	138273	1	INV		2.63	1.68	8/11/2007					271813.91	6144068.35	54	138	30	18.37	34	49	12.382	138.5051027	34.820106	-34.820106	PORT ADEL	F4994	A12	CT 6098 82	SI5409	6628	3	31	h	6
236093	6628-2327	6.63E+08	WW	Qpah	4	8/11/2007	4	138269	0.5	INV		1.55	2.67	8/11/2007					271893.29	6144078.17	54	138	30	21.501	34	49	12.127	138.5059725	34.8200353	-34.8200353	PORT ADEL	F4994	A12	CT 6098 82	SI5409	6628	3	31	h	6
236094	6628-2327	6.63E+08	WW	Qpah	7.5	15/11/2007	7.5	138875	3	INV		4.55	-1.37	15/11/2007					272433.2	6142785.61	54	138	30	41.473	34	49	54.484	138.5115203	34.831801	-34.831801	PORT ADEL	D73873	A4	CT 6156 19	SI5409	6628	3	31	j	5
236095	6628-2328	6.63E+08	WW	Qpah	4	15/11/2007	4	138763	1	INV		2.49	0.73	15/11/2007					272389.63	6142736.86	54	138	30	39.712	34	49	56.03	138.511031	34.8322305	-34.8322305	PORT ADEL	D73873	A4	CT 6156 19	SI5409	6628	3	31	j	5
236096	6628-2328	6.63E+08	WW	Qpah	7	15/11/2007	7	138764	2.5	INV		4.03	-0.83	15/11/2007					272409.77	6142757.01	54	138	30	40.523	34	49	55.392	138.5112565	34.8320534	-34.8320534	PORT ADEL	D73873	A4	CT 6156 19	SI5409	6628	3	31	j	5
236760	6628-2337	6.63E+08	WW	Qpah	4	26/11/2006	4	124797	0.5										271445.82	6143427.69	54	138	30	3.265	34	49	32.863	138.5009071	34.8257952	-34.8257952	PORT ADEL	D84774	A290	CT 6065 4	SI5409	6628	3	31	j	1
236761	6628-2337	6.63E+08	WW	Qpah			3.5	124798	0.5	INV		1	3.35	26/11/2006					271414.61	6143404.5	54	138	30	2.015	34	49	33.59	138.5005598	34.8259971	-34.8259971	PORT ADEL	D84774	A290	CT 6065 4	SI5409	6628	3	31	j	1
236762	6628-2337	6.63E+08	WW	Qpah	3.5	26/11/2006	3.5	124799	0.5	INV		1.1	3.23	26/11/2006					271419.07	6143380.42	54	138	30	2.167	34	49	34.374	138.500602	34.826215	-34.826215	PORT ADEL	D84774	A290	CT 6065 4	SI5409	6628	3	31	j	1
236763	6628-2337	6.63E+08	WW	Qpah	5	26/11/2006	5	124804	0.5	INV		1.5	2.52	26/11/2006					271712.29	6143140.4	54	138	30	13.465	34	49	42.395	138.5037401	34.8284432	-34.8284432	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j	1
236764	6628-2337	6.63E+08	WW	Qpah	4	26/11/2006	4	124802	0.5	INV		1.6	2.41	26/11/2006					271719.14	6143141.31	54	138	30	13.735	34	49	42.372	138.5038152	34.8284365	-34.8284365	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j	1
236765	6628-2337	6.63E+08	WW	Qpah	3.8	26/11/2006	3.8	124803	0.5	INV		1.4	2.61	26/11/2006					271714.11	6143127.61	54	138	30	13.524	34	49	42.812	138.5037566	34.8285589	-34.8285589	PORT ADELAIDE				SI5409	6628	3	31	j	1
236766	6628-2337	6.63E+08	WW	Qpah	4	26/11/2006	4	124800	3.5	INV		0.9	3.12	26/11/2006					271708.63	6143131.72	54	138	30	13.312	34	49	42.674	138.5036978	34.8285207	-34.8285207	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j	1
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239399	6528-2649	6.53E+08	WW	Qhcks	8.5	20/06/2008	8.5	136589	7.5			6.5	1.34	20/06/2008	406	738		0.2	270786.84	6144737.22	54	138	29	38.635	34	48	49.858	138.4940652	34.8138494	-34.8138494	PORT ADEL	D2401	A324	CT 5235 88	SI5409	6528	2	35	e	3
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239406	6528-2652	6.53E+08	WW	Qhcks			8.5	136587	7.5			6.5	1.4	20/06/2008	412	749		0.2	270782.53	6144715.43	54	138	29	38.444	34	48	50.561	138.4940122	34.8140448	-34.8140448	PORT ADEL	D2401	A323	CT 5746 88	SI5409	6528	2	35	e	3
240215	6528-2659	6.53E+08	WW	Qhcks	9.5	12/04/2007	9.5	127261				8.3	0.01	12/04/2007	714	1297		0.3	270519.01	6144349.14	54	138	29	27.721	34	49	2.227	138.4910335	34.8172852	-34.8172852	PORT ADEL	F4731	A154	CT 5065 37	SI5409	6528	2	35	e	2
240262	6528-2662	6.53E+08	WW	Qhcks	6.6	12/04/2007	6.6	128130				3	2.83	12/04/2007	1150	2081		7	270917.13	6144841.13	54	138	29	43.86	34	48	46.593	138.4955168	34.8129425	-34.8129425	PORT ADEL	D2533	A426	CT 5324 68	SI5409	6528	2	35	e	3
240268	6628-2367	6.63E+08	WW	Qhcks	6	12/09/2007	6	135028				2.6	1.2	12/09/2007	4309	7630		0.5	271528.76	6145120.24	54	138	30	8.186	34	48	38.036	138.5022738	34.8105655	-34.8105655	PORT ADEL	D7611	A166	CT 5569 69	SI5409	6628	3	31	a	6
240271	6528-2664	6.53E+08	WW	Qhcks	6	22/10/2007	6	135512				3	1.88	22/10/2007	1233	2230		0.5	270822.21	6143418.86	54	138	29	38.73	34	49	32.644	138.4940917	34.8257345	-34.8257345	PORT ADEL	D2328	A10	CT 5232 80	SI5409	6528	2	35	m	3
240272	6528-2665	6.53E+08	WW	Qpah	6	22/10/2007	6	135358				2	2.02	22/10/2007	1508	2720		0.3	271316.47	6142381.86	54	138	29	57.152	34	50	6.677	138.4992089	34.8351881	-34.8351881	PORT ADEL	F3889	A61	CT 5139 4	SI5409	6528	2	35	m	4
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241665	6528-2673	6.53E+08	WW	Qpah	4	21/02/2007	4	127435	2.3										271147.68	6143148.36	54	138	29	51.265	34	49	41.681	138.4975737	34.8282447	-34.8282447	PORT ADEL	D73062	A6	CT 5984 64	SI5409	6528	2	35	m	3
241670	6528-2678	6.53E+08	WW	Qhcks	4	28/12/2007	4	141142	2.3						1295	2340			271120.13	6143115.05	54	138	29	50.149	34	49	42.739	138.4972636	34.8285386	-34.8285386	PORT ADEL	D73062	A5	CT 5984 64	SI5409	6528	2	35	m	3
246953	6528-2682	6.53E+08	WW	Qhcks	6	2/11/2007	6	137539				3.5	1.24	2/11/2007	921	1670			271058.8	6144512.45	54	138	29	49.109	34	48	57.368	138.4969747	34.8159356	-34.8159356	PORT ADEL	C20079			SI5409	6528	2	35	e	3
246956	6528-2684	6.53E+08	WW	Qhcks	5	30/11/2007	5	138377				2.5	2.03	30/11/2007	1586	2860			271071.06	6143063.76	54	138	29	48.169	34	49	44.363	138.4967135	34.8289897	-34.8289897	PORT ADEL	D2079	A23	CT 5621 67	SI5409	6528	2	35	m	3
246960	6528-2688	6.53E+08	WW	Qhcks	5.6	1/11/2008	5.6	139923				3.6	1.21	1/11/2008	1895	3410			271041.05	6144511.28	54	138	29	48.41	34	48	57.392	138.4967804	34.8159421	-34.8159421	PORT ADEL	C20079			SI5409	6528	2	35	e	3
246962	6528-2689	6.53E+08	WW	Qhcks	8.1	14/01/2008	8.1	141107				6.1	-1.09	14/01/2008	616	1119			270165.7	6143061.94	54	138	29	12.558	34	49	43.687	138.4868216	34.828802	-34.828802	PORT ADEL	D341	A57	CT 5741 42	SI5409	6528	2	35	m	2
246963	6528-2690	6.53E+08	WW	Qhcks	6.5	16/02/2008	6.5	138984				4.5	0.33	16/02/2008	1737	3130			270863.88	6146117.51	54	138	29	43.02	34	48	5.154	138.4952832	34.8014316	-34.8014316	PORT ADEL	D2252	A213	CT 5306 43	SI5409	6528	2	35	d	3
246965	6528-2692	6.53E+08	WW	Qpah	5.5	6/12/2007	5.5	140505				3	1.42	6/12/2007	1714	3090			270930.32	6142439.05	54	138	29	42.019	34	50	4.51	138.4950053	34.834586	-34.834586	PORT ADEL	S11142			SI5409	6528	2	35	m	4
246975	6528-2698	6.53E+08	WW	Qhcks	6.2	3/12/2007	6.2	140344				3.8	1.2	3/12/2007	348	632			270595.76	6143426.8	54	138	29	29.832	34	49	32.203	138.4916199	34.825612	-34.825612	PORT ADEL	F4337	A110	CT 5839 81	SI5409	6528	2	35	m	2
246982	6528-2705	6.53E+08	WW	Qhcks	4.5	28/10/2007	4.5	136651				2.2	2.46	28/10/2007	1003	1816			270758.9	6142856.33	54	138	29	35.687	34	49	50.837	138.4932464	34.8307882	-34.8307882	PORT ADEL	D1113	A64	CT 5680 84	SI5409	6528	2	35	m	3
246990	6628-2469	6.63E+08	WW	Qhcks	5	10/09/2007	5	127394				2.5	2.13	10/09/2007	1315	2377			271293.88	6146204.29	54	138	30	0.012	34	48	2.687	138.5000032	34.8007464	-34.8007464	PORT ADEL	D85411	A50	CT 6067 66	SI5409	6628	3	31	a	1
246991	6528-2713	6.53E+08	WW	Qhcks	8	14/11/2007	8	135968				6	-0.93	14/11/2007	706	1281			270415.88	6144007.87	54	138	29	23.329	34	49	13.212	138.4898136	34.8203366	-34.8203366	PORT ADEL	D2108	A66	CT 5273 57	SI5409	6528	2	35	e	5
248201	6628-2485	6.63E+08	WW	Qpah	5.5	9/07/2009	5.5	167287	1	INV		2.5		9/07/2009					271829.82	6142901.92	54	138	30	17.854	34	49	50.225	138.5049594	34.830618	-34.830618	PORT ADEL	D87823	A205	CT 6146 57	SI5409	6628	3	31	j	1
248202	6628-2485	6.63E+08	WW	Qpah	5.5	10/07/2009	5.5	167288	1	INV		3		10/07/2009					271945.53	6142947.06	54	138	30	22.449	34	49	48.854	138.5062359	34.8302373	-34.8302373	PORT ADEL	D87823	A201	CT 6145 88	SI5409	6628	3	31	j	1
248203	6628-2485	6.63E+08	WW	Qpah	5.5	10/07/2009	5.5	167289	1	INV		2.5		10/07/2009					271925.81	6142927.34	54	138	30	21.654	34	49	49.478	138.5060151	34.8304106	-34.8304106	PORT ADEL	D87823	A205	CT 6146 57	SI5409	6628	3	31	j	1
248204	6628-2485	6.63E+08	WW	Qpah	5.5	5/08/2009	5.5	167290	1	INV		3		5/08/2009					271947.72	6142913.31	54	138	30	22.502	34	49	49.951	138.5062506	34.8305419	-34.8305419	PORT ADEL	D87823	A201	CT 6145 88	SI5409	6628	3	31	j	1
252953	6628-2493	6.63E+08	WW	Qpah	6.5	13/07/2009	6.5	167594	2	INV		2		13/07/2009					271886.86	6143085.46	54	138	30	20.277	34	49	44.319	138.5056325	34.8289775	-34.8289775	PORT ADEL	D87823	A205	CT 6146 57	SI5409	6628	3	31	j	1
252954	6628-2493	6.63E+08	WW	Qpah	6.5	13/07/2009	6.5	167593	2	INV		2		13/07/2009					271885.94	6143120.34	54	138	30	20.275	34	49	43.186	138.5056319	34.8286629	-34.8286629	PORT ADEL	D87823	A205	CT 6146 57	SI5409	6628	3	31	j	1
253775	6628-2508	6.63E+08	WW	Qpah	4	19/05/2008	4	147322	0.8	INV		1		19/05/2008					271585.23	6143103.22	54	138	30	8.431	34	49	43.499	138.5023418	34.8287497	-34.8287497	PORT ADELAIDE				SI5409	6628	3	31	j	1
264442	6528-2754	6.53E+08	WW	Qhcks	6	17/01/2010	6	194725	5			3		17/01/2010	1075	1946		0.5	271117.62	6144091.83	54	138	29	51.009	34	49	11.057	138.4975025	34.8197382	-34.8197382	PORT ADEL	D85531	A1	CT 6079 79	SI5409	6528	2	35	e	4
266651	6528-2761	6.53E+08	WW	Qpah			31.5	30765	28.5										270498.14	6144711.96	54	138	29	27.257	34	48	50.443	138.4909047	34.8140119	-34.8140119	PORT ADELAIDE				SI5409	6528	2	35	e	2
278555	6528-2797	6.53E+08	WW	Qhcks			4.7	222192	1.5	INV		2.7		24/07/2013					270914.69	6143439.55	54	138	29	42.382	34	49	32.048	138.495106	34.825569	-34.825569	PORT ADEL	D87906	A1854	CT 6086 53	SI5409	6528	2	35	m	3
278556	6528-2798	6.53E+08	WW	Qhcks	4.7	24/07/2013	4.7	222193	1.5	INV		2.87		24/07/2013					270888.77	6143429.24	54	138	29	41.352	34	49	32.362	138.49482	34.825656	-34.825656	PORT ADEL	D87906	A1853	CT 6086 53	SI5409	6528	2	35	m	3
278557	6528-2799	6.53E+08	WW	Qhcks	5	24/07/2013	5	222194	0.7	INV		2.48		24/07/2013					270916.47	6143419.83	54	138	29	42.432	34	49	32.689	138.49512	34.825747	-34.825747	PORT ADEL	D87906	A1852	CT 6086 53	SI5409	6528	2	35	m	3
285353	6528-2813	6.53E+08	WW	Qhcks	6	27/03/2015	6	244385	3	INV		4.5		27/03/2015					270259.97	6142868.75	54	138	29	16.075	34	49	50.029	138.4877986	34.8305637	-34.8305637	PORT ADEL	F4203	A14	CT 6160 21	SI5409	6528	2	35	m	2
285354	6528-2814	6.53E+08	WW	Qhcks	6	30/03/2015	6	244386	3			4.6		30/03/2015					270236.89	6142870.45	54	138	29	15.169	34	49	49.956	138.4875469	34.8305432	-34.8305432	PORT ADELAIDE				SI5409	6528	2	35	m	2
285355	6528-2815	6.53E+08	WW	Qhcks			6	244387	3	INV		4.6		30/03/2015					270230.86	6142855.71	54	138	29	14.917	34	49	50.429	138.487477	34.8306747	-34.8306747	PORT ADELAIDE				SI5409	6528	2	35	m	2
285601	6528-2816	6.53E+08	WW	Qpah															270408	6143804	54	138	29	22.818	34	49	19.817	138.4896718	34.8221715	-34.8221715	PORT ADEL	D1996	A54	CT 5770 96	SI5409	6528	2	35	e	5
288520	6528-2827	6.53E+08	WW	Qpah				258414			BKF								271141.6	6142328.56	54	138	29	50.215	34	50	8.264	138.497282	34.835629	-34.835629	PORT ADEL	C41102			SI5409	6528	2	35	m	4
288521	6528-2828	6.53E+08	WW	Qpah				258415			BKF								271108.76	6142335.29	54	138	29	48.93	34	50	8.02	138.496925	34.835561	-34.835561	PORT ADEL	C41101			SI5409	6528	2	35	m	4
288758	6528-2833	6.53E+08	WW	Qpah	4	13/11/2015	4	252924	1	INV		1.69		13/11/2015					271346.44	6143472.3	54	138	29	59.401	34	49	31.336	138.4998335	34.825371	-34.825371	PORT ADEL	D1200	A55	CT 5941 17	SI5409	6528	2	35	m	3
288759	6528-2834	6.53E+08	WW	Qpah	4	13/10/2015	4	252925	1	INV		1.66		13/10/2015					271335.6	6143424.96	54	138	29	58.928	34	49	32.862	138.4997022	34.825795	-34.825795	PORT ADEL	D1200	A39	CT 5941 17	SI5409	6528	2	35	m	3
288760	6528-2835	6.53E+08	WW	Qpah	4	14/10/2015	4	252926	1	INV		1.8		14/10/2015					271325.29	6143426.13	54	138	29	58.523	34	49	32.816	138.4995898	34.8257822	-34.8257822	PORT ADEL	D1200	A39	CT 5941 17	SI5409	6528	2	35	m	3
288761	6528-2836	6.53E+08	WW	Qpah	4	14/10/2015	4	252927	1	INV		1.84		14/10/2015					271319.16	6143445.23	54	138	29	58.301	34	49	32.192	138.4995281	34.8256088	-34.8256088	PORT ADEL	D1200	A54	CT 5941 17	SI5409	6528	2	35	m	3
294048	6528-2863	6.53E+08	WW	Qhcks	10.2	18/04/2017	10.2	277435	5	INV		5.37		18/04/2017					270770.34	6145173.11	54	138	29	38.414	34	48	35.707	138.4940039	34.8099187	-34.8099187	PORT ADEL	D88971	A201	CT 6118 64	SI5409	6528	2	35	d	4
294049	6528-2864	6.53E+08	WW	Qhcks	9.3	18/04/2017	9.3	277436	3.5	INV		4.92		18/04/2017					270826.23	6145123.7	54	138	29	40.563	34	48	37.355	138.4946009	34.8103764	-34.8103764	PORT ADEL	D88971	A201	CT 6118 64	SI5409	6528	2	35	d	4
294050	6528-2865	6.53E+08	WW	Qhcks	9.2	18/04/2017	9.2	277437	3.5	INV		5.09		18/04/2017					270770.14	6145039.04	54	138	29	38.275	34	48	40.056	138.4939651	34.8111266	-34.8111266	PORT ADEL	D88971	A201	CT 6118 64	SI5409	6528	2	35	d	4
303721	6528-2868	6.53E+08	WW		6	30/09/2015	6	251972				3		30/09/2015	2008	3610		0.6	270642.65	6143763.83	54	138	29	32.007	34	49	21.31	138.4922242	34.8225862	-34.8225862	PORT ADEL	D2790	A53	CT 5222 74	SI5409	6528	2	35	e	4
304044	6528-2876	6.53E+08	WW		3.5	19/09/2017	3.5	293569	0.5	INV		1.1		19/09/2017					271324.3	6143163.77	54	138	29	58.227	34	49	41.324	138.4995075	34.8281456	-34.8281456	PORT ADELAIDE				SI5409	6528	2	35	m	3
304045	6528-2877	6.53E+08	WW		3.5	19/09/2017	3.5	293568	0.5	INV		1		19/09/2017					271358.39	6143266.25	54	138	29	59.668	34	49	38.028	138.4999079	34.82723	-34.82723	PORT ADELAIDE				SI5409	6528	2	35	m	3
304046	6528-2878	6.53E+08	WW		3.5	20/09/2017	3.5	293567	0.5	INV									271243.85	6143182.99	54	138	29	55.082	34	49	40.636	138.4986338	34.8279544	-34.8279544	PORT ADELAIDE				SI5409	6528	2	35	m	3
304047	6528-2879	6.53E+08	WW		3.5	20/09/2017	3.5	293566	0.5	INV		0.9		20/09/2017					271263.41	6143087.84	54	138	29	55.758	34	49	43.738	138.4988216	34.828816	-34.828816	PORT ADELAIDE				SI5409	6528	2	35	m	3
304048	6528-2880	6.53E+08	WW		3.5	20/09/2017	3.5	293570	0.5	INV		1.1		20/09/2017					271273.62	6143288.82	54	138	29	56.357	34	49	37.227	138.4989879	34.8270076	-34.8270076	PORT ADELAIDE				SI5409	6528	2	35	m	3
304049	6528-2881	6.53E+08	WW		3.5	20/09/2017	3.5	293571	0.5	INV		1		20/09/2017					271275.15	6143374.89	54	138	29	56.501	34	49	34.438	138.4990281	34.8262327	-34.8262327	PORT ADELAIDE				SI5409	6528	2	35	m	3
304050	6528-2882	6.53E+08	WW		3.5	21/09/2017	3.5	293572	0.5	INV		1.2		21/09/2017					271356.01	6143447.57	54	138	29	59.753	34	49	32.146	138.4999313	34.8255961	-34.8255961	PORT ADELAIDE				SI5409	6528	2	35	m	3
305793	6528-2883	6.53E+08	WW					302498			BKF								270684	6143458	54	138	29	33.333	34	49	31.263	138.4925924	34.8253508	-34.8253508	PORT ADEL	D2328	A55	CT 5246 41	SI5409	6528	2	35	m	3
307566	6528-2892	6.53E+08	WW	Qhcks	6	23/02/2018	6	302498	5						391	711		0.5	270680	6143456	54	138	29	33.173	34	49	31.325	138.4925482	34.8253679	-34.8253679	PORT ADEL	D2328	A55	CT 5246 41	SI5409	6528	2	35	m	3
311647	6528-2895	6.53E+08	WW		5.7	3/07/2018	5.7	304925	4.5			2.8		3/07/2018	667	1211		0.5	270730.96	6143291.93	54	138	29	35.016	34	49	36.687	138.4930601	34.8268574	-34.8268574	PORT ADEL	D2077	A47	CT 5757 54	SI5409	6528	2	35	m	3
313920	6528-2902	6.53E+08	WW																270322.16	6143418.77	54	138	29	19.063	34	49	32.241	138.4886286	34.8256226	-34.8256226	PORT ADEL	D1195	A236	CT 5513 48	SI5409	6528	2	35	m	2
314339	6528-2906	6.53E+08	WW				5.7	338647			BKF								270321	6143421	54	138	29	19.02	34	49	32.168	138.4886165	34.8256023	-34.8256023	PORT ADEL	D1195	A236	CT 5513 48	SI5409	6528	2	35	m	2
253776	6628-2508	6.63E+08	WW	Qpah	4	19/05/2008	4	147324	0.75	INV		0.98		19/05/2008					271593.33	6143104.85	54	138	30	8.751	34	49	43.452	138.5024308	34.8287368	-34.8287368	PORT ADELAIDE				SI5409	6628	3	31	j	1
253777	6628-2509	6.63E+08	WW	Qpah	4	19/05/2008	4	147328	0.75	INV		1.25		19/05/2008					271629.97	6143111.98	54	138	30	10.199	34	49	43.251	138.502833	34.8286808	-34.8286808	PORT ADELAIDE				SI5409	6628	3	31	j	1
253778	6628-2509	6.63E+08	WW	Qpah	4	19/05/2008	4	147334	0.75	INV		1.31		19/05/2008					271646.39	6143122.24	54	138	30	10.855	34	49	42.931	138.5030152	34.8285921	-34.8285921	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j	1
253804	6628-2509	6.63E+08	WW	Qpah	4	19/05/2008	4	147335	0.75	INV		1.24		19/05/2008					271652.54	6143122.32	54	138	30	11.097	34	49	42.934	138.5030824	34.8285927	-34.8285927	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j	1
253805	6628-2509	6.63E+08	WW	Qpah	4	19/05/2008	4	147344	0.6			0.97		19/05/2008					271664.56	6143118.36	54	138	30	11.566	34	49	43.072	138.5032127	34.828631	-34.828631	PORT ADELAIDE				SI5409	6628	3	31	j	1
253807	6628-2509	6.63E+08	WW	Qpah	4	20/05/2008	4	147345	0.75	INV		1.28		20/05/2008					271672.12	6143125.51	54	138	30	11.87	34	49	42.846	138.5032972	34.8285683	-34.8285683	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j	1
253808	6628-2509	6.63E+08	WW	Qpah	4	20/05/2008	4	147346	0.75	INV		1.2		20/05/2008					271682.17	6143126.25	54	138	30	12.266	34	49	42.83	138.5034072	34.8285639	-34.8285639	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j	1
253809	6628-2509	6.63E+08	WW	Qpah	4	20/05/2008	4	147347	0.75	INV		1		20/05/2008					271691.87	6143128.01	54	138	30	12.649	34	49	42.781	138.5035137	34.8285503	-34.8285503	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j	1
253810	6628-2509	6.63E+08	WW	Qpah	4	20/05/2008	4	147348	0.75	INV		0.98		20/05/2008					271723.07	6143130	54	138	30	13.878	34	49	42.742	138.5038551	34.8285394	-34.8285394	PORT ADELAIDE				SI5409	6628	3	31	j	1
253811	6628-2509	6.63E+08	WW	Qpah	4	21/05/2008	4	147321	0.75	INV		1.22		21/05/2008					271581.26	6143107.89	54	138	30	8.279	34	49	43.344	138.5022997	34.8287067	-34.8287067	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j	1
253812	6628-2509	6.63E+08	WW	Qpah	4	21/05/2008	4	147323	0.75	INV		1.1		21/05/2008					271587.38	6143110.22	54	138	30	8.522	34	49	43.274	138.5023672	34.8286872	-34.8286872	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j	1
253813	6628-2510	6.63E+08	WW	Qpah	4	19/05/2008	4	147325	0.75	INV		1.76		19/05/2008					271605.9	6143114.88	54	138	30	9.255	34	49	43.137	138.5025708	34.8286493	-34.8286493	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j	1
253822	6628-2510	6.63E+08	WW	Qpah	4	20/05/2008	4	147326	0.5	INV		1.63		20/05/2008					271616.03	6143116.95	54	138	30	9.655	34	49	43.079	138.5026821	34.8286329	-34.8286329	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j	1
253823	6628-2510	6.63E+08	WW	Qpah	4	20/05/2008	4	147327	0.5	INV		1.59		20/05/2008					271624.62	6143119.08	54	138	30	9.995	34	49	43.016	138.5027765	34.8286156	-34.8286156	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j	1
253824	6628-2510	6.63E+08	WW	Qpah	4	22/05/2008	4	147329	0.75	INV		1.22		22/05/2008					271635.1	6143121.33	54	138	30	10.41	34	49	42.952	138.5028916	34.8285977	-34.8285977	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j	1
253825	6628-2510	6.63E+08	WW	Qpah	4	20/05/2008	4	147330	0.75	INV		1.22		20/05/2008					271600.36	6143127.8	54	138	30	9.05	34	49	42.714	138.5025138	34.8285316	-34.8285316	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j	1
253826	6628-2510	6.63E+08	WW	Qpah	4	20/05/2008	4	147331	0.75	INV		1.19		20/05/2008					271613.2	6143130.49	54	138	30	9.557	34	49	42.637	138.5026548	34.8285103	-34.8285103	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j	1
253827	6628-2510	6.63E+08	WW	Qpah	4	23/05/2008	4	147332	0.75	INV		1.19		23/05/2008					271622.84	6143132.49	54	138	30	9.939	34	49	42.58	138.5027607	34.8284944	-34.8284944	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j	1

253828	6628-2510	6.63E+08	WW	Qpah	4	21/05/2008	4	147333	0.75	INV									271650.9	6143135.62	54	138	30	11.045	34	49	42.501	138.5030681	34.8284725	-34.8284725	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j		1
253834	6628-2510	6.63E+08	WW	Qpah	4	21/05/2008	4	147343	0.75	INV									271659.64	6143132.7	54	138	30	11.386	34	49	42.603	138.5031628	34.8285007	-34.8285007	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j		1
253835	6628-2511	6.63E+08	WW	Qpah	4	21/05/2008	4	147336	0.75	INV									271657.12	6143145.6	54	138	30	11.3	34	49	42.183	138.5031388	34.828384	-34.828384	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j		1
254853	6628-2514	6.63E+08	WW	Qpah	4	29/09/2008	4	153745	0.5	INV									271656.98	6143103.68	54	138	30	11.253	34	49	43.542	138.5031259	34.8287616	-34.8287616	PORT ADELAIDE				SI5409	6628	3	31	j		1
254889	6628-2515	6.63E+08	WW	Qpah	4	29/09/2008	4	153746	0.5	INV		1.6		29/09/2008					271396.47	6143252.14	54	138	30	1.152	34	49	38.516	138.5003201	34.8273657	-34.8273657	PORT ADELAIDE				SI5409	6628	3	31	j		1
254892	6628-2515	6.63E+08	WW	Qpah	4	29/09/2008	4	153747	0.5	INV		1.6		29/09/2008					271405.91	6143209.47	54	138	30	1.482	34	49	39.908	138.5004116	34.8277522	-34.8277522	PORT ADELAIDE				SI5409	6628	3	31	j		1
254893	6628-2515	6.63E+08	WW	Qpah	4	29/09/2008	4	153748	0.5	INV		1.6		29/09/2008					271418.27	6143148.06	54	138	30	1.908	34	49	41.909	138.5005299	34.8283082	-34.8283082	PORT ADELAIDE				SI5409	6628	3	31	j		1
254895	6628-2515	6.63E+08	WW	Qpah	4	29/09/2008	4	153749	0.5	INV		1.5		29/09/2008					271428.35	6143097.48	54	138	30	2.255	34	49	43.558	138.5006263	34.8287661	-34.8287661	PORT ADELAIDE				SI5409	6628	3	31	j		1
254896	6628-2515	6.63E+08	WW	Qpah	4	30/09/2008	4	153750	0.5	INV		1.1		30/09/2008					271511.61	6143091.5	54	138	30	5.524	34	49	43.819	138.5015343	34.8288387	-34.8288387	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j		1
254897	6628-2516	6.63E+08	WW	Qpah	4	30/09/2008	4	153751	0.5	INV		1		30/09/2008					271552.26	6143099.61	54	138	30	7.13	34	49	43.589	138.5019806	34.8287748	-34.8287748	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j		1
254898	6628-2516	6.63E+08	WW	Qpah	4	29/09/2008	4	153752	0.5	INV		1		29/09/2008					271566.9	6143079.71	54	138	30	7.687	34	49	44.247	138.5021352	34.8289574	-34.8289574	PORT ADEL	D70924	A2	CT 6040 73	SI5409	6628	3	31	j		1
254899	6628-2516	6.63E+08	WW	Qpah	4	29/09/2008	4	153753	0.5	INV		0.8		29/09/2008					271762.65	6143254.64	54	138	30	15.557	34	49	38.731	138.5043214	34.8274254	-34.8274254	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j		1
254900	6628-2516	6.63E+08	WW	Qpah	4	2/10/2008	4	153756	0.5	INV		0.8		2/10/2008					271765.89	6143354.55	54	138	30	15.782	34	49	35.494	138.504384	34.826526	-34.826526	PORT ADEL	D75123	A301	CT 6028 53	SI5409	6628	3	31	j		1
254901	6628-2516	6.63E+08	WW	Qpah	4	3/09/2008	4	153757	0.5	INV		0.8		3/09/2008					271768.82	6143395.04	54	138	30	15.937	34	49	34.183	138.504427	34.8261618	-34.8261618	PORT ADEL	D75123	A301	CT 6028 53	SI5409	6628	3	31	j		1
254902	6628-2516	6.63E+08	WW	Qpah	4	29/09/2008	4	153759	0.5	INV		1.2		29/09/2008					271781.97	6143207.65	54	138	30	16.271	34	49	40.271	138.5045197	34.827853	-34.827853	PORT ADEL	D75124	A201	CT 6022 95	SI5409	6628	3	31	j		1
254903	6628-2516	6.63E+08	WW	Qpah	4	29/09/2008	4	153754	0.5	INV		1.2		29/09/2008					271766.6	6143219.99	54	138	30	15.679	34	49	39.858	138.5043552	34.8277383	-34.8277383	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j		1
254904	6628-2516	6.63E+08	WW	Qpah	4	2/10/2008	4	153755	0.5	INV		0.9		2/10/2008					271685.72	6143271.36	54	138	30	12.548	34	49	38.127	138.5034855	34.8272574	-34.8272574	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j		1
254905	6628-2516	6.63E+08	WW	Qpah	4	2/10/2008	4	153758	0.5	INV		0.9		2/10/2008					271777.53	6143510.71	54	138	30	16.393	34	49	30.438	138.5045536	34.8251217	-34.8251217	PORT ADEL	D75123	A301	CT 6028 53	SI5409	6628	3	31	j		1
255997	6628-2521	6.63E+08	WW	Qpah	4	22/05/2008	4	147337	0.8	INV									271661.89	6143153.94	54	138	30	11.495	34	49	41.916	138.5031932	34.82831	-34.82831	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j		1
255998	6628-2521	6.63E+08	WW	Qpah	4	22/05/2008	4	147338	0.75	INV									271673.77	6143156.41	54	138	30	11.965	34	49	41.846	138.5033237	34.8282905	-34.8282905	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j		1
255999	6628-2521	6.63E+08	WW	Qpah	4	22/05/2008	4	147339	0.75	INV									271685.57	6143155.34	54	138	30	12.428	34	49	41.89	138.5034523	34.8283027	-34.8283027	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j		1
256000	6628-2522	6.63E+08	WW	Qpah	4	22/05/2008	4	147340	0.75	INV		1.11		22/05/2008					271692.22	6143152.39	54	138	30	12.687	34	49	41.991	138.5035241	34.8283307	-34.8283307	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j		1
256001	6628-2522	6.63E+08	WW	Qpah	4	22/05/2008	4	147341	0.75	INV		1.24		22/05/2008					271694.41	6143142.94	54	138	30	12.764	34	49	42.299	138.5035455	34.8284163	-34.8284163	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j		1
256002	6628-2522	6.63E+08	WW	Qpah	4	22/05/2008	4	147342	0.75	INV		1.14		22/05/2008					271700.51	6143132.63	54	138	30	12.994	34	49	42.638	138.5036093	34.8285105	-34.8285105	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j		1
256003	6628-2522	6.63E+08	WW	Qpah	4	20/05/2008	4	147319	0.5	INV		1.43		20/05/2008					271615.72	6143173.74	54	138	30	9.699	34	49	41.236	138.5026941	34.8281212	-34.8281212	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j		1
256004	6628-2522	6.63E+08	WW	Qpah	4	20/05/2008	4	147320	0.5	INV		1.34		20/05/2008					271623.73	6143175.51	54	138	30	10.016	34	49	41.186	138.5027821	34.8281071	-34.8281071	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j		1
256094	6628-2522	6.63E+08	WW	Qpah	5.5	19/02/2008	5.5	142958	2.7	INV									271925.87	6143079.61	54	138	30	21.806	34	49	44.54	138.5060571	34.8290388	-34.8290388	PORT ADEL	D87823	A205	CT 6146 57	SI5409	6628	3	31	j		1
256095	6628-2522	6.63E+08	WW	Qpah	4.5	18/02/2008	4.5	142959	1.5	INV									271917.41	6143017.84	54	138	30	21.412	34	49	46.536	138.5059479	34.8295933	-34.8295933	PORT ADEL	D87823	A205	CT 6146 57	SI5409	6628	3	31	j		1
256096	6628-2522	6.63E+08	WW	Qpah	5	19/02/2008	5	142960	2	INV		3.2		19/02/2008					271925.02	6142970.46	54	138	30	21.665	34	49	48.079	138.5060181	34.830022	-34.830022	PORT ADEL	D87823	A205	CT 6146 57	SI5409	6628	3	31	j		1
257911	6628-2532	6.63E+08	WW	Qpah	4	17/02/2010	4	185660	1	INV		2.79		17/02/2010					271703.03	6144284.99	54	138	30	14.221	34	49	5.266	138.5039503	34.8181294	-34.8181294	PORT ADEL	F4994	A12	CT 6098 82	SI5409	6628	3	31	h		1
257912	6628-2532	6.63E+08	WW	Qhcks	4	16/02/2010	4	185661	1	INV		2.42		16/02/2010					271630.91	6144321.49	54	138	30	11.42	34	49	4.024	138.5031724	34.8177844	-34.8177844	PORT ADEL	F4994	A10	CT 5715 78	SI5409	6628	3	31	h		1
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257914	6628-2532	6.63E+08	WW	Qpah	4	17/02/2010	4	187251	1	INV		2.86		17/02/2010					271805.84	6144318.31	54	138	30	18.297	34	49	4.268	138.5050824	34.8178523	-34.8178523	PORT ADEL	F4994	A10	CT 5715 78	SI5409	6628	3	31	h		1
257915	6628-2532	6.63E+08	WW	Qpah	4	16/02/2010	4	187252	1	INV		2.12		16/02/2010					271838.1	6144382.46	54	138	30	19.628	34	49	2.214	138.5054523	34.8172816	-34.8172816	PORT ADELAIDE				SI5409	6628	3	31	h		1
257916	6628-2532	6.63E+08	WW	Qpah	4	16/02/2010	4	187254	0.3	INV									271912.54	6144395.67	54	138	30	22.569	34	49	1.845	138.5062691	34.8171792	-34.8171792	PORT ADEL	F4994	A10	CT 5715 78	SI5409	6628	3	31	h		1
257917	6628-2532	6.63E+08	WW	Qpah	4	16/02/2010	4	187255	1	INV		1.94		16/02/2010					271998.4	6144396.39	54	138	30	25.946	34	49	1.891	138.5072072	34.817192	-34.817192	PORT ADELAIDE				SI5409	6628	3	31	h		1
257918	6628-2532	6.63E+08	WW	Qpah	4	17/02/2010	4	187256	0.5	INV		2.4		17/02/2010					271894.73	6144233.7	54	138	30	21.71	34	49	7.084	138.5060305	34.8186344	-34.8186344	PORT ADEL	F4994	A12	CT 6098 82	SI5409	6628	3	31	h		1
257919	6628-2532	6.63E+08	WW	Qpah	4	17/02/2010	4	187257	1	INV		2.78		17/02/2010					271899.05	6144290.07	54	138	30	21.935	34	49	5.259	138.506093	34.8181276	-34.8181276	PORT ADEL	F4994	A10	CT 5715 78	SI5409	6628	3	31	h		1
257920	6628-2533	6.63E+08	WW	Qpah	4	17/02/2010	4	187258	1	INV		2.53		17/02/2010					271995.12	6144227.92	54	138	30	25.652	34	49	7.352	138.5071256	34.818709	-34.818709	PORT ADEL	F4994	A12	CT 6098 82	SI5409	6628	3	31	h		1
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263531	6628-2572	6.63E+08	WW	Qpah				199667			BKF								271967.38	6143706.68	54	138	30	24.052	34	49	24.235	138.506681	34.8233987	-34.8233987	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	h		6
263532	6628-2572	6.63E+08	WW	Qpah				199665			BKF								271951.75	6143835.31	54	138	30	23.563	34	49	20.051	138.5065452	34.8222363	-34.8222363	PORT ADELAIDE				SI5409	6628	3	31	h		6
263533	6628-2572	6.63E+08	WW	Qpah				199668			BKF								271969.28	6143747.98	54	138	30	24.167	34	49	22.897	138.506713	34.823027	-34.823027	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	h		6
263669	6628-2574	6.63E+08	WW	Qpah	4.3	22/03/2011	4.3	199656	1.3	INV		2.3		22/03/2011					272021.45	6143600.68	54	138	30	26.074	34	49	27.717	138.5072429	34.8243658	-34.8243658	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	h		6
263670	6628-2575	6.63E+08	WW	Qpah	4.3	22/03/2011	4.3	199657	1.3	INV		2.3		22/03/2011					272010.64	6143576.08	54	138	30	25.625	34	49	28.506	138.5071181	34.824585	-34.824585	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	h		6
263671	6628-2575	6.63E+08	WW	Qpah	4	23/03/2011	4	199658	1	INV		2		23/03/2011					271966.27	6143705.58	54	138	30	24.007	34	49	24.27	138.5066686	34.8234084	-34.8234084	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	h		6
263672	6628-2575	6.63E+08	WW	Qpah	4	23/03/2011	4	199659	4	ENV		2		23/03/2011					271975.22	6143711.95	54	138	30	24.365	34	49	24.071	138.5067681	34.823353	-34.823353	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	h		6
263673	6628-2575	6.63E+08	WW	Qpah	4	23/03/2011	4	199660	1	INV		1.6		23/03/2011					271969.22	6143748.64	54	138	30	24.165	34	49	22.876	138.5067125	34.8230211	-34.8230211	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	h		6
263674	6628-2575	6.63E+08	WW	Qpah	4	24/03/2011	4	199661	1	INV		1.5		24/03/2011					271941.75	6143821.21	54	138	30	23.156	34	49	20.5	138.5064321	34.8223611	-34.8223611	PORT ADELAIDE				SI5409	6628	3	31	h		6
263675	6628-2575	6.63E+08	WW	Qpah	3.5	24/03/2011	3.5	199662	0.5	ENV		1.2		24/03/2011					271918.02	6143770.46	54	138	30	22.173	34	49	22.127	138.5061591	34.822813	-34.822813	PORT ADELAIDE				SI5409	6628	3	31	h		6
263676	6628-2575	6.63E+08	WW	Qpah	3.5	24/03/2011	3.5	199663	0.5	INV		1		24/03/2011					271841.44	6143617.86	54	138	30	19.011	34	49	27.014	138.505281	34.8241706	-34.8241706	PORT ADELAIDE				SI5409	6628	3	31	h		6
263677	6628-2575	6.63E+08	WW	Qpah	3.5	25/03/2011	3.5	199664	0.5	INV		1.3		25/03/2011					271971.88	6143604.57	54	138	30	24.129	34	49	27.551	138.5067024	34.8243196	-34.8243196	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	h		6
263678	6628-2575	6.63E+08	WW	Qpah	4	25/03/2011	4	199655	1	INV		1.7		25/03/2011					271981.09	6143626.75	54	138	30	24.513	34	49	26.839	138.5068091	34.8241219	-34.8241219	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	h		6
264454	6628-2585	6.63E+08	WW	Qpah			4.5	199487			BKF								272798.56	6144814.14	54	138	30	57.82	34	48	48.986	138.5160612	34.8136072	-34.8136072	PORT ADEL	D89039	A102	CT 6111 63	SI5409	6628	3	31	h		2
264455	6628-2585	6.63E+08	WW	Qpah			4.5	199489			BKF								272857.79	6144806.24	54	138	31	0.142	34	48	49.29	138.5167061	34.8136916	-34.8136916	PORT ADEL	D89039	A102	CT 6111 63	SI5409	6628	3	31	h		3
264456	6628-2585	6.63E+08	WW	Qpah			10	199490			BKF								272856.48	6144762.81	54	138	31	0.048	34	48	50.697	138.51668	34.8140826	-34.8140826	PORT ADEL	D89039	A102	CT 6111 63	SI5409	6628	3	31	h		3
264990	6628-2587	6.63E+08	WW	Qhcks	7.5	12/08/2010	7.5	191282	6.5			4.5		12/08/2010	1580	2850		0.5	271346.03	6145742.05	54	138	30	1.609	34	48	17.721	138.500447	34.8049225	-34.8049225	PORT ADEL	F4881	A51	CT 5786 55	SI5409	6628	3	31	a		1
264991	6628-2587	6.63E+08	WW	Qhcks	7.5	12/08/2010	7.5	191281	6.5			4.5		12/08/2010	1586	2860		0.5	271346.03	6145736.72	54	138	30	1.604	34	48	17.894	138.5004456	34.8049704	-34.8049704	PORT ADEL	F4881	A51	CT 5786 55	SI5409	6628	3	31	a		1
264992	6628-2587	6.63E+08	WW	Qhcks	7.5	11/08/2010	7.5	191280	6.5			4.5		11/08/2010	1591	2870		0.5	271346.03	6145732.46	54	138	30	1.6	34	48	18.032	138.5004444	34.8050089	-34.8050089	PORT ADEL	F4881	A51	CT 5786 55	SI5409	6628	3	31	a		1
264993	6628-2587	6.63E+08	WW	Qhcks	7.5	11/08/2010	7.5	191279	6.5			4.5		11/08/2010	1535	2770		0.5	271346.03	6145724.99	54	138	30	1.593	34	48	18.274	138.5004424	34.8050762	-34.8050762	PORT ADEL	F4881	A51	CT 5786 55	SI5409	6628	3	31	a		1
264994	6628-2587	6.63E+08	WW	Qhcks	7.5	11/08/2010	7.5	191277	6.5			4.5		11/08/2010	1580	2850		0.5	271346.03	6145716.73	54	138	30	1.585	34	48	18.542	138.5004401	34.8051506	-34.8051506	PORT ADEL	F4881	A51	CT 5786 55	SI5409	6628	3	31	a		1
264995	6628-2587	6.63E+08	WW	Qhcks	7.5	11/08/2010	7.5	191278	6.5			4.5		11/08/2010	1591	2870		0.5	271346.03	6145708.73	54	138	30	1.577	34	48	18.801	138.500438	34.8052226	-34.8052226	PORT ADEL	F4881	A51	CT 5786 55	SI5409	6628	3	31	a		1
266935	6628-2608	6.63E+08	WW	Qpah	5	22/07/2011	5	201313	2	INV		2.14		22/07/2011					272374.14	6142548.81	54	138	30	38.919	34	50	2.116	138.5108107	34.8339212	-34.8339212	PORT ADEL	D73873	A3	CT 6119 10	SI5409	6628	3	31	j		5
266936	6628-2608	6.63E+08	WW	Qpah	4	22/07/2011	4	201314	4	INV		2.63		22/07/2011					272490.11	6142779.69	54	138	30	43.706	34	49	54.722	138.5121404	34.8318671	-34.8318671	PORT ADEL	D73873	A4	CT 6156 19	SI5409	6628	3	31	j		5
266937	6628-2608	6.63E+08	WW	Qpah	5	9/05/2011	5	201316	1	INV		3.5		9/05/2011					272496.44	6142730.08	54	138	30	43.906	34	49	56.336	138.5121962	34.8323155	-34.8323155	PORT ADEL	D73873	A4	CT 6156 19	SI5409	6628	3	31	j		5
266939	6628-2609	6.63E+08	WW	Qpah	5	6/05/2011	5	201318	1	INV		2.8		6/05/2011					272601.86	6142695.57	54	138	30	48.019	34	49	57.54	138.5133386	34.83265	-34.83265	PORT ADEL	D73873	A4	CT 6156 19	SI5409	6628	3	31	j		5
266940	6628-2609	6.63E+08	WW	Qpah	5	9/05/2011	5	201317	1	INV		3		9/05/2011					272506	6143727.73	54	138	30	45.256	34	49	23.986	138.512571	34.8233296	-34.8233296	PORT ADEL	D73873	A5	CT 6191 73	SI5409	6628	3	31	h		5
267208	6628-2617	6.63E+08	ENG	Qpah	25.15	11/01/2011	25.15	198892											271875.2	6143402.8	54	138	30	20.129	34	49	34.017	138.5055913	34.8261158	-34.8261158	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	j		1
267269	6628-2618	6.63E+08	WW	Qpah	5	17/10/2011	5	200995	1	INV		2.37		17/10/2011					271792.3	6142605.35	54	138	30	16.088	34	49	59.813	138.5044688	34.8332815	-34.8332815	PORT ADEL	D86398	A40	CT 6087 69	SI5409	6628	3	31	j		6
267270	6628-2618	6.63E+08	WW	Qpah	5	19/10/2011	5	209956	1	INV		2.53		19/10/2011					271804.92	6142642.26	54	138	30	16.62	34	49	58.626	138.5046167	34.8329518	-34.8329518	PORT ADEL	D86398	A40	CT 6087 69	SI5409	6628	3	31	j		6
267271	6628-2618	6.63E+08	WW	Qpah	5	17/10/2011	5	209958	1	INV		2.3		17/10/2011					271818.7	6142471.73	54	138	30	16.995	34	50	4.169	138.5047209	34.8344913	-34.8344913	PORT ADEL	D86398	A40	CT 6087 69	SI5409	6628	3	31	j		6
267272	6628-2618	6.63E+08	WW	Qpah	5	18/10/2011	5	209959	1	INV		2.42		18/10/2011					271884.57	6142609.83	54	138	30	19.721	34	49	59.743	138.5054782	34.8332619	-34.8332619	PORT ADEL	D86398	A40	CT 6087 69	SI5409	6628	3	31	j		6
267273	6628-2618	6.63E+08	WW	Qpah	5	19/10/2011	5	206690	1	INV		2.22		19/10/2011					271809.74	6142640.26	54	138	30	16.808	34	49	58.695	138.5046688	34.8329709	-34.8329709	PORT ADEL	D86398	A40	CT 6087 69	SI5409	6628	3	31	j		6
267274	6628-2618	6.63E+08	WW	Qpah	5	26/10/2011	5	206691	1	INV		2.72		26/10/2011					271772.59	6142721.96	54	138	30	15.427	34	49	56.016	138.5042851	34.8322266	-34.8322266	PORT ADEL	D491	A38	CT 6053 76	SI5409	6628	3	31	j		6
267275	6628-2618	6.63E+08	WW	Qpah	5	20/10/2011	5	206692	1	INV		2.62		20/10/2011					271763.62	6142780.32	54	138	30	15.131	34	49	54.115	138.504203	34.8316987	-34.8316987	PORT ADEL	D491	A30	CT 6053 76	SI5409	6628	3	31	j		6
267276	6628-2618	6.63E+08	WW	Qpah	5	21/10/2011	5	206685	1	INV									271855.55	6142649.22	54	138	30	18.618	34	49	58.442	138.5051718	34.8329005	-34.8329005	PORT ADEL	D86398	A40	CT 6087 69	SI5409	6628	3	31	j		6
267277	6628-2618	6.63E+08	WW	Qpah	5	21/10/2011	5	209957	1	INV		3		21/10/2011					271842.97	6142589.48	54	138	30	18.065	34	50	0.369	138.5050181	34.8334358	-34.8334358	PORT ADEL	D86398	A40	CT 6087 69	SI5409	6628	3	31	j		6
267278	6628-2619	6.63E+08	WW	Qpah	5	19/10/2011	5	206683	1	INV		2.5		19/10/2011					271839.56	6142608.25	54	138	30	17.949	34	49	59.758	138.5049859	34.833266	-34.833266	PORT ADEL	D86398	A40	CT 6087 69	SI5409	6628	3	31	j		6
267590	6628-2620	6.63E+08	WW	Qpah	3.5	3/12/2011	3.5	207613	0.5	INV		0.96		3/12/2011					271763.13	6143530.1	54	138	30	15.846	34	49	29.798	138.5044016	34.8249438	-34.8249438	PORT ADEL	D75123	A301	CT 6028 53	SI5409	6628	3	31	h		6
267591	6628-2620	6.63E+08	WW	Qpah	3.5	3/12/2011	3.5	207612	0.5	INV		1.1		3/12/2011					271761.01	6143473.19	54	138	30	15.707	34	49	31.641	138.5043629	34.825456	-34.825456	PORT ADEL	D75123	A301	CT 6028 53	SI5409	6628	3	31	j		1
267592	6628-2621	6.63E+08	WW	Qpah	3.5	3/12/2011	3.5	207611	0.5	INV		1.2		3/12/2011					271752.23	6143495.29	54	138	30	15.383	34	49	30.918	138.504273	34.8252549	-34.8252549	PORT ADEL	D75123	A301	CT 6028 53	SI5409	6628	3	31	j		1
267593	6628-2621	6.63E+08	WW	Qpah	3.5	3/12/2011	3.5	207610	0.5	INV		1.1		3/12/2011					271742.85	6143528.89	54	138	30	15.047	34	49	29.821	138.5041797	34.8249502	-34.8249502	PORT ADEL	D75123	A301	CT 6028 53	SI5409	6628	3	31	h		6
267594	6628-2621	6.63E+08	WW	Qpah	3.5	3/12/2011	3.5	207609	3.5	INV		1.1		3/12/2011					271685.32	6143535.25	54	138	30	12.79	34	49	29.568	138.5035529	34.82488	-34.82488	PORT ADEL	D75123	A301	CT 6028 53	SI5409	6628	3	31	h		6
267601	6628-2621	6.63E+08	WW	Qpah	3.5	2/12/2011	3.5	207608	0.5	INV		0.96		2/12/2011					271695.5	6143461.8	54	138	30	13.119	34	49	31.958	138.5036441	34.8255439	-34.8255439	PORT ADEL	D75123	A301	CT 6028 53	SI5409	6628	3	31	j		1
267602	6628-2621	6.63E+08	WW	Qpah	3.5	2/12/2011	3.5	207607	0.5	INV		1.1		2/12/2011					271681.69	6143499.83	54	138	30	12.613	34	49	30.714	138.5035036	34.8251983	-34.8251983	PORT ADEL	D75123	A301	CT 6028 53	SI5409	6628	3	31	j		1
267603	6628-2621	6.63E+08	WW	Qpah	3.5	2/12/2011	3.5	207606	0.5	INV		1.1		2/12/2011					271671.03	6143458.17	54	138	30	12.153	34	49	32.056	138.5033758	34.8255711	-34.8255711	PORT ADEL	D75123	A301	CT 6028 53	SI5409	6628	3	31	j		1
267604	6628-2621	6.63E+08	WW	Qpah	3.5	1/12/2011	3.5	207605	0.5	INV		0.96		1/12/2011					271648.02	6143460.83	54	138	30	11.251	34	49	31.951	138.5031252	34.825542	-34.825542	PORT ADEL	D75123	A301	CT 6028 53	SI5409	6628	3	31	j		1
267605	6628-2621	6.63E+08	WW	Qpah	3.5	1/12/2011	3.5	207604	0.5	INV		1.14		1/12/2011					271643.91	6143438.31	54	138	30	11.067	34	49	32.678	138.5030741	34.825744	-34.825744	PORT ADEL	D75123	A301	CT 6028 53	SI5409	6628	3	31	j		1
267606	6628-2621	6.63E+08	WW	Qpah	3.5	1/12/2011	3.5	207603	0.5	INV		0.97		1/12/2011					271619.2	6143492.32	54	138	30	10.148	34	49	30.907	138.5028189	34.8252519	-34.8252519	PORT ADEL	D75123	A301	CT 6028 53	SI5409	6628	3	31	j		1
267607	6628-2621	6.63E+08	WW	Qpah	3.5	1/12/2011	3.5	207602	0.5	INV		1.16		1/12/2011					271535.64	6143495.71	54	138	30	6.865	34	49	30.729	138.5019069	34.8252025	-34.8252025	PORT ADEL	D84774	A290	CT 6065 4	SI5409	6628	3	31	j		1
267610	6628-2622	6.63E+08	WW	Qpah	5.1	20/02/2012	5.1	213360		INV	BKF								273454.2	6144208.07	54	138	31	23.015	34	49	9.169	138.5230597	34.8192136	-34.8192136	PORT ADEL	D92972	A112	CT 6151 19	SI5409	6628	3	31	h		4
267613	6628-2622	6.63E+08	WW	Qpah	4	2/03/2012	4	213358		INV	BKF								273457.13	6144109.83	54	138	31	23.035	34	49	12.357	138.5230652	34.8200992	-34.8200992	PORT ADEL	D92972	A112	CT 6151 19	SI5409	6628	3	31	h		4
267614	6628-2622	6.63E+08	WW	Qpah	5.1	2/03/2012	5.1	213357		INV	BKF								273402.07	6144084.23	54	138	31	20.844	34	49	13.144	138.5224568	34.8203177	-34.8203177	PORT ADEL	D92972	A112	CT 6151 19	SI5409	6628	3	31	h		4
269309	6628-2631	6.63E+08	WW	Qpah	11.9	10/08/2010	11.9	193350	9.75	INV									271770.1	6143151.7	54	138	30	15.749	34	49	42.076	138.5043748	34.8283544	-34.8283544	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j		1
269310	6628-2631	6.63E+08	WW	Qpah	4	10/11/2010	4	193380	1	INV		1.7		10/11/2010					271747.3	6142933.92	54	138	30	14.639	34	49	49.121	138.5040665	34.8303113	-34.8303113	PORT ADELAIDE				SI5409	6628	3	31	j		1
269311	6628-2631	6.63E+08	WW	Qpah	4	10/06/2010	4	193360	3	INV		0.9		10/06/2010					271635.34	6143133.9	54	138	30	10.432	34	49	42.544	138.5028977	34.8284845	-34.8284845	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j		1
269312	6628-2631	6.63E+08	WW	Qpah	11.9	10/08/2010	11.9	193351	11.9	INV		2.1		10/08/2010					271469.3	6143431.51	54	138	30	4.193	34	49	32.758	138.5011646	34.825766	-34.825766	PORT ADEL	D84774	A290	CT 6065 4	SI5409	6628	3	31	j		1
269325	6628-2631	6.63E+08	WW	Qpah	10	6/10/2010	10	193365	7.5	INV		0.9		6/10/2010					271635.59	6143132.58	54	138	30	10.44	34	49	42.587	138.5029	34.8284964	-34.8284964	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j		1
269326	6628-2632	6.63E+08	WW	Qpah	4.6	7/10/2010	4.6	193375	1.6	INV		2.7		7/10/2010					271898.8	6143278.35	54	138	30	20.935	34	49	38.072	138.5058154	34.8272422	-34.8272422	PORT ADEL	D87823	A205	CT 6146 57	SI5409	6628	3	31	j		1
269327	6628-2632	6.63E+08	WW	Qpah	4	11/10/2010	4	193379	1	INV		1.7		11/10/2010					271750.2	6142953.1	54	138	30	14.772	34	49	48.501	138.5041034	34.8301391	-34.8301391	PORT ADELAIDE				SI5409	6628	3	31	j		1
269328	6628-2632	6.63E+08	WW	Qpah	4.5	10/10/2010	4.5	193378	1	INV		1.6		10/10/2010					271756.65	6142985.18	54	138	30	15.057	34	49	47.466	138.5041826	34.8298516	-34.8298516	PORT ADELAIDE				SI5409	6628	3	31	j		1
269329	6628-2632	6.63E+08	WW	Qpah	5	10/10/2010	5	193377	5	INV		2.2		10/10/2010					271779.25	6143083.83	54	138	30	16.043	34	49	44.285	138.5044563	34.828968	-34.828968	PORT ADELAIDE				SI5409	6628	3	31	j		1
269330	6628-2632	6.63E+08	WW	Qpah	4.6	7/10/2010	4.6	193374	1.6	INV		2.6		7/10/2010					271887.7	6143278.57	54	138	30	20.499	34	49	38.056	138.5056941	34.8272377	-34.8272377	PORT ADEL	D87823	A205	CT 6146 57	SI5409	6628	3	31	j		1
269331	6628-2632	6.63E+08	WW	Qpah	4	9/10/2010	4	193372	2.9	INV		0.5		9/10/2010					271633.21	6143099.08	54	138	30	10.314	34	49	43.672	138.5028649	34.8287977	-34.8287977	PORT ADELAIDE				SI5409	6628	3	31	j		1
269332	6628-2632	6.63E+08	WW	Qpah	5.6	9/10/2010	5.6	193373	4.9	INV									271634.42	6143099.36	54	138	30	10.362	34	49	43.664	138.5028782	34.8287955	-34.8287955	PORT ADELAIDE				SI5409	6628	3	31	j		1
269333	6628-2632	6.63E+08	WW	Qpah	4.1	9/10/2010	4.1	193369	4.1	INV									271638.31	6143097.57	54	138	30	10.513	34	49	43.725	138.5029202	34.8288125	-34.8288125	PORT ADELAIDE				SI5409	6628	3	31	j		1
269334	6628-2632	6.63E+08	WW	Qpah	4	9/10/2010	4	193370	0.4	INV									271630.19	6143102.37	54	138	30	10.198	34	49	43.563	138.5028328	34.8287675	-34.8287675	PORT ADELAIDE				SI5409	6628	3	31	j		1
269335	6628-2632	6.63E+08	WW	Qpah	5	7/10/2010	5	193376	2	INV									271909.66	6143278.28	54	138	30	21.362	34	49	38.083	138.505934	34.8272453	-34.8272453	PORT ADEL	D87823	A205	CT 6146 57	SI5409	6628	3	31	j		1
269464	6628-2633	6.63E+08	WW	Qpah	5	12/10/2011	5	206296	1	INV		2		12/10/2011					271657.69	6144150.23	54	138	30	12.3	34	49	9.6	138.5034167	34.8193333	-34.8193333	PORT ADEL	F4994	A16	CT 5431 30	SI5409	6628	3	31	h		6
269465	6628-2633	6.63E+08	WW	Qpah	5	12/10/2011	5	206297	1	INV		2		12/10/2011					271722.83	6144087.1	54	138	30	14.8	34	49	11.7	138.5041111	34.8199167	-34.8199167	PORT ADEL	F4994	A16	CT 5431 30	SI5409	6628	3	31	h		6
269466	6628-2633	6.63E+08	WW	Qpah	5	12/10/2011	5	206298	1	INV		2		12/10/2011					271683.64	6144129.29	54	138	30	13.3	34	49	10.3	138.5036944	34.8195278	-34.8195278	PORT ADEL	F4994	A16	CT 5431 30	SI5409	6628	3	31	h		6
269467	6628-2633	6.63E+08	WW	Qpah	5	12/10/2011	5	206299	1	INV		2		12/10/2011					271707.5	6144089.8	54	138	30	14.2	34	49	11.6	138.5039444	34.8198889	-34.8198889	PORT ADEL	F4994	A16	CT 5431 30	SI5409	6628	3	31	h		6
269468	6628-2633	6.63E+08	WW	Qpah	5	12/10/2011	5	206300	1	INV		2		12/10/2011					271628.5	6144097.08	54	138	30	11.1	34	49	11.3	138.5030833	34.8198056	-34.8198056	PORT ADEL	F4994	A16	CT 5431 30	SI5409	6628	3	31	h		6

Groundwater Data Report 2km

269869	6628-2635	6.63E+08	ENG	Qpah	18.5	9/05/2012	18.5	211897			BKF								271929.68	6142446.77	54	138	30	21.33	34	50	5.068	138.505925	34.834741	-34.834741	PORT ADEL	D86398	A45	CT 6126 85	SI5409	6628	3	31	j	6
269870	6628-2636	6.63E+08	ENG	Qpah	20	8/05/2012	20	211732			BKF								271791.18	6142822.72	54	138	30	16.25	34	49	52.763	138.504514	34.831323	-34.831323	PORT ADEL	D491	A27	CT 6053 76	SI5409	6628	3	31	j	6
270222	6628-2640	6.63E+08	WW	Qpah	2.6	6/10/2010	2.6	193357	2	INV									271635.04	6143135.38	54	138	30	10.421	34	49	42.496	138.5028948	34.8284711	-34.8284711	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j	1
270223	6628-2640	6.63E+08	WW	Qpah	2.4	9/10/2010	2.4	193371	0.7	INV		0.6		9/10/2010					271632.03	6143098.83	54	138	30	10.267	34	49	43.679	138.502852	34.8287997	-34.8287997	PORT ADELAIDE				SI5409	6628	3	31	j	1
270224	6628-2640	6.63E+08	WW	Qpah	2.4	10/10/2010	2.4	193366	2	INV		0.6		10/10/2010					271628.07	6143097.89	54	138	30	10.11	34	49	43.706	138.5028084	34.8288073	-34.8288073	PORT ADELAIDE				SI5409	6628	3	31	j	1
270225	6628-2640	6.63E+08	WW	Qpah	4.2	9/10/2010	4.2	193368	3.2	INV		0.6		9/10/2010					271630.12	6143098.35	54	138	30	10.191	34	49	43.693	138.502831	34.8288036	-34.8288036	PORT ADELAIDE				SI5409	6628	3	31	j	1
270226	6628-2640	6.63E+08	WW	Qpah	2.5	10/10/2010	2.5	193367	2.15	INV		0.6		10/10/2010					271629.05	6143098.08	54	138	30	10.149	34	49	43.701	138.5028192	34.8288058	-34.8288058	PORT ADELAIDE				SI5409	6628	3	31	j	1
270227	6628-2640	6.63E+08	WW	Qpah	2.4	6/10/2010	2.4	193353	1.5	INV		1		6/10/2010					271634.69	6143137.1	54	138	30	10.409	34	49	42.44	138.5028914	34.8284556	-34.8284556	PORT ADEL	F4493	A31	CT 6065 6	SI5409	6628	3	31	j	1
270336	6628-2641	6.63E+08	WW	Qpah	5	25/05/2012	5	212210		INV									271843.71	6142803.12	54	138	30	18.303	34	49	53.441	138.5050843	34.8315113	-34.8315113	PORT ADEL	D491	A46	CT 5695 61	SI5409	6628	3	31	j	6
270337	6628-2641	6.63E+08	WW	Qpah	5	25/05/2012	5	212211		INV									271848.54	6142809.36	54	138	30	18.499	34	49	53.242	138.5051387	34.8314562	-34.8314562	PORT ADEL	D491	A47	CT 5695 61	SI5409	6628	3	31	j	6
270338	6628-2641	6.63E+08	WW	Qpah	5	25/05/2012	5	212209		INV									271837.74	6142807.82	54	138	30	18.073	34	49	53.283	138.5050203	34.8314676	-34.8314676	PORT ADEL	D491	A46	CT 5695 61	SI5409	6628	3	31	j	6
270340	6628-2641	6.63E+08	WW	Qpah	5	25/05/2012	5	212214		INV									271792.96	6142820.73	54	138	30	16.324	34	49	52.829	138.5045346	34.8313413	-34.8313413	PORT ADEL	D491	A27	CT 6053 76	SI5409	6628	3	31	j	6
270341	6628-2641	6.63E+08	WW	Qpah	5	23/05/2012	5	212213		INV									271785.34	6142819.52	54	138	30	16.024	34	49	52.862	138.504451	34.8313505	-34.8313505	PORT ADEL	D491	A27	CT 6053 76	SI5409	6628	3	31	j	6
270342	6628-2641	6.63E+08	WW	Qpah	6	23/05/2012	6	212212		INV									271777.61	6142818.37	54	138	30	15.718	34	49	52.893	138.5043662	34.8313591	-34.8313591	PORT ADEL	D491	A25	CT 6053 76	SI5409	6628	3	31	j	6
272931	6628-2663	6.63E+08	WW	Qpah				212036			BKF								271943.03	6144826.25	54	138	30	24.189	34	48	47.905	138.5067191	34.8133069	-34.8133069	PORT ADEL	C28597			SI5409	6628	3	31	h	1
272932	6628-2663	6.63E+08	WW	Qpah				212037			BKF								271889.67	6144826.25	54	138	30	22.09	34	48	47.862	138.5061362	34.8132949	-34.8132949	PORT ADEL	D90694	A507	CT 6107 39	SI5409	6628	3	31	h	1
272933	6628-2663	6.63E+08	WW	Qpah				212039			BKF								271889.67	6144903.11	54	138	30	22.165	34	48	45.369	138.5061571	34.8126025	-34.8126025	PORT ADELAIDE				SI5409	6628	3	31	h	1
274741	6628-2677	6.63E+08	WW	Qpah	4	6/02/2013	4	219166	1	INV		2.8		6/02/2013					271495.83	6142717.26	54	138	30	4.536	34	49	55.944	138.50126	34.8322068	-34.8322068	PORT ADEL	D92766	A750	CT 6124 46	SI5409	6628	3	31	j	6
274742	6628-2678	6.63E+08	WW	Qpah	4	6/02/2013	4	219164	4	INV		2.8		6/02/2013					271491.84	6142670.71	54	138	30	4.333	34	49	57.451	138.5012037	34.8326252	-34.8326252	PORT ADEL	D92766	A750	CT 6124 46	SI5409	6628	3	31	j	6
274743	6628-2678	6.63E+08	WW	Qpah	4	6/02/2013	4	219165	1	INV		2.8		6/02/2013					271449.41	6142669.29	54	138	30	2.663	34	49	57.462	138.5007397	34.8326285	-34.8326285	PORT ADEL	D92766	A751	CT 6124 46	SI5409	6628	3	31	j	6
274935	6628-2683	6.63E+08	WW	Qpah	3.5	27/11/2012	3.5	218198	3.5	INV		1		27/11/2012					271569.85	6143482.55	54	138	30	8.197	34	49	31.184	138.502277	34.8253288	-34.8253288	PORT ADEL	D84774	A290	CT 6065 4	SI5409	6628	3	31	j	1
274936	6628-2683	6.63E+08	WW	Qpah	3.5	27/11/2012	3.5	218199	0.5	INV		1.1		27/11/2012					271760.63	6143555.18	54	138	30	15.772	34	49	28.982	138.5043811	34.8247173	-34.8247173	PORT ADEL	D75123	A301	CT 6028 53	SI5409	6628	3	31	h	6
274937	6628-2683	6.63E+08	WW	Qpah	3.5	28/11/2012	3.5	218200	0.5	INV		0.9		28/11/2012					271800.77	6143559.5	54	138	30	17.355	34	49	28.874	138.5048208	34.8246873	-34.8246873	PORT ADELAIDE				SI5409	6628	3	31	h	6
274938	6628-2683	6.63E+08	WW	Qpah	5	12/11/2012	5	217595	1	INV		1.7		12/11/2012					271980.94	6144066.99	54	138	30	24.937	34	49	12.56	138.506927	34.8201556	-34.8201556	PORT ADELAIDE				SI5409	6628	3	31	h	6
274939	6628-2683	6.63E+08	WW	Qpah	4	12/11/2012	4	217596	1			1.8		12/11/2012					271981.79	6144018.94	54	138	30	24.924	34	49	14.12	138.5069232	34.8205888	-34.8205888	PORT ADELAIDE				SI5409	6628	3	31	h	6
274940	6628-2683	6.63E+08	WW	Qpah	5	13/11/2012	5	217597	1	INV		3.09		13/11/2012					272002.02	6143952.36	54	138	30	25.654	34	49	16.296	138.5071261	34.8211932	-34.8211932	PORT ADEL	D75708	A13	CT 6007 76	SI5409	6628	3	31	h	6
274941	6628-2684	6.63E+08	WW	Qpah	5	13/11/2012	5	217598	1	INV		2.9		13/11/2012					272037.42	6143990.29	54	138	30	27.083	34	49	15.094	138.5075232	34.8208593	-34.8208593	PORT ADEL	D75708	A13	CT 6007 76	SI5409	6628	3	31	h	6
274942	6628-2684	6.63E+08	WW	Qpah	5	13/11/2012	5	217599	1	INV		2.9		13/11/2012					272081.24	6143970.9	54	138	30	28.788	34	49	15.758	138.5079966	34.8210439	-34.8210439	PORT ADEL	D75708	A13	CT 6007 76	SI5409	6628	3	31	h	6
277906	6628-2707	6.63E+08	WW	Qpah	5	25/09/2013	5	221952	1	INV		2.2		25/09/2013					272135.47	6143920.28	54	138	30	30.871	34	49	17.443	138.5085753	34.8215121	-34.8215121	PORT ADEL	D87823	A201	CT 6145 88	SI5409	6628	3	31	h	5
277907	6628-2707	6.63E+08	WW	Qpah	5	25/09/2013	5	221953	1	INV		2.2		25/09/2013					272093.43	6143822.19	54	138	30	29.122	34	49	20.591	138.5080894	34.8223863	-34.8223863	PORT ADEL	D87823	A201	CT 6145 88	SI5409	6628	3	31	h	6
278499	6628-2711	6.63E+08	WW	Qpah	5	18/06/2012	5	212627	2	INV		2.65		18/06/2012					272517	6143563	54	138	30	45.528	34	49	29.338	138.5126466	34.8248161	-34.8248161	PORT ADEL	D73873	A5	CT 6191 73	SI5409	6628	3	31	h	5
279204	6628-2718	6.63E+08	WW	Qpah	9.5	21/01/2014	9.5	218954	0.5	INV		9.5		21/01/2014					272206.63	6143957.31	54	138	30	33.7	34	49	16.3	138.5093611	34.8211944	-34.8211944	PORT ADEL	D87823	A201	CT 6145 88	SI5409	6628	3	31	h	5
279205	6628-2718	6.63E+08	WW	Qpah	11	20/01/2014	11	218955	1	INV		3.6		20/01/2014					272015.44	6143977.22	54	138	30	26.2	34	49	15.5	138.5072778	34.8209722	-34.8209722	PORT ADEL	D75708	A13	CT 6007 76	SI5409	6628	3	31	h	6
279272	6628-2719	6.63E+08	WW	Qpah	4	24/05/2013	4	221107	1	INV		3.3		24/05/2013					271819.58	6143042.23	54	138	30	17.588	34	49	45.666	138.5048857	34.8293517	-34.8293517	PORT ADEL	D87823	A205	CT 6146 57	SI5409	6628	3	31	j	1
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280421	6628-2737	6.63E+08	WW	Qpah	4.5	28/03/2014	4.5	230700	1	INV									271929.58	6142612.47	54	138	30	21.494	34	49	59.693	138.5059707	34.8332481	-34.8332481	PORT ADEL	D86398	A45	CT 6126 85	SI5409	6628	3	31	j	6
280422	6628-2737	6.63E+08	WW	Qpah			4.5	230701	1	INV									271924.8	6142465.91	54	138	30	21.163	34	50	4.443	138.5058786	34.8345675	-34.8345675	PORT ADEL	D86398	A45	CT 6126 85	SI5409	6628	3	31	j	6
280426	6628-2737	6.63E+08	WW	Qpah	4.5	27/03/2014	4.5	230702	1	INV									271930.74	6142409.62	54	138	30	21.341	34	50	6.273	138.5059282	34.8350759	-34.8350759	PORT ADEL	D86398	A45	CT 6126 85	SI5409	6628	3	31	j	6
280427	6628-2738	6.63E+08	WW	Qpah	4.5	27/03/2014	4.5	230704	1										271923.26	6142834.03	54	138	30	21.463	34	49	52.503	138.5059618	34.8312507	-34.8312507	PORT ADEL	F999	A1	CT 5695 61	SI5409	6628	3	31	j	6
284504	6628-2764	6.63E+08	WW	Qpah	4.5	27/03/2014	4.5	230703	1	INV		1.9		27/03/2014					271942.21	6142838.37	54	138	30	22.212	34	49	52.377	138.5061701	34.8312158	-34.8312158	PORT ADEL	D86398	A45	CT 6126 85	SI5409	6628	3	31	j	1
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284521	6628-2765	6.63E+08	WW	Qpah	20	11/03/2015	20	243534	1	INV		2		11/03/2015					271530.85	6142913.76	54	138	30	6.1	34	49	49.6	138.5016944	34.8304444	-34.8304444	PORT ADEL	F4542	A38	CT 5841 73	SI5409	6628	3	31	j	1
285066	6628-2775	6.63E+08	WW	Qpah	20	30/03/2015	20	244487		INV	BKF								271662.32	6143351.77	54	138	30	11.7	34	49	35.5	138.50325	34.8265278	-34.8265278	PORT ADEL	D75123	A301	CT 6028 53	SI5409	6628	3	31	j	1
285481	6628-2786	6.63E+08	WW	Qpah	4	7/05/2015	4	244820	1			1.7		7/05/2015					271987.05	6144006.27	54	138	30	25.118	34	49	14.535	138.5069773	34.8207041	-34.8207041	PORT ADELAIDE				SI5409	6628	3	31	h	6
285482	6628-2786	6.63E+08	WW	Qpah	5	7/05/2015	5	244821	1	INV		2.97		7/05/2015					272040.24	6143984.69	54	138	30	27.189	34	49	15.278	138.5075525	34.8209104	-34.8209104	PORT ADEL	D75708	A13	CT 6007 76	SI5409	6628	3	31	h	6
285483	6628-2786	6.63E+08	WW	Qpah	5	8/05/2015	5	244822	5	INV		2.9		8/05/2015					272078.76	6143959.65	54	138	30	28.679	34	49	16.121	138.5079665	34.8211446	-34.8211446	PORT ADEL	D75708	A13	CT 6007 76	SI5409	6628	3	31	h	6
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287320	6628-2797	6.63E+08	WW	Qpah	4.5	25/08/2015	4.5	251670	1	INV		3.3		25/08/2015					271829	6143391	54	138	30	18.3	34	49	34.362	138.5050834	34.8262117	-34.8262117	PORT ADELAIDE				SI5409	6628	3	31	j	1
287321	6628-2798	6.63E+08	WW	Qpah	3.7	27/08/2015	3.7	251686	1	INV		2.99		27/08/2015					271837	6143396	54	138	30	18.62	34	49	34.206	138.5051722	34.8261685	-34.8261685	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	j	1
287322	6628-2798	6.63E+08	WW	Qpah	4	24/08/2015	4	251671	1	INV		2.7		24/08/2015					271856	6143598	54	138	30	19.565	34	49	27.67	138.5054346	34.8243529	-34.8243529	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	h	6
287323	6628-2798	6.63E+08	WW	Qpah	4.7	25/08/2015	4.7	251672	1.65	INV		2.86		25/08/2015					271889	6143586	54	138	30	20.851	34	49	28.086	138.5057919	34.8244684	-34.8244684	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	h	6
287324	6628-2798	6.63E+08	WW	Qpah	4.5	25/08/2015	4.5	251674	1.5			3.19		25/08/2015					271928	6143562	54	138	30	22.361	34	49	28.896	138.5062115	34.8246933	-34.8246933	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	h	6
287325	6628-2798	6.63E+08	WW	Qpah	4.5	24/08/2015	4.5	251675	2	INV		2.78		24/08/2015					271892	6143542	54	138	30	20.926	34	49	29.516	138.5058127	34.8248655	-34.8248655	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	h	6
287326	6628-2798	6.63E+08	WW	Qpah	4.5	24/08/2015	4.5	251676	2	INV		2.74		24/08/2015					271860	6143512	54	138	30	19.638	34	49	30.463	138.505455	34.8251286	-34.8251286	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	j	1
287328	6628-2798	6.63E+08	WW	Qpah	4.5	25/08/2015	4.5	251677	2	INV		2.76		25/08/2015				2.76	271899	6143482	54	138	30	21.142	34	49	31.467	138.5058729	34.8254076	-34.8254076	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	j	1
287329	6628-2798	6.63E+08	WW	Qpah	4	25/08/2015	4	251678											271834	6143411	54	138	30	18.516	34	49	33.718	138.5051435	34.8260327	-34.8260327	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	j	1
287330	6628-2798	6.63E+08	WW	Qpah	4	26/08/2015	4	251679	1.5	INV		2.47		26/08/2015					271387	6143401	54	138	30	0.926	34	49	33.681	138.5002572	34.8260224	-34.8260224	PORT ADELAIDE				SI5409	6628	3	31	j	1
287331	6628-2798	6.63E+08	WW	Qpah	4	26/08/2015	4	251680	1.5	INV									271800	6143365	54	138	30	17.134	34	49	35.182	138.5047595	34.8264394	-34.8264394	PORT ADELAIDE				SI5409	6628	3	31	j	1
287332	6628-2799	6.63E+08	WW	Qpah	4.2	26/08/2015	4.2	251681	1.5	INV		3.2		26/08/2015					271860	6143359	54	138	30	19.488	34	49	35.425	138.5054134	34.8265069	-34.8265069	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	j	1
287333	6628-2799	6.63E+08	WW	Qpah	4.5	26/08/2015	4.5	251682	1.5	INV		2.86		26/08/2015					271825	6143343	54	138	30	18.096	34	49	35.916	138.5050266	34.8266432	-34.8266432	PORT ADELAIDE				SI5409	6628	3	31	j	1
287334	6628-2799	6.63E+08	WW	Qpah	4.3	26/08/2015	4.3	251683	1.5	INV		2.84		26/08/2015					271819	6143326	54	138	30	17.843	34	49	36.462	138.5049565	34.8267951	-34.8267951	PORT ADELAIDE				SI5409	6628	3	31	j	1
287336	6628-2799	6.63E+08	WW	Qpah	4	24/08/2015	4	251684	1.5	INV		2.56		24/08/2015					271823	6143586	54	138	30	18.255	34	49	28.033	138.5050709	34.8244536	-34.8244536	PORT ADELAIDE				SI5409	6628	3	31	h	6
287337	6628-2799	6.63E+08	WW	Qpah	4.5	24/08/2015	4.5	251685	1.5	INV		2.48		24/08/2015					271823	6143586	54	138	30	18.255	34	49	28.033	138.5050709	34.8244536	-34.8244536	PORT ADELAIDE				SI5409	6628	3	31	h	6
289041	6628-2835	6.63E+08	WW	Qpah	5	22/02/2016	5	256709	1	INV		3.6		22/02/2016					272087.16	6146139.44	54	138	30	31.139	34	48	5.43	138.5086497	34.8015084	-34.8015084	PORT ADEL	D111812	A2	CT 6184 75	SI5409	6628	3	31	a	2
290389	6628-2860	6.63E+08	WW		4	17/10/2016	4	271687	1	INV		2		17/10/2016					272065	6143786	54	138	30	27.968	34	49	21.741	138.507769	34.822706	-34.822706	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	h	6
290390	6628-2860	6.63E+08	WW				4	271689	1	INV		2		17/10/2016					271921	6143723	54	138	30	22.243	34	49	23.669	138.5061787	34.8232413	-34.8232413	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	h	6
290391	6628-2861	6.63E+08	WW		4	17/10/2016	4	271690	1	INV		2		17/10/2016					271902	6143689	54	138	30	21.463	34	49	24.756	138.5059619	34.8235434	-34.8235434	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	h	6
290392	6628-2861	6.63E+08	WW		4	17/10/2016	4	271692	1	INV		2		17/10/2016					271959	6143669	54	138	30	23.685	34	49	25.451	138.5065792	34.8237363	-34.8237363	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	h	6
290393	6628-2861	6.63E+08	WW				4	271693	1	INV		2		19/10/2016					272018	6143666	54	138	30	26.003	34	49	25.596	138.507223	34.8237766	-34.8237766	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	h	6
290394	6628-2861	6.63E+08	WW		4	20/10/2016	4	271694	1	INV		2		20/10/2016					271940	6143601	54	138	30	22.871	34	49	27.641	138.5063532	34.8243447	-34.8243447	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	h	6
290395	6628-2861	6.63E+08	WW		4	20/10/2016	4	271697	1	INV		2		20/10/2016					271968	6143601	54	138	30	23.973	34	49	27.664	138.506659	34.824351	-34.824351	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	h	6
290396	6628-2861	6.63E+08	WW		4	20/10/2016	4	271698	1	INV		2		20/10/2016					271870	6143546	54	138	30	20.064	34	49	29.368	138.5055735	34.8248245	-34.8248245	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	h	6
290397	6628-2861	6.63E+08	WW		4	19/10/2016	4	271695	1	INV		2		19/10/2016					272084	6143745	54	138	30	28.676	34	49	23.087	138.5079654	34.8230796	-34.8230796	PORT ADEL	D87823	A201	CT 6145 88	SI5409	6628	3	31	h	6
290398	6628-2861	6.63E+08	WW		4	19/10/2016	4	271696	1	INV		2		19/10/2016					272071	6143690	54	138	30	28.111	34	49	24.86	138.5078085	34.8235722	-34.8235722	PORT ADEL	D87823	A201	CT 6145 88	SI5409	6628	3	31	h	6
290399	6628-2861	6.63E+08	WW		4	19/10/2016	4	271699	1	INV		2		19/10/2016					272052	6143654	54	138	30	27.328	34	49	26.012	138.5075911	34.8238922	-34.8238922	PORT ADEL	D87823	A201	CT 6145 88	SI5409	6628	3	31	h	6
290400	6628-2861	6.63E+08	WW				4	271700	1	INV		2		18/10/2016					272049	6143639	54	138	30	27.195	34	49	26.496	138.5075543	34.8240268	-34.8240268	PORT ADEL	D87823	A201	CT 6145 88	SI5409	6628	3	31	h	6
290401	6628-2862	6.63E+08	WW		4	18/10/2016	4	271701	1	INV		2		18/10/2016					272031	6143602	54	138	30	26.451	34	49	27.682	138.5073476	34.8243561	-34.8243561	PORT ADEL	D87823	A201	CT 6145 88	SI5409	6628	3	31	h	6
290402	6628-2862	6.63E+08	WW		4	18/10/2016	4	274262	1	INV		2		18/10/2016					272028	6143585	54	138	30	26.317	34	49	28.231	138.5073102	34.8245085	-34.8245085	PORT ADEL	D87823	A201	CT 6145 88	SI5409	6628	3	31	h	6
292694	6628-2876	6.63E+08	WW		3.5	11/04/2017	3.5	281163	0.5	INV									272835	6142853	54	138	30	57.343	34	49	52.621	138.5159286	34.8312837	-34.8312837	PORT ADEL	D57832	A42	CT 5880 84	SI5409	6628	3	31	j	5
292695	6628-2876	6.63E+08	WW		3.5	11/04/2017	3.5	281163	0.5	INV									272835	6142853	54	138	30	57.343	34	49	52.621	138.5159286	34.8312837	-34.8312837	PORT ADEL	D57832	A42	CT 5880 84	SI5409	6628	3	31	j	5
292935	6628-2876	6.63E+08	WW		3.5	11/04/2017	3.5	281162	0.5	INV									272835	6142805	54	138	30	57.296	34	49	54.178	138.5159156	34.8317162	-34.8317162	PORT ADEL	D57832	A42	CT 5880 84	SI5409	6628	3	31	j	5
293711	6628-2877	6.63E+08	WW				5	244823	5			1.9		8/05/2015					272118.18	6143872.32	54	138	30	30.144	34	49	18.985	138.5083734	34.8219402	-34.8219402	PORT ADEL	D87823	A201	CT 6145 88	SI5409	6628	3	31	h	5
293874	6628-2878	6.63E+08	WW		6	22/12/2016	6	279464	1	INV									271408.27	6145934.93	54	138	30	4.246	34	48	11.516	138.5011793	34.8031988	-34.8031988	PORT ADEL	D18182	A2	CT 5454 40	SI5409	6628	3	31	a	1
300416	6628-2905	6.63E+08	WW		3.5	1/08/2017	3.5	291205	0.5	ENV									271962.64	6143626.1	54	138	30	23.786	34	49	26.845	138.5066073	34.8241236	-34.8241236	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	h	6
300417	6628-2905	6.63E+08	WW		3.5	1/08/2017	3.5	291207	0.5	ENV									271994.68	6143612.73	54	138	30	25.033	34	49	27.304	138.5069537	34.8242512	-34.8242512	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	h	6
300418	6628-2905	6.63E+08	WW		4	2/08/2017	4	291209	1	ENV									271957.76	6143784.75	54	138	30	23.75	34	49	21.695	138.5065971	34.8226932	-34.8226932	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	h	6
300419	6628-2905	6.63E+08	WW		3.5	1/08/2017	3.5	291206	0.5	ENV									271983.17	6143626.19	54	138	30	24.594	34	49	26.859	138.5068316	34.8241274	-34.8241274	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	h	6
300420	6628-2905	6.63E+08	WW		3.5	2/08/2017	3.5	291210	0.5	ENV									272027.54	6143616.54	54	138	30	26.329	34	49	27.208	138.5073137	34.8242243	-34.8242243	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	h	6
300421	6628-2905	6.63E+08	WW		4.5	2/08/2017	4.5	291211	1.5	ENV									272011.21	6143579.21	54	138	30	25.651	34	49	28.405	138.5071252	34.824557	-34.824557	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	h	6
300422	6628-2906	6.63E+08	WW		4	1/08/2017	4	291208	1	ENV									271978.73	6143573.04	54	138	30	24.367	34	49	28.579	138.5067687	34.8246053	-34.8246053	PORT ADEL	D87823	A202	CT 6145 89	SI5409	6628	3	31	h	6
300627	6628-2911	6.63E+08	WW		5	20/09/2017	5	293408		ENV									272708	6143477	54	138	30	52.956	34	49	32.281	138.51471	34.8256336	-34.8256336	PORT ADEL	D114695	A502	CT 6187 48	SI5409	6628	3	31	j	2
300652	6628-2911	6.63E+08	WW		5	20/09/2017	5	293409		ENV									272671	6143437	54	138	30	51.462	34	49	33.548	138.5142949	34.8259857	-34.8259857	PORT ADEL	D57714	A33	CT 6119 10	SI5409	6628	3	31	j	2
300653	6628-2911	6.63E+08	WW		5	19/09/2017	5	293405		ENV									272638	6143571	54	138	30	50.294	34	49	29.176	138.5139707	34.8247711	-34.8247711	PORT ADEL	D73873	A7	CT 6002 59	SI5409	6628	3	31	h	5
300654	6628-2911	6.63E+08	WW		5	20/09/2017	5	293407		ENV									272696	6143526	54	138	30	52.532	34	49	30.682	138.5145921	34.8251895	-34.8251895	PORT ADEL	D114695	A502	CT 6187 48	SI5409	6628	3	31	j	2
300655	6628-2912	6.63E+08	WW		5	19/09/2017	5	293404		ENV									272670	6143616	54	138	30	51.597	34	49	27.742	138.5143325	34.8243729	-34.8243729	PORT ADEL	D73873	A7	CT 6002 59	SI5409	6628	3	31	h	5
300749	6628-2912	6.63E+08	WW		5	19/09/2017	5	293406		ENV									272617	6143502	54	138	30	49.401	34	49	31.397	138.5137226	34.825388	-34.825388	PORT ADEL	D73873	A7	CT 6002 59	SI5409	6628	3	31	j	2
300750	6628-2912	6.63E+08	WW		5	19/09/2017	5	293406		ENV									272617	6143502	54	138	30	49.401	34	49	31.397	138.5137226	34.825388	-34.825388	PORT ADEL	D73873	A7	CT 6002 59	SI5409	6628	3	31	j	2
300774	6628-2912	6.63E+08	WW		6	30/08/2017	6	292902	3	INV		2.2		30/08/2017					271940.35	6143352.11	54	138	30	22.642	34	49	35.713	138.5062893	34.826587	-34.826587	PORT ADEL	D87823	A201	CT 6145 88	SI5409	6628	3	31	j	1
300775	6628-2912	6.63E+08	WW		6	30/08/2017	6	292903	1.5	INV		2.2		30/08/2017					271938.24	6143334.65	54	138	30	22.542	34	49	36.278	138.5062615	34.8267439	-34.8267439	PORT ADEL	D87823	A201	CT 6145 88	SI5409	6628	3	31	j	1
300776	6628-2912	6.63E+08	WW		6	30/08/2017	6	292904	1.5	INV		2.2		30/08/2017					271971.58	6143460.59	54	138	30	23.976	34	49	32.22	138.50666	34.8256167	-34.8256167	PORT ADEL	D87823	A201	CT 6145 88	SI5409	6628	3	31	j	1
300777	6628-2912	6.63E+08	WW		6	30/08/2017	6	292905	1.5	INV									271867.33	6143306.6	54	138	30	19.725	34	49	37.13	138.5054792	34.8269806	-34.8269806	PORT ADEL	D87823	A205	CT 6146 57	SI5409	6628	3	31	j	1
304051	6628-2922	6.63E+08	WW		3.5	21/09/2017	3.5	293573	0.5	INV		1.1		21/09/2017					271828.24	6143649.97	54	138	30	18.524	34	49	25.962	138.5051455	34.8238785	-34.8238785	PORT ADEL	F4493	A23	CT 6030 36	SI5409	6628	3	31	h	6
306564	6628-2936	6.63E+08	WW		20	20/02/2018	20	301754		INV									271569	6143059	54	138	30	7.749	34	49	44.92	138.5021525	34.8291445	-34.8291445	PORT ADEL	D70924	A2	CT 6040 73	SI5409	6628	3	31	j	1
306565	6628-2936	6.63E+08	WW		20	21/02/2018	20	301753		INV									271610	6143042	54	138	30	9.345	34	49	45.504	138.5025958	34.8293068	-34.8293068	PORT ADEL	D70924	A2	CT 6040 73	SI5409	6628	3	31	j	1
306566	6628-2936	6.63E+08	WW		20	22/02/2018	20	301752		INV									271504	6143038	54	138	30	5.172	34	49	45.549	138.5014366	34.8293191	-34.8293191	PORT ADEL	D70924	A2	CT 6040 73	SI5409	6628	3	31	j	1
306567	6628-2936	6.63E+08	WW		20	23/02/2018	20	301751		INV									271527	6143021	54	138	30	6.06	34	49	46.118	138.5016833	34.8294774	-34.8294774	PORT ADEL	D70924	A2	CT 6040 73	SI5409	6628	3	31	j	1
313510	6628-2976	6.63E+08	WW		5.2	28/08/2018	5.2	330159	1	INV									271405.05	6145919.59	54	138	30	4.104	34	48	12.01	138.50114	34.8033362	-34.8033362	PORT ADEL	D3411	A16	CT 5677 48	SI5409	6628	3	31	a	1

Appendix D – Well Permits

GOVERNMENT OF SOUTH AUSTRALIA

DEPARTMENT FOR ENVIRONMENT AND WATER

Mt Gambier Office | PO Box 1046 | Mt Gambier SA 5290 | [P] 8735 1134 [F] 8735 1135

PERMIT to undertake a WATER AFFECTING ACTIVITY

pursuant to section 135 of the *Natural Resources Management Act 2004*

WELL PERMIT

Subject to full compliance with all the procedures, specifications and limitations contained or referred to, in the conditions set out below,

Permit No:	340202
Expiry Date:	05/03/2020

Permission is hereby granted to: GHD PTY LTD
LEVEL 4, 211 VICTORIA SQUARE
ADELAIDE SA 5000
ACN 008 488 373

To undertake the following water affecting activity:

Activity: Well Construction and Backfill

Well Use: Investigation

CONDITIONS:

1. The activity authorised by this permit must only be undertaken on the land described below:

   CT 5808/458
   Allotment 9 in Filed Plan 4994
   Hundred of Port Adelaide

2. Well Construction must be in accordance with the General Specification for Well Construction, Modification and Abandonment in South Australia (or any subsequent or related policy), as provided by the relevant authority
3. The equipment, materials and methods used in drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, shall not adversely affect the quality of an underground water resource.
4. Aquifers shall be protected during drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, to prevent adverse impacts upon the integrity of the aquifer.
5. This work may be subject to inspection by the Department's Drilling Inspectors.
6. If this well is incidental/ancillary to mining operations authorised under the Mining Act 1971, or a regulated activity under the Petroleum and Geothermal Energy Act 2000 (Acts), the well must be decommissioned (as outlined in the Minimum Construction Requirements for Water Bores in Australia Third Edition) prior to the relinquishment of the licence or lease under the associated Acts, unless alternative formal arrangements can be made with the owner or occupier of the land on which the well is located subject to approval by the relevant Minister or the Minister's agent.
7. If the well is considered unsatisfactory, it may be abandoned and a replacement well may then be constructed provided that the abandoned well is backfilled prior to the drill rig leaving the site.

PERMIT to undertake a WATER AFFECTING ACTIVITY

pursuant to section 135 of the *Natural Resources Management Act 2004*

WELL PERMIT

8. Water samples are required from all wells drilled in respect of this permit.
9. Strata samples are not required.
10. The licensed well driller must forward with his report a plan obtained from the permit holder, who must mark thereon the location of all wells drilled in respect of this permit.
11. All wells must be drilled vertical unless written permission is obtained from the Minister.
12. All groundwater extracted during sampling and/or purging must be contained and disposed of in an appropriate manner to minimise risk to health and the environment.
13. A lithological log is to be submitted with the drillers well construction report from all wells drilled in respect of this permit in accordance with National Environmental Protection (assessment of Site Contamination) measure 1999.
14. Wells are to be backfilled when no longer required for ongoing monitoring and investigation purposes.
15. The well is not to penetrate beyond a depth of 15 metres unless approved by the Regional Hydrogeologist.
16. This permit authorises the construction of a well on the portion of road adjacent to the land parcel described above.
17. Due to known nearby soil/groundwater contamination in the sediments and aquifers above, caution should be taken in the drilling and/or cementing of this well(s).
18. The well must be backfilled immediately following the final water sample being taken.
19. The well must be backfilled from original depth to surface with cement or a Departmentally approved method

NOTES:

1. Under section 202(1)(b)(ii) of the Natural Resources Management Act 2004, you have a right of appeal to the Environment, Resources and Development Court against the imposition of any condition on this permit. The appeal must be instituted within six weeks of the date of permit issue. The appeal must also be served upon this department within that time.
2. This permit is not transferable.
3. This well construction permit is not an authorisation for a person to enter private property and prior authority must be obtained from the land owner in all circumstances.
4. The issue of this permit does not negate the requirement to comply with the provisions of other Acts that may impact on the activity undertaken pursuant to this permit.
5. This permit is not an approval to clear native vegetation.
6. It is recommended that all drilling equipment be decontaminated prior to construction of a new well or rehabilitation of an existing well to prevent the introduction or transfer of iron bacteria. Similar precautions should also be taken with pump installation equipment.
7. Due to potential land contamination issues it is recommended that a hydrogeological assessment be carried out to determine the long term prospects for groundwater quality and quantity with regard to the site and desired use.
8. This permit does not authorise the taking of water from the well for any purpose other than testing.

DEPARTMENT FOR ENVIRONMENT AND WATER

Mt Gambier Office | PO Box 1046 | Mt Gambier SA 5290 | [P] 8735 1134 [F] 8735 1135

PERMIT to undertake a WATER AFFECTING ACTIVITY

pursuant to section 135 of the *Natural Resources Management Act 2004*

WELL PERMIT

9. If the extracted groundwater supply is required for human consumption, it is recommended that the water be quality tested.

TAKE NOTE that the permit holder, or a person acting on behalf of the permit holder, who contravenes or fails to comply with a condition of this permit is guilty of an offence, and such acts or ommisions may result in the variation, suspension or revocation of the permit.

Date: 05/03/2019

David Williamson
Team Leader [South East]
Delegate of Minister for Environment and Water

GOVERNMENT OF SOUTH AUSTRALIA

DEPARTMENT FOR ENVIRONMENT AND WATER

Mt Gambier Office | PO Box 1046 | Mt Gambier SA 5290 | [P] 8735 1134 [F] 8735 1135

PERMIT to undertake a WATER AFFECTING ACTIVITY

pursuant to section 135 of the *Natural Resources Management Act 2004*

WELL PERMIT

Subject to full compliance with all the procedures, specifications and limitations contained or referred to, in the conditions set out below,

Permit No:	340203
Expiry Date:	05/03/2020

Permission is hereby granted to: GHD PTY LTD
LEVEL 4, 211 VICTORIA SQUARE
ADELAIDE SA 5000
ACN 008 488 373

To undertake the following water affecting activity:

Activity: Well Construction and Backfill

Well Use: Investigation

CONDITIONS:

1. The activity authorised by this permit must only be undertaken on the land described below:

   CT 5808/458
   Allotment 9 in Filed Plan 4994
   Hundred of Port Adelaide

2. Well Construction must be in accordance with the General Specification for Well Construction, Modification and Abandonment in South Australia (or any subsequent or related policy), as provided by the relevant authority
3. The equipment, materials and methods used in drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, shall not adversely affect the quality of an underground water resource.
4. Aquifers shall be protected during drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, to prevent adverse impacts upon the integrity of the aquifer.
5. This work may be subject to inspection by the Department's Drilling Inspectors.
6. If this well is incidental/ancillary to mining operations authorised under the Mining Act 1971, or a regulated activity under the Petroleum and Geothermal Energy Act 2000 (Acts), the well must be decommissioned (as outlined in the Minimum Construction Requirements for Water Bores in Australia Third Edition) prior to the relinquishment of the licence or lease under the associated Acts, unless alternative formal arrangements can be made with the owner or occupier of the land on which the well is located subject to approval by the relevant Minister or the Minister's agent.
7. If the well is considered unsatisfactory, it may be abandoned and a replacement well may then be constructed provided that the abandoned well is backfilled prior to the drill rig leaving the site.

PERMIT to undertake a WATER AFFECTING ACTIVITY

pursuant to section 135 of the *Natural Resources Management Act 2004*

WELL PERMIT

8. Water samples are required from all wells drilled in respect of this permit.
9. Strata samples are not required.
10. The licensed well driller must forward with his report a plan obtained from the permit holder, who must mark thereon the location of all wells drilled in respect of this permit.
11. All wells must be drilled vertical unless written permission is obtained from the Minister.
12. All groundwater extracted during sampling and/or purging must be contained and disposed of in an appropriate manner to minimise risk to health and the environment.
13. A lithological log is to be submitted with the drillers well construction report from all wells drilled in respect of this permit in accordance with National Environmental Protection (assessment of Site Contamination) measure 1999.
14. Wells are to be backfilled when no longer required for ongoing monitoring and investigation purposes.
15. The well is not to penetrate beyond a depth of 15 metres unless approved by the Regional Hydrogeologist.
16. This permit authorises the construction of a well on the portion of road adjacent to the land parcel described above.
17. The well must be backfilled immediately following the final water sample being taken.
18. The well must be backfilled from original depth to surface with cement or a Departmentally approved method
19. Due to known nearby soil/groundwater contamination in the sediments and aquifers above, caution should be taken in the drilling and/or cementing of this well(s).

NOTES:

1. Under section 202(1)(b)(ii) of the Natural Resources Management Act 2004, you have a right of appeal to the Environment, Resources and Development Court against the imposition of any condition on this permit. The appeal must be instituted within six weeks of the date of permit issue. The appeal must also be served upon this department within that time.
2. This permit is not transferable.
3. This well construction permit is not an authorisation for a person to enter private property and prior authority must be obtained from the land owner in all circumstances.
4. The issue of this permit does not negate the requirement to comply with the provisions of other Acts that may impact on the activity undertaken pursuant to this permit.
5. This permit is not an approval to clear native vegetation.
6. It is recommended that all drilling equipment be decontaminated prior to construction of a new well or rehabilitation of an existing well to prevent the introduction or transfer of iron bacteria. Similar precautions should also be taken with pump installation equipment.
7. Due to potential land contamination issues it is recommended that a hydrogeological assessment be carried out to determine the long term prospects for groundwater quality and quantity with regard to the site and desired use.
8. This permit does not authorise the taking of water from the well for any purpose other than testing.

DEPARTMENT FOR ENVIRONMENT AND WATER

Mt Gambier Office | PO Box 1046 | Mt Gambier SA 5290 | [P] 8735 1134 [F] 8735 1135

PERMIT to undertake a WATER AFFECTING ACTIVITY

pursuant to section 135 of the *Natural Resources Management Act 2004*

WELL PERMIT

9. If the extracted groundwater supply is required for human consumption, it is recommended that the water be quality tested.

TAKE NOTE that the permit holder, or a person acting on behalf of the permit holder, who contravenes or fails to comply with a condition of this permit is guilty of an offence, and such acts or ommisions may result in the variation, suspension or revocation of the permit.

Date: 05/03/2019

David Williamson
Team Leader [South East]
Delegate of Minister for Environment and Water

GOVERNMENT OF SOUTH AUSTRALIA

DEPARTMENT FOR ENVIRONMENT AND WATER

Mt Gambier Office | PO Box 1046 | Mt Gambier SA 5290 | [P] 8735 1134 [F] 8735 1135

PERMIT to undertake a WATER AFFECTING ACTIVITY

pursuant to section 135 of the *Natural Resources Management Act 2004*

WELL PERMIT

Subject to full compliance with all the procedures, specifications and limitations contained or referred to, in the conditions set out below,

Permit No:	340204
Expiry Date:	05/03/2020

Permission is hereby granted to: GHD PTY LTD
LEVEL 4, 211 VICTORIA SQUARE
ADELAIDE SA 5000
ACN 008 488 373

To undertake the following water affecting activity:

Activity: Well Construction and Backfill

Well Use: Investigation

CONDITIONS:

1. The activity authorised by this permit must only be undertaken on the land described below:

   CT 5808/458
   Allotment 9 in Filed Plan 4994
   Hundred of Port Adelaide

2. Well Construction must be in accordance with the General Specification for Well Construction, Modification and Abandonment in South Australia (or any subsequent or related policy), as provided by the relevant authority
3. The equipment, materials and methods used in drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, shall not adversely affect the quality of an underground water resource.
4. Aquifers shall be protected during drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, to prevent adverse impacts upon the integrity of the aquifer.
5. This work may be subject to inspection by the Department's Drilling Inspectors.
6. If this well is incidental/ancillary to mining operations authorised under the Mining Act 1971, or a regulated activity under the Petroleum and Geothermal Energy Act 2000 (Acts), the well must be decommissioned (as outlined in the Minimum Construction Requirements for Water Bores in Australia Third Edition) prior to the relinquishment of the licence or lease under the associated Acts, unless alternative formal arrangements can be made with the owner or occupier of the land on which the well is located subject to approval by the relevant Minister or the Minister's agent.
7. If the well is considered unsatisfactory, it may be abandoned and a replacement well may then be constructed provided that the abandoned well is backfilled prior to the drill rig leaving the site.

PERMIT to undertake a WATER AFFECTING ACTIVITY

pursuant to section 135 of the *Natural Resources Management Act 2004*

WELL PERMIT

8. Water samples are required from all wells drilled in respect of this permit.
9. Strata samples are not required.
10. The licensed well driller must forward with his report a plan obtained from the permit holder, who must mark thereon the location of all wells drilled in respect of this permit.
11. All wells must be drilled vertical unless written permission is obtained from the Minister.
12. All groundwater extracted during sampling and/or purging must be contained and disposed of in an appropriate manner to minimise risk to health and the environment.
13. A lithological log is to be submitted with the drillers well construction report from all wells drilled in respect of this permit in accordance with National Environmental Protection (assessment of Site Contamination) measure 1999.
14. Wells are to be backfilled when no longer required for ongoing monitoring and investigation purposes.
15. The well is not to penetrate beyond a depth of 15 metres unless approved by the Regional Hydrogeologist.
16. This permit authorises the construction of a well on the portion of road adjacent to the land parcel described above.
17. The well must be backfilled immediately following the final water sample being taken.
18. The well must be backfilled from original depth to surface with cement or a Departmentally approved method
19. Due to known nearby soil/groundwater contamination in the sediments and aquifers above, caution should be taken in the drilling and/or cementing of this well(s).

NOTES:

1. Under section 202(1)(b)(ii) of the Natural Resources Management Act 2004, you have a right of appeal to the Environment, Resources and Development Court against the imposition of any condition on this permit. The appeal must be instituted within six weeks of the date of permit issue. The appeal must also be served upon this department within that time.
2. This permit is not transferable.
3. This well construction permit is not an authorisation for a person to enter private property and prior authority must be obtained from the land owner in all circumstances.
4. The issue of this permit does not negate the requirement to comply with the provisions of other Acts that may impact on the activity undertaken pursuant to this permit.
5. This permit is not an approval to clear native vegetation.
6. It is recommended that all drilling equipment be decontaminated prior to construction of a new well or rehabilitation of an existing well to prevent the introduction or transfer of iron bacteria. Similar precautions should also be taken with pump installation equipment.
7. Due to potential land contamination issues it is recommended that a hydrogeological assessment be carried out to determine the long term prospects for groundwater quality and quantity with regard to the site and desired use.
8. This permit does not authorise the taking of water from the well for any purpose other than testing.

DEPARTMENT FOR ENVIRONMENT AND WATER

Mt Gambier Office | PO Box 1046 | Mt Gambier SA 5290 | [P] 8735 1134 [F] 8735 1135

PERMIT to undertake a WATER AFFECTING ACTIVITY

pursuant to section 135 of the *Natural Resources Management Act 2004*

WELL PERMIT

9. If the extracted groundwater supply is required for human consumption, it is recommended that the water be quality tested.

TAKE NOTE that the permit holder, or a person acting on behalf of the permit holder, who contravenes or fails to comply with a condition of this permit is guilty of an offence, and such acts or ommisions may result in the variation, suspension or revocation of the permit.

Date: 05/03/2019

David Williamson
Team Leader [South East]
Delegate of Minister for Environment and Water

GOVERNMENT OF SOUTH AUSTRALIA

DEPARTMENT FOR ENVIRONMENT AND WATER

Mt Gambier Office | PO Box 1046 | Mt Gambier SA 5290 | [P] 8735 1134 [F] 8735 1135

PERMIT to undertake a WATER AFFECTING ACTIVITY

pursuant to section 135 of the *Natural Resources Management Act 2004*

WELL PERMIT

Subject to full compliance with all the procedures, specifications and limitations contained or referred to, in the conditions set out below,

Permit No:	340205
Expiry Date:	05/03/2020

Permission is hereby granted to: GHD PTY LTD
LEVEL 4, 211 VICTORIA SQUARE
ADELAIDE SA 5000
ACN 008 488 373

To undertake the following water affecting activity:

Activity: Well Construction and Backfill

Well Use: Investigation

CONDITIONS:

1. The activity authorised by this permit must only be undertaken on the land described below:

   CT 5297/648
   Allotment 103 in Deposited Plan 43570
   Hundred of Port Adelaide

2. Well Construction must be in accordance with the General Specification for Well Construction, Modification and Abandonment in South Australia (or any subsequent or related policy), as provided by the relevant authority
3. The equipment, materials and methods used in drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, shall not adversely affect the quality of an underground water resource.
4. Aquifers shall be protected during drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, to prevent adverse impacts upon the integrity of the aquifer.
5. This work may be subject to inspection by the Department's Drilling Inspectors.
6. If this well is incidental/ancillary to mining operations authorised under the Mining Act 1971, or a regulated activity under the Petroleum and Geothermal Energy Act 2000 (Acts), the well must be decommissioned (as outlined in the Minimum Construction Requirements for Water Bores in Australia Third Edition) prior to the relinquishment of the licence or lease under the associated Acts, unless alternative formal arrangements can be made with the owner or occupier of the land on which the well is located subject to approval by the relevant Minister or the Minister's agent.
7. If the well is considered unsatisfactory, it may be abandoned and a replacement well may then be constructed provided that the abandoned well is backfilled prior to the drill rig leaving the site.

PERMIT to undertake a WATER AFFECTING ACTIVITY

pursuant to section 135 of the *Natural Resources Management Act 2004*

WELL PERMIT

8. Water samples are required from all wells drilled in respect of this permit.
9. Strata samples are not required.
10. The licensed well driller must forward with his report a plan obtained from the permit holder, who must mark thereon the location of all wells drilled in respect of this permit.
11. All wells must be drilled vertical unless written permission is obtained from the Minister.
12. All groundwater extracted during sampling and/or purging must be contained and disposed of in an appropriate manner to minimise risk to health and the environment.
13. A lithological log is to be submitted with the drillers well construction report from all wells drilled in respect of this permit in accordance with National Environmental Protection (assessment of Site Contamination) measure 1999.
14. Wells are to be backfilled when no longer required for ongoing monitoring and investigation purposes.
15. The well is not to penetrate beyond a depth of 15 metres unless approved by the Regional Hydrogeologist.
16. This permit authorises the construction of a well on the portion of road adjacent to the land parcel described above.
17. The well must be backfilled immediately following the final water sample being taken.
18. The well must be backfilled from original depth to surface with cement or a Departmentally approved method
19. Due to known nearby soil/groundwater contamination in the sediments and aquifers above, caution should be taken in the drilling and/or cementing of this well(s).

NOTES:

1. Under section 202(1)(b)(ii) of the Natural Resources Management Act 2004, you have a right of appeal to the Environment, Resources and Development Court against the imposition of any condition on this permit. The appeal must be instituted within six weeks of the date of permit issue. The appeal must also be served upon this department within that time.
2. This permit is not transferable.
3. This well construction permit is not an authorisation for a person to enter private property and prior authority must be obtained from the land owner in all circumstances.
4. The issue of this permit does not negate the requirement to comply with the provisions of other Acts that may impact on the activity undertaken pursuant to this permit.
5. This permit is not an approval to clear native vegetation.
6. It is recommended that all drilling equipment be decontaminated prior to construction of a new well or rehabilitation of an existing well to prevent the introduction or transfer of iron bacteria. Similar precautions should also be taken with pump installation equipment.
7. Due to potential land contamination issues it is recommended that a hydrogeological assessment be carried out to determine the long term prospects for groundwater quality and quantity with regard to the site and desired use.
8. This permit does not authorise the taking of water from the well for any purpose other than testing.

DEPARTMENT FOR ENVIRONMENT AND WATER

Mt Gambier Office | PO Box 1046 | Mt Gambier SA 5290 | [P] 8735 1134 [F] 8735 1135

PERMIT to undertake a WATER AFFECTING ACTIVITY

pursuant to section 135 of the *Natural Resources Management Act 2004*

WELL PERMIT

9. If the extracted groundwater supply is required for human consumption, it is recommended that the water be quality tested.

TAKE NOTE that the permit holder, or a person acting on behalf of the permit holder, who contravenes or fails to comply with a condition of this permit is guilty of an offence, and such acts or ommisions may result in the variation, suspension or revocation of the permit.

Date: 05/03/2019

David Williamson
Team Leader [South East]
Delegate of Minister for Environment and Water

GOVERNMENT OF SOUTH AUSTRALIA

DEPARTMENT FOR ENVIRONMENT AND WATER

Mt Gambier Office | PO Box 1046 | Mt Gambier SA 5290 | [P] 8735 1134 [F] 8735 1135

PERMIT to undertake a WATER AFFECTING ACTIVITY

pursuant to section 135 of the *Natural Resources Management Act 2004*

WELL PERMIT

Subject to full compliance with all the procedures, specifications and limitations contained or referred to, in the conditions set out below,

Permit No:	340206
Expiry Date:	05/03/2020

Permission is hereby granted to: GHD PTY LTD
LEVEL 4, 211 VICTORIA SQUARE
ADELAIDE SA 5000
ACN 008 488 373

To undertake the following water affecting activity:

Activity: Well Construction and Backfill

Well Use: Investigation

CONDITIONS:

1. The activity authorised by this permit must only be undertaken on the land described below:

   CT 5954/631
   Allotment 81 in Deposited Plan 69689
   Hundred of Port Adelaide

2. Well Construction must be in accordance with the General Specification for Well Construction, Modification and Abandonment in South Australia (or any subsequent or related policy), as provided by the relevant authority
3. The equipment, materials and methods used in drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, shall not adversely affect the quality of an underground water resource.
4. Aquifers shall be protected during drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, to prevent adverse impacts upon the integrity of the aquifer.
5. This work may be subject to inspection by the Department's Drilling Inspectors.
6. If this well is incidental/ancillary to mining operations authorised under the Mining Act 1971, or a regulated activity under the Petroleum and Geothermal Energy Act 2000 (Acts), the well must be decommissioned (as outlined in the Minimum Construction Requirements for Water Bores in Australia Third Edition) prior to the relinquishment of the licence or lease under the associated Acts, unless alternative formal arrangements can be made with the owner or occupier of the land on which the well is located subject to approval by the relevant Minister or the Minister's agent.
7. If the well is considered unsatisfactory, it may be abandoned and a replacement well may then be constructed provided that the abandoned well is backfilled prior to the drill rig leaving the site.

PERMIT to undertake a WATER AFFECTING ACTIVITY

pursuant to section 135 of the *Natural Resources Management Act 2004*

WELL PERMIT

8. Water samples are required from all wells drilled in respect of this permit.
9. Strata samples are not required.
10. The licensed well driller must forward with his report a plan obtained from the permit holder, who must mark thereon the location of all wells drilled in respect of this permit.
11. All wells must be drilled vertical unless written permission is obtained from the Minister.
12. All groundwater extracted during sampling and/or purging must be contained and disposed of in an appropriate manner to minimise risk to health and the environment.
13. A lithological log is to be submitted with the drillers well construction report from all wells drilled in respect of this permit in accordance with National Environmental Protection (assessment of Site Contamination) measure 1999.
14. Wells are to be backfilled when no longer required for ongoing monitoring and investigation purposes.
15. The well is not to penetrate beyond a depth of 15 metres unless approved by the Regional Hydrogeologist.
16. This permit authorises the construction of a well on the portion of road adjacent to the land parcel described above.
17. The well must be backfilled immediately following the final water sample being taken.
18. The well must be backfilled from original depth to surface with cement or a Departmentally approved method
19. Due to known nearby soil/groundwater contamination in the sediments and aquifers above, caution should be taken in the drilling and/or cementing of this well(s).

NOTES:

1. Under section 202(1)(b)(ii) of the Natural Resources Management Act 2004, you have a right of appeal to the Environment, Resources and Development Court against the imposition of any condition on this permit. The appeal must be instituted within six weeks of the date of permit issue. The appeal must also be served upon this department within that time.
2. This permit is not transferable.
3. This well construction permit is not an authorisation for a person to enter private property and prior authority must be obtained from the land owner in all circumstances.
4. The issue of this permit does not negate the requirement to comply with the provisions of other Acts that may impact on the activity undertaken pursuant to this permit.
5. This permit is not an approval to clear native vegetation.
6. It is recommended that all drilling equipment be decontaminated prior to construction of a new well or rehabilitation of an existing well to prevent the introduction or transfer of iron bacteria. Similar precautions should also be taken with pump installation equipment.
7. Due to potential land contamination issues it is recommended that a hydrogeological assessment be carried out to determine the long term prospects for groundwater quality and quantity with regard to the site and desired use.
8. This permit does not authorise the taking of water from the well for any purpose other than testing.

DEPARTMENT FOR ENVIRONMENT AND WATER

Mt Gambier Office | PO Box 1046 | Mt Gambier SA 5290 | [P] 8735 1134 [F] 8735 1135

PERMIT to undertake a WATER AFFECTING ACTIVITY

pursuant to section 135 of the *Natural Resources Management Act 2004*

WELL PERMIT

9. If the extracted groundwater supply is required for human consumption, it is recommended that the water be quality tested.

TAKE NOTE that the permit holder, or a person acting on behalf of the permit holder, who contravenes or fails to comply with a condition of this permit is guilty of an offence, and such acts or ommisions may result in the variation, suspension or revocation of the permit.

Date: 05/03/2019

David Williamson
Team Leader [South East]
Delegate of Minister for Environment and Water

GOVERNMENT OF SOUTH AUSTRALIA

DEPARTMENT FOR ENVIRONMENT AND WATER

Mt Gambier Office | PO Box 1046 | Mt Gambier SA 5290 | [P] 8735 1134 [F] 8735 1135

PERMIT to undertake a WATER AFFECTING ACTIVITY

pursuant to section 135 of the *Natural Resources Management Act 2004*

WELL PERMIT

Subject to full compliance with all the procedures, specifications and limitations contained or referred to, in the conditions set out below,

Permit No:	340207
Expiry Date:	05/03/2020

Permission is hereby granted to: GHD PTY LTD
LEVEL 4, 211 VICTORIA SQUARE
ADELAIDE SA 5000
ACN 008 488 373

To undertake the following water affecting activity:

Activity: Well Construction and Backfill

Well Use: Investigation

CONDITIONS:

1. The activity authorised by this permit must only be undertaken on the land described below:

   CT 5954/631
   Allotment 81 in Deposited Plan 69689
   Hundred of Port Adelaide

2. Well Construction must be in accordance with the General Specification for Well Construction, Modification and Abandonment in South Australia (or any subsequent or related policy), as provided by the relevant authority
3. The equipment, materials and methods used in drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, shall not adversely affect the quality of an underground water resource.
4. Aquifers shall be protected during drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, to prevent adverse impacts upon the integrity of the aquifer.
5. This work may be subject to inspection by the Department's Drilling Inspectors.
6. If this well is incidental/ancillary to mining operations authorised under the Mining Act 1971, or a regulated activity under the Petroleum and Geothermal Energy Act 2000 (Acts), the well must be decommissioned (as outlined in the Minimum Construction Requirements for Water Bores in Australia Third Edition) prior to the relinquishment of the licence or lease under the associated Acts, unless alternative formal arrangements can be made with the owner or occupier of the land on which the well is located subject to approval by the relevant Minister or the Minister's agent.
7. If the well is considered unsatisfactory, it may be abandoned and a replacement well may then be constructed provided that the abandoned well is backfilled prior to the drill rig leaving the site.

PERMIT to undertake a WATER AFFECTING ACTIVITY

pursuant to section 135 of the *Natural Resources Management Act 2004*

WELL PERMIT

8. Water samples are required from all wells drilled in respect of this permit.
9. Strata samples are not required.
10. The licensed well driller must forward with his report a plan obtained from the permit holder, who must mark thereon the location of all wells drilled in respect of this permit.
11. All wells must be drilled vertical unless written permission is obtained from the Minister.
12. All groundwater extracted during sampling and/or purging must be contained and disposed of in an appropriate manner to minimise risk to health and the environment.
13. A lithological log is to be submitted with the drillers well construction report from all wells drilled in respect of this permit in accordance with National Environmental Protection (assessment of Site Contamination) measure 1999.
14. Wells are to be backfilled when no longer required for ongoing monitoring and investigation purposes.
15. The well is not to penetrate beyond a depth of 15 metres unless approved by the Regional Hydrogeologist.
16. This permit authorises the construction of a well on the portion of road adjacent to the land parcel described above.
17. The well must be backfilled immediately following the final water sample being taken.
18. The well must be backfilled from original depth to surface with cement or a Departmentally approved method
19. Due to known nearby soil/groundwater contamination in the sediments and aquifers above, caution should be taken in the drilling and/or cementing of this well(s).

NOTES:

1. Under section 202(1)(b)(ii) of the Natural Resources Management Act 2004, you have a right of appeal to the Environment, Resources and Development Court against the imposition of any condition on this permit. The appeal must be instituted within six weeks of the date of permit issue. The appeal must also be served upon this department within that time.
2. This permit is not transferable.
3. This well construction permit is not an authorisation for a person to enter private property and prior authority must be obtained from the land owner in all circumstances.
4. The issue of this permit does not negate the requirement to comply with the provisions of other Acts that may impact on the activity undertaken pursuant to this permit.
5. This permit is not an approval to clear native vegetation.
6. It is recommended that all drilling equipment be decontaminated prior to construction of a new well or rehabilitation of an existing well to prevent the introduction or transfer of iron bacteria. Similar precautions should also be taken with pump installation equipment.
7. Due to potential land contamination issues it is recommended that a hydrogeological assessment be carried out to determine the long term prospects for groundwater quality and quantity with regard to the site and desired use.
8. This permit does not authorise the taking of water from the well for any purpose other than testing.

DEPARTMENT FOR ENVIRONMENT AND WATER

Mt Gambier Office | PO Box 1046 | Mt Gambier SA 5290 | [P] 8735 1134 [F] 8735 1135

PERMIT to undertake a WATER AFFECTING ACTIVITY

pursuant to section 135 of the *Natural Resources Management Act 2004*

WELL PERMIT

9. If the extracted groundwater supply is required for human consumption, it is recommended that the water be quality tested.

TAKE NOTE that the permit holder, or a person acting on behalf of the permit holder, who contravenes or fails to comply with a condition of this permit is guilty of an offence, and such acts or ommisions may result in the variation, suspension or revocation of the permit.

Date: 05/03/2019

David Williamson
Team Leader [South East]
Delegate of Minister for Environment and Water

GOVERNMENT OF SOUTH AUSTRALIA

DEPARTMENT FOR ENVIRONMENT AND WATER

Mt Gambier Office | PO Box 1046 | Mt Gambier SA 5290 | [P] 8735 1134 [F] 8735 1135

PERMIT to undertake a WATER AFFECTING ACTIVITY

pursuant to section 135 of the *Natural Resources Management Act 2004*

WELL PERMIT

Subject to full compliance with all the procedures, specifications and limitations contained or referred to, in the conditions set out below,

Permit No:	340208
Expiry Date:	05/03/2020

Permission is hereby granted to: GHD PTY LTD
LEVEL 4, 211 VICTORIA SQUARE
ADELAIDE SA 5000
ACN 008 488 373

To undertake the following water affecting activity:

Activity: Well Construction and Backfill

Well Use: Investigation

CONDITIONS:

1. The activity authorised by this permit must only be undertaken on the land described below:

   CT 5954/610
   Allotment 58 in Deposited Plan 69689
   Hundred of Port Adelaide

2. Well Construction must be in accordance with the General Specification for Well Construction, Modification and Abandonment in South Australia (or any subsequent or related policy), as provided by the relevant authority
3. The equipment, materials and methods used in drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, shall not adversely affect the quality of an underground water resource.
4. Aquifers shall be protected during drilling, plugging, backfilling or sealing of a well, or the replacement or alteration of the casing, lining or screen of a well, to prevent adverse impacts upon the integrity of the aquifer.
5. This work may be subject to inspection by the Department's Drilling Inspectors.
6. If this well is incidental/ancillary to mining operations authorised under the Mining Act 1971, or a regulated activity under the Petroleum and Geothermal Energy Act 2000 (Acts), the well must be decommissioned (as outlined in the Minimum Construction Requirements for Water Bores in Australia Third Edition) prior to the relinquishment of the licence or lease under the associated Acts, unless alternative formal arrangements can be made with the owner or occupier of the land on which the well is located subject to approval by the relevant Minister or the Minister's agent.
7. If the well is considered unsatisfactory, it may be abandoned and a replacement well may then be constructed provided that the abandoned well is backfilled prior to the drill rig leaving the site.

PERMIT to undertake a WATER AFFECTING ACTIVITY

pursuant to section 135 of the *Natural Resources Management Act 2004*

WELL PERMIT

8. Water samples are required from all wells drilled in respect of this permit.
9. Strata samples are not required.
10. The licensed well driller must forward with his report a plan obtained from the permit holder, who must mark thereon the location of all wells drilled in respect of this permit.
11. All wells must be drilled vertical unless written permission is obtained from the Minister.
12. All groundwater extracted during sampling and/or purging must be contained and disposed of in an appropriate manner to minimise risk to health and the environment.
13. A lithological log is to be submitted with the drillers well construction report from all wells drilled in respect of this permit in accordance with National Environmental Protection (assessment of Site Contamination) measure 1999.
14. Wells are to be backfilled when no longer required for ongoing monitoring and investigation purposes.
15. The well is not to penetrate beyond a depth of 15 metres unless approved by the Regional Hydrogeologist.
16. This permit authorises the construction of a well on the portion of road adjacent to the land parcel described above.
17. The well must be backfilled immediately following the final water sample being taken.
18. The well must be backfilled from original depth to surface with cement or a Departmentally approved method
19. Due to known nearby soil/groundwater contamination in the sediments and aquifers above, caution should be taken in the drilling and/or cementing of this well(s).

NOTES:

1. Under section 202(1)(b)(ii) of the Natural Resources Management Act 2004, you have a right of appeal to the Environment, Resources and Development Court against the imposition of any condition on this permit. The appeal must be instituted within six weeks of the date of permit issue. The appeal must also be served upon this department within that time.
2. This permit is not transferable.
3. This well construction permit is not an authorisation for a person to enter private property and prior authority must be obtained from the land owner in all circumstances.
4. The issue of this permit does not negate the requirement to comply with the provisions of other Acts that may impact on the activity undertaken pursuant to this permit.
5. This permit is not an approval to clear native vegetation.
6. It is recommended that all drilling equipment be decontaminated prior to construction of a new well or rehabilitation of an existing well to prevent the introduction or transfer of iron bacteria. Similar precautions should also be taken with pump installation equipment.
7. Due to potential land contamination issues it is recommended that a hydrogeological assessment be carried out to determine the long term prospects for groundwater quality and quantity with regard to the site and desired use.
8. This permit does not authorise the taking of water from the well for any purpose other than testing.

DEPARTMENT FOR ENVIRONMENT AND WATER

Mt Gambier Office | PO Box 1046 | Mt Gambier SA 5290 | [P] 8735 1134 [F] 8735 1135

PERMIT to undertake a WATER AFFECTING ACTIVITY

pursuant to section 135 of the *Natural Resources Management Act 2004*

WELL PERMIT

9. If the extracted groundwater supply is required for human consumption, it is recommended that the water be quality tested.

TAKE NOTE that the permit holder, or a person acting on behalf of the permit holder, who contravenes or fails to comply with a condition of this permit is guilty of an offence, and such acts or ommisions may result in the variation, suspension or revocation of the permit.

Date: 05/03/2019

David Williamson
Team Leader [South East]
Delegate of Minister for Environment and Water

Appendix E – Borehole Logs

BOREHOLE LOG SHEET

GEO_BOREHOLE_WELL INSTALLATION LOGS.GPJ GHD_GEO_TEMPLATE 2.00.GDT 9/5/19

Client : South Australian Metropolitan Fire Service

Project : Largs North Station Off-site Groundwater Use Survey & Groundwater Investigation

Location : Off-site, Up hydraulic grad, SA

HOLE No. MW05

SHEET 1 OF 1

Position : 271517.3 E 6144107.6 N MGA94 54	**Surface RL:** 3.02m AHD	**Angle from Horiz. :** 90°	**Processed :** JC
Rig Type : Eziprobe	**Mounting:** Land Rover	**Contractor :** WB Drilling	**Driller :** IW	**Checked :** JK
Date Started : 2/4/2019	**Date Completed :** 2/4/2019	**Logged by :** JC	**Date:** 9/05/2019

Note: * indicates signatures on original issue of log or last revision of log

DRILLING					MATERIAL								BOREHOLE	
SCALE (m)	Drilling Method	Hole Support \ Casing	Water	Samples & Tests	Depth / (RL) metres	Graphic Log	USC Symbol	Description: SOIL TYPE, colour, structure, minor components (origin), and ROCK TYPE, colour, grain size, structure, weathering, strength	Moisture Condition	Consistency / Density Index	Comments/ Observations	BOREHOLE Log	Components
1	Hand Auger		▽		0.30			FILL; Silty sand, fine to medium grained, poorly sorted, pale brown, dry, non plastic silt with gravel.	D				Gatic
					0.60			FILL; Sandy silt, non plastic, poorly sorted, pale brown, dry, fine to medium grained sand.	D				Grout
					0.90		SW	SAND; fine to medium grained, moderately well sorted, pale brown, dry.	D				Bentonite
2	Push Tube				2.10		SW	SAND; fine grained, well sorted, yellow, dry.	D				
					2.40		SW	SAND; fine grained, well sorted, yellow with orange mottle, dry.	D				
					2.70		SW	SAND; fine to medium grained, well sorted, yellow with orange mottle, wet.	W				
3	Hollow Auger Screwing				4.50		SW	SAND; fine grained, well sorted, grey, wet	W				Filter Pack (Sand 2 - 3 mm)
4													Screen
								End of borehole at 4.5 metres. Target Depth					
5													

See standard sheets for details of abbreviations & basis of descriptions

GHD
Level 4, 211 Victoria Square, Adelaide SA 5000 Australia
T: +61 8 8111 6600 F: +61 8 8111 6699 E: adlmail@ghd.com
CONSULTING GEOTECHNICAL ENGINEERS AND GEOLOGISTS

Job No.
3319080

BOREHOLE LOG SHEET

GEO_BOREHOLE_WELL INSTALLATION LOGS.GPJ GHD_GEO_TEMPLATE 2.00.GDT 9/5/19

Client : South Australian Metropolitan Fire Service

Project : Largs North Station Off-site Groundwater Use Survey & Groundwater Investigation

Location : Off-site, Up hydraulic grad, SA

HOLE No. MW06

SHEET 1 OF 1

Position : 271480.6 E 6144082.1 N MGA94 54	**Surface RL:** 3.12m AHD	**Angle from Horiz. :** 90°	**Processed :** JC
Rig Type : Eziprobe	**Mounting:** Land Rover	**Contractor :** WB Drilling	**Driller :** IW	**Checked :** JK
Date Started : 2/4/2019	**Date Completed :** 2/4/2019	**Logged by :** JC	**Date:** 9/05/2019

Note: * indicates signatures on original issue of log or last revision of log

DRILLING					MATERIAL								BOREHOLE	
SCALE (m)	Drilling Method	Hole Support \ Casing	Water	Samples & Tests	Depth / (RL) metres	Graphic Log	USC Symbol	Description: SOIL TYPE, colour, structure, minor components (origin), and ROCK TYPE, colour, grain size, structure, weathering, strength	Moisture Condition	Consistency / Density Index	Comments/ Observations	BOREHOLE Log	Components
1	Hand Auger		▽		0.20			FILL; Sand, fine to medium grained, poorly sorted, pale grey, dry, sub - rounded, fine to medium grained gravel.	D				Gatic
					0.40			FILL; Sand, fine to medium grained, moderately well sorted, pale brown, dry.	D				Grout
								FILL; Sand, fine to medium grained, pale grey/brown, moderately well sorted, dry, sub - rounded, fine to medium grained gravel.	D				Bentonite
2	Push Tube				1.40			FILL; Clayey sand, fine to medium grained, pale brown with orange mottle, dry, medium plasticity clay.	D				
					1.80		SW	SAND; fine grained, well sorted, yellow with orange mottle, dry.	D				
					2.40		SW	SAND; fine grained, well sorted, pale brown with yellow/orange mottle, wet.	W				
3	Hollow Auger Screwing				2.70		SW	SAND; fine grained, well sorted, grey, wet.	W				Filter Pack (Sand 2 - 3 mm)
													Screen
4					4.50			End of borehole at 4.5 metres. Target Depth					
5													

See standard sheets for details of abbreviations & basis of descriptions

GHD
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CONSULTING GEOTECHNICAL ENGINEERS AND GEOLOGISTS

Job No.
3319080

BOREHOLE LOG SHEET

GEO_BOREHOLE_WELL INSTALLATION LOGS.GPJ GHD_GEO_TEMPLATE 2.00.GDT 9/5/19

Client : South Australian Metropolitan Fire Service

Project : Largs North Station Off-site Groundwater Use Survey & Groundwater Investigation

Location : Off-site, Up hydraulic grad, SA

HOLE No. MW07

SHEET 1 OF 1

Position : 271471.3 E 6144161.0 N MGA94 54	**Surface RL:** 3.16m AHD	**Angle from Horiz. :** 90°	**Processed :** JC
Rig Type : Eziprobe	**Mounting:** Land Rover	**Contractor :** WB Drilling	**Driller :** IW	**Checked :** JK
Date Started : 2/4/2019	**Date Completed :** 2/4/2019	**Logged by :** JC	**Date:** 9/05/2019

Note: * indicates signatures on original issue of log or last revision of log

DRILLING					MATERIAL								BOREHOLE	
SCALE (m)	Drilling Method	Hole Support \ Casing	Water	Samples & Tests	Depth / (RL) metres	Graphic Log	USC Symbol	Description SOIL TYPE, colour, structure, minor components (origin), and ROCK TYPE, colour, grain size, structure, weathering, strength	Moisture Condition	Consistency / Density Index	Comments/ Observations	BOREHOLE Log	Components
1	Hand Auger				0.00			FILL; Silty sand, fine to medium grained, poorly sorted, pale brown, dry, sub - rounded, fine to medium grained gravel.	D				Gatic Grout Bentonite
					0.80		SW	SAND; fine to medium grained, moderately well sorted, pale brown, dry.	D				
2	Push Tube		▽		1.20		SW	SAND; fine to medium grained, moderately well sorted, pale grey/brown, dry.	D				
					2.40		SW	SAND; fine to medium grained, moderately well sorted, yellow, moist.	M				Filter Pack (Sand 2 - 3 mm)
3	Hollow Auger Screwing				3.20		SW	SAND; fine to medium grained, well sorted, pale yellow/brown, wet.	W				Screen
					3.80		SW	SAND; fine to medium grained, well sorted, pale grey, wet.	W				
4					4.50			End of borehole at 4.5 metres. Target Depth					
5													

See standard sheets for details of abbreviations & basis of descriptions

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Level 4, 211 Victoria Square, Adelaide SA 5000 Australia
T: +61 8 8111 6600 F: +61 8 8111 6699 E: adlmail@ghd.com
CONSULTING GEOTECHNICAL ENGINEERS AND GEOLOGISTS

Job No.
3319080

BOREHOLE LOG SHEET

GEO_BOREHOLE_WELL INSTALLATION LOGS.GPJ GHD_GEO_TEMPLATE 2.00.GDT 9/5/19

Client : South Australian Metropolitan Fire Service

Project : Largs North Station Off-site Groundwater Use Survey & Groundwater Investigation

Location : Off-site, Dw hydraulic grad, SA

HOLE No. MW08

SHEET 1 OF 1

Position : 271484.1 E 6144324.0 N MGA94 54	**Surface RL:** 3.05m AHD	**Angle from Horiz. :** 90°	**Processed :** JC
Rig Type : Eziprobe	**Mounting:** Land Rover	**Contractor :** WB Drilling	**Driller :** IW	**Checked :** JK
Date Started : 1/4/2019	**Date Completed :** 1/4/2019	**Logged by :** JC	**Date:** 9/05/2019

Note: * indicates signatures on original issue of log or last revision of log

DRILLING					MATERIAL								BOREHOLE	
SCALE (m)	Drilling Method	Hole Support \ Casing	Water	Samples & Tests	Depth / (RL) metres	Graphic Log	USC Symbol	Description SOIL TYPE, colour, structure, minor components (origin), and ROCK TYPE, colour, grain size, structure, weathering, strength	Moisture Condition	Consistency / Density Index	Comments/ Observations	BOREHOLE Log	Components
1	Hand Auger		▽		0.20			Fill; Sandy silt, non plastic, moderately well sorted, pale brown, dry, fine to medium grained sand.	D				Gatic
					0.30			FILL; Sandy silt, non plastic, poorly sorted, pale brown, dry, fine to medium grained sand, sub - rounded, fine to medium grained gravel.	D				Grout
					0.50				D				
					0.70		SW	FILL; Sandy silt, non plastic, moderately well sorted, pale brown, dry, fine to medium grained sand.	D				Bentonite
					0.90		SW	FILL; Sand, fine to medium grained, poorly sorted, pale brown, dry, sub - rounded, fine to medium grained gravel.	D				
2	Push Tube				1.80		SW	SAND; fine grained, well sorted, yellow and pale brown, dry. SAND; fine grained, well sorted, yellow and white, dry. SAND; fine grained, well sorted, orange mottle, dry.	D				
					2.60		SW	SAND; fine grained, well sorted, grey, wet.	W				Filter Pack (Sand 2 - 3 mm)
3	Hollow Auger Screwing				2.90		SW	SAND; fine grained, well sorted, dark grey, wet.	W				Screen
4					4.50			End of borehole at 4.5 metres. Target Depth					
5													

See standard sheets for details of abbreviations & basis of descriptions

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Job No.
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BOREHOLE LOG SHEET

GEO_BOREHOLE_WELL INSTALLATION LOGS.GPJ GHD_GEO_TEMPLATE 2.00.GDT 9/5/19

Client : South Australian Metropolitan Fire Service

Project : Largs North Station Off-site Groundwater Use Survey & Groundwater Investigation

Location : Off-site, Dw hydraulic grad, SA

HOLE No. MW09

SHEET 1 OF 1

Position : 271548.4 E 6144339.9 N MGA94 54	**Surface RL:** 3.06m AHD	**Angle from Horiz. :** 90°	**Processed :** JC
Rig Type : Eziprobe	**Mounting:** Land Rover	**Contractor :** WB Drilling	**Driller :** IW	**Checked :** JK
Date Started : 1/4/2019	**Date Completed :** 1/4/2019	**Logged by :** JC	**Date:** 9/05/2019

Note: * indicates signatures on original issue of log or last revision of log

DRILLING					MATERIAL								BOREHOLE	
SCALE (m)	Drilling Method	Hole Support \ Casing	Water	Samples & Tests	Depth / (RL) metres	Graphic Log	USC Symbol	Description: SOIL TYPE, colour, structure, minor components (origin), and ROCK TYPE, colour, grain size, structure, weathering, strength	Moisture Condition	Consistency / Density Index	Comments/ Observations	BOREHOLE Log	Components
1	Hand Auger				0.20			FILL; Sandy silt, non plastic, moderately well sorted, pale brown, dry, fine to medium grained sand.	D				Gatic
					0.40				D				Grout
							SW	FILL; Sandy silt, non plastic, poorly sorted, pale brown, dry, sub - rounded, fine to medium grained gravel.	D				
								SAND; fine to medium grained, moderately well sorted, light grey and pale brown, dry.					Bentonite
					1.00		SW	SAND; fine grained, well sorted, white/yellow, dry.	D				
2	Push Tube		▽		1.70		SW	SAND; fine grained, well sorted, yellow with orange/grey mottle, dry.	D				
					2.40		SW	SAND; fine grained, well sorted, yellow with orange/grey mottle, wet.	W				
3	Hollow Auger Screwing				2.70		SW	SAND; fine grained, well sorted, medium grey, wet.	W				Filter Pack (Sand 2 - 3 mm)
													Screen
4					4.50			End of borehole at 4.5 metres. Target Depth					
5													

See standard sheets for details of abbreviations & basis of descriptions

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3319080

BOREHOLE LOG SHEET

GEO_BOREHOLE_WELL INSTALLATION LOGS.GPJ GHD_GEO_TEMPLATE 2.00.GDT 9/5/19

Client : South Australian Metropolitan Fire Service

Project : Largs North Station Off-site Groundwater Use Survey & Groundwater Investigation

Location : Off-site, Dw hydraulic grad, SA

HOLE No. MW10

SHEET 1 OF 1

Position : 271612.5 E 6144354.9 N MGA94 54	**Surface RL:** 2.80m AHD	**Angle from Horiz. :** 90°		**Processed :** JC
Rig Type : Eziprobe	**Mounting:** Land Rover	**Contractor :** WB Drilling	**Driller :** IW	**Checked :** JK
Date Started : 1/4/2019	**Date Completed :** 1/4/2019		**Logged by :** JC	**Date:** 9/05/2019

Note: * indicates signatures on original issue of log or last revision of log

DRILLING					MATERIAL								BOREHOLE	
SCALE (m)	Drilling Method	Hole Support \ Casing	Water	Samples & Tests	Depth / (RL) metres	Graphic Log	USC Symbol	Description: SOIL TYPE, colour, structure, minor components (origin), and ROCK TYPE, colour, grain size, structure, weathering, strength	Moisture Condition	Consistency / Density Index	Comments/ Observations	BOREHOLE Log	Components
1	Hand Auger				0.60			FILL; Silty sand, fine to medium grained, poorly sorted, pale brown, dry, non plastic silt with gravel.	D				Gatic Grout
					1.10			FILL; Sandy silt, non plastic, moderately well sorted, pale brown, dry, fine grained sand.	D				Bentonite
					1.40		SW	SAND; fine to medium grained, moderately well sorted, light grey, dry.	D				
2	Push Tube		▽		1.90		SW	SAND; fine grained, moderately well sorted, white/yellow, dry.	D				
					2.00		SW	SAND; fine grained, moderately well sorted, yellow with orange mottle, dry.	D				
							SW	SAND; fine grained, moderately well sorted, yellow with orange mottle, moist.	M				
3	Hollow Auger Screwing				2.40		SW	SAND; fine grained, well sorted, medium grey, wet.	W				Filter Pack (Sand 2 - 3 mm) Screen
4					4.50			End of borehole at 4.5 metres. Target Depth					
5													

See standard sheets for details of abbreviations & basis of descriptions

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Job No. 3319080

BOREHOLE LOG SHEET

GEO_BOREHOLE_WELL INSTALLATION LOGS.GPJ GHD_GEO_TEMPLATE 2.00.GDT 9/5/19

Client : South Australian Metropolitan Fire Service

Project : Largs North Station Off-site Groundwater Use Survey & Groundwater Investigation

Location : Off-site, Dw hydraulic grad, SA

HOLE No. MW11

SHEET 1 OF 1

Position : 271537.7 E 6144419.7 N MGA94 54	**Surface RL:** 3.19m AHD	**Angle from Horiz. :** 90°	**Processed :** JC
Rig Type : Eziprobe	**Mounting:** Land Rover	**Contractor :** WB Drilling	**Driller :** IW	**Checked :** JK
Date Started : 1/4/2019	**Date Completed :** 1/4/2019	**Logged by :** JC	**Date:** 9/05/2019

Note: * indicates signatures on original issue of log or last revision of log

DRILLING					MATERIAL								BOREHOLE	
SCALE (m)	Drilling Method	Hole Support \ Casing	Water	Samples & Tests	Depth / (RL) metres	Graphic Log	USC Symbol	Description: SOIL TYPE, colour, structure, minor components (origin), and ROCK TYPE, colour, grain size, structure, weathering, strength	Moisture Condition	Consistency / Density Index	Comments/ Observations	BOREHOLE Log	Components
1	Hand Auger		▽		0.00			FILL; Sandy silt, non plastic, poorly sorted, pale brown, dry, fine to medium grained sand, sub - rounded, fine to medium grained gravel.	D				Gatic
					0.40			FILL; Sandy silt, non plastic, poorly sorted, pale brown and yellow/brown, dry, fine to medium grained sand, sub - rounded, fine to medium grained gravel.	D				Grout
					0.60		SW		D				Bentonite
					0.90		SW	SAND; fine to medium grained, moderately well sorted, pale brown, dry.	D				
					1.10		SW	SAND; fine grained, well sorted, pale brown, dry.	D				
2	Push Tube							SAND; fine grained, well sorted, white/yellow, dry.					
					2.60		SW	SAND; fine grained, well sorted, white/yellow with orange mottle, wet.	W				Filter Pack (Sand 2 - 3 mm)
3					3.00		SW	SAND; fine grained, well sorted, medium grey, wet.	W				Screen
4	Hollow Auger Screwing				4.50			End of borehole at 4.5 metres. Target Depth					
5													

See standard sheets for details of abbreviations & basis of descriptions

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CONSULTING GEOTECHNICAL ENGINEERS AND GEOLOGISTS

Job No. 3319080

Appendix F – Waste Disposal Certificates

EPA *WasteTracker 000*

TRANSPORT CERTIFICATE - No. 5T00323410

Created by : Laura Forristal
CA no: 5C00028030
Status: Processed
CA start date: 25-Mar-2019
CA end date: 24-Mar-2020

PART 1 (this part to be completed by consignor at pickup)

CONSIGNOR

VARIOUS - PRODUCER
VARIOUS LOCATIONS SA
VARIOUS, SA 5000

Role: Producer
ABN/ACN:
ANZSIC #: 2919
Licence #: N/A

Contact: ENVIRONMENT PROTECTION A
Phone: (08) 8204 2000
Fax: N/A
Emergency: (08) 8204 2000
Email: N/A

Pickup details: As above

WASTE See attachment for details of additional wastes transported under this TC

Waste code: J120 - Waste oil/water, hydrocarbons/water mixtures or emulsions
Description: Oil/hydrocarbon mixed with water nos
Form: Liquid
Proposed treatment: Chemical/Physical treatment
Contaminants: N/A

This section is not administered by EPA - contact SafeWork SA 1300 365 255 www.safeworksa.sa.gov.au)
Dangerous goods class: **Subsidiary risk class:** **UN no.:**
Packaging type: **Packing group no:** **No. package:**

Waste amount at pick up: 1,435.00 Litres - (Required)
Waste amount at arrival: 1,435.00 L
Processing treatment: Chemical/Physical treatment

PICKUP

Pick-up date: 18/04/2019 12:00:00 **Intended delivery date:** 20/04/2019

PART 2 - TRANSPORTER (this part to be completed by the transporter at pickup)

CLEANAWAY OPERATIONS PTY LTD - 15319
GEORGE STREET
VARIOUS, SA 5000

Licence #: 15319
Vehicle reg: SB68CR
Transport type: Road
Transit State: SA

Contact: TERRY SOUKOULIS
Phone: (08) 8344 0900
Fax: N/A
Email: terry.soukoulis@cleanaway.com.au

PART 3 - RECEIVING FACILITY (this part to be completed by the receiving facility)

CLEANAWAY OPERATIONS PTY LTD - 15195 (R)
GEORGE STREET
WINGFIELD, SA 5013

Licence #: 15195
Facility ref #: N/A

Contact: DAVID LEANEY
Phone: (08) 8344 0900
Fax:
Email: david.leaney@cleanaway.com.au

Date waste arrived at the facility: 18/04/2019
Acceptance date: 18/04/2019
Date processed: 18/04/2019
Date rejected waste accepted:

NOTE (including any discrepancies)

If any of the information in Parts 1 and 2 is not correct and it is not practical at the time to change the information in *WasteTracker* and print a new version of the certificate, the consignor or transporter must write and initial any corrections on the certificate. The receiving facility must ensure these corrections are entered into *WasteTracker* as soon as practicable afterwards.

EPA *WasteTracker 000*

TRANSPORT CERTIFICATE - No. 5T00323410

Created by : Laura Forristal
CA no: 5C00028030
Status: Processed
CA start date: 25-Mar-2019
CA end date: 24-Mar-2020

ADDITIONAL WASTES

This consignment authorisation permits the wastes described below to be transported provided the consignor, transporter and receiving facility comply with the conditions of this approval and other EPA regulations.

Waste code: N120 - Soils contaminated with a controlled waste
Description: Contaminated soil - unclassified
Form: Solid
Proposed treatment: Chemical/Physical treatment
Contaminants: N/A

Waste amount at pickup: N/A
Waste amount at arrival: N/A
Processing treatment: N/A

Appendix G – Calibration Certificates

Oil / Water Interface Meter

airmet

Air-Met Scientific Pty Ltd
1300 137 067

Instrument	**Geotech Interface Meter (60M)**
Serial No.	**3968**

Item	Test	Pass	Comments
Battery	Compartment	✓	
	Capacity	✓	8.5 V
Probe	Cleaned/Decon.	✓	
	Operation	✓	
Connectors			
Tape Check Connectors	Cleaned	✓	
	Checked for cuts	✓	
Instrument Test	At surface level	✓	

Certificate of Calibration

This is to certify that the above instrument has been cleaned and tested.

Calibrated by: JDM James Draper

Calibration date: 08-Apr-19

Multi Parameter Water Meter

Instrument **YSI Quatro Pro Plus**
Serial No. **18G103308**

airmet
Air-Met Scientific Pty Ltd
1300 137 067

Item	Test	Pass	Comments
Battery	Charge Condition	✓	
	Fuses	✓	
	Capacity	✓	
Switch/keypad	Operation	✓	
Display	Intensity	✓	
	Operation (segments)	✓	
Grill Filter	Condition	✓	
	Seal	✓	
PCB	Condition	✓	
Connectors	Condition	✓	
Sensor	1. pH	✓	
	2. mV	✓	
	3. EC	✓	
	4. D.O	✓	
	5. Temp	✓	
Alarms	Beeper		
	Settings		
Software	Version		
Data logger	Operation		
Download	Operation		
Other tests:			

Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:

Sensor	Serial no	Standard Solutions	Certified	Solution Bottle Number	Instrument Reading
1. D.O		0 ppm		5656	0 ppm
2. Conductivity		2760uS		324347	2780uS
3. pH7		pH 7.00		320613	pH 7.01
4. pH4		pH 4.00		324985	pH 4.00
5. ORP mV		240.5 mV		314446/312984	238.4 mV
7. Temp °C		18.5		Multimeter	18.4

Calibrated by: JDW **James Draper**

Calibration date: **10-Apr-19**

Next calibration due: **7-Oct-19**

Appendix H – COC and Lab Reports

CHAIN OF CUSTODY - Client

ENVIROLAB GROUP - National phone number 1300 42 43 44

Sydney Lab - Envirolab Services
12 Ashley St, Chatswood, NSW 2067
Ph 02 9910 6200 / sydney@envirolab.com.au

Perth Lab - MPL Laboratories
16-18 Hayden Crt Myaree, WA 6154
Ph 08 9317 2505 / lab@mpl.com.au

Melbourne Lab - Envirolab Services
1A Dalmore Drive Scoresby VIC 3179
Ph 03 9763 2500 / melbourne@envirolab.com.au

Brisbane Office - Envirolab Services
20a, 10-20 Depot St, Banyo, QLD 4014
Ph 07 3266 9532 / brisbane@envirolab.com.au

Adelaide Office - Envirolab Services
7A The Parade Norwood SA 5067
Ph 0406 350 706 / adelaide@envirolab.com.au

Client: GHD Pty Ltd (Adelaide)	**Client Project Name / Number / Site etc (ie report title):** 3319080: Largs North Station Off-site GW Use Survey & GW Investigation
Contact Person: Joel Chance	
Project Mgr: Dilara Valiff	**PO No.: 3319080**
Sampler: Joel Chance	**Envirolab Quote No. :** 19SA002
Address: Level 4, 211 Victoria Square. Adelaide, SA, 5000.	**Date results required:** N/A
	Or choose: Standard
Phone: Mob: 0439 277 657	**Report format: esdat**
Email: joel.chance@ghd.com, dilara.valiff@ghd.com	**Lab Comments: N/A**

Sample information					Tests Required	Comments
Envirolab Sample ID	**Client Sample ID or information**	**Depth**	**Date sampled**	**Type of sample**	**PFAS (Short - Suite)**	**Provide as much information about the sample as you can**
	RB01 1	N/A	11-4-19	Water	X	
	MW01 2	N/A	11/04/2019	Water	X	
	MW02 3	N/A	11/04/2019	Water	X	
	MW03 4	N/A	11/04/2019	Water	X	
	MW04 5	N/A	11/04/2019	Water	X	
	MW05 6	N/A	11/04/2019	Water	X	
	MW06 7	N/A	11/04/2019	Water	X	
	MW07 8	N/A	11/04/2019	Water	X	
	MW08 9	N/A	11/04/2019	Water	X	
	MW09 10	N/A	11/04/2019	Water	X	
	MW10 11	N/A	11/04/2019	Water	X	
	MW11 12	N/A	11/04/2019	Water	X	
	PAE Well 13	N/A	11/04/2019	Water	X	
	QA01 14	N/A	11/04/2019	Water	X	
	QA02 15	N/A	11/04/2019	Water	X	Forward to MGT Eurofins

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 215567
Date Received: 12/4/2019
Time Received: 10.50
Received by: PZ
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None 10.1

Relinquished by (Company):	GHD Pty Ltd	**Received by (Company):** ELS / Ely	
Print Name:	Joel Chance	**Print Name:** Alex Stenta / Play	
Date & Time:	11/04/2019	**Date & Time:** 11/4/19 @ 11am / 12/4/2019	
Signature:	JC	**Signature:** Alex / PZ	

Lab use only:
Samples Received: Ambient Ice pack →
Temperature Received at: N/A frozen water
Transported by: Hand delivered

White - Lab copy / Blue - Client copy / Pink - Retain in Book

bottle PZ

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

Client	GHD Pty Ltd
Attention	Joel Chance, Dilara Valiff

Sample Login Details

Your reference	3319080
Envirolab Reference	215567
Date Sample Received	12/04/2019
Date Instructions Received	12/04/2019
Date Results Expected to be Reported	23/04/2019

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	15 Water
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	10.1
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

Sample ID	PFAS in Waters Short
RB01	✓
MW01	✓
MW02	✓
MW03	✓
MW04	✓
MW05	✓
MW06	✓
MW07	✓
MW08	✓
MW09	✓
MW10	✓
MW11	✓
PAE Well	✓
QA01	✓
QA02	✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 215567

Client Details

Client	GHD Pty Ltd
Attention	Joel Chance, Dilara Valiff
Address	GPO Box 2052, Adelaide, SA, 5001

Sample Details

Your Reference	**3319080**
Number of Samples	15 Water
Date samples received	12/04/2019
Date completed instructions received	12/04/2019

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

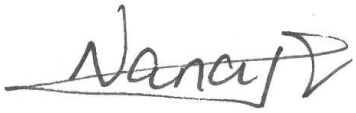
Date results requested by	18/04/2019
Date of Issue	17/04/2019

NATA Accreditation Number 2901. This document shall not be reproduced except in full.

Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Phalak Inthakesone, Organics Development Manager, Sydney

Authorised By



Nancy Zhang, Laboratory Manager

PFAS in Waters Short						
Our Reference	UNITS	215567-1	215567-2	215567-3	215567-4	215567-5
Your Reference		RB01	MW01	MW02	MW03	MW04
Date Sampled		27/02/2019	27/02/2019	27/02/2019	27/02/2019	27/02/2019
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	16/04/2019	16/04/2019	16/04/2019	16/04/2019	16/04/2019
Date analysed	-	16/04/2019	16/04/2019	16/04/2019	16/04/2019	16/04/2019
Perfluorohexanesulfonic acid - PFHxS	µg/L	<0.01	0.30	3.4	5.1	86
Perfluorooctanesulfonic acid PFOS	µg/L	<0.01	0.07	9.0	3.1	130
Perfluorooctanoic acid PFOA	µg/L	<0.01	0.02	0.07	0.13	4.2
6:2 FTS	µg/L	<0.01	<0.01	<0.01	<0.01	4.9
8:2 FTS	µg/L	<0.01	<0.01	<0.01	<0.01	0.36
Surrogate $^{13}C_8$ *PFOS*	%	94	99	99	99	129
Surrogate $^{13}C_2$ *PFOA*	%	100	101	102	102	103
Extracted ISTD $^{18}O_2$ *PFHxS*	%	94	98	91	91	90
Extracted ISTD $^{13}C_4$ *PFOS*	%	87	88	74	90	98
Extracted ISTD $^{13}C_4$ *PFOA*	%	92	94	93	95	73
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	99	108	106	106	70
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	94	95	98	85	100
Total Positive PFHxS & PFOS	µg/L	<0.01	0.37	12	8.2	220
Total Positive PFOA & PFOS	µg/L	<0.01	0.09	9.1	3.2	130
Total Positive PFAS	µg/L	<0.01	0.39	12	8.3	230

PFAS in Waters Short						
Our Reference		215567-6	215567-7	215567-8	215567-9	215567-10
Your Reference	UNITS	MW05	MW06	MW07	MW08	MW09
Date Sampled		27/02/2019	27/02/2019	27/02/2019	27/02/2019	27/02/2019
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	16/04/2019	16/04/2019	16/04/2019	16/04/2019	16/04/2019
Date analysed	-	16/04/2019	16/04/2019	16/04/2019	16/04/2019	16/04/2019
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.02	0.04	0.1	0.77	0.47
Perfluorooctanesulfonic acid PFOS	µg/L	0.07	0.11	0.39	0.15	0.02
Perfluorooctanoic acid PFOA	µg/L	<0.01	<0.01	<0.01	0.03	0.02
6:2 FTS	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
8:2 FTS	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Surrogate $^{13}C_8$ *PFOS*	%	102	106	103	102	96
Surrogate $^{13}C_2$ *PFOA*	%	100	102	103	103	101
Extracted ISTD $^{18}O_2$ *PFHxS*	%	97	100	99	98	97
Extracted ISTD $^{13}C_4$ *PFOS*	%	88	90	89	89	89
Extracted ISTD $^{13}C_4$ *PFOA*	%	96	97	96	93	93
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	109	116	111	100	109
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	99	95	94	86	101
Total Positive PFHxS & PFOS	µg/L	0.09	0.16	0.48	0.92	0.49
Total Positive PFOA & PFOS	µg/L	0.07	0.11	0.39	0.18	0.03
Total Positive PFAS	µg/L	0.09	0.16	0.48	0.95	0.51

PFAS in Waters Short						
Our Reference		215567-11	215567-12	215567-13	215567-14	215567-15
Your Reference	UNITS	MW10	MW11	PAE Well	QA01	QA02
Date Sampled		27/02/2019	27/02/2019	27/02/2019	27/02/2019	27/02/2019
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	16/04/2019	16/04/2019	16/04/2019	16/04/2019	16/04/2019
Date analysed	-	16/04/2019	16/04/2019	16/04/2019	16/04/2019	16/04/2019
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.13	0.50	<0.01	0.82	0.73
Perfluorooctanesulfonic acid PFOS	µg/L	0.04	0.02	0.02	0.15	0.13
Perfluorooctanoic acid PFOA	µg/L	<0.01	0.03	0.01	0.03	0.03
6:2 FTS	µg/L	<0.01	<0.01	<0.01	0.01	<0.01
8:2 FTS	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Surrogate $^{13}C_8$ *PFOS*	%	102	105	104	105	99
Surrogate $^{13}C_2$ *PFOA*	%	100	102	103	103	106
Extracted ISTD $^{18}O_2$ *PFHxS*	%	100	101	106	104	101
Extracted ISTD $^{13}C_4$ *PFOS*	%	88	93	93	90	95
Extracted ISTD $^{13}C_4$ *PFOA*	%	97	99	100	96	96
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	114	110	94	116	113
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	82	91	78	87	81
Total Positive PFHxS & PFOS	µg/L	0.17	0.52	0.02	0.97	0.86
Total Positive PFOA & PFOS	µg/L	0.04	0.05	0.03	0.18	0.16
Total Positive PFAS	µg/L	0.17	0.54	0.03	1.0	0.89

Method ID	Methodology Summary
Org-035	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.1 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.

QUALITY CONTROL: PFAS in Waters Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	215567-2
Date prepared	-			16/04/2019	1	16/04/2019	16/04/2019		16/04/2019	16/04/2019
Date analysed	-			16/04/2019	1	16/04/2019	16/04/2019		16/04/2019	16/04/2019
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.01	Org-035	<0.01	1	<0.01	<0.01	0	112	112
Perfluorooctanesulfonic acid PFOS	µg/L	0.01	Org-035	<0.01	1	<0.01	<0.01	0	113	110
Perfluorooctanoic acid PFOA	µg/L	0.01	Org-035	<0.01	1	<0.01	<0.01	0	114	113
6:2 FTS	µg/L	0.01	Org-035	<0.01	1	<0.01	<0.01	0	123	122
8:2 FTS	µg/L	0.01	Org-035	<0.01	1	<0.01	<0.01	0	119	109
Surrogate $^{13}C_8$ *PFOS*	%		Org-035	98	1	94	96	2	98	100
Surrogate $^{13}C_2$ *PFOA*	%		Org-035	104	1	100	102	2	101	102
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-035	90	1	94	93	1	93	94
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-035	86	1	87	84	4	83	84
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-035	86	1	92	89	3	85	86
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-035	88	1	99	98	1	75	92
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-035	84	1	94	91	3	76	84

QUALITY CONTROL: PFAS in Waters Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	11	16/04/2019	16/04/2019		[NT]	[NT]
Date analysed	-			[NT]	11	16/04/2019	16/04/2019		[NT]	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.01	Org-035	[NT]	11	0.13	0.13	0	[NT]	[NT]
Perfluorooctanesulfonic acid PFOS	µg/L	0.01	Org-035	[NT]	11	0.04	0.03	29	[NT]	[NT]
Perfluorooctanoic acid PFOA	µg/L	0.01	Org-035	[NT]	11	<0.01	<0.01	0	[NT]	[NT]
6:2 FTS	µg/L	0.01	Org-035	[NT]	11	<0.01	<0.01	0	[NT]	[NT]
8:2 FTS	µg/L	0.01	Org-035	[NT]	11	<0.01	<0.01	0	[NT]	[NT]
Surrogate $^{13}C_8$ *PFOS*	%		Org-035	[NT]	11	102	107	5	[NT]	[NT]
Surrogate $^{13}C_2$ *PFOA*	%		Org-035	[NT]	11	100	103	3	[NT]	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-035	[NT]	11	100	99	1	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-035	[NT]	11	88	89	1	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-035	[NT]	11	97	97	0	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-035	[NT]	11	114	113	1	[NT]	[NT]

QUALITY CONTROL: PFAS in Waters Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD $^{13}C_2$ 8:2FTS	%		Org-035	[NT]	11	82	90	9	[NT]	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

GHD Pty Ltd
GPO Box 2052
Adelaide
SA 5001

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Dilara Valiff**

Report **654940-W**
Project name 3319080: LARGS NORTH STATION OFF-SITE GW USE SURVEY & GW INVESTIGATION
Received Date May 10, 2019

Client Sample ID			**QA02**
Sample Matrix			**Water**
Eurofins | mgt Sample No.			**S19-My16312**
Date Sampled			**Apr 11, 2019**
Test/Reference	LOR	Unit	
Per- and Polyfluoroalkyl Substances (PFASs) - Short			
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	0.05	ug/L	< 0.05
13C2-6:2 FTSA (surr.)	1	%	12
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	[N09]0.85
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]0.09
18O2-PFHxS (surr.)	1	%	41
13C8-PFOS (surr.)	1	%	35
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	[N09]0.03
13C8-PFOA (surr.)	1	%	41
Sum (PFHxS + PFOS)*	0.01	ug/L	0.94
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.12
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.97

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Per- and Polyfluoroalkyl Substances (PFASs) - Short	Brisbane	May 14, 2019	14 Days

- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)

eurofins | mgt

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Site # 1254 & 14271

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NATA # 1261 Site # 18217

Brisbane
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Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth
2/91 Leach Highway
Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Company Name:	GHD Pty Ltd SA	**Order No.:**	3319080	**Received:**	May 10, 2019 1:37 PM
Address:	GPO Box 2052 Adelaide SA 5001	**Report #:**	654940	**Due:**	May 17, 2019
		Phone:	08 8111 6600	**Priority:**	5 Day
		Fax:	08 8111 6699	**Contact Name:**	Dilara Valiff

Project Name: 3319080: LARGS NORTH STATION OFF-SITE GW USE SURVEY & GW INVESTIGATION

Eurofins | mgt Analytical Services Manager : Michael Cassidy

Sample Detail						Per- and Polyfluoroalkyl Substances (PFASs) - Short
Melbourne Laboratory - NATA Site # 1254 & 14271						
Sydney Laboratory - NATA Site # 18217						
Brisbane Laboratory - NATA Site # 20794						X
Perth Laboratory - NATA Site # 23736						
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	QA02	Apr 11, 2019		Water	S19-My16312	X
Test Counts						1

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure, April 2011 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.2 2018
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 50-150%-Phenols & PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.2 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Per- and Polyfluoroalkyl Substances (PFASs) - Short							
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/L	< 0.05			0.05	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01			0.01	Pass	
LCS - % Recovery							
Per- and Polyfluoroalkyl Substances (PFASs) - Short							
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	114			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	103			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	96			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	103			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Per- and Polyfluoroalkyl Substances (PFASs) - Short				Result 1					
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	B19-My15882	NCP	%	91			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	B19-My15882	NCP	%	109			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	B19-My15882	NCP	%	95			50-150	Pass	
Perfluorooctanoic acid (PFOA)	B19-My15882	NCP	%	106			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Per- and Polyfluoroalkyl Substances (PFASs) - Short				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S19-My15929	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S19-My15929	NCP	ug/L	0.05	0.06	6.0	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S19-My15929	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	S19-My15929	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N09	Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear/branched standard.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.

Authorised By

Michael Cassidy	Analytical Services Manager
Bryan Wilson	Senior Analyst-PFAS (QLD)

Glenn Jackson
General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Appendix I – Water Use Survey Questionnaire

Water Use and Home Produce Survey- Largs North Fire Station

The purpose of this survey is to obtain information from you about your water use. Information collected will help us determine the extent of bore use in the area and how bores are being used. This will assist us in determining what additional sampling needs to be conducted within the investigation area to better understand the hydrogeological characteristics adjacent to the Largs North Fire Station.

This information is being collected by GHD on behalf of the Metropolitan Fire Service (MFS).

The MFS is responsible for the protection of the South Australian community from the effects of fire, chemical incidents and other emergencies. The MFS employs more than 1,000 staff across 36 stations (20 metropolitan and 16 regional) in South Australia. Historically, PFAS containing fire-fighting foam was used at the Largs North Fire Station.

PFAS stands for 'per- and poly- fluoroalkyl substance'. PFASs are ingredients in some common domestic products such as paints, dishwasher rinse aids, and textile treatments (water proofing, stain prevention) along with certain types of fire fighting foam called AFFF (aqueous film forming foams. PFAS can accumulate and breaks down very slowly in the environment so it has been phased out. Since 2016, the fire fighting foams used by MFS do not contain any PFAS.

The requested information will help inform Airservices' investigation of groundwater use in areas adjacent to the Largs North Fire Station.

The collection of this information is voluntary.

The information you provide may be shared with MFS technical advisors, the Commonwealth Government, and relevant SA government agencies, organisations, and entities directly involved in groundwater regulation. Such organisations may include, but are not limited to: SA Environmental Protection Agency, SA Department of Health, SA Department for Environment and Water, SA Water.

MFS Privacy Policy is available at: http://www.mfs.sa.gov.au/site/home/privacy.jsp MFS Privacy Policy contains information on how an individual may apply for access to their personal information and how an individual may apply to have their personal information amended. If you have any privacy concerns, please contact MFS by email at enquiry@samfs.sa.gov.au

Water Use and Home Produce Survey- Largs North Fire Station

SECTION 1: RESPONDENT INFORMATION

* 1. Tell us a bit about yourself

Name*

Address*

Suburb*

Email address (optional)

Phone number (optional)

SECTION 2: PROPERTY WATER SUPPLY SOURCE

2. What type of property are you responding about?

- ◯ Private residential
- ◯ Industrial / commercial
- ◯ Community / recreational
- ◯ Other (please specify)

* 3. How is water supplied to the dwelling / building(s) on your property? (tick all that apply)

- ☐ SA Water (mains connection)
- ☐ Tank / rainwater
- ☐ Bore water
- ☐ Recycled water

* 4. How is water supplied to your property for outdoor / non-household use? (tick all that apply)

- ☐ SA Water (mains connection)
- ☐ Tank / rainwater
- ☐ Bore water
- ☐ Recycled water

SECTION 3: BORE WATER USE

5. Do you have a groundwater bore(s) at your property?

- ◯ Yes
- ◯ No

Water Use and Home Produce Survey- Largs North Fire Station

6. How many active bores do you have on your property (in working condition)?

- ◯ None
- ◯ 1
- ◯ 2
- ◯ 3 or more bores

Water Use and Home Produce Survey- Largs North Fire Station

7. What activities do you currently use bore water for on your property?
(tick all that apply)

- [ ] Drinking water
- [ ] Other house (cooking, showering, washing, etc.)
- [ ] Vegetables
- [ ] Fruit trees
- [ ] Other (please specify)
- [ ] Irrigation (lawn)
- [ ] Swimming
- [ ] Pets/ livestock

8. Is your bore plumbed into the house and used for household or domestic purposes (other than flushing toilets?)

- ( ) Yes - the bore is plumbed directly to the house and supplies household water
- ( ) Yes - the bore is connected to rainwater tanks which supply household water
- ( ) No - the bore is not connected to the house

9. Do you have rainwater tanks to supply water at your property?

- ( ) Yes
- ( ) No

10. Have your household rainwater tanks contained bore water, either currently or historically?

- ◯ Yes- my household rainwater tanks are currently mixed with bore water
- ◯ Yes- in the past
- ◯ No- bore water has not been used in rainwater tanks

SECTION 4: PRODUCE AND POULTRY ON YOUR PROPERTY

11. Do you have fruit trees on your property?

- ◯ Yes, there are fruit trees
- ◯ No

Water Use and Home Produce Survey- Largs North Fire Station

12. Do you, or anyone in your household, eat fruit grown on your property?

- ◯ Yes, fruit grown at home is eaten my me or a household member
- ◯ No- no one eats the fruit

13. Do you, or anyone in your household, eat vegetables that you grow (on your property)?

- ◯ Yes, vegetables grown at home are eaten by me or other members of the household
- ◯ No

14. Do you have chickens or other poultry on your property?

- ◯ Yes- I have chickens
- ◯ Yes- other poultry
- ◯ No

Water Use and Home Produce Survey- Largs North Fire Station

15. Do you, or anyone in your household, consume eggs from your chickens or other poultry on your property?

- ◯ Yes, eggs from the chickens raised on my property are eaten my me or a household member
- ◯ Yes, eggs from other poultry raised on my property are eaten my me or a household member
- ◯ No

16. Do you, or anyone in your household, consume chickens or other poultry (bird meat) raised on your property?

- ◯ Yes, chickens raised on my property are eaten by me or another household member
- ◯ Yes, other poultry raised on my property is eaten by me or another household member
- ◯ No

Appendix J - QA/QC

Data quality objectives and quality assurance / quality control

I.1 Data quality objectives

The data quality objectives (DQOs) and investigation strategy had been developed using the methodology discussed in NEPM Schedule B (2) *Guideline on Data Collection, Sample Design and Reporting.* The guideline nominated the implementation of the DQO process in Section 5 of AS4482.1-2005. The purpose of the DQO process was to ensure that the data collection activities are focused on collecting the information needed to make decisions, and answering the relevant questions leading up to such decisions.

The Data Quality Objectives (DQOs) established a framework for contamination investigations which incorporated a seven stepped continuum that defines the problem at the site. A series of stages then optimised the design of the investigation. The seven steps are outlined below:

- Step 1: State the Problem
- Step 2: Identify the Principal Study Question
- Step 3: Inputs to the Decision
- Step 4: Boundaries of the Study
- Step 5: Decision Rules
- Step 6: Tolerable Limits on Decision Errors
- Step 7: Optimisation of the Data Collection Process

An overview of the DQOs for the investigation is presented below.

I.1.1 Step 1: state the problem

The South Australian Metropolitan Fire Service (MFS) engaged GHD Pty Ltd (GHD) to undertake this environmental investigation in the vicinity of the Largs North Fire Station (the site) following the detection of elevated per and poly fluoroalkyl substance (PFAS) results in groundwater beneath the site during the environmental investigation undertaken by GHD in December 2018 – February 2019, as documented in GHD, 2019, *South Australian Metropolitan Fire Service, Largs North and Gallantry PFAS Testing, Detailed Site Investigation Report.*

During the environmental investigation (GHD, 2019), PFAS was detected in groundwater beneath the site exceeding the following criteria as documented in the PFAS NEMP (HEPA, 2018): Recreational Water (MW02 – MW04), Drinking Water (MW02 – MW04), and Interim Marine 99% (MW01 – MW04). The results of the investigation prompted MFS, in consultation with the SA EPA and other stakeholders, to engage GHD to undertake an environmental investigation of groundwater up and down hydraulic gradient of the site to assess and ascertain the source(s) and extent of PFAS contamination.

I.1.2 Step 2: Identify the principal study question

The Environmental Investigation was based on the objectives listed in Section 1.2.

I.1.3 Step 3: Inputs to the decision

The following inputs were required for the decision:

- Quantitative and qualitative data gained through intrusive sampling, analytical works and observations during intrusive investigations.

I.1.4 Step 4: Boundaries of the study

Spatial boundaries for the assessment area are defined by the extent of the onsite and offsite well network. The vertical extent of the investigations limited to 4.5 mBGL.

I.1.5 Step 5: Decision rules

Groundwater analytical data was assessed against the criteria adopted from relevant guidance as discussed in Section 4.

I.1.6 Step 6: Tolerable limits on decision errors

Data generated as part of the Environmental Investigation must be appropriate to allow decisions to be made with confidence. Specific limits were adopted in accordance with the appropriate guidance from the AS4482.1 which included appropriate indicators of data quality [data quality indicators (DQIs) used to assess QA/QC and GHD's Standard Field Operating Procedures].

To assess the usability of the data prior to making decisions, the data was assessed against pre-determined DQIs. The DQIs including precision, accuracy, representativeness, comparability and completeness, were reviewed at the completion of the Environmental Investigation to assess for the presence of decision errors.

The pre-determined DQIs established for the investigation are discussed below and shown in Table I-1.

- Precision - measured the reproducibility of measurements under a given set of conditions. The precision of the laboratory data and sampling techniques was assessed by calculating the Relative Percentage Difference (RPD) of duplicate samples
- Accuracy - measured the bias in a measurement system. The accuracy of the laboratory data generated during this investigation is a measure of the closeness of the analytical results obtained by a method to the 'true' (or standard) value. Accuracy was assessed by reference to the analytical results of laboratory control samples, laboratory spikes and analyses against reference standards
- Representativeness - expressed the degree to which sample data accurately and precisely represented a characteristic of a population or an environmental condition. Representativeness was achieved by collecting samples on a representative basis across the site, and by using an adequate number of sample locations to characterise the site to the required accuracy
- Comparability - expressed the confidence with which one data set could be compared with another. This was achieved through maintaining a level of consistency in techniques used to collect samples; ensuring analysing laboratories used consistent analysis techniques and reporting methods
- Completeness - was defined as the percentage of measurements made which are judged to be valid measurements.

Table I-1 Summary of quality assurance / quality control criteria

Data quality indicator	Frequency	Data quality acceptance criteria
Precision		
Duplicates (Intra-Laboratory) Duplicates (Inter-Laboratory)	1 / 20 samples 1 / 20 samples	30% - 50% of mean concentration of analyte, however, this variation can be expected to be higher for organic analyses than for inorganics, and for low concentrations of analytes.
Accuracy		
Laboratory (Method) Blank	One sample per batch of 20 samples or fewer	Less than detection limit or limit of reporting (LOR) of the method used.
Laboratory Control Spike		Dynamic Limits varying on previous laboratory data.
Laboratory Spike (Surrogate and Matrix)		Percent recovery is used to assess spiked samples and surrogate standards. Percent recovery is dependent on the type of analyte tested, the concentrations of analytes, and the sample matrix. For matrix spikes Eurofins adopts a matrix spike recovery range of 70-130%. For surrogate spikes Eurofins adopts static limits that vary dependant on matrix and surrogate compounds.
Laboratory Duplicates	One sample per batch of 10 samples or fewer	Laboratory duplicate samples should have RPD's within the NEPM acceptance criteria of ±30%. The laboratory RPDs have been assessed using the following ranges: Results <10 times LOR: no limits. Results between 10 and 20 times LOR 0% - 50%. Results >20 times LOR: 0-20%.
Representativeness		
Sampling appropriate for media and analytes Samples extracted and analysed within holding times	All samples All samples	- Organics (14 days) Inorganics (6 months)
LORs appropriate and consistent	All samples	All samples
Comparability		
Consistent field conditions, sampling staff and laboratory analysis	All samples	All samples
Standard operating procedures for sample collection & handling	All samples	All samples
Standard analytical methods used for all analyses	All samples	All samples
Completeness		
Sample description and COCs completed and appropriate	All Samples	All Samples

Data quality indicator	Frequency	Data quality acceptance criteria
Appropriate documentation	All Samples	All Samples
Satisfactory frequency and result for QA/QC samples	All QA/QC samples	-
Data from critical samples is considered valid	-	Critical samples valid
Notes: COC: Chain of Custody LOR: Limit of Reporting QA/QC: Quality assurance / quality control		

I.1.7 Step 7: Optimisation of the data collection process

To optimise the design of the Environmental Investigation, a sampling and analytical program was undertaken. Results (including QA/QC results) were reviewed as they were received from the laboratory and any inconsistencies or unexpected data were further investigated with the laboratory. Corrective actions were implemented as required.

I.2 Field QA/QC

A series of QA/QC procedures were implemented for the field investigation works, which included:

- Collection of QC Samples
- Use of standard sampling procedures
- Use of standard field sampling forms, including Chain of Custodies (COCs)
- Documenting the calibration and use of field equipment.

All field works were conducted by a GHD environmental scientist in accordance with GHD's *Standard Field Operating Procedures* (SFOP).

I.2.1 QA/QC sampling

Field QA/QC samples were collected and analysed. Field QC sampling was conducted in reference to AS 4482.1: 2005 and NEPM 2013 Schedule B (3) requirements and included the analyses of the following types of samples in Table I-2.

Table I-2 Field QA/QC sample details

Field QA/QC sample type	Details
Intra-Laboratory Duplicate (Blind)	Comprise a single sample that is divided into two separate sampling containers. Both samples are sent anonymously to the primary project laboratory. Blind duplicates provide an indication of the analytical precision of the laboratory, but are inherently influenced by other factors such as sampling techniques and sample media heterogeneity.
Inter-Laboratory Duplicate (Split)	Inter-Laboratory Duplicate (Split) samples are two separate samples collected at the same location and analysed by two separate laboratories to determine the analytical proficiency of the primary laboratory.
Rinsate	A sample of analyte free water poured over or through decontaminated field sampling equipment prior to the collection of environmental samples to assess the adequacy of the decontamination process.

GHD adopted the AS4482.1 acceptance criteria of 30% and 50% RPD for field duplicates of inorganics and organics, respectively. Blind duplicate and split samples should have RPDs less than the criteria in each instance. However it is noted that the criteria will not always be achieved, particularly in heterogeneous materials, or at low analyte concentrations.

GHD consigned all primary groundwater, rinsate and intra-laboratory field duplicate (blind) samples to Envirolab Group for analysis. The analysis of the inter-laboratory duplicate (split) samples, for QC purposes, was scheduled to be completed by MGT Eurofins as per the COC, however, was also completed by Envirolab Group. Envirolab Group was contacted by GHD on the 09/05/2019 and organised for the inter-laboratory duplicate (split) sample to be sent to MGT Eurofins for analysis. This sample's results from MGT Eurofins has been referred to as QA02a.

In the instance where samples and their corresponding duplicates had concentrations of target analytes less than the laboratory LOR, no quantitative comparison could be carried out and therefore the RPD was undefined. This was also the case for situations where the sample result was less than ten times the laboratory LOR.

Duplicate, split and rinsate sample results and Relative Percentage Difference (RPD) calculations are presented in Table 2 in Analytical Results Tables at the end of the report.

I.2.2 Sample handling and preservation

All sample collection methodology is documented in Section 5.

All samples were immediately placed in an insulated cooler containing ice for storage and were delivered by GHD Field Staff to the laboratory upon the completion of field work on a daily basis.

All primary and intra laboratory duplicate samples were analysed within the specified holding times.

All samples were received intact as per the Sample Receipt Notification (included in **Appendix H**).

I.2.3 Chain of custody

Unique Chain of Custody documentation and distinct batch numbers accompany all sample batches. This documentation is included in **Appendix H**.

I.3 Laboratory QA/QC

The laboratory subcontracted by GHD to analyse samples (Envirolab Group) are certified by the NATA for the required analysis. NATA certification provides for laboratory QA procedures to be in place and to be carried out on an on-going basis.

As part of the NATA requirements, the laboratories carried out and reported analysis of laboratory quality control samples, such as:

- Duplicate samples (the same sample analysed more than once)
- Blanks (containing none of the analytes to be analysed)
- Spiked samples (containing known additions of the analytes to appropriate matrices)
- Standard samples (samples containing known concentrations of the analytes - also known as reference standards).

I.3.1 Laboratory QA/QC procedures

As part of NATA requirements, the laboratory incorporated a range of QA methods to ensure accuracy of data. This included the analyses of internal laboratory QC samples, details of which have been provided in Table I-3.

Table I-3 Laboratory QC sample details

Laboratory QA/QC sample	Details
Laboratory (Method) Blank	Usually an organic or aqueous solution that is as free as possible of analytes of interest to which is added all the reagents, in the same volume, as used in the preparation and subsequent analysis of the samples. The reagent blank is carried through the complete sample preparation procedure and contains the same reagent concentrations in the final solution as in the sample solution used for analysis. The reagent blank is used to correct for possible contamination resulting from the preparation or processing of the sample.
Laboratory Control Sample	A reference standard of known concentration is analysed along with a batch of samples. The Laboratory Control Sample provides an indication of the analytical accuracy and the precision of the test method and is used for inorganic analyses.
Laboratory Spike	An authentic field sample is 'spiked' by adding an aliquot of known concentration of the target analyte(s) prior to sample extraction and analysis. A spike documents the effect of the sample matrix on the extraction and analytical techniques. Spiked samples will be analysed for each batch where samples are analysed for organic chemicals of concern.
Surrogate Samples	These are organic compounds which are similar to the analyte of interest in terms of chemical composition, extractability, and chromatographic conditions (retention time), but which are not normally found in environmental samples. These surrogate compounds are 'spiked' into blanks, standards and samples submitted for organic analyses by gas-chromatographic techniques prior to sample extraction. Surrogate Standard / Spikes provide a means of checking that no gross errors have occurred during any stage of the test method leading to significant analyte loss.
Laboratory Duplicates	The analytical laboratory collects duplicate sub samples from one sample submitted for analytical testing at a rate equivalent to one in twenty samples per analytical batch, or one sample per batch if less than twenty samples are analysed in a batch. A laboratory duplicate provides data on the analytical precision and reproducibility of the test result. The precision of analysis performed by the laboratory is determined by the calculation of the relative percent difference (RPD). The RPD is calculated based on a comparison of an intra-laboratory split of the sample material with results representing the percent difference between the two sample concentrations for a specific contaminant. The RPD is calculated using the following formula: $RPD(\%) = \frac{\lvert C_o - C_d \rvert}{C_o + C_d} \times 200$ Where Co = Analyte concentration of the original sample Cd = Analyte concentration of the duplicate sample

The laboratory is required to provide this information to GHD. The individual analytical laboratories conduct an assessment of the laboratory QC program internally; however the results are also reviewed and assessed by GHD.

I.4 Field QC Results

The field QC results analysis below considered all sample types collected as part of the environmental investigation.

I.4.1 Groundwater

A total of twelve (12) primary groundwater samples were collected, submitted and analysed as part of the environmental investigation.

One (1) field duplicate (intra-laboratory) and one (1) split (inter-laboratory) sample was collected and analysed as part of the investigation. Due to lab error, QA02 was tested as both an intra-laboratory sample (referred to as QA02) and an inter-laboratory sample (referred to as QA02a). The target frequency for analysis of field QC samples was 2 replicate samples in 20 primary samples (10%). In this instance, this frequency was achieved for analysis and collection.

The field QC sample collected are provided in the Table I-4.

Table I-4 Analysed field QC samples for groundwater

Site (Groundwater well)	QA sample	QA/QC sample	Primary sample
MW08	QA01	Intra-laboratory	MW08
MW08	QA02	Intra-laboratory	MW08
MW08	QA02a	Inter-laboratory	MW08

No RPD exceedances were identified. Primary and duplicate sample results with calculated RPDs are presented in Table 3 at the end of this report.

I.4.3 Rinsate

One (1) rinsate sample was analysed as part of the environmental investigation. The rinsate sample didn't exceed the laboratory LOR for PFOS / PFHxS (0.01 µg/L) and / or PFOA (0.01 µg/L), therefore indicating, that there was no evidence of cross contamination during sample collection.

Rinsate results are presented in Table 4 at the end of this report.

I.5 Laboratory program

The NATA certified laboratories utilised for this assessment (Envirolab Group and MGT Eurofins) undertook their own internal quality assurance and quality control procedures for sample analysis. GHD has reviewed the internal laboratory control data provided within the laboratory reports, which are provided in **Appendix H**.

I.6 Overall Assessment of Data Quality

As the GHD QA/QC parameters were within the specified requirements, it is considered that the data is valid and of sufficient quality for the purposes of this Environmental Investigation.

Appendix K – Community Engagement

Fact Sheet

Groundwater survey

Q. Who is the Metropolitan Fire Service?

The South Australian Metropolitan Fire Service (MFS) is the primary provider of structural firefighting services to the State of South Australia.

Q. Has PFAS been detected at the Largs North MFS Station?

Historically the MFS used firefighting foam containing PFAS at the Largs North Station. PFAS foam has not been used at Largs North since 2016. The MFS supported a PFAS monitoring program allowing its staff to have voluntary blood tests of PFAS. Several firefighters stationed at Largs North have made the MFS aware of higher than average levels of PFAS in blood samples. The MFS has instigated all necessary measures to cut the exposure pathway and reduce the possible risk to human receptors.

Q. What is PFAS?

PFAS stands for 'per- and poly- fluoroalkyl substance'. PFASs are ingredients in some common domestic products such as paints, dishwasher rinse aids, and textile treatments (water proofing, stain prevention) and in certain types of the fire fighting foams called AFFF (aqueous film forming foams).

Q. Does the MFS still use PFAS containing fire fighting foams?

The MFS does not use fire fighting foam containing PFAS. The MFS ceased the use of fire fighting foam containing PFAS in 2016.

Q. What is the purpose of the survey?

The purpose of this survey is to assess the use of groundwater extraction bores on properties adjacent to the northern boundary of MFS Station.

Q. What will the information from the survey be used for?

The information obtained through this survey will be used by the MFS to determine the extent of bore use in the area, and what the bores are used for, should further environmental investigations need to be undertaken in the area.

Q. Who will participate in the survey?

Bore owners who live within a 400m radius from the northern boundary of the Largs North MFS station will be invited to participate in the survey.

Q. How long does the survey take?

The survey takes about 10 minutes.

Q. Am I allowed to refuse the survey?

The survey is not mandatory. If you do not have a water bore or do not want to complete the survey, please advise the project team.

Q. Can I complete the survey at another time?

The survey can be completed online at a time that is convenient to you. Simply visit https://www.surveymonkey.com/r/MFSLARGS and follow the prompts. The online survey must be completed by Friday 29 March 2019.

Q. Will I be advised of the survey results?

The survey results go into a consolidated report that will be uploaded to the MFS website mid 2019.

Q. Will my personal details be made public?

For privacy reasons, the MFS will not publish your name or address.

Q. Will further investigations be required?

At this stage, it is not known if further investigations are required. Details of the groundwater survey will be shared with MFS technical advisors, Commonwealth and South Australian regulatory authorities.

Q. Will I be kept informed?

The MFS will keep you informed and will work closely with stakeholders and neighbours should additional investigations be required. Information will be available mid 2019.

Q. Where can I get more information?

To speak with a member of the project team, please call 1800 531 899.

1 March 2019

Our ref: 3319080

Dear resident

Groundwater survey

The South Australian Metropolitan Fire Service (MFS) is undertaking a groundwater and land use survey of properties adjacent to the Largs North Fire Station. MFS has engaged environmental consultants GHD Pty Ltd (GHD) to conduct this groundwater survey.

The MFS is the primary provider of structural firefighting services to the State of South Australia. The MFS was established in 1862. The MFS is a fully professional organisation, recognised for excellence of service provision and employs more than 1,000 staff across 36 stations (20 metropolitan and 16 regional) in South Australia.

The MFS is currently conducting investigations at the Largs North Fire Station relating to the historical use of PFAS containing fire-fighting foam at the Station. PFAS stands for 'per- and poly- fluoroalkyl substance'. PFASs are ingredients in some common domestic products such as paints, dishwasher rinse aids, and textile treatments (water proofing, stain prevention) along with certain types of fire fighting foam called AFFF (aqueous film forming foams) that were used previously by the MFS in firefighting activities. Since 2016, the fire fighting foams carried by MFS do not contain any PFAS.

GHD, on behalf of the MFS, are undertaking an assessment of PFAS at the Largs North Fire Station. As part of this assessment, elevated concentrations of PFAS compounds have been identified in groundwater around the Fire Station. The MFS will be undertaking further offsite groundwater investigations to assess the extent of PFAS. As part of these investigations GHD will be undertaking a groundwater and land use survey. The purpose of this survey is to determine the use of groundwater extraction bores adjacent to the Fire Station and what land use activities are occurring adjacent to the Fire Station, regarding growing of fruit and vegetables and/or keeping of poultry.

Members of our project team will be door-knocking landowners and residents on Friday 1 March and Friday 8 March 2019 between 7:30 am and 10:30 am and/or 4 pm and 6 pm. If you are unavailable during these times, but would like to complete the survey, simply visit https://www.surveymonkey.com/r/AdelaideGroundwaterSurvey to complete the survey online by Friday 29 March 2019. The survey should take no longer than 10 minutes to complete.

MFS works cooperatively with a range of government agencies in relation to its monitoring programs. Details of the groundwater survey may be shared with MFS' technical advisor and State regulatory authorities. For privacy reasons, MFS will not share your name or address.

Residents should also note the SA Health advice on bore water use which states that 'in urban settings and where mains water is available, the use of shallow bore water is not recommended'. An information sheet on bore water use is attached to this letter. Additional information can also be found on the SA

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Health website:
http://www.sahealth.sa.gov.au/wps/wcm/connect/public+content/sa+health+internet/protecting+public+health/water+quality/bore+water

Should you desire further information about the groundwater survey, you can contact the project team on 1800 531 899.

Alternatively, additional information about MFS and the survey are attached to this letter. Further information can be found at the MFS website:
http://www.mfs.sa.gov.au/site/publications/other_reporting/community_information.jsp
Information on results will be available mid 2019.

Sincerely
GHD Pty Ltd

Scott Cawrse
Stakeholder Engagement Manager

GHD

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