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# YANDI BOREFIELDS

September 2022

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## 10.1 Introduction

### Outline of licensed operation

This Triannual Aquifer Review (TAR) report is for the Yandi Borefields and covers the review period 1 July 2019 to 30 June 2022 (FY20 to FY22).

Groundwater abstraction is regulated through the *Rights in Water and Irrigation Act 1914* Act 5C Licence to Take Water GWL89501(11). A copy of the GWL is provided in Appendix 10.1. The licensee is BHP Iron Ore Pty Ltd.

The GWL allows the annual abstraction of 20,650,520 kL of groundwater. This water is used to meet site and aerodrome water demands, including dewatering, dust suppression, mineral ore processing, exploration activities, earthworks, construction, mining camp and potable water supply. Groundwater abstraction activities are carried out in accordance with the GWL Operating Strategy for Yandi (BHP Billiton Iron Ore, 2018). Compliance with this licence is reported in Section 10.9.

Dewatering produces more water than site consumption requires. Surplus water is discharged to Marillana Creek. This discharge is regulated under the *Environmental Protection Act 1986* Part V Environmental Licence L6168/1991/11.

The Yandi mine site operates under Ministerial Statement 679 (as amended by Ministerial Statement 1039), which contains conditions relating to groundwater receptors. As discussed in Section 1, compliance against *Environmental Protection Act 1986* requirements is addressed separately in BHP WAIO Annual Environmental Report (AER).

### Location of operation

The Yandi Operation is located approximately 120 km northwest of Newman within the main Hamersley Range, in the Pilbara region of Western Australia. The operation is situated in the East Pilbara subarea of the Pilbara groundwater area (Department of Water, 2013) which is typically classified as fractured-rock aquifers. However, Yandi conducts dewatering and mining of the channel-iron deposits (CID), some of which are commonly referred to as "Creek Constrained Ore" (CCO) due to the connection with Marillana Creek (involving two pits, E1 and E4).

The operation includes dewatering in the Western, Central, and Eastern subareas; and water supply in the Barimunya Aerodrome and Spinifex Camp subareas.

Figure 10.1 shows the location of the borefields in regional context. Figures 10.2 to 10.4 show the layout of the Western, Central, and Eastern sections of the borefields respectively.

### Events of FY22

The following activities took place at Yandi during the last year:

- Continued mining in 11 pits (W1, W2, W3, W5, W6, C1, E1, E2, E4, E35&6, and E7).
- Continued dewatering in all pits, primarily to enable the tactical mine plan and maintain dry backfilling conditions in W4, E2, and E35&6.
- Drilling and construction of additional monitoring bores and production bores in various pits (including W3, W6, and E4).
- Drilling of additional tree health monitoring bores near E7 within Marillana Creek.
- Installation of three new dewatering sumps in E4 to intersect groundwater flowing through the remnant alluvium of Marillana Creek (where diverted around E4).
- Installation of one new groundwater interception bore upgradient of E4 within the remnant alluvium of Marillana Creek.
- Installation of a new dewatering sump in E7 to minimise wet season groundwater rebound following stream flow in Marillana Creek.

## 10.2 Rainfall

The Yandi operation is located within the central Pilbara region with a mean annual rainfall of approximately 312.5 mm (Charles et al, 2013). Monthly rainfall for the review period is shown in Table 10.1. This data is measured at BHP's Yandi weather station.

Plots of monthly rainfall and groundwater levels dating back to July 2012 are included in the monitoring summaries in Figures 10.6 to 10.31.

The total rainfall for FY22 was 283.4 mm, significantly less than the 572.8 mm and 420.2 mm recorded in previous years,

and less than the long-term average of 312.5 mm/year (Charles et al, 2013). The distribution and intensity of rainfall over each year of the review period was generally concentrated in the summer months with rainfall between December and February contributing most of the rainfall for FY21. However, most of the rainfall from FY22 occurred from February to May.

The FY21 rainfall total was the highest since 2018.

**Table 10.1: Yandi Borefields monthly rainfall**

| Month        | Rainfall (mm) |              |              |
|--------------|---------------|--------------|--------------|
|              | FY20          | FY21         | FY22         |
| July         | 2.0           | 12.0         | 0.0          |
| August       | 14.4          | 2.0          | 0.0          |
| September    | 40.2          | 0.0          | 0.0          |
| October      | 1.4           | 2.8          | 0.0          |
| November     | 2.0           | 3.4          | 24.0         |
| December     | 41.6          | 195.2        | 8.2          |
| January      | 187.2         | 77.8         | 28.6         |
| February     | 96.2          | 195.2        | 64.2         |
| March        | 4.0           | 10.2         | 34.6         |
| April        | 11.2          | 46.6         | 10.6         |
| May          | 20.0          | 11.8         | 111.2        |
| June         | 0.0           | 16.0         | 2.0          |
| <b>TOTAL</b> | <b>420.2</b>  | <b>572.8</b> | <b>283.4</b> |

Source: BHP's Yandi weather station.

## 10.3 Hydrogeology

Yandi hydrogeology is described in detail in Aquaterra's "RGP5 Yandi LOM Dewatering Requirements and Discharge Projects (87 MT/a Scenario)" report. A copy of this report has been submitted to DWER in support of previous 5C applications and is summarised below.

### Geology

The Tertiary alluvial deposits at Yandi that comprise the Marillana Formation are part of the TD2 sequence and include the following units:

- Upper CID, previously referred to as the Main Ore Zone (MOZ), primarily comprises CIDs (pisolithic iron deposits) with a thickness of up to 70 m. Discontinuous clay pods occur within this unit, varying from 0.1 to 1 m in thickness and occurring at random intervals.
- Lower CID comprises denatured CID, CID, and Ochreous clay. In central parts of the channel, the ore is pisolithic and comprises goethite and limonite.
- Denatured CID is the interface between Lower CID and Upper CID and is characterised by cavities and high clay content due to secondary deposition of the clay in the cavities. It varies between 0.1 to 6 m in thickness and is a result of the seasonal fluctuation of the water table during dry and wet seasons and subsequent removal of some minerals due to water level changes.
- Basal Clay comprises intercalated clays and CID, often with some conglomerate lenses. It is not mined and is transitional to the Upper or Lower CID units above. It is possible that the increased clay content of this zone was derived from nearby dolerite sills.
- Basal Conglomerate is comprised of clay or a siliceous matrix- to clast-supported conglomerate of banded iron formation (BIF), chert, weathered dolerite, and shale clasts.

Erosion of less competent weathered BIFs left more resistant CID material as mesas standing above the level of the modern valley floor. During this time the modern Marillana Creek was incised in the current land surface.

## Aquifer

There are three recognised aquifer systems within the Yandi Operation area.

- The Marillana Formation, which incorporates the CID orebody, broadly follows the current path of Marillana and Weeli Wollie creeks and forms a major regional aquifer system, approximately 85 km in length (approximately 39 km are on BHP's Yandi tenement AM70/270). This aquifer is heterogeneous, and its permeability varies due to anisotropy, both vertically and laterally. Zones of higher permeability are associated with secondary porosity features, such as cavities (millimetres to metres in dimensions). Marginal sediments have a low permeability but can still transmit groundwater where cavities exist. Permeability is lowest within the Lower CID and Basal Clay/Basal Conglomerate, although there are also zones of cavernous permeability within the Lower CID.
- A shallow aquifer exists in the alluvium associated with Marillana Creek. Drilling and subsequent monitoring indicates a hydraulic connection exists between the Marillana Creek alluvium and the CID aquifer where the two units interface and cross. Elsewhere, the hydraulic connection between these two units is limited, constrained by the presence of alluvial clay layers and low-permeability Weeli Wollie Formation BIFs.
- The basement rocks of the Weeli Wollie Formation constitute a fractured-rock aquifer with hydraulic conductivity at least an order of magnitude lower than the CID or alluvium. Increased groundwater flow in the Weeli Wollie Formation is thought to occur via discrete structures and at the weathering interface with the overlying palaeochannel sediments.

## Groundwater system

Groundwater in the Yandi Borefields region flows preferentially along the CID, which forms a long, narrow aquifer that drains groundwater from the adjacent bedrock (Weeli Wollie Formation) into which it is incised. Regional groundwater flow directions follow the surface hydrology of Marillana Creek, moving downgradient and to the east toward the Weeli Wollie palaeochannel (and Rio Tinto Yandicoogina Operations), which ultimately discharges into Fortescue Marsh.

## 10.4 Borefield description

In FY22, the Yandi Borefields included:

- 84 operational production bores.
- 9 operational sumps.
- 2 operational discharge points.
- 42 associated monitoring bores.

Details of bores for the review period (FY20 to FY22) are provided in Appendix 10.2.

Borehole logs for new production bores drilled during FY22 are included in Appendix 10.3.

## 10.5 Groundwater abstraction and water use

The current annual water entitlement (allocation) for the Yandi Borefield abstraction is 20,650,520 kL.

During FY22, the total groundwater abstracted was 9,585,183 kL or 46% of the authorised allocation. The abstraction from each borehole for the review period is shown in Table 10.2.

The Yandi Borefields water balance diagram illustrating the groundwater usage for the review period is shown in Figure 10.5.

Monthly abstraction from active production bores and water levels dating back to July 2019 are included in the monitoring summaries in Figures 10.6 to 10.19. Figures 10.20 to 10.31 show monthly total abstraction for the same period compared to field chemistry data.

During FY22, groundwater abstracted for dewatering operations and not used in mining operations was discharged into Marillana Creek at two locations. Total discharge during the review period was 4,296,122 kL, as shown in Table 10.2. Due to the potential for recirculation between the creek alluvium and the CID, surplus water is preferentially discharged at the outlet located downstream of the Eastern 6 Deposit (E6 Discharge) (Figure 10.4).

## 10.6 Monitoring results

The location of monitoring and production bores are provided in Figures 10.1 to 10.4. Monitoring results for water levels and water quality for the review period are discussed in Section 10.7 Water Levels, and Section 10.8 Water Quality. A summary of the findings is discussed in Section 10.10 Assessment of Impacts.

## 10.7 Water levels

Water levels measured in monitoring bores are provided in Table 10.3. Note that water level and water chemistry data for Eastern 4 is limited to FY22. Hydrographs for the review period are shown in Figures 10.6 to 10.19. Water levels are in mRL.

The following commentary regarding groundwater trends is based on the data presented in the hydrographs in Figures 10.6 to 10.19.

### Regional water levels

#### Upgradient (west of Yandi mining area)

Water levels for the regional upgradient monitoring bores are shown in Figure 10.6.

Water levels in monitoring bores that are screened in the CID (HYW0003M and HYW0005M) have continued the long-term declining trend in response to dewatering operations in Western 1 pit. Water levels at these monitoring bores have fallen by 9 m and 20.5 m, respectively, from July 2019 to June 2022.

Monitoring bores MB16YSN0001M, MB16YSN0003M, and MB16SNY0004M were installed in late 2016 west of BHP tenure with assistance from RTIO to assess the potential drawdown upgradient of the Yandi mine. During the July 2019 to June 2022 review period, water levels at MB16YSN0003M and MB16YSN0004M declined by 4 m and 1.6 m respectively.

Water levels declined by approximately 13 m in MB16YSN0001M and 20.5 m in HYW0005M during the review period. The greater decline is due to proximity to Western 1. HYW0005M has the lowest groundwater elevation of the regional upgradient bores at 547 mRL.

Water level in the CID (HYW0002M) to the west of Yandi declined by 1.17 m during the review period to approximately 610 mRL.

### Spinifex Camp

Water levels for the Spinifex Camp monitoring bores are shown in Figure 10.7.

The potable supply bores (HNPI0001P and HNPI0002P) are located hydraulically upgradient from the western end of the Western 1 pit.

Water levels at HYW0003M (positioned upgradient of the production bores) and MB16YSN0001M (positioned closer to the Western 1 pit) show the following characteristics:

- HYW0003M: The water level was at 571.2 mRL as of July 2022, which is 10 m higher than at MB16YSN0001M (560.8 mRL) nearby. Apart from a brief upward response to significant rainfall in January 2020 and February 2020, groundwater levels have shown a gradual declining trend to about July 2021. This was followed by a small recovery of about 0.7 m until March 2022, whereafter elevation declined to the current level in response to abstraction in the potable supply bore and dewatering activities in the Western 1 pit.
- MB16YSN0001M: The water level was at 560.8 mRL as of June 2022 (the most recent water level gauging event at this location). Water levels at this bore are more directly influenced by both the abstraction at the potable supply bores and dewatering activities in the Western 1 pit.

## Operations

### Western pits

Groundwater levels at **Western 1** are shown in Figure 10.8. Water levels in the pit show steady decline only being temporarily interrupted by small rises occurring in response to rainfall events, creek flow and subsequent recharge. The lowest water level is 522.6 mRL measured in HYW0221M in June 2022. Direct response to seasonal rainfall is indicated by rising water levels during December 2021 to February 2021, and again during December 2022 to February 2022, at both monitoring locations HYW0221M and HYW0222M.

Groundwater levels in **Western 2** are shown in Figure 10.9. Like Western 1, water levels show long-term decreasing trends punctuated by increases after high rainfall events during the review period. The lowest water level of 522.04 mRL was measured at HYW0347M in November 2021. Direct response to seasonal rainfall is indicated by rising water levels during the December–February period in 2020, 2021, and 2022 at both monitoring locations HYW0326M and HYW0347M.

Groundwater levels at **Western 4** are shown in Figure 10.10. Dewatering activities in Western 4 have been ongoing since 2005 and water levels within the pit appear to have been drawn down towards a steady state range of 510 to 516 mRL to date. Relatively stable conditions are observed at in-pit bores. However, as Western 4 is truncated to the east and west by Marillana Creek (Figure 10.2), the aquifer is susceptible to rapid recharge where the creek alluvium and the CID are in contact. Rapid rises of up to approximately 7 m can be observed in monitoring bores adjacent to the creek in the south-east (e.g., HYW0050M during early 2020 and 2021) following rainfall events. Water levels at in-pit bore HYW0184M have

fluctuated about 3 m over the review period, starting at 509.7 mRL in July 2019 and reaching 510.6 mRL in June 2022 with a maximum of 513.4 mRL in May 2021.

Groundwater levels at **Western 5** are shown in Figure 10.11. Western 5 is on the south side of Marillana Creek. Water levels in Western 5 ranged from 505 to 514 mRL during the review period. Water levels were higher in the centre of the pit (HYW0352M). A rise of approximately 3 m in water levels (HYW0352M and HYW0400M respectively) occurred during the January to March periods in 2020 and 2021, in response to rainfall events. A similar rise but delayed by three to four months is evident in the same bores from April 2022 and reflects the late season rainfalls in early 2022.

Historical water levels for **Western 6** are shown in Figure 10.12. The Western 6 pit lies in a north-south trending tributary paleochannel located at the northern end of W5. Several monitoring bores were destroyed by mining activities during the review period. Alternative bores have been identified, leaving a gap in water level data that has contributed to the <100% compliance for water level monitoring (see Section 10.10). Water level monitoring data range from 508 mRL (HYW0353M) to 528.5 mRL (HYW0343M) during the July 2019 to May 2020 period and 519 mRL (HYW1029M) to 527 mRL (HYW1028M) from April 2022 to June 2022.

#### Central pits

Water levels in **Central 1** are shown in Figure 10.13. Water levels at the monitoring locations (HYC0018P and HYC0061M) have fluctuated in response to high rainfall events during the summer months with levels at 497-498 mRL as of June 2022.

Water levels in **Central 5** are shown in Figure 10.14. Central 5 water levels ranged from 486 – 508 mRL during the review period. Recharge occurred during January-March in 2020 and 2021 in response to seasonal rainfall. This resulted in average rise in water levels of about 4 m. Modest rise of 0.25 m to 1 m from May 2022 to June 2022 may be the start of a similar response to the late season rainfall of 2022. While seasonal responses and gentle declines in water levels have occurred throughout the review period, the water levels generally are not dis-similar to historical monitoring data (2013).

#### Eastern pits

Water levels for **Eastern 1 and Eastern 2** are shown in Figure 10.15. Water levels in E1 and E2 ranged from 487 to 510 mRL during the July 2019 to June 2022 review period. Water levels have historically shown rapid and significant responses to large rainfall events. These were more subdued during 2021 and 2022, presumably due to an increase in groundwater abstraction in late 2020-early 2021.

Water level for **Eastern 4** is shown in Figure 10.16. Abstraction in E4 commenced in February 2022. In March 2022, the elevation at HYE1552M was 537.8 mRL. This declined to 530.2 mRL by June 2022. Elevation at HYE1525M fluctuated around 497 mRL.

Water levels for **Eastern 3, 5, 6** are shown in Figure 10.17. Water levels varied from 478 mRL to 502 mRL over the review period. The largest fluctuations in water levels (up to 19 m) were observed at HYE0162M in January-February in 2020 and 2021. This bore is located close to, and is recharged from, the Marillana Creek alluvial sediments.

Water levels for the **Eastern 7** pit are shown in Figure 10.18. Water levels in Eastern 7 were in the range of 477 – 494 mRL during the review period. Water levels declined during the first six months of 2020. During the period January to March 2021 there was an increase of ~14 m in the northern section of the pit (HYE0312M, located closest to the Marillana Creek alluvial sediments) and ~4 m in the southern section of the pit (HYE0300M) following the onset of the rain season. Thereafter, water levels decreased. A modest rise is observed in HYE0300M from 477.6 mRL in December 2021 to 481 mRL in June 2022 in response to rainfall.

#### Downgradient (east of Yandi mining area)

Regional downgradient water levels are shown in Figure 10.19.

Monitoring bore YM0121M is positioned on the northern side of Marillana Creek and is at least 2 km away from the nearest pit being dewatered. Following earlier decreases in water levels measured in 2018 and 2019, groundwater levels at YM0121M appear stable with minor fluctuations (512.8 mRL to 513.9 mRL) since March 2020.

Monitoring bore HYM0010M is positioned about 350 m south of Marillana Creek. Available gauging data is limited to data collected from November 2019 to August 2020 as this bore was destroyed by mining activities. During this period, water levels were stable at an elevation of 520 mRL. These are consistent with historic measurements.

## 10.8 Water quality

Field chemistry (pH and Electrical Conductivity [EC]) are shown in Tables 10.4 and 10.5 respectively and results for field pH and EC for the review period are illustrated in Figures 10.20 to 10.31. Piper plots of laboratory analysis results are shown in Figures 10.32 to 10.35.

Laboratory chemistry results are shown in Table 10.6 with Site Specific Trigger Value (SSTV) exceedances highlighted. The SSTVs are being updated and will be incorporated in future Groundwater Operating Strategy documents once the updated SSTVs have been discussed with and approved by DWER.

The field pH and EC and laboratory analysis measurements show the general characteristics outlined in the following

sections.

### Spinifex Camp

Field chemistry at Spinifex Camp is shown in Figure 10.20. Field pH measurements were steady and generally varied from 7 to 7.3, with exception of pH 8 in April 2020. Field EC values appear to fluctuate in response to rainfall events and range from 1,122 – 1,400 µS/cm during the review period.

Major ion proportions shown on the Spinifex Camp Piper plot (Figure 10.32) show the samples tightly bunched in the plot indicating that groundwater quality is consistent in composition and likely derived from the same source. All samples have a Ca-Mg-HCO<sub>3</sub> signature indicative of a carbonate/dolomite aquifer, recent rainfall recharge, and/or surface runoff. The Yandi hydrogeology does not include significant carbonate aquifers and this signature is interpreted as surface runoff and recharge of the Marillana alluvial and CID aquifers accessed in these bores.

Laboratory analysis results for Spinifex camp samples show minor exceedances of the SSTV for boron (with reported boron concentrations varying between 0.37 – 0.51 mg/L compared to the SSTV of 0.37 mg/L), barium (with reported barium concentrations varying between 0.073 – 0.110 mg/L compared to the SSTV of 0.083 mg/L), and EC (1,200 µS/cm compared to an upper range SSTV of 1,000 µS/cm). Nitrate consistently exceeds the SSTV (maximum of 16 mg/L as NO<sub>3</sub> against SSTV of 4.0 mg/L as NO<sub>3</sub>) in all samples. No other analytes exceeded SSTVs for these sampling locations.

The values shown in Table 10.6 are barium and boron total concentrations, whereas the SSTVs are based on dissolved concentrations.

### Western pits

Major ion proportions shown on the Western pits Piper plot (Figure 10.33) indicate samples generally have a Ca-Mg-HCO<sub>3</sub> signature consistent with the Marillana alluvial and CID aquifers that are recharged from rainfall and surface runoff. The exceptions are samples from HYW0042P and HYW0165P which have a higher proportion of chloride (Cl).

**Western 1:** (Figure 10.21) Field pH measurements have ranged from 5.8 to 9.0 during the review period. A spike of higher pH values is noted in September 2019, which includes the highest values (pH 9) recorded during the review period. A step increase from the range pH 7.0 to pH 7.4 to the range pH 7.8 to pH 8.4 occurs in December 2019. There is considerable variation within this range until May 2021, when the range steps down to about pH 6.9 to pH 7.5. This range, again with considerable variation, lasts until February 2022. After February 2022 pH varies widely among the monitored bores (approximate range pH 6.3 to pH 8) until June 2022. The reason for these step increases and decreases in pH are not clear but may be responses to ongoing dewatering and rainfall recharge.

Field EC values remained within a range similar to historical values, of 900 – 1,300 µS/cm until June 2021 when the values trended downwards to 432 – 613 µS/cm in March 2022. EC values increased markedly after March 2022 with a range of 1,121 to 1,611 µS/cm in June 2022.

Laboratory analysis results for Western 1 samples show minor exceedances of SSTVs for boron (with a maximum reported concentration of 0.56 mg/L compared to the SSTV of 0.37 mg/L), and EC (1,300 µS/cm compared to an upper range SSTV of 1,250 µS/cm). All samples exceed the nitrate SSTV of 4.0 mg/L as NO<sub>3</sub> and 0.9 mg/L as N with a maximum of 120 mg/L as NO<sub>3</sub> from bore HYW0212P in March 2021.

**Western 2:** (Figure 10.22) Field pH measurements for the review period have ranged from 6.4 – 8.5. Like the measurements reported for Western 1, a step down in pH was observed for all locations during May 2021. Before May 2021 pH varied in a range from 7.9 to 8.5. After May 2021 a new range appears to have been established from 7 to 7.5 up to January 2022. A sharp decrease to a low of pH 6.4 occurs in April 2022, followed by a steep increase to ~pH 7.4 in June 2022.

Except for a single low value of 505 µS/cm in February 2021, field EC measurements range from 852 – 1,200 µS/cm from July 2019 until May 2021. After May 2021, field EC steps downward to range from 657 to 758 µS/cm until February 2022. Like field pH, there is a sharp decrease to a low of EC 535 µS/cm in March-April 2022, followed by a steep increase to ~1,300 µS/cm in Jun-22.

Laboratory analysis results for Western 2 samples show minor exceedances of SSTVs for barium (maximum of 0.085 mg/L versus SSTV of 0.083 mg/L), boron (with a maximum reported concentration of 0.52 mg/L versus the SSTV of 0.37 mg/L), and EC (maximum of 1,400 µS/cm compared to an upper range SSTV of 1,250 µS/cm). The nitrate SSTV (4 mg/L as NO<sub>3</sub>) is exceeded in all samples with a maximum of 15 mg/L as NO<sub>3</sub> from HYW0237P in March 2021.

**Western 4:** (Figure 10.23) Field pH measurements have ranged from 6.2 to 8.4 during the July 2019 to June 2022 review period. The lowest values were reported for April 2022.

Field EC measurements trend downwards from a range of 900 to 1,600 µS/cm in Jul-19 to 484 to 578 µS/cm in March 2022. This downward trend turns steeply upwards after March 2022 to a range of 1,200 to ~1,500 µS/cm in June 2022.

Laboratory analysis results for Western 4 samples show minor exceedances of SSTVs for boron (maximum of 0.46 mg/L versus SSTV of 0.37 mg/L), EC (maximum of 1,400 µS/cm versus upper range SSTV of 1,250 µS/cm), and nitrate (maximum of 30 mg/L as NO<sub>3</sub> versus SSTV of 4 mg/L as NO<sub>3</sub>).

**Western 5:** (Figure 10.24) As with other Western pits, field pH measurements show a step increase in December 2019 to

a range of 7.9 to 8.6 followed by a step decrease in May 2021 to a range of 7 to 7.3. This step ends in April 2022 with a decrease to 6.4 – 6.7, followed by a steep increase to 7.3 to 7.5 in June 2022.

As for Western 4, field EC measurements in Western 5 show a decline from a range of 930  $\mu\text{S}/\text{cm}$  to 1,030  $\mu\text{S}/\text{cm}$  in July 2019 to a lower range of 480 to 500  $\mu\text{S}/\text{cm}$  in March 2022, followed by a steep increase to a range of 980 to 1,200  $\mu\text{S}/\text{cm}$  in June 2022.

Laboratory analysis results for Western 5 samples show minor exceedances of SSTVs for boron as with the other pits. Maximum boron exceedance of 0.46 mg/L against the SSTV of 0.37 mg/L. Nitrate exceeded the SSTV (4 mg/L as  $\text{NO}_3$ ) in all samples with the maximum concentration of 12 mg/L as  $\text{NO}_3$  measured in HYW0134P in June 2022.

**Western 6:** (Figure 10.25) Field pH measurements were circumneutral to somewhat alkaline with values in the 7.1 – 8.5 range up to May 2021. Like the measurements reported for other Yandi pits, a drop in pH to a range of 6.7 to 7.6 was observed for all Western 6 locations during May 2021. This was followed by a decrease to ~pH 6.3 in April 2022 and a steep increase to ~pH 7.3 in June 2022.

Like the other Western pits, field EC values at Western 6 show a general decline from the start of the review period which changed to a significant increase in March 2022. At Western 6 the decline, with significant variation, is evident since September 2019. The lowest EC measurements were reported in March 2022, ranging from 472 to 673  $\mu\text{S}/\text{cm}$ . This is followed by a steep increase to a range of 1,400 to 1,600  $\mu\text{S}/\text{cm}$  in June 2022.

As for the other pits, laboratory analysis results for Western 6 samples show exceedances of SSTVs for boron and EC. The maximum boron SSTV exceedance was 0.90 mg/L against the SSTV of 0.37 mg/L. The maximum EC exceedance of 1,400  $\mu\text{S}/\text{cm}$  against the upper range SSTV of 1,250  $\mu\text{S}/\text{cm}$ . One sample from HYW0355P in November 2019 also shows exceedances of iron (0.15 mg/L against SSTV of 0.07 mg/L) and molybdenum (0.004 mg/L against SSTV of 0.001 mg/L).

Nitrate concentrations generally exceed the SSTV of 4 mg/L as  $\text{NO}_3$  with the maximum of 50 mg/L as  $\text{NO}_3$  measured at HYW0176P in June 2022.

### Central pits

Major ion proportions shown on the Central pits Piper plot (Figure 10.34) indicate all Central pit samples have a similar signature to the Western pits consistent with the Marillana alluvial and CID aquifers that are recharged from rainfall and surface runoff.

**Central 1:** (Figure 10.26) Field pH measurements generally declined during the review period from circumneutral to a lower range of 6.3 to 7.3 from May 2021 to March 2022. The lowest field pH measurements occurred in April 2022 with a range of pH 6.1 to 6.3. The most recent measurements (May 2022 and June 2022) show a range of 7.1 to 7.34.

Field EC values for the active production bores covered a broad range from 419 – 1,358  $\mu\text{S}/\text{cm}$  during the review period. There appears to be a general declining trend from July 2019 with significant variation and the lowest measurements in March 2022. After March 2022 there is a steep increase to the highest field EC measurements, consistent with the trend observed in other pits.

Laboratory analysis results for Central 1 samples show minor exceedances of SSTVs for boron (maximum concentration of 0.65 mg/L compared to the SSTV of 0.37 mg/L) and EC (1,300  $\mu\text{S}/\text{cm}$  compared to the upper range SSTV of 1,250  $\mu\text{S}/\text{cm}$ ). Copper marginally exceeded the SSTV at HYC0015P in March 2021 (at a reported concentration of 0.006 mg/L compared to SSTV of 0.0048 mg/L). Nitrate generally exceeded the SSTV of 4 mg/L as  $\text{NO}_3$  in all samples during the review period with a maximum of 18 mg/L as  $\text{NO}_3$  measured at HYC0012P in June 2022.

**Central 5:** (Figure 10.27) As with measurements reported from other pits, there was a decrease in March-April 2022 to a low of pH 6.1, followed by a steep increase to ~pH 7.2 by June 2022. Groundwater samples from HNPIYC0034P have consistently had the lowest pH measurements, ranging from 5.5 to 7.4 from July 2019 to July 2021.

Field EC values generally decline over the review period from a range of 872 to 920  $\mu\text{S}/\text{cm}$  to a range of 418 to 433  $\mu\text{S}/\text{cm}$  in March 2022. As for the other pits, this is followed by a steep increase to a range of 845 to 1,017  $\mu\text{S}/\text{cm}$  after March 2022.

Laboratory analysis results for Central 5 samples show minor exceedances of SSTVs for boron (maximum of 0.41 mg/L versus SSTV of 0.37 mg/L). Chromium and zinc also exceeded the trigger values at HNPIYC0034P in December 2020, with respective concentrations of 0.031 mg/L (SSTV of 0.001 mg/L) and 0.58 mg/L (SSTV of 0.072 mg/L). Nitrate exceeded the SSTV of 4 mg/L as  $\text{NO}_3$  in all samples during the review period (maximum of 23 mg/L as  $\text{NO}_3$ ).

### Eastern pits

Major ion proportions shown on the Eastern pits Piper plot (Figure 10.35) indicate all Eastern pit samples have a similar signature to the Western and Central pits which is consistent with the Marillana alluvial and CID aquifers that are recharged from rainfall and surface runoff.

**Eastern 1 & 2:** (Figure 10.28) Like the other Yandi pits, pH measurements stepped up in December 2019 to a range of 7.4 to 8.2 until April 2021. This was followed by a decline to a low point range of 6.1 to 6.4 in April 2022, followed by a steep increase to a range of 7.1 to 7.3 in June 2022, perhaps in response to significant rainfall in May 2022.

Field EC values are relatively consistent (range 700 to 900  $\mu\text{S}/\text{cm}$ ) from July 2019 to April 2021. This is followed by a decline to a low point range of 429 to 472  $\mu\text{S}/\text{cm}$  in March 2022 and a steep increase to a range of 948 to 1,036  $\mu\text{S}/\text{cm}$  by

June 2022.

Laboratory analysis results for the Eastern 1 & 2 production bores show marginal exceedances of boron (maximum of 0.41 mg/L against SSTV of 0.37 mg/L). Nitrate exceeded the 4 mg/L as NO<sub>3</sub> SSTV in all samples with a maximum of 20mg/L.

**Eastern 4:** (Figure 10.29) Field pH ranged from 6.6 to 7.8 from April 2022 to June 2022. During the same period field EC ranged from 500 to 1,200 µS/cm.

Eastern 4 laboratory analysis results indicate exceedances of pH and nitrate in all samples. Laboratory measured pH ranged from 8.1 to 8.4 (upper limit of the SSTV range is pH 8.0. The maximum nitrate concentration of 77 mg/L as NO<sub>3</sub> was measured in the February 2022 sample from HYE1518P (SSTV of 4 mg/L as NO<sub>3</sub>).

Occasional exceedances were noted for boron (maximum of 0.46 mg/L against SSTV of 0.37 mg/L) and lead (maximum of 0.045 mg/L against SSTV of 0.004 mg/L).

**Eastern 3,5,6:** (Figure 10.30) Field pH measurements step up in December 2019 to a range of 7.2 to 8.6 until April 2021. Like most of the Yandi pits, pH measurements showed a sharp decrease in May 2021 and a general decline to a low range of 6.2 to 6.9 in April 2022. This is followed by a sharp increase to a range of ±pH 7.2 in all bores by June 2022.

Field EC values maintained a downward trend from June 2019 to a low point range of 363 to 435 µS/cm in March 2022. As for other Yandi pits, this is followed by a sharp increase. At Eastern 3, 5, 6, this increase reached a range of 648 to 946 µS/cm in June 2022.

Laboratory analysis results for Eastern 3,5,6 samples show exceedances of SSTVs for boron (maximum concentration of 0.64 mg/L compared to the SSTV of 0.37 mg/L), nitrate (maximum concentration of 44 mg/L compared with SSTV of 4.0mg/L as NO<sub>3</sub>), as with the other pits.

**Eastern 7:** (Figure 10.31) During the review period field pH values show a generally increasing trend from July 2019 to April 2021 with alkaline pH (maximum pH 9). This is followed by a declining trend from about April 2021 to a low of ~pH 6.4 in April 2022, followed (as in other pits) by an increase. In this case June 2022 field pH is about 7.3.

Field EC values appear to vary within a consistent range up to about April 2021, after which there is an overall declining trend to a low of about 450 µS/cm in March 2022. As for other Yandi pits, this is followed by a steep increase in field EC. At Eastern 7 this reaches a range of 882 to 942 µS/cm in June 2022.

Laboratory analysis results for Eastern 7 samples show minor exceedances of SSTVs for boron (maximum concentration of 0.61 mg/L compared to the SSTV of 0.37 mg/L). The laboratory pH measurements are generally lower than field pH. Nitrate frequently exceeded the SSTV of 15 mg/L as NO<sub>3</sub> in all Eastern pit samples during the review period.

## 10.9 Compliance

A summary of the Yandi Borefields compliance with GWL requirements is shown in Table 10.7. Most of the compliance activities that were missed were due to a lack of access at the time of sampling.

**Table 10.7: Summary of Yandi Borefields Compliance Performance**

| Compliance category    | Measure  | Compliance |      |      |
|------------------------|--|------------|------|------|
|                        |  | FY20       | FY21 | FY22 |
| Allocation             | GWL annual allocation  | 100%       | 100% | 100% |
| Abstraction            | Monthly readings per production borehole                           | 100%       | 99%  | 100% |
| Water level monitoring | Monthly water level from identified monitoring bores               | 98%        | 100% | 90%  |
| Field chemistry        | Monthly pH and EC readings from 2 representative bores per deposit | 99%        | 88%  | 93%  |
| Lab chemistry          | Bi-annual analysis from 2 representative bores per deposit         | 94%        | 79%  | 82%  |
| Rainfall               | Monthly readings   | 100%       | 100% | 100% |

Table 10.8 shows the percentage of the GWL allocation used during the review period. The allocation usage value represents the combined Spinifex Camp Supply volume and mine dewatering volume.

**Table 10.8: Licence Abstraction Details**

| Licence No.  | Allocation (kL) |            |            | Allocation Usage |      |      |
|--------------|-----------------|------------|------------|------------------|------|------|
|              | FY20            | FY21       | FY22       | FY20             | FY21 | FY22 |
| GWL89501(11) | 20,650,520      | 20,650,520 | 20,650,520 | 47%              | 53%  | 46%  |

## 10.10 Assessment of impacts

Monitoring over the review period reveals declining water levels in most pits, except for some partial recovery in some bores in response to rainfall. Groundwater level monitoring data has also identified that direct hydraulic connection is likely to exist between the CID aquifer and sections of the alluvial sediments of the Marillana Creek.

Water Levels in the CID upgradient (west) of the Yandi operations have declined during the review period. The monitoring bores are close to Western 1 pit and reflect the impact of dewatering at the pit.

During the review period, regional water levels downgradient (east) of the Yandi operations appear to be stable or fluctuate within a narrow range of elevations. This follows decreases in elevation seen in 2018 and 2019.

The Yandi borefields are characterised by the following:

- Boron concentrations that marginally exceed the current trigger value of 0.37 mg/L. Overall, there weren't any significant changes in the water quality when compared to the historical data. Boron exceedances were observed across the Yandi borefield, but values remained relatively low.
- During April-May 2021, in most of Yandi pits, field pH and EC show values lower than measured in the preceding months.
- pH remains in the circumneutral to somewhat alkaline range.
- Generally low EC values less than the low SSTV of 1,195 µS/cm, with occasional exceedances of the high SSTV of 1,250 µS/cm.
- Generally elevated nitrate concentrations that frequently exceed the SSTV of 4 mg/L as NO<sub>3</sub> (0.9 mg/L as N). The inferred source of the nitrate exceedances is ANFO explosive residue associated with waste rock and pit walls. The combined impact of multiple waste rock and pit wall point sources, distributed over the mine site in time and space, result in a ubiquitous groundwater nitrate concentration throughout the site.

There are no thresholds or trigger limits with respect to groundwater abstraction. However, there are environmental conditions which require monitoring of tree health and several related actions outlined in MS679 which are reported annually through the AER process.

## 10.11 Recommendations

The inclusion of two monitoring bores within the water level monitoring program at Western 6 is recommended as this pit will be dewatered during FY22/FY23.

The Yandi SSTVs should be reviewed and updated in Groundwater Operating Strategy post discussion and approval of DWER.

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## 10.12 References

- Aquaterra, 2008. RGP5 Yandi LOM Dewatering Requirements and Discharge Projects (87 MT/a Scenario).
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- BHP Billiton Iron Ore, 2018. GWL Operating Strategy for Yandi. Document ID 0021252, Version 2.0. BHP Billiton Iron Ore, Perth, Western Australia.
- Charles SP, Fu G, Silberstein RP, Mpelasoka F, McFarlane D, Hodgson G, Teng J, Gabrovsek C, Ali R, Barron O, Aryal SK, Dawes W, van Niel T, Chiew FHS (2013); Interim report on the hydroclimate of the Pilbara past, present and future. A report to the West Australian Government and industry partners from the CSIRO Pilbara Water Resource Assessment, CSIRO Water for a Healthy Country, Australia.
- Department of Water, 2013. Pilbara Groundwater Allocation Plan, October 2013. Department of Water, Perth, Western Australia.

**Yandi Borefields  
Triennial Reporting  
Acknowledgment Slip**

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**BHP**

I have reviewed the site Triennial Aquifer Review and accept the information provided is an accurate account of site compliance with Department of Water and Environmental Regulation (DWER) conditions for the period 1 July 2019 to 30 June 2022.

SIGNATURE:  DATE: 16/09/2022

Digitally signed by Kotsos, Ioannis  
DN: cn=Kotsos, Ioannis, o=BHP  
BHP Group Operations Pty Ltd,  
ou=MULTI-ALLOWED  
Date: 2022.09.16 12:21:52 +08'00'

YANNI KOTSOS  
GENERAL MANAGER  
YANDI

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## Tables

**Table 10.2: Abstraction**

| Sample Point ID | Spinifex Camp |               |               |               |               |               |               |               |               |               |               |               |                |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
|                 | FY20 (kL)     |               |               |               |               |               |               |               |               |               |               |               |                |
|                 | Jul-19        | Aug-19        | Sep-19        | Oct-19        | Nov-19        | Dec-19        | Jan-20        | Feb-20        | Mar-20        | Apr-20        | May-20        | Jun-20        | TOTAL          |
| HNPISP0001P     |               | 21,917        | 25,194        | 29,828        | 16,164        | 11,377        | 47,987        | 74,373        | 61,036        | 39,133        | 31,911        | 33,431        | 392,351        |
| HNPISP0002P     |               | 5,898         | 9,830         | 4,604         | 20,478        | 24,824        | 14,679        | 7,909         | 8,455         | 50,668        | 43,257        | 14,990        | 205,592        |
| <b>TOTAL</b>    | <b>0</b>      | <b>27,815</b> | <b>35,024</b> | <b>34,432</b> | <b>36,642</b> | <b>36,201</b> | <b>62,666</b> | <b>82,282</b> | <b>69,491</b> | <b>89,801</b> | <b>75,168</b> | <b>48,421</b> | <b>597,943</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

| Sample Point ID | Western 1      |                |                |                |                |                |                |                |                |                |                |                |                  |
|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|
|                 | FY20 (kL)      |                |                |                |                |                |                |                |                |                |                |                |                  |
|                 | Jul-19         | Aug-19         | Sep-19         | Oct-19         | Nov-19         | Dec-19         | Jan-20         | Feb-20         | Mar-20         | Apr-20         | May-20         | Jun-20         | TOTAL            |
| HNPIYN1704P     | 14,572         | 13,572         | 16,153         | 21,019         | 19,114         | 11,617         | 15,150         | 20,357         | 8,688          |                | 4,979          | 36,319         | 181,540          |
| HNPIYN1707P     | 11,786         | 13,300         | 11,661         | 7,783          | 9,074          | 11,884         | 9,328          | 5,382          | 1,321          |                | 3,586          | 33,276         | 118,381          |
| HYW0008P        | 44,627         | 39,763         | 40,191         | 43,811         | 38,288         | 37,028         | 24,595         | 37,041         | 40,035         | 37,981         | 36,408         |                | 419,768          |
| HYW0010P        | 41,526         | 43,201         | 41,954         | 43,197         | 38,880         | 36,516         | 32,977         | 31,816         | 36,591         | 35,050         | 36,386         | 28,046         | 446,140          |
| HYW0011P        |                |                |                |                |                |                |                |                | 71             | 35,156         | 874            |                | 36,101           |
| HYW0021P        | 2,188          | 1,951          | 1,828          | 1,857          | 1,078          |                |                | 1,357          | 189            | 2,079          | 2,534          | 1,426          | 16,487           |
| HYW0024P        | 1,701          | 563            | 2,232          | 951            |                |                |                | 141            | 3,879          | 2,209          | 3,725          | 2,097          | 17,498           |
| HYW0180P        | 14,100         | 14,055         | 13,720         | 11,224         | 14,617         |                | 11,619         | 11,726         | 13,744         | 11,066         | 12,939         | 10,013         | 138,823          |
| HYW0212P        |                | 7,413          | 5,346          | 4,916          | 2,833          | 1,754          | 2,954          | 9,079          | 21,692         | 15,661         | 11,759         | 4,533          | 87,940           |
| HYW0213P        | 1,315          |                | 3,044          | 2,573          | 2,994          | 2,906          | 903            | 3,621          | 9,157          | 5,396          | 5,767          | 2,787          | 40,463           |
| HYW0215P        | 7,427          | 7,789          | 10,534         | 10,453         | 9,531          | 8,568          | 7,806          | 5,207          |                |                | 9,861          | 10,075         | 87,251           |
| HYW0226P        | 4,047          | 2,900          | 3,143          | 3,509          | 3,396          | 3,619          | 3,155          | 3,288          | 4,831          | 7,264          | 5,507          | 6,074          | 50,733           |
| HYW0228P        | 8,599          |                |                | 3,350          | 6,530          | 14,465         | 11,124         | 8,876          | 12,572         | 11,880         | 10,483         | 9,934          | 97,813           |
| HYW0229P        | 7,639          | 7,808          | 7,365          | 7,577          | 7,170          | 7,106          | 5,899          | 1,499          |                | 7,207          | 9,631          | 9,253          | 78,154           |
| HYW0230P        | 8,490          | 8,198          | 7,656          | 7,288          | 6,971          | 7,185          | 7,444          | 7,899          | 8,997          | 9,088          | 8,911          | 8,231          | 96,358           |
| HYW0246P        | 17,848         | 12,594         | 19,036         | 14,263         | 11,943         | 11,398         | 24,270         | 28,424         | 24,802         | 33,345         | 29,115         | 19,538         | 246,576          |
| HYW0247P        | 2,362          | 2,071          | 7,106          | 5,334          | 3,496          | 2,641          | 3,525          | 10,354         | 14,755         | 10,534         | 7,119          | 5,172          | 74,469           |
| HYW0322P        | 3,596          | 267            | 4,536          | 4,702          | 4,401          | 4,348          | 4,438          | 1,236          | 909            | 2,563          | 5,665          | 4,651          | 41,312           |
| SYAN0015        |                |                |                |                |                |                |                |                |                |                |                |                | 0                |
| SYAN0043        |                |                |                |                |                |                |                |                |                |                |                |                | 0                |
| <b>TOTAL</b>    | <b>191,823</b> | <b>175,445</b> | <b>195,505</b> | <b>193,807</b> | <b>180,316</b> | <b>161,035</b> | <b>165,187</b> | <b>187,303</b> | <b>202,233</b> | <b>226,479</b> | <b>205,249</b> | <b>191,425</b> | <b>2,275,807</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

**Table 10.2: Abstraction (cont'd)**

| Sample Point ID | Western 2     |               |               |               |               |               |               |               |               |               |               |               |                |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
|                 | FY20 (kL)     |               |               |               |               |               |               |               |               |               |               |               |                |
|                 | Jul-19        | Aug-19        | Sep-19        | Oct-19        | Nov-19        | Dec-19        | Jan-20        | Feb-20        | Mar-20        | Apr-20        | May-20        | Jun-20        | TOTAL          |
| HYW0237P        | 11,640        | 12,131        | 10,919        | 10,042        | 10,584        | 10,693        | 10,206        | 8,915         | 9,387         | 8,225         | 8,968         | 8,995         | 120,705        |
| HYW0238P        | 13,521        | 13,966        | 13,338        | 13,753        | 13,040        | 13,488        | 12,812        | 12,004        | 11,465        | 10,571        | 11,157        | 11,014        | 150,129        |
| HYW0348P        |               |               | 4,606         | 16,865        | 12,029        | 10,642        | 14,699        | 19,117        | 20,368        | 17,997        | 18,136        | 16,548        | 151,007        |
| <b>TOTAL</b>    | <b>25,161</b> | <b>26,097</b> | <b>28,863</b> | <b>40,660</b> | <b>35,653</b> | <b>34,823</b> | <b>37,717</b> | <b>40,036</b> | <b>41,220</b> | <b>36,793</b> | <b>38,261</b> | <b>36,557</b> | <b>421,841</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

| Sample Point ID | Western 3 |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                 | FY20 (kL) |          |          |          |          |          |          |          |          |          |          |          |          |
|                 | Jul-19    | Aug-19   | Sep-19   | Oct-19   | Nov-19   | Dec-19   | Jan-20   | Feb-20   | Mar-20   | Apr-20   | May-20   | Jun-20   | TOTAL    |
| HYW1015P        |           |          |          |          |          |          |          |          |          |          |          |          | 0        |
| HYW1016P        |           |          |          |          |          |          |          |          |          |          |          |          | 0        |
| <b>TOTAL</b>    | <b>0</b>  | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

| Sample Point ID | Western 4      |                |                |                |                |               |                |                |                |                |                |                |                  |
|-----------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|
|                 | FY20 (kL)      |                |                |                |                |               |                |                |                |                |                |                |                  |
|                 | Jul-19         | Aug-19         | Sep-19         | Oct-19         | Nov-19         | Dec-19        | Jan-20         | Feb-20         | Mar-20         | Apr-20         | May-20         | Jun-20         | TOTAL            |
| HYW0030P        |                | 8,571          | 17,877         | 23,049         | 24,327         | 16,362        | 22,856         | 36,224         | 36,383         | 34,636         | 35,954         | 32,544         | 288,783          |
| HYW0035P        | 32,393         | 31,686         | 27,401         | 27,604         | 22,906         | 18,880        | 28,361         | 22,057         | 36,248         | 34,295         | 35,097         | 27,721         | 344,649          |
| HYW0042P        | 8,159          | 8,407          | 8,429          | 7,926          | 4,564          | 6,944         | 7,505          | 8,542          | 10,120         | 9,537          | 8,005          | 6,110          | 94,248           |
| HYW0049P        | 1,382          | 1,277          | 480            |                |                |               | 8,019          | 52,894         | 7,963          | 5,870          | 5,083          | 4,024          | 86,992           |
| HYW0051P        | 5,674          | 5,025          | 3,162          | 4,047          | 4,292          | 4,829         | 7,962          | 11,334         | 10,903         | 9,277          | 7,331          | 5,400          | 79,236           |
| HYW0064P        | 8,016          | 7,964          | 7,870          | 7,815          | 5,828          | 7,001         | 6,631          | 6,502          | 6,852          | 6,602          |                | 3,027          | 74,108           |
| HYW0072P        | 11,885         | 12,913         | 11,813         | 12,395         | 10,464         | 8,410         | 2,645          | 3,849          | 1,124          | 1,553          | 2,788          | 1,562          | 81,401           |
| HYW0165P        | 11,127         | 9,860          | 9,549          | 10,167         | 10,262         | 10,014        | 10,814         | 11,230         | 13,021         | 14,261         | 13,571         | 13,094         | 136,970          |
| HYW0181P        | 4,925          | 4,751          | 4,328          | 3,658          | 3,664          | 3,124         | 5,649          | 5,764          | 3,207          | 8,438          | 6,406          | 7,234          | 61,148           |
| HYW0182P        | 10,888         | 10,693         | 9,998          | 9,969          | 10,079         | 9,348         | 11,190         | 11,750         | 15,204         | 16,144         | 16,561         | 16,458         | 148,282          |
| HYW0340P        | 5,946          | 5,842          | 5,493          | 5,585          | 5,318          | 5,394         | 5,679          | 11,105         | 28,200         | 17,892         | 14,312         | 12,104         | 122,870          |
| SYAN0035        |                |                |                |                |                |               |                |                |                |                |                |                | 0                |
| SYAN0036        |                |                |                |                |                |               |                | 46,252         |                |                |                |                | 46,252           |
| SYAN0042        |                |                |                |                |                |               |                |                |                |                |                |                | 0                |
| <b>TOTAL</b>    | <b>100,395</b> | <b>106,989</b> | <b>106,400</b> | <b>112,215</b> | <b>101,704</b> | <b>90,306</b> | <b>117,311</b> | <b>227,503</b> | <b>169,225</b> | <b>158,505</b> | <b>145,108</b> | <b>129,278</b> | <b>1,564,939</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

**Table 10.2: Abstraction (cont'd)**

| Sample Point ID | Western 5     |               |               |               |               |               |               |               |               |               |               |               |                |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
|                 | FY20 (kL)     |               |               |               |               |               |               |               |               |               |               |               |                |
|                 | Jul-19        | Aug-19        | Sep-19        | Oct-19        | Nov-19        | Dec-19        | Jan-20        | Feb-20        | Mar-20        | Apr-20        | May-20        | Jun-20        | TOTAL          |
| HYW0131P        | 12,678        | 10,771        | 9,729         | 9,904         | 9,167         | 10,349        | 9,721         | 4,738         | 621           | 9,825         | 14,720        | 16,827        | 119,050        |
| HYW0132P        | 2,568         | 2,837         | 7,704         | 7,157         | 4,755         | 4,286         | 4,855         | 3,421         | 4,338         | 4,814         | 5,416         | 5,147         | 57,298         |
| HYW0133P        | 5,955         | 5,783         | 4,928         | 5,262         | 4,572         | 4,310         | 2,946         | 3,350         | 5,769         | 6,076         | 4,667         | 4,014         | 57,632         |
| HYW0134P        | 26,550        | 18,105        | 19,946        | 25,502        | 23,492        | 23,364        | 22,332        | 21,356        | 24,176        | 23,779        | 24,795        | 20,031        | 273,428        |
| HYW0240P        | 8,806         | 7,235         | 8,457         | 7,911         | 6,251         | 6,799         | 5,942         | 6,788         | 6,691         | 7,313         | 5,940         | 6,353         | 84,486         |
| HYW0241P        | 8,131         | 10,093        | 9,225         | 7,499         | 9,112         | 8,492         | 8,444         | 12,087        | 15,839        | 14,152        | 11,988        | 10,277        | 125,339        |
| <b>TOTAL</b>    | <b>64,688</b> | <b>54,824</b> | <b>59,989</b> | <b>63,235</b> | <b>57,349</b> | <b>57,600</b> | <b>54,240</b> | <b>51,740</b> | <b>57,434</b> | <b>65,959</b> | <b>67,526</b> | <b>62,649</b> | <b>717,233</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

| Sample Point ID | Western 6     |               |              |              |               |               |               |               |               |               |               |               |                |
|-----------------|---------------|---------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
|                 | FY20 (kL)     |               |              |              |               |               |               |               |               |               |               |               |                |
|                 | Jul-19        | Aug-19        | Sep-19       | Oct-19       | Nov-19        | Dec-19        | Jan-20        | Feb-20        | Mar-20        | Apr-20        | May-20        | Jun-20        | TOTAL          |
| HYW0175P        | 8,127         | 4,915         |              |              | 4,830         | 2,622         | 3,126         | 3,918         | 4,838         | 3,564         | 3,639         | 3,493         | 43,072         |
| HYW0176P        | 6,807         | 6,996         | 7,074        | 7,050        |               |               |               |               |               |               | 38,790        | 6,316         | 73,033         |
| HYW0355P        |               |               |              |              | 7,815         | 28,689        | 27,630        | 23,735        | 31,065        | 28,811        | 28,759        | 23,076        | 199,580        |
| HYW1021P        |               |               |              |              |               |               |               |               |               |               |               |               | 0              |
| HYW1024P        |               |               |              |              |               |               |               |               |               |               |               |               | 0              |
| SYAN0040        |               |               |              |              |               |               |               |               |               |               |               |               | 0              |
| SYAN0041        |               |               |              |              |               |               |               |               |               |               |               |               | 0              |
| <b>TOTAL</b>    | <b>14,934</b> | <b>11,911</b> | <b>7,074</b> | <b>7,050</b> | <b>12,645</b> | <b>31,311</b> | <b>30,756</b> | <b>27,653</b> | <b>35,903</b> | <b>32,375</b> | <b>71,188</b> | <b>32,885</b> | <b>315,685</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

| Sample Point ID | Central 1     |               |               |               |               |               |               |               |               |               |               |               |                |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
|                 | FY20 (kL)     |               |               |               |               |               |               |               |               |               |               |               |                |
|                 | Jul-19        | Aug-19        | Sep-19        | Oct-19        | Nov-19        | Dec-19        | Jan-20        | Feb-20        | Mar-20        | Apr-20        | May-20        | Jun-20        | TOTAL          |
| HYC0012P        | 13,003        | 13,118        | 12,281        | 11,737        | 11,690        | 11,221        | 9,588         | 10,325        | 12,355        | 13,254        | 12,309        | 13,413        | 144,294        |
| HYC0015P        | 18,666        | 18,426        | 15,851        | 14,316        | 15,189        | 11,446        | 14,143        | 13,795        | 15,043        | 15,588        | 15,331        | 15,128        | 182,922        |
| HYC0096P        | 26,899        | 29,126        | 34,361        | 34,148        | 36,503        | 33,244        | 33,911        | 33,478        | 34,609        | 33,295        | 35,968        | 34,949        | 400,491        |
| <b>TOTAL</b>    | <b>58,568</b> | <b>60,670</b> | <b>62,493</b> | <b>60,201</b> | <b>63,382</b> | <b>55,911</b> | <b>57,642</b> | <b>57,598</b> | <b>62,007</b> | <b>62,137</b> | <b>63,608</b> | <b>63,490</b> | <b>727,707</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

**Table 10.2: Abstraction (cont'd)**

| Sample Point ID    | Central 5     |               |               |               |               |               |               |               |               |               |               |               |                |
|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
|                    | FY20 (kL)     |               |               |               |               |               |               |               |               |               |               |               |                |
|                    | Jul-19        | Aug-19        | Sep-19        | Oct-19        | Nov-19        | Dec-19        | Jan-20        | Feb-20        | Mar-20        | Apr-20        | May-20        | Jun-20        | TOTAL          |
| <b>HNPIYC0034P</b> | 7,659         | 7,628         | 4,620         | 5,758         | 5,399         | 5,287         | 5,758         | 5,317         | 3,813         |               |               |               | <b>51,239</b>  |
| <b>HYC0019P</b>    | 4,029         | 2,581         | 3,562         | 4,729         | 4,093         | 1,847         | 15            | 1,676         | 3,974         | 2,901         | 3,915         | 3,159         | <b>36,481</b>  |
| <b>HYC0020P</b>    | 9,895         | 8,350         | 6,283         | 5,973         | 5,657         | 4,131         | 6,026         | 9,044         | 11,154        | 10,883        | 11,352        | 6,258         | <b>95,006</b>  |
| <b>HYC0031P</b>    | 8,442         | 8,039         | 7,184         | 7,007         | 7,263         | 5,894         | 6,783         | 8,572         | 10,710        | 10,219        | 9,530         | 9,426         | <b>99,069</b>  |
| <b>HYC0068P</b>    | 10,177        | 9,675         | 9,260         | 8,461         | 8,777         | 7,685         | 9,989         | 11,182        | 14,231        | 17,014        | 16,686        | 15,485        | <b>138,622</b> |
| <b>HYC0069P</b>    | 16,039        | 15,413        | 14,432        | 14,368        | 13,535        | 13,044        | 14,461        | 2,027         | 10,226        | 30,526        | 24,800        | 21,505        | <b>190,376</b> |
| <b>HYC0089P</b>    | 6,152         | 5,289         | 4,495         | 4,237         | 3,953         | 3,430         | 3,728         | 4,594         | 5,751         | 6,034         | 5,927         | 5,494         | <b>59,084</b>  |
| <b>HYC0090P</b>    | 1,686         | 2,297         | 1,914         | 1,944         | 1,789         | 1,534         | 2,264         | 1,956         | 2,644         | 3,082         | 3,328         | 3,341         | <b>27,779</b>  |
| <b>TOTAL</b>       | <b>64,079</b> | <b>59,272</b> | <b>51,750</b> | <b>52,477</b> | <b>50,466</b> | <b>42,852</b> | <b>49,024</b> | <b>44,368</b> | <b>62,503</b> | <b>80,659</b> | <b>75,538</b> | <b>64,668</b> | <b>697,656</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

| Sample Point ID | Eastern 1 & 2 |               |               |               |               |               |               |               |               |               |               |               |                |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
|                 | FY20 (kL)     |               |               |               |               |               |               |               |               |               |               |               |                |
|                 | Jul-19        | Aug-19        | Sep-19        | Oct-19        | Nov-19        | Dec-19        | Jan-20        | Feb-20        | Mar-20        | Apr-20        | May-20        | Jun-20        | TOTAL          |
| <b>HYE0023P</b> | 3,991         | 4,021         | 3,209         | 2,912         | 2,725         | 2,526         | 2,272         | 1,611         | 898           | 5,032         | 4,848         | 3,914         | <b>37,959</b>  |
| <b>HYE0041P</b> | 8,723         | 9,861         | 8,458         | 7,831         | 6,803         | 6,006         | 7,660         | 8,834         | 9,187         | 7,851         | 8,405         | 5,947         | <b>95,566</b>  |
| <b>HYE0051P</b> | 12,484        | 10,863        | 15,609        | 15,855        | 14,011        | 9,949         | 12,397        | 15,856        | 15,967        | 9,562         | 16,299        | 10,699        | <b>159,551</b> |
| <b>HYE0060P</b> | 2,486         | 2,358         | 1,922         | 1,889         | 1,870         | 1,733         | 1,757         | 2,061         | 3,236         | 3,371         | 3,186         | 2,468         | <b>28,337</b>  |
| <b>HYE0061P</b> | 6,385         | 7,707         | 6,873         | 6,552         | 6,568         | 7,151         | 7,384         | 7,858         | 5,495         | 8,293         | 11,792        | 10,855        | <b>92,913</b>  |
| <b>HYE0193P</b> |               |               |               |               |               |               |               | 15,706        | 35,876        | 25,315        | 16,988        | 26,587        | <b>120,472</b> |
| <b>HYE0194P</b> |               |               |               |               |               |               |               | 15,859        | 26,323        | 18,570        | 21,148        | 19,676        | <b>101,576</b> |
| <b>SYAN0001</b> |               |               |               |               |               |               |               |               |               |               |               |               | <b>0</b>       |
| <b>SYAN0037</b> |               |               |               |               |               |               |               |               |               |               |               |               | <b>0</b>       |
| <b>SYAN0044</b> |               |               |               |               |               |               |               |               |               |               |               |               | <b>0</b>       |
| <b>TOTAL</b>    | <b>34,069</b> | <b>34,810</b> | <b>36,071</b> | <b>35,039</b> | <b>31,977</b> | <b>27,365</b> | <b>31,470</b> | <b>67,785</b> | <b>96,982</b> | <b>77,994</b> | <b>82,666</b> | <b>80,146</b> | <b>636,374</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

**Table 10.2: Abstraction (cont'd)**

| Sample Point ID | Eastern 4<br>FY20 (kL) |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                 | Jul-19                 | Aug-19   | Sep-19   | Oct-19   | Nov-19   | Dec-19   | Jan-20   | Feb-20   | Mar-20   | Apr-20   | May-20   | Jun-20   | TOTAL    |
| HYE1518P        |                        |          |          |          |          |          |          |          |          |          |          |          | 0        |
| HYE1519P        |                        |          |          |          |          |          |          |          |          |          |          |          | 0        |
| HYE1523P        |                        |          |          |          |          |          |          |          |          |          |          |          | 0        |
| SYAN0050        |                        |          |          |          |          |          |          |          |          |          |          |          | 0        |
| <b>TOTAL</b>    | <b>0</b>               | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

| Sample Point ID | Eastern 3,5,6<br>FY20 (kL) |               |               |               |               |               |               |                |                |                |                |                |                  |
|-----------------|----------------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|------------------|
|                 | Jul-19                     | Aug-19        | Sep-19        | Oct-19        | Nov-19        | Dec-19        | Jan-20        | Feb-20         | Mar-20         | Apr-20         | May-20         | Jun-20         | TOTAL            |
| HYE0014P        |                            |               |               |               |               |               |               | 7,585          | 11,999         | 2,451          | 359            |                | 22,394           |
| HYE0026P        |                            |               |               |               |               |               |               |                |                |                |                |                | 0                |
| HYE0027P        | 17,720                     | 17,956        | 16,795        | 15,892        | 14,952        | 12,426        | 14,413        | 10,764         | 12,100         | 5,702          | 6,234          | 5,857          | 150,811          |
| HYE0028P        |                            |               |               |               |               |               |               | 158            | 9,656          | 13,027         | 15,119         | 20,199         | 19,862           |
| HYE0031P        | 9,465                      | 7,166         | 10,774        | 9,374         | 10,399        | 9,429         | 12,005        | 12,937         | 16,471         | 16,531         | 18,116         | 17,547         | 150,214          |
| HYE0042P        |                            |               |               |               |               |               |               | 7,161          | 13,790         | 16,039         | 16,314         | 13,510         | 66,814           |
| HYE0043P        |                            |               | 956           | 1,906         | 2,023         | 2,056         | 2,362         | 2,412          | 3,245          | 2,927          | 2,619          | 2,555          | 23,061           |
| HYE0044P        | 3,564                      | 3,558         | 3,438         | 3,419         | 3,456         | 3,406         | 3,919         | 2,187          | 4,149          | 6,458          | 6,875          | 6,479          | 50,908           |
| HYE0045P        | 5,807                      | 5,793         | 6,045         | 6,400         | 5,053         | 6,349         | 7,273         | 8,370          | 9,472          | 9,677          | 10,531         | 10,387         | 91,157           |
| HYE0055P        | 3,614                      | 3,896         | 4,985         | 5,496         | 5,105         | 4,453         | 4,991         | 5,427          | 15,971         | 9,692          | 11,589         | 10,037         | 85,256           |
| HYE0132P        |                            |               |               |               |               |               |               |                |                |                |                |                | 0                |
| HYE0152P        |                            |               |               |               |               |               |               |                |                |                |                |                | 0                |
| HYE0156P        | 10,263                     | 12,197        | 12,755        | 12,820        | 11,037        | 9,357         | 13,216        | 21,676         | 40,020         | 36,889         | 32,413         | 29,744         | 242,387          |
| HYE0157P        | 16,197                     | 15,968        | 13,785        | 10,962        | 12,259        | 10,968        | 10,545        | 15,911         | 12,972         | 12,016         | 10,941         | 9,742          | 152,266          |
| HYE0171P        | 3,472                      | 3,612         | 4,014         | 3,969         | 3,462         | 3,124         | 4,728         | 7,374          | 16,602         | 13,878         | 11,315         | 10,181         | 85,731           |
| HYE0172P        | 2,634                      | 3,726         | 3,738         | 3,902         | 3,729         | 3,466         | 3,660         | 4,087          | 6,298          | 6,450          | 6,024          | 6,228          | 53,942           |
| SYAN0002        |                            |               |               |               |               |               |               |                |                |                |                |                | 0                |
| SYAN0003        |                            |               |               |               |               |               |               |                |                |                |                |                | 0                |
| SYAN0016        |                            |               |               |               |               |               |               |                |                |                |                |                | 0                |
| SYAN0039        |                            |               |               |               |               |               |               |                |                |                |                |                | 0                |
| <b>TOTAL</b>    | <b>72,736</b>              | <b>73,872</b> | <b>77,285</b> | <b>74,140</b> | <b>71,475</b> | <b>65,034</b> | <b>77,270</b> | <b>115,547</b> | <b>176,116</b> | <b>153,829</b> | <b>153,529</b> | <b>142,129</b> | <b>1,252,962</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

**Table 10.2: Abstraction (cont'd)**

| Sample Point ID | Eastern 7<br>FY20 (kL) |               |               |               |               |               |               |               |                |                |               |               |                |
|-----------------|------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
|                 | Jul-19                 | Aug-19        | Sep-19        | Oct-19        | Nov-19        | Dec-19        | Jan-20        | Feb-20        | Mar-20         | Apr-20         | May-20        | Jun-20        | TOTAL          |
|                 | SYAN0046               |               |               |               |               |               |               |               |                |                |               |               | 0              |
| HYE0130P        |                        | 5,418         |               |               |               |               |               |               |                |                |               |               | 5,418          |
| HYE0160P        | 2,469                  | 9,591         | 7,286         | 12,058        | 13,643        | 13,285        | 16,850        | 34,541        | 36,789         | 36,394         | 26,602        | 22,494        | 232,002        |
| HYE0180P        | 18,465                 | 21,770        | 17,762        | 10,400        | 23,450        | 20,924        | 21,905        | 27,617        | 36,619         | 35,674         | 31,718        | 22,274        | 288,578        |
| HYE0181P        | 32,727                 | 28,717        | 25,720        | 28,569        | 19,685        | 28,630        | 11,024        | 18,878        | 36,867         | 38,420         | 37,498        | 38,029        | 344,764        |
| HYE0311P        |                        |               |               |               |               |               |               |               |                |                |               |               | 12,043         |
| HYE0313P        |                        |               |               |               |               |               |               |               |                |                |               |               | 0              |
| HYE0314P        |                        |               |               |               |               |               |               |               |                |                |               |               | 0              |
| <b>TOTAL</b>    | <b>53,661</b>          | <b>65,496</b> | <b>50,768</b> | <b>51,027</b> | <b>56,778</b> | <b>62,839</b> | <b>49,779</b> | <b>81,036</b> | <b>110,275</b> | <b>110,488</b> | <b>95,818</b> | <b>94,840</b> | <b>882,805</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

| Sample Point ID | Barimunya Aerodrome |           |           |           |           |           |           |          |           |           |           |           |            |
|-----------------|---------------------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|------------|
|                 | FY20 (kL)           |           |           |           |           |           |           |          |           |           |           |           |            |
|                 | Jul-19              | Aug-19    | Sep-19    | Oct-19    | Nov-19    | Dec-19    | Jan-20    | Feb-20   | Mar-20    | Apr-20    | May-20    | Jun-20    | TOTAL      |
| FYAN0001        | 26                  | 26        | 22        | 23        | 22        | 29        | 18        | 4        | 12        | 18        | 19        | 10        | 229        |
| <b>TOTAL</b>    | <b>26</b>           | <b>26</b> | <b>22</b> | <b>23</b> | <b>22</b> | <b>29</b> | <b>18</b> | <b>4</b> | <b>12</b> | <b>18</b> | <b>19</b> | <b>10</b> | <b>229</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

| Sample Point ID | Yandi Discharge |                |                |                |                |                |                |                |                |                |                |                |                  |
|-----------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|
|                 | FY20 (kL)       |                |                |                |                |                |                |                |                |                |                |                |                  |
|                 | Jul-19          | Aug-19         | Sep-19         | Oct-19         | Nov-19         | Dec-19         | Jan-20         | Feb-20         | Mar-20         | Apr-20         | May-20         | Jun-20         | TOTAL            |
| FYAN0011        | 150,422         | 323,563        | 213,073        | 168,286        | 157,063        | 173,521        | 337,556        | 481,402        | 802,076        | 726,780        | 685,888        | 598,687        | 4,818,317        |
| FYAN0054        |                 |                | 23,213         | 51,664         | 29             | 9              |                | 2,000          |                |                |                |                | 76,915           |
| <b>TOTAL</b>    | <b>150,422</b>  | <b>323,563</b> | <b>236,286</b> | <b>219,950</b> | <b>157,092</b> | <b>173,530</b> | <b>337,556</b> | <b>483,402</b> | <b>802,076</b> | <b>726,780</b> | <b>685,888</b> | <b>598,687</b> | <b>4,895,232</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

## Yandi Borefields

Triennial Aquifer Review 2022



**Table 10.2: Abstraction (cont'd)**

| Sample Point ID    | Spinifex Camp |               |               |               |               |               |               |               |               |               |               |               |                |
|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
|                    | FY21 (kL)     |               |               |               |               |               |               |               |               |               |               |               |                |
|                    | Jul-20        | Aug-20        | Sep-20        | Oct-20        | Nov-20        | Dec-20        | Jan-21        | Feb-21        | Mar-21        | Apr-21        | May-21        | Jun-21        | TOTAL          |
| <b>HNPISP0001P</b> | 24,265        | 33,530        | 21,089        | 30,726        | 40,262        | 30,425        | 27,288        | 26,149        | 38,481        | 13,290        | 27,528        | 14,457        | <b>327,490</b> |
| <b>HNPISP0002P</b> | 28,415        | 22,262        | 21,496        | 16,101        | 3,434         | 20,529        | 26,982        | 26,582        | 28,277        | 36,117        | 29,756        | 40,322        | <b>300,273</b> |
| <b>TOTAL</b>       | <b>52,680</b> | <b>55,792</b> | <b>42,585</b> | <b>46,827</b> | <b>43,696</b> | <b>50,954</b> | <b>54,270</b> | <b>52,731</b> | <b>66,758</b> | <b>49,407</b> | <b>57,284</b> | <b>54,779</b> | <b>627,763</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

| Sample Point ID    | Western 1      |                |                |                |                |                |                |                |                |                |                |                |                  |
|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|
|                    | FY21 (kL)      |                |                |                |                |                |                |                |                |                |                |                |                  |
|                    | Jul-20         | Aug-20         | Sep-20         | Oct-20         | Nov-20         | Dec-20         | Jan-21         | Feb-21         | Mar-21         | Apr-21         | May-21         | Jun-21         | TOTAL            |
| <b>HNPIYN1704P</b> | 45,859         | 37,098         | 36,044         | 34,030         | 32,445         | 32,665         | 32,250         | 24,307         | 28,056         | 27,103         | 27,614         | 26,505         | <b>383,976</b>   |
| <b>HNPIYN1707P</b> | 51,665         | 42,288         | 26,947         | 39,604         | 37,835         | 38,668         | 39,112         | 29,659         | 35,062         | 34,440         | 35,396         | 35,200         | <b>445,876</b>   |
| <b>HYW0008P</b>    |                |                | 25,175         | 40,878         | 37,874         | 23,339         | 41,364         | 36,003         | 13,488         | 20,939         | 31,550         | 4,643          | <b>275,253</b>   |
| <b>HYW0010P</b>    | 36,969         | 33,140         | 28,348         | 34,064         | 25,087         | 28,268         | 23,473         | 20,570         | 19,023         | 5,560          | 23,991         | 34,513         | <b>313,006</b>   |
| <b>HYW0011P</b>    |                |                |                |                |                |                |                |                |                |                |                |                | <b>0</b>         |
| <b>HYW0021P</b>    | 1,133          | 1,244          | 1,246          | 1,167          | 566            | 1,990          | 2,737          | 1,650          | 1,352          | 1,922          | 2,209          | 1,142          | <b>18,358</b>    |
| <b>HYW0024P</b>    | 773            |                |                |                | 198            | 2,050          | 3,041          | 2,816          | 3,327          | 3,133          | 2,512          | 1,931          | <b>19,781</b>    |
| <b>HYW0180P</b>    |                |                |                | 8,561          | 13,900         | 13,405         | 9,489          | 8,173          | 10,014         | 10,861         | 10,564         | 8,539          | <b>93,506</b>    |
| <b>HYW0212P</b>    | 3,155          | 2,970          | 3,062          | 5,565          | 2,005          | 2,487          | 5,014          | 5,472          | 10,171         | 9,882          | 8,234          | 6,612          | <b>64,629</b>    |
| <b>HYW0213P</b>    | 1,737          | 1,681          | 2,431          | 4,024          | 1,742          | 2,685          | 2,306          | 317            | 4,844          | 4,740          | 2,664          | 2,819          | <b>31,990</b>    |
| <b>HYW0215P</b>    | 10,824         | 10,417         | 9,659          | 10,022         | 10,209         | 9,805          | 6,990          | 8,051          | 7,988          | 6,802          | 7,266          | 6,565          | <b>104,598</b>   |
| <b>HYW0226P</b>    | 2,670          | 3,578          | 5,963          | 6,192          | 5,308          | 4,306          | 5,420          | 3,453          | 4,471          | 3,981          | 4,084          | 5,111          | <b>54,537</b>    |
| <b>HYW0228P</b>    | 12,241         | 10,319         | 1,236          | 6,325          | 4,712          | 10,202         | 6,284          | 10,061         | 9,833          | 8,449          | 6,681          | 7,851          | <b>94,194</b>    |
| <b>HYW0229P</b>    | 8,443          | 8,150          | 7,235          | 6,821          | 6,235          | 6,852          | 2,876          | 4,995          | 6,181          | 7,163          | 7,094          | 5,643          | <b>77,688</b>    |
| <b>HYW0230P</b>    | 7,803          | 7,784          | 7,151          | 7,060          | 6,412          | 7,347          | 8,497          | 9,752          | 11,178         | 10,280         | 10,107         | 9,579          | <b>102,950</b>   |
| <b>HYW0246P</b>    | 16,385         | 5,002          | 9,636          | 15,907         | 11,182         | 10,952         | 18,400         | 19,755         | 27,938         | 23,947         | 19,612         | 15,708         | <b>194,424</b>   |
| <b>HYW0247P</b>    | 4,397          | 1,362          | 1,061          | 623            | 87             |                |                | 117            | 6,511          | 5,013          | 3,096          | 1,818          | <b>24,085</b>    |
| <b>HYW0322P</b>    | 4,524          | 4,566          | 3,047          | 4,831          | 2,722          |                |                |                |                | 848            | 156            |                | <b>20,694</b>    |
| <b>SYAN0015</b>    |                |                |                |                |                |                |                |                |                |                |                |                | <b>0</b>         |
| <b>SYAN0043</b>    |                |                |                |                |                |                |                | 37,374         | 24,555         | 25,136         | 7,923          | 1,780          | <b>96,768</b>    |
| <b>TOTAL</b>       | <b>208,578</b> | <b>169,599</b> | <b>168,241</b> | <b>225,674</b> | <b>198,519</b> | <b>195,021</b> | <b>207,253</b> | <b>222,525</b> | <b>223,992</b> | <b>210,199</b> | <b>210,753</b> | <b>175,959</b> | <b>2,416,313</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

**Table 10.2: Abstraction (cont'd)**

| Sample Point ID | Western 2     |               |               |               |               |               |               |               |               |               |               |               |                |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
|                 | FY21 (kL)     |               |               |               |               |               |               |               |               |               |               |               |                |
|                 | Jul-20        | Aug-20        | Sep-20        | Oct-20        | Nov-20        | Dec-20        | Jan-21        | Feb-21        | Mar-21        | Apr-21        | May-21        | Jun-21        | TOTAL          |
| HYW0237P        | 9,738         | 8,804         | 7,719         | 8,384         | 6,532         | 3,926         | 5,880         | 5,778         | 6,071         | 5,264         | 9,694         | 17,825        | 95,615         |
| HYW0238P        | 11,412        | 11,841        | 11,031        | 11,279        | 10,637        | 10,313        | 10,108        | 8,881         | 10,498        | 10,479        | 8,257         | 10,697        | 125,433        |
| HYW0348P        | 17,049        | 15,923        | 14,678        | 13,500        | 9,885         | 11,716        | 15,406        | 13,903        | 16,678        | 16,291        | 12,608        | 15,426        | 173,063        |
| <b>TOTAL</b>    | <b>38,199</b> | <b>36,568</b> | <b>33,428</b> | <b>33,163</b> | <b>27,054</b> | <b>25,955</b> | <b>31,394</b> | <b>28,562</b> | <b>33,247</b> | <b>32,034</b> | <b>30,559</b> | <b>43,948</b> | <b>394,111</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

| Sample Point ID | Western 3 |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                 | FY21 (kL) |          |          |          |          |          |          |          |          |          |          |          |          |
|                 | Jul-20    | Aug-20   | Sep-20   | Oct-20   | Nov-20   | Dec-20   | Jan-21   | Feb-21   | Mar-21   | Apr-21   | May-21   | Jun-21   | TOTAL    |
| HYW1015P        |           |          |          |          |          |          |          |          |          |          |          |          | 0        |
| HYW1016P        |           |          |          |          |          |          |          |          |          |          |          |          | 0        |
| <b>TOTAL</b>    | <b>0</b>  | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

| Sample Point ID | Western 4      |                |                |                |               |                |                |                |                |                |                |                |                  |
|-----------------|----------------|----------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|
|                 | FY21 (kL)      |                |                |                |               |                |                |                |                |                |                |                |                  |
|                 | Jul-20         | Aug-20         | Sep-20         | Oct-20         | Nov-20        | Dec-20         | Jan-21         | Feb-21         | Mar-21         | Apr-21         | May-21         | Jun-21         | TOTAL            |
| HYW0030P        | 29,456         | 27,910         | 26,979         | 25,433         | 24,644        | 21,441         | 28,567         | 26,058         | 29,675         | 30,734         | 30,791         | 26,463         | 328,151          |
| HYW0035P        | 23,508         | 28,467         | 25,446         | 22,340         | 25,329        | 34,441         | 28,696         | 37,188         | 36,724         | 27,768         | 25,215         | 29,373         | 344,495          |
| HYW0042P        | 7,223          | 7,863          | 7,961          | 7,862          | 7,441         | 7,759          | 7,812          | 7,932          | 12,373         | 12,202         | 11,697         | 9,846          | 107,971          |
| HYW0049P        | 2,239          | 3,069          | 2,149          | 1,734          | 1,398         | 1,334          | 2,444          | 4,432          | 7,963          | 5,764          | 4,577          | 3,465          | 40,568           |
| HYW0051P        | 3,845          | 8,034          | 7,587          | 7,110          | 5,697         | 5,576          | 5,306          | 6,115          | 8,353          | 8,430          | 7,882          | 7,213          | 81,148           |
| HYW0064P        | 4,965          | 5,003          | 5,204          | 5,487          | 5,079         | 4,954          | 4,936          | 4,021          | 4,754          | 4,635          | 4,611          | 4,689          | 58,338           |
| HYW0072P        | 1,815          | 2,604          | 3,729          | 3,320          | 3,673         | 1,975          | 2,519          | 1,159          | 491            | 1,897          | 3,880          | 12,267         | 39,329           |
| HYW0165P        | 12,272         | 12,625         | 11,217         | 11,398         | 6,109         | 10,806         | 12,506         | 11,212         | 12,681         | 13,022         | 8,612          | 12,922         | 135,382          |
| HYW0181P        | 8,153          | 7,173          | 4,268          | 251            |               |                |                |                |                |                |                |                | 19,845           |
| HYW0182P        | 13,966         | 12,673         | 11,791         | 12,255         | 11,038        | 10,146         | 10,698         | 9,524          | 12,229         | 14,775         | 15,726         | 13,712         | 148,533          |
| HYW0340P        | 11,114         | 14,658         | 13,882         | 6,442          | 8,008         | 4,668          | 6,170          | 11,181         | 24,036         | 19,041         | 14,315         | 7,498          | 141,013          |
| SYAN0035        |                |                |                |                |               |                |                | 9,274          | 23,680         | 15,074         | 6,331          | 7,186          | 61,545           |
| SYAN0036        |                |                |                |                |               |                |                |                |                |                |                |                | 0                |
| SYAN0042        |                |                |                |                |               |                | 22,380         | 40,465         | 11,599         | 17,486         | 16,946         | 5,645          | 114,521          |
| <b>TOTAL</b>    | <b>118,556</b> | <b>130,079</b> | <b>120,213</b> | <b>103,632</b> | <b>98,416</b> | <b>103,100</b> | <b>132,034</b> | <b>168,561</b> | <b>184,558</b> | <b>170,828</b> | <b>150,583</b> | <b>140,279</b> | <b>1,620,839</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

**Table 10.2: Abstraction (cont'd)**

| Sample Point ID | Western 5     |               |               |               |               |               |               |               |               |               |               |               |                |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
|                 | FY21 (kL)     |               |               |               |               |               |               |               |               |               |               |               |                |
|                 | Jul-20        | Aug-20        | Sep-20        | Oct-20        | Nov-20        | Dec-20        | Jan-21        | Feb-21        | Mar-21        | Apr-21        | May-21        | Jun-21        | TOTAL          |
| HYW0131P        | 18,263        | 15,509        | 3,375         | 12,584        | 7,350         | 10,880        | 11,227        | 3,707         | 6,356         | 5,710         | 6,856         | 6,223         | 108,040        |
| HYW0132P        | 4,132         | 4,989         | 5,249         | 4,996         | 6,728         | 6,696         | 6,360         | 5,663         | 6,528         | 6,491         | 6,980         | 6,875         | 71,687         |
| HYW0133P        | 6,580         | 5,394         | 4,670         | 3,388         | 3,439         | 3,242         | 2,378         | 2,399         | 1,728         | 2,046         | 3,026         | 3,060         | 41,350         |
| HYW0134P        | 23,740        | 24,133        | 18,408        | 23,695        | 22,368        | 19,115        | 22,777        | 19,134        | 23,631        | 20,106        | 25,264        | 24,457        | 266,828        |
| HYW0240P        | 6,876         | 6,717         | 5,403         | 5,815         | 6,312         | 6,298         | 5,043         | 6,758         | 8,813         | 10,323        | 8,385         | 7,419         | 84,162         |
| HYW0241P        | 9,365         | 8,245         | 6,885         | 6,670         | 5,715         | 6,267         | 6,266         | 7,678         | 14,075        | 13,887        | 13,032        | 11,392        | 109,477        |
| <b>TOTAL</b>    | <b>68,956</b> | <b>64,987</b> | <b>43,990</b> | <b>57,148</b> | <b>51,912</b> | <b>52,498</b> | <b>54,051</b> | <b>45,339</b> | <b>61,131</b> | <b>58,563</b> | <b>63,543</b> | <b>59,426</b> | <b>681,544</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

| Sample Point ID | Western 6     |               |               |               |               |               |               |               |               |               |               |               |                |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
|                 | FY21 (kL)     |               |               |               |               |               |               |               |               |               |               |               |                |
|                 | Jul-20        | Aug-20        | Sep-20        | Oct-20        | Nov-20        | Dec-20        | Jan-21        | Feb-21        | Mar-21        | Apr-21        | May-21        | Jun-21        | TOTAL          |
| HYW0175P        | 3,150         | 2,962         | 1,503         | 2,837         | 2,265         | 2,650         | 3,683         | 3,199         | 3,392         | 3,022         | 2,831         | 3,179         | 34,673         |
| HYW0176P        | 7,460         | 7,322         | 6,643         | 5,688         | 964           |               |               | 7,352         | 6,521         | 6,679         | 9,359         | 6,312         | 64,300         |
| HYW0355P        | 23,160        | 21,796        | 9,595         | 6,990         | 19,837        | 20,773        | 18,441        | 20,738        | 26,929        | 28,840        | 22,832        | 26,096        | 246,027        |
| HYW1021P        |               |               |               |               |               |               |               |               |               |               |               |               | 0              |
| HYW1024P        |               |               |               |               |               |               |               |               |               |               |               |               | 0              |
| SYAN0040        |               |               |               |               |               |               | 981           | 2,414         | 2,372         | 2,045         | 8,250         | 7,361         | 23,423         |
| SYAN0041        |               |               |               |               |               |               | 5,513         | 13,487        | 10,844        | 8,819         |               | 917           | 39,580         |
| <b>TOTAL</b>    | <b>33,770</b> | <b>32,080</b> | <b>17,741</b> | <b>15,515</b> | <b>23,066</b> | <b>23,423</b> | <b>28,618</b> | <b>47,190</b> | <b>50,058</b> | <b>49,405</b> | <b>43,272</b> | <b>43,865</b> | <b>408,003</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

| Sample Point ID | Central 1     |               |               |               |               |               |               |               |               |               |               |               |                |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
|                 | FY21 (kL)     |               |               |               |               |               |               |               |               |               |               |               |                |
|                 | Jul-20        | Aug-20        | Sep-20        | Oct-20        | Nov-20        | Dec-20        | Jan-21        | Feb-21        | Mar-21        | Apr-21        | May-21        | Jun-21        | TOTAL          |
| HYC0012P        | 12,023        | 11,501        | 11,820        | 12,076        | 10,384        | 11,403        | 9,785         | 11,589        | 14,863        | 14,038        | 14,595        | 14,754        | 148,831        |
| HYC0015P        | 14,826        | 14,633        | 13,802        | 14,766        | 14,631        | 8,545         | 14,141        | 14,340        | 15,757        | 14,439        | 14,286        | 13,772        | 167,938        |
| HYC0096P        | 32,639        | 33,935        | 30,021        | 34,929        | 21,715        | 33,258        | 33,007        | 30,130        | 33,411        | 34,713        | 35,657        | 32,399        | 385,814        |
| <b>TOTAL</b>    | <b>59,488</b> | <b>60,069</b> | <b>55,643</b> | <b>61,771</b> | <b>46,730</b> | <b>53,206</b> | <b>56,933</b> | <b>56,059</b> | <b>64,031</b> | <b>63,190</b> | <b>64,538</b> | <b>60,925</b> | <b>702,583</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

**Table 10.2: Abstraction (cont'd)**

| Sample Point ID    | Central 5     |               |               |               |               |               |               |               |               |               |               |               |                |
|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
|                    | FY21 (kL)     |               |               |               |               |               |               |               |               |               |               |               |                |
|                    | Jul-20        | Aug-20        | Sep-20        | Oct-20        | Nov-20        | Dec-20        | Jan-21        | Feb-21        | Mar-21        | Apr-21        | May-21        | Jun-21        | TOTAL          |
| <b>HNPIYC0034P</b> |               |               |               |               |               |               | 2,022         | 1,954         | 8,486         | 7,740         | 5,973         | 5,567         | <b>31,742</b>  |
| <b>HYC0019P</b>    | 4,823         | 3,437         | 1,027         | 4,704         | 4,459         | 3,021         | 4,514         | 3,449         | 6,348         | 5,889         | 6,248         | 6,004         | <b>53,923</b>  |
| <b>HYC0020P</b>    | 4,182         | 3,965         |               |               | 4,447         | 10,488        | 10,804        | 11,289        | 13,391        | 12,729        | 8,010         | 11,121        | <b>90,426</b>  |
| <b>HYC0031P</b>    | 9,385         | 8,992         | 9,137         | 9,549         | 8,802         | 8,648         | 8,512         | 7,920         | 9,467         | 8,823         | 10,166        | 10,033        | <b>109,434</b> |
| <b>HYC0068P</b>    | 9,585         | 13,883        | 11,349        | 12,238        | 11,207        | 10,963        | 11,217        | 11,276        | 14,196        | 13,615        | 13,960        | 13,075        | <b>146,564</b> |
| <b>HYC0069P</b>    | 18,617        | 16,748        | 14,888        | 11,601        | 13,795        | 13,276        | 13,898        | 12,666        | 11,064        | 11,355        | 11,992        | 8,446         | <b>158,346</b> |
| <b>HYC0089P</b>    | 5,214         | 2,962         | 3,819         | 4,677         | 4,307         | 3,329         | 4,030         | 3,543         | 8,290         | 8,026         | 7,551         | 7,825         | <b>63,573</b>  |
| <b>HYC0090P</b>    | 3,187         | 2,882         | 2,234         | 2,385         | 1,977         | 2,265         | 2,342         | 3,859         | 4,247         | 4,610         | 4,760         | 4,034         | <b>38,782</b>  |
| <b>TOTAL</b>       | <b>54,993</b> | <b>52,869</b> | <b>42,454</b> | <b>45,154</b> | <b>48,994</b> | <b>51,990</b> | <b>57,339</b> | <b>55,956</b> | <b>75,489</b> | <b>72,787</b> | <b>68,660</b> | <b>66,105</b> | <b>692,790</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

| Sample Point ID | Eastern 1 & 2 |               |               |               |               |               |                |                |                |                |               |               |                  |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|---------------|---------------|------------------|
|                 | FY21 (kL)     |               |               |               |               |               |                |                |                |                |               |               |                  |
|                 | Jul-20        | Aug-20        | Sep-20        | Oct-20        | Nov-20        | Dec-20        | Jan-21         | Feb-21         | Mar-21         | Apr-21         | May-21        | Jun-21        | TOTAL            |
| <b>HYE0023P</b> | 3,290         | 2,607         | 2,399         | 75            |               | 1,352         | 4,373          | 1,960          | 4,720          | 5,306          | 5,510         | 4,522         | <b>36,114</b>    |
| <b>HYE0041P</b> | 3,675         | 8,980         | 9,171         | 290           |               | 3,832         | 10,534         | 3,764          | 10,030         | 8,502          | 8,144         | 9,291         | <b>76,213</b>    |
| <b>HYE0051P</b> | 14,953        | 12,877        | 11,415        | 471           |               |               | 25,205         | 15,559         | 19,966         | 19,008         | 19,487        | 18,402        | <b>157,343</b>   |
| <b>HYE0060P</b> | 2,176         | 1,837         | 1,774         | 59            |               | 1,013         | 1,493          | 2,237          | 3,836          | 3,442          | 3,419         | 3,088         | <b>24,374</b>    |
| <b>HYE0061P</b> | 9,202         | 6,770         | 7,577         | 247           |               | 3,480         | 9,856          | 9,325          | 11,908         | 10,487         | 9,643         | 9,949         | <b>88,444</b>    |
| <b>HYE0193P</b> | 22,636        | 12,803        | 18,186        | 16,004        | 14,461        | 16,876        | 18,406         | 15,809         | 28,154         | 26,135         | 6,135         | 10,034        | <b>205,639</b>   |
| <b>HYE0194P</b> | 10,711        | 9,411         | 12,583        | 11,016        | 11,360        | 11,271        | 13,299         | 13,815         | 16,042         | 15,419         | 13,964        | 11,306        | <b>150,197</b>   |
| <b>SYAN0001</b> |               |               |               |               |               |               |                |                |                |                |               |               | <b>0</b>         |
| <b>SYAN0037</b> |               |               |               |               |               |               | 34,101         | 177,286        | 102,662        | 34,433         | 3,205         | 656           | <b>352,343</b>   |
| <b>SYAN0044</b> |               |               |               |               |               |               | 5,685          | 37,100         |                |                |               |               | <b>42,785</b>    |
| <b>TOTAL</b>    | <b>66,643</b> | <b>55,285</b> | <b>63,105</b> | <b>28,162</b> | <b>25,821</b> | <b>37,824</b> | <b>122,952</b> | <b>276,855</b> | <b>197,318</b> | <b>122,732</b> | <b>69,507</b> | <b>67,248</b> | <b>1,133,452</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

**Table 10.2: Abstraction (cont'd)**

| Sample Point ID | Eastern 4<br>FY21 (kL) |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                 | Jul-20                 | Aug-20   | Sep-20   | Oct-20   | Nov-20   | Dec-20   | Jan-21   | Feb-21   | Mar-21   | Apr-21   | May-21   | Jun-21   | TOTAL    |
| HYE1518P        |                        |          |          |          |          |          |          |          |          |          |          |          | 0        |
| HYE1519P        |                        |          |          |          |          |          |          |          |          |          |          |          | 0        |
| HYE1523P        |                        |          |          |          |          |          |          |          |          |          |          |          | 0        |
| SYAN0050        |                        |          |          |          |          |          |          |          |          |          |          |          | 0        |
| <b>TOTAL</b>    | <b>0</b>               | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

| Sample Point ID | Eastern 3,5,6<br>FY21 (kL) |               |               |               |               |                |               |                |                |                |                |                |                  |
|-----------------|----------------------------|---------------|---------------|---------------|---------------|----------------|---------------|----------------|----------------|----------------|----------------|----------------|------------------|
|                 | Jul-20                     | Aug-20        | Sep-20        | Oct-20        | Nov-20        | Dec-20         | Jan-21        | Feb-21         | Mar-21         | Apr-21         | May-21         | Jun-21         | TOTAL            |
| HYE0014P        |                            |               |               |               |               | 30             | 522           | 14,670         | 7,783          | 775            |                |                | 23,780           |
| HYE0026P        |                            |               | 4,160         | 23,615        | 21,001        | 55,088         |               |                | 17,091         | 24,835         | 18,325         | 26,371         | 190,486          |
| HYE0027P        | 3,195                      |               | 2,623         | 14,274        | 4,775         | 20,115         | 20,724        | 17,970         | 23,149         | 25,875         | 34,312         | 28,834         | 195,846          |
| HYE0028P        | 9,914                      |               |               |               |               |                |               |                |                |                |                |                | 9,914            |
| HYE0031P        | 17,149                     | 6,806         |               |               | 2,187         | 15,852         | 17,901        | 15,989         | 17,004         | 23,229         | 25,421         | 23,226         | 23,955           |
| HYE0042P        | 13,480                     | 13,261        | 1,696         |               |               |                |               |                |                |                |                |                | 169,246          |
| HYE0043P        | 2,691                      | 2,246         | 2,494         | 2,941         | 2,984         | 2,983          | 2,718         | 2,405          | 2,445          | 5,836          | 9,331          | 4,017          | 43,091           |
| HYE0044P        | 6,402                      | 4,104         | 5,301         | 5,167         | 4,534         | 4,402          | 5,209         | 4,948          | 5,424          | 9,493          | 9,901          | 9,114          | 73,999           |
| HYE0045P        | 10,052                     | 9,699         | 8,523         | 7,063         | 8,711         | 8,537          | 9,308         | 9,685          | 12,639         | 11,560         | 12,756         | 9,259          | 117,792          |
| HYE0055P        | 7,639                      | 7,136         | 5,526         | 5,317         | 4,655         | 4,070          | 3,499         | 2,877          | 14,571         | 12,410         | 10,886         | 8,966          | 87,552           |
| HYE0132P        |                            |               |               |               |               |                |               |                | 521            | 3,202          | 3,672          | 3,662          | 11,057           |
| HYE0152P        |                            |               |               |               |               |                |               | 476            | 987            |                |                |                | 1,463            |
| HYE0156P        | 23,469                     | 20,135        | 19,239        | 17,261        | 15,783        | 11,647         | 16,792        | 29,649         | 34,011         | 31,287         | 30,082         | 30,118         | 279,473          |
| HYE0157P        | 9,555                      | 9,265         | 8,034         | 9,140         | 8,641         | 7,451          | 8,215         | 7,871          | 10,386         | 9,976          | 10,099         | 9,884          | 108,517          |
| HYE0171P        | 7,727                      | 6,640         | 5,696         | 4,917         | 3,896         | 4,760          | 6,530         | 7,270          | 7,100          | 7,538          | 10,390         | 9,663          | 82,127           |
| HYE0172P        | 5,693                      | 5,203         | 4,548         | 4,451         | 4,081         | 4,129          | 4,525         | 3,904          | 7,780          | 7,001          | 7,749          | 7,251          | 66,315           |
| SYAN0002        |                            |               |               |               |               |                |               |                |                |                |                |                | 0                |
| SYAN0003        |                            |               |               |               |               |                |               |                |                |                |                |                | 0                |
| SYAN0016        |                            |               |               |               |               |                |               |                |                |                |                |                | 0                |
| SYAN0039        |                            |               |               |               |               |                |               |                |                | 7,300          | 3,768          | 1,117          | 12,185           |
| <b>TOTAL</b>    | <b>116,966</b>             | <b>84,495</b> | <b>67,840</b> | <b>94,146</b> | <b>81,248</b> | <b>139,064</b> | <b>95,943</b> | <b>117,714</b> | <b>160,891</b> | <b>180,317</b> | <b>186,692</b> | <b>171,482</b> | <b>1,496,798</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

**Table 10.2: Abstraction (cont'd)**

| Sample Point ID | Eastern 7     |               |               |               |               |               |               |               |               |               |               |               |                |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
|                 | FY21 (kL)     |               |               |               |               |               |               |               |               |               |               |               |                |
|                 | Jul-20        | Aug-20        | Sep-20        | Oct-20        | Nov-20        | Dec-20        | Jan-21        | Feb-21        | Mar-21        | Apr-21        | May-21        | Jun-21        | TOTAL          |
| SYAN0046        |               |               |               |               |               |               |               |               |               |               |               |               | 0              |
| HYE0130P        |               |               |               |               | 3,212         | 4,389         | 7,456         | 9,646         | 14,161        | 11,808        | 12,434        | 12,279        | 75,385         |
| HYE0160P        | 10,297        | 17,837        | 13,315        | 12,621        | 11,458        | 12,502        | 12,190        | 22,300        | 35,846        | 37,721        | 29,208        | 18,841        | 234,136        |
| HYE0180P        | 17,511        | 24,135        | 17,480        | 15,235        | 18,275        | 18,313        | 15,945        | 16,278        | 20,231        | 24,324        | 22,768        | 18,855        | 229,350        |
| HYE0181P        | 7,249         | 26,947        | 12,106        | 19,825        | 16,340        | 14,756        | 15,955        | 17,473        | 20,793        | 18,129        | 26,037        | 29,102        | 224,712        |
| HYE0311P        | 6,664         | 2,465         | 755           |               |               | 161           | 1,208         | 42            | 47            | 45            | 47            | 45            | 11,479         |
| HYE0313P        | 1,592         | 2,603         | 1,987         | 1,692         | 1,080         | 814           | 1,913         | 2,730         | 1,379         | 2,759         | 4,367         | 2,649         | 25,565         |
| HYE0314P        |               |               |               |               |               |               |               | 1,670         | 2,247         | 1,887         | 1,889         | 739           | 8,432          |
| <b>TOTAL</b>    | <b>43,313</b> | <b>73,987</b> | <b>45,643</b> | <b>49,373</b> | <b>50,365</b> | <b>50,935</b> | <b>54,667</b> | <b>70,139</b> | <b>94,704</b> | <b>96,673</b> | <b>96,750</b> | <b>82,510</b> | <b>809,059</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

| Sample Point ID | Barimunya Aerodrome |          |          |           |           |           |           |           |           |           |           |           |            |
|-----------------|---------------------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
|                 | FY21 (kL)           |          |          |           |           |           |           |           |           |           |           |           |            |
|                 | Jul-20              | Aug-20   | Sep-20   | Oct-20    | Nov-20    | Dec-20    | Jan-21    | Feb-21    | Mar-21    | Apr-21    | May-21    | Jun-21    | TOTAL      |
| FYAN0001        | 4                   | 4        | 2        | 15        | 26        | 27        | 27        | 25        | 27        | 26        | 24        | 22        | 229        |
| <b>TOTAL</b>    | <b>4</b>            | <b>4</b> | <b>2</b> | <b>15</b> | <b>26</b> | <b>27</b> | <b>27</b> | <b>25</b> | <b>27</b> | <b>26</b> | <b>24</b> | <b>22</b> | <b>229</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

| Sample Point ID | Yandi Discharge |                |                |                |                |                |                |                |                |                |                |                |                  |
|-----------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|
|                 | FY21 (kL)       |                |                |                |                |                |                |                |                |                |                |                |                  |
|                 | Jul-20          | Aug-20         | Sep-20         | Oct-20         | Nov-20         | Dec-20         | Jan-21         | Feb-21         | Mar-21         | Apr-21         | May-21         | Jun-21         | TOTAL            |
| FYAN0011        | 559,270         | 463,163        | 309,152        | 254,798        | 147,213        | 583,228        | 479,308        | 798,676        | 807,300        | 706,785        | 489,155        | 621,969        | 6,220,017        |
| FYAN0054        |                 |                |                |                | 478            | 8              | 6              |                |                |                |                |                | 492              |
| <b>TOTAL</b>    | <b>559,270</b>  | <b>463,163</b> | <b>309,152</b> | <b>254,798</b> | <b>147,691</b> | <b>583,236</b> | <b>479,314</b> | <b>798,676</b> | <b>807,300</b> | <b>706,785</b> | <b>489,155</b> | <b>621,969</b> | <b>6,220,509</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

**Table 10.2: Abstraction (cont'd)**

| Sample Point ID    | Spinifex Camp |               |               |               |               |               |               |               |               |               |               |               |                |
|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
|                    | FY22 (kL)     |               |               |               |               |               |               |               |               |               |               |               |                |
|                    | Jul-21        | Aug-21        | Sep-21        | Oct-21        | Nov-21        | Dec-21        | Jan-22        | Feb-22        | Mar-22        | Apr-22        | May-22        | Jun-22        | TOTAL          |
| <b>HNPISP0001P</b> | 9,425         | 25,314        | 26,187        | 31,597        | 31,230        | 22,621        | 35,976        | 26,852        | 30,225        | 30,734        | 32,566        | 28,329        | <b>331,056</b> |
| <b>HNPISP0002P</b> | 43,869        | 28,427        | 29,393        | 28,517        | 27,468        | 41,099        | 34,106        | 29,009        | 31,711        | 32,825        | 31,553        | 34,909        | <b>392,886</b> |
| <b>TOTAL</b>       | <b>53,294</b> | <b>53,741</b> | <b>55,580</b> | <b>60,114</b> | <b>58,698</b> | <b>63,720</b> | <b>70,082</b> | <b>55,861</b> | <b>61,936</b> | <b>63,559</b> | <b>64,119</b> | <b>63,238</b> | <b>723,942</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

| Sample Point ID    | Western 1      |                |                |                |                |                |                |                |                |                |                |                |                  |
|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|
|                    | FY22 (kL)      |                |                |                |                |                |                |                |                |                |                |                |                  |
|                    | Jul-21         | Aug-21         | Sep-21         | Oct-21         | Nov-21         | Dec-21         | Jan-22         | Feb-22         | Mar-22         | Apr-22         | May-22         | Jun-22         | TOTAL            |
| <b>HNPIYN1704P</b> | 25,284         | 15,580         | 27,211         | 30,144         | 26,922         | 26,526         | 29,719         | 14,706         | 18,750         | 15,687         | 16,977         | 19,955         | <b>267,461</b>   |
| <b>HNPIYN1707P</b> | 33,858         | 33,786         | 30,961         | 31,910         | 30,574         | 27,331         | 29,836         | 25,694         | 27,210         | 25,903         | 36,614         | 31,397         | <b>365,074</b>   |
| <b>HYW0008P</b>    | 30,022         | 35,976         | 31,155         | 32,984         | 26,524         | 1,245          | 33,216         | 27,704         | 27,478         | 25,423         | 25,313         | 21,823         | <b>318,863</b>   |
| <b>HYW0010P</b>    | 32,531         | 28,129         | 23,766         | 22,135         | 19,081         | 19,548         | 10,519         | 18,710         | 19,397         | 16,801         | 11,837         | 10,228         | <b>232,682</b>   |
| <b>HYW0011P</b>    |                |                |                |                |                |                |                |                |                |                |                |                | <b>0</b>         |
| <b>HYW0021P</b>    | 1,072          | 229            | 35             |                |                |                |                |                |                |                |                |                | <b>1,336</b>     |
| <b>HYW0024P</b>    | 1,451          | 1,335          | 1,003          | 773            | 407            |                |                | 496            | 1,267          | 1,052          | 914            | 969            | <b>9,667</b>     |
| <b>HYW0180P</b>    | 6,868          | 6,545          | 7,130          | 7,047          | 6,432          | 5,564          | 6,206          | 5,603          | 4,837          | 5,810          | 5,617          | 4,721          | <b>72,380</b>    |
| <b>HYW0212P</b>    | 5,313          | 4,025          | 2,453          | 1,130          | 430            | 56             |                | 693            | 2,924          | 1,137          | 1,490          | 1,379          | <b>21,030</b>    |
| <b>HYW0213P</b>    | 3,227          | 3,516          | 2,974          | 2,305          | 2,246          | 2,105          | 39             |                |                |                |                |                | <b>16,412</b>    |
| <b>HYW0215P</b>    | 6,406          | 5,747          | 5,115          | 5,016          | 4,439          | 8,153          | 6,703          | 7,235          | 7,663          | 6,501          | 1,042          |                | <b>64,020</b>    |
| <b>HYW0226P</b>    | 5,573          | 5,269          | 5,195          | 4,724          | 3,037          | 5,799          | 4,432          | 4,575          | 4,790          | 4,688          | 4,868          | 4,382          | <b>57,332</b>    |
| <b>HYW0228P</b>    | 7,783          | 7,489          | 4,068          |                | 4,394          | 6,903          | 6,992          | 6,125          | 6,874          | 6,008          | 5,732          | 5,295          | <b>67,663</b>    |
| <b>HYW0229P</b>    | 7,462          | 6,505          | 6,623          | 6,747          | 2,797          | 8,005          | 6,760          | 5,144          | 5,345          | 5,192          | 1,727          | 4,252          | <b>66,559</b>    |
| <b>HYW0230P</b>    | 9,539          | 9,180          | 8,302          | 8,378          | 7,635          | 7,329          | 7,532          | 7,449          | 9,417          | 8,864          | 8,694          | 8,758          | <b>101,077</b>   |
| <b>HYW0246P</b>    | 13,567         | 12,182         | 11,109         | 10,764         | 10,609         | 9,154          | 9,945          | 11,968         | 14,365         | 17,006         | 14,918         | 12,749         | <b>148,336</b>   |
| <b>HYW0247P</b>    | 1,241          | 801            | 17             |                |                |                |                | 21             |                |                |                |                | <b>2,080</b>     |
| <b>HYW0322P</b>    | 2,931          | 4,121          | 3,526          | 3,227          | 3,555          | 3,331          | 2,635          | 2,943          | 3,843          | 3,544          | 3,503          | 3,307          | <b>40,466</b>    |
| <b>SYAN0015</b>    |                |                |                |                |                |                |                |                |                |                |                |                | <b>0</b>         |
| <b>SYAN0043</b>    | 49             |                |                |                |                |                |                | 360            | 107,441        | 11,885         | 8,290          | 5,304          | <b>133,329</b>   |
| <b>TOTAL</b>       | <b>194,177</b> | <b>180,415</b> | <b>170,643</b> | <b>167,284</b> | <b>149,082</b> | <b>131,049</b> | <b>154,534</b> | <b>139,426</b> | <b>261,601</b> | <b>155,501</b> | <b>147,536</b> | <b>134,519</b> | <b>1,985,767</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

**Table 10.2: Abstraction (cont'd)**

| Sample Point ID | Western 2     |               |               |               |               |               |               |               |               |               |               |               |                |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
|                 | FY22 (kL)     |               |               |               |               |               |               |               |               |               |               |               |                |
|                 | Jul-21        | Aug-21        | Sep-21        | Oct-21        | Nov-21        | Dec-21        | Jan-22        | Feb-22        | Mar-22        | Apr-22        | May-22        | Jun-22        | TOTAL          |
| HYW0237P        | 11,198        | 11,681        | 9,934         | 10,046        | 11,220        | 12,048        | 11,807        | 4,805         | 4,563         | 3,854         | 4,020         | 3,897         | 99,073         |
| HYW0238P        | 11,525        | 11,901        | 11,368        | 8,122         | 10,329        | 10,943        | 9,648         | 8,991         | 10,546        | 10,766        | 11,427        | 11,350        | 126,916        |
| HYW0348P        | 13,474        | 11,125        | 11,141        | 10,067        | 8,510         | 7,129         | 6,539         | 6,939         | 12,811        | 12,721        | 13,914        | 12,435        | 126,805        |
| <b>TOTAL</b>    | <b>36,197</b> | <b>34,707</b> | <b>32,443</b> | <b>28,235</b> | <b>30,059</b> | <b>30,120</b> | <b>27,994</b> | <b>20,735</b> | <b>27,920</b> | <b>27,341</b> | <b>29,361</b> | <b>27,682</b> | <b>352,794</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

| Sample Point ID | Western 3 |          |          |          |          |          |          |          |               |               |               |               |                |
|-----------------|-----------|----------|----------|----------|----------|----------|----------|----------|---------------|---------------|---------------|---------------|----------------|
|                 | FY22 (kL) |          |          |          |          |          |          |          |               |               |               |               |                |
|                 | Jul-21    | Aug-21   | Sep-21   | Oct-21   | Nov-21   | Dec-21   | Jan-22   | Feb-22   | Mar-22        | Apr-22        | May-22        | Jun-22        | TOTAL          |
| HYW1015P        |           |          |          |          |          |          |          |          | 24,179        | 16,253        | 19,543        | 17,197        | 77,172         |
| HYW1016P        |           |          |          |          |          |          |          |          | 6,036         | 37,790        | 38,227        | 35,823        | 117,876        |
| <b>TOTAL</b>    | <b>0</b>  | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>30,215</b> | <b>54,043</b> | <b>57,770</b> | <b>53,020</b> | <b>195,048</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

| Sample Point ID | Western 4      |                |                |                |                |                |               |               |                |                |                |               |                  |
|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|----------------|----------------|----------------|---------------|------------------|
|                 | FY22 (kL)      |                |                |                |                |                |               |               |                |                |                |               |                  |
|                 | Jul-21         | Aug-21         | Sep-21         | Oct-21         | Nov-21         | Dec-21         | Jan-22        | Feb-22        | Mar-22         | Apr-22         | May-22         | Jun-22        | TOTAL            |
| HYW0030P        | 25,698         | 23,586         | 21,892         | 21,452         | 19,686         | 19,891         | 18,982        | 18,154        | 22,616         | 23,101         | 20,340         | 15,609        | 251,007          |
| HYW0035P        | 33,846         | 29,382         | 30,186         | 28,475         | 24,070         | 27,259         | 25,602        | 26,139        | 24,782         | 31,742         | 25,045         | 24,772        | 331,300          |
| HYW0042P        | 9,094          | 8,826          | 8,348          | 8,527          | 7,451          | 7,099          | 6,336         | 6,017         | 6,882          | 7,834          | 6,858          | 6,385         | 89,657           |
| HYW0049P        | 2,616          | 2,153          | 1,774          | 1,470          | 1,216          | 1,006          | 741           | 1,150         | 147            |                |                |               | 12,273           |
| HYW0051P        | 6,826          | 7,094          | 5,838          | 5,844          | 4,934          | 4,533          | 3,994         | 3,442         | 4,547          | 5,622          | 4,495          | 2,237         | 59,406           |
| HYW0064P        | 4,860          | 5,666          | 5,242          | 5,893          | 5,104          | 6,107          | 3,425         | 4,547         | 5,292          | 6,278          | 6,720          | 5,710         | 64,844           |
| HYW0072P        | 16,998         | 18,101         | 15,808         | 13,879         | 10,239         | 11,893         | 11,298        | 8,351         | 11,951         | 12,990         | 13,637         | 10,672        | 155,817          |
| HYW0165P        | 9,854          | 14,376         | 12,619         | 10,940         | 13,021         | 12,004         | 11,741        | 11,067        | 12,697         | 11,122         | 11,054         | 12,302        | 142,797          |
| HYW0181P        |                |                |                |                |                |                |               |               |                |                |                |               | 0                |
| HYW0182P        | 12,038         | 10,871         | 8,680          | 8,946          | 7,737          | 7,761          | 7,407         | 6,387         | 6,500          | 7,158          | 7,541          | 7,977         | 99,003           |
| HYW0340P        | 6,037          | 8,817          | 9,132          | 8,803          | 6,849          | 6,155          | 5,711         | 4,889         | 6,147          | 6,583          | 6,532          | 5,299         | 80,954           |
| SYAN0035        | 2,912          | 1,264          | 69             |                |                |                |               | 3,389         |                |                |                |               | 7,634            |
| SYAN0036        |                |                |                |                |                |                |               |               |                |                |                |               | 0                |
| SYAN0042        | 458            | 1,189          |                |                |                |                |               |               | 2,991          | 2,934          | 3,593          |               | 11,165           |
| <b>TOTAL</b>    | <b>131,237</b> | <b>131,325</b> | <b>119,588</b> | <b>114,229</b> | <b>100,307</b> | <b>103,708</b> | <b>95,237</b> | <b>93,532</b> | <b>104,552</b> | <b>115,364</b> | <b>105,815</b> | <b>90,963</b> | <b>1,305,857</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

**Table 10.2: Abstraction (cont'd)**

| Sample Point ID | Western 5     |               |               |               |               |               |               |               |               |               |               |               |                |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
|                 | FY22 (kL)     |               |               |               |               |               |               |               |               |               |               |               |                |
|                 | Jul-21        | Aug-21        | Sep-21        | Oct-21        | Nov-21        | Dec-21        | Jan-22        | Feb-22        | Mar-22        | Apr-22        | May-22        | Jun-22        | TOTAL          |
| HYW0131P        | 6,912         | 11,017        | 10,782        | 10,709        | 10,416        | 10,730        | 9,442         | 7,225         | 8,420         | 7,079         | 8,215         | 8,613         | 109,560        |
| HYW0132P        | 6,774         | 7,184         | 6,655         | 6,745         | 5,730         | 5,305         | 4,505         | 3,951         | 4,050         | 4,293         | 4,932         | 4,824         | 64,948         |
| HYW0133P        | 2,996         | 2,880         | 3,417         | 3,310         | 3,185         | 4,528         | 3,795         | 2,954         | 2,737         | 2,653         | 3,669         | 3,375         | 39,499         |
| HYW0134P        | 24,181        | 25,227        | 22,158        | 24,496        | 22,355        | 22,251        | 19,122        | 19,224        | 19,039        | 17,735        | 16,378        | 14,996        | 247,162        |
| HYW0240P        | 6,826         | 5,323         | 6,504         | 7,157         | 4,261         | 4,397         | 3,219         | 3,672         | 5,791         | 6,100         | 7,469         | 7,788         | 68,507         |
| HYW0241P        | 9,717         | 9,233         | 8,726         | 8,019         | 7,176         | 6,730         | 5,844         | 5,537         | 5,806         | 6,977         | 8,271         | 11,154        | 93,190         |
| <b>TOTAL</b>    | <b>57,406</b> | <b>60,864</b> | <b>58,242</b> | <b>60,436</b> | <b>53,123</b> | <b>53,941</b> | <b>45,927</b> | <b>42,563</b> | <b>45,843</b> | <b>44,837</b> | <b>48,934</b> | <b>50,750</b> | <b>622,866</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

| Sample Point ID | Western 6     |               |               |               |               |               |               |               |               |               |               |               |                |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
|                 | FY22 (kL)     |               |               |               |               |               |               |               |               |               |               |               |                |
|                 | Jul-21        | Aug-21        | Sep-21        | Oct-21        | Nov-21        | Dec-21        | Jan-22        | Feb-22        | Mar-22        | Apr-22        | May-22        | Jun-22        | TOTAL          |
| HYW0175P        | 2,993         | 2,428         | 2,081         | 3,346         | 2,202         | 1,910         | 1,611         | 1,018         | 136           |               |               |               | 17,725         |
| HYW0176P        | 5,882         | 5,364         | 4,835         | 4,435         | 4,978         | 5,126         | 5,116         | 4,793         | 4,673         | 4,764         | 4,571         | 3,729         | 58,266         |
| HYW0355P        | 17,429        | 5,630         | 5,161         | 20,467        | 20,342        | 21,313        | 22,559        | 18,728        | 19,730        | 13,265        | 17,653        | 19,898        | 202,175        |
| HYW1021P        |               |               |               |               |               |               |               |               |               | 3,612         | 10,314        | 9,060         | 22,986         |
| HYW1024P        |               |               |               |               |               |               |               |               |               | 3,615         | 11,410        | 10,791        | 25,816         |
| SYAN0040        | 5,009         | 3,459         | 2,705         |               |               |               |               | 847           | 4,242         | 2,137         | 16            | 857           | 19,272         |
| SYAN0041        | 1,111         | 1,590         | 1,780         | 5,741         | 3,855         | 2,164         | 2,216         | 4,506         |               |               |               |               | 22,963         |
| <b>TOTAL</b>    | <b>32,424</b> | <b>18,471</b> | <b>16,562</b> | <b>33,989</b> | <b>31,377</b> | <b>30,513</b> | <b>31,502</b> | <b>29,892</b> | <b>28,781</b> | <b>27,393</b> | <b>43,964</b> | <b>44,335</b> | <b>369,203</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

| Sample Point ID | Central 1     |               |               |               |               |               |               |               |               |               |               |               |                |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
|                 | FY22 (kL)     |               |               |               |               |               |               |               |               |               |               |               |                |
|                 | Jul-21        | Aug-21        | Sep-21        | Oct-21        | Nov-21        | Dec-21        | Jan-22        | Feb-22        | Mar-22        | Apr-22        | May-22        | Jun-22        | TOTAL          |
| HYC0012P        | 14,125        | 14,444        | 13,263        | 13,873        | 12,973        | 10,743        | 6,943         | 9,622         | 7,075         | 12,014        | 13,218        | 11,531        | 139,824        |
| HYC0015P        | 12,445        | 10,736        | 10,354        | 10,730        | 9,979         | 8,064         | 14,914        | 17,703        | 22,763        | 20,304        | 18,122        | 18,325        | 174,439        |
| HYC0096P        | 33,027        | 34,097        | 25,514        | 34,236        | 32,562        | 30,546        | 33,675        | 30,042        | 25,629        | 36,655        | 27,989        | 30,767        | 374,739        |
| <b>TOTAL</b>    | <b>59,597</b> | <b>59,277</b> | <b>49,131</b> | <b>58,839</b> | <b>55,514</b> | <b>49,353</b> | <b>55,532</b> | <b>57,367</b> | <b>55,467</b> | <b>68,973</b> | <b>59,329</b> | <b>60,623</b> | <b>689,002</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

**Table 10.2: Abstraction (cont'd)**

| Sample Point ID    | Central 5<br>FY22 (kL) |               |               |               |               |               |               |               |               |               |               |               |                |
|--------------------|------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
|                    | Jul-21                 | Aug-21        | Sep-21        | Oct-21        | Nov-21        | Dec-21        | Jan-22        | Feb-22        | Mar-22        | Apr-22        | May-22        | Jun-22        | TOTAL          |
|                    | 4,359                  | 10,579        | 10,101        | 7,682         | 8,437         | 8,080         | 7,944         | 4,355         | 4,326         | 4,229         | 4,081         | 3,807         | 77,980         |
| <b>HNPIYC0034P</b> |                        |               |               |               |               |               |               |               |               |               |               |               |                |
| <b>HYC0019P</b>    | 4,937                  | 4,006         | 3,901         | 4,867         | 3,715         | 2,456         | 1,431         | 1,978         | 1,939         | 1,816         | 1,962         | 1,619         | 34,627         |
| <b>HYC0020P</b>    | 8,669                  | 6,188         | 6,949         | 5,223         | 4,806         | 3,708         | 2,985         | 3,436         | 4,124         | 7,075         |               |               | 53,163         |
| <b>HYC0031P</b>    | 9,268                  | 9,901         | 9,724         | 9,038         | 7,893         | 6,788         | 5,673         | 5,547         | 5,367         | 5,856         | 5,689         | 5,317         | 86,061         |
| <b>HYC0068P</b>    | 12,491                 | 11,581        | 10,580        | 7,963         | 8,413         | 7,453         | 8,116         | 6,596         | 7,294         | 8,410         | 8,248         | 6,076         | 103,221        |
| <b>HYC0069P</b>    | 20,535                 | 18,385        | 15,883        | 11,700        | 14,843        | 13,496        | 10,253        | 10,088        | 10,106        | 9,877         | 12,388        | 11,336        | 158,890        |
| <b>HYC0089P</b>    | 7,319                  | 6,747         | 6,148         | 5,734         | 4,994         | 4,586         | 3,689         | 3,965         | 4,050         | 3,745         | 3,959         | 3,515         | 58,451         |
| <b>HYC0090P</b>    | 3,537                  | 2,958         | 2,453         | 2,195         | 1,914         | 1,735         | 1,599         | 1,340         | 123           |               |               |               | 17,854         |
| <b>TOTAL</b>       | <b>71,115</b>          | <b>70,345</b> | <b>65,739</b> | <b>54,402</b> | <b>55,015</b> | <b>48,302</b> | <b>41,690</b> | <b>37,305</b> | <b>37,329</b> | <b>41,008</b> | <b>36,327</b> | <b>31,670</b> | <b>590,247</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

| Sample Point ID | Eastern 1 & 2<br>FY22 (kL) |               |               |               |               |               |               |               |               |               |               |               |                |
|-----------------|----------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
|                 | Jul-21                     | Aug-21        | Sep-21        | Oct-21        | Nov-21        | Dec-21        | Jan-22        | Feb-22        | Mar-22        | Apr-22        | May-22        | Jun-22        | TOTAL          |
|                 | 5,201                      | 5,049         | 4,194         | 4,103         | 4,698         | 4,542         | 3,579         | 2,183         | 2,953         | 3,472         | 4,368         | 2,706         | 47,048         |
| <b>HYE0023P</b> |                            |               |               |               |               |               |               |               |               |               |               |               |                |
| <b>HYE0041P</b> | 7,071                      | 6,862         | 7,391         | 7,408         | 7,987         | 8,116         | 7,725         | 6,906         | 7,573         | 7,329         | 6,992         | 7,253         | 88,613         |
| <b>HYE0051P</b> | 17,622                     | 15,330        | 14,506        | 15,015        | 14,370        | 14,800        | 13,968        | 12,383        | 12,265        | 11,072        | 10,749        | 9,890         | 161,970        |
| <b>HYE0060P</b> | 2,839                      | 2,598         | 2,449         | 2,340         | 2,268         | 2,143         | 2,214         | 1,743         | 180           |               |               |               | 18,774         |
| <b>HYE0061P</b> | 8,867                      | 9,381         | 7,458         | 8,389         | 8,012         | 5,647         | 8,696         | 6,907         | 7,521         | 6,613         | 4,745         | 6,333         | 88,569         |
| <b>HYE0193P</b> | 21,596                     | 20,903        | 16,935        | 10,998        | 7,816         | 6,491         | 14,155        | 12,217        | 14,902        | 14,406        | 15,989        | 14,550        | 170,958        |
| <b>HYE0194P</b> | 14,861                     | 10,237        | 10,277        | 10,336        | 11,465        | 9,818         | 9,817         | 8,039         | 10,723        | 7,252         | 9,960         | 8,291         | 121,076        |
| <b>SYAN0001</b> |                            |               |               |               |               |               |               |               |               |               |               |               | 0              |
| <b>SYAN0037</b> | 195                        |               |               |               |               |               |               | 580           | 209           |               |               |               | 984            |
| <b>SYAN0044</b> |                            |               |               |               |               |               |               |               |               |               |               |               | 0              |
| <b>TOTAL</b>    | <b>78,252</b>              | <b>70,360</b> | <b>63,210</b> | <b>58,589</b> | <b>56,616</b> | <b>51,557</b> | <b>60,154</b> | <b>50,958</b> | <b>56,326</b> | <b>50,144</b> | <b>52,803</b> | <b>49,023</b> | <b>697,992</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

**Table 10.2: Abstraction (cont'd)**

| Sample Point ID | Eastern 4<br>FY22 (kL) |          |          |          |          |          |          |              |              |              |              |              |               |
|-----------------|------------------------|----------|----------|----------|----------|----------|----------|--------------|--------------|--------------|--------------|--------------|---------------|
|                 | Jul-21                 | Aug-21   | Sep-21   | Oct-21   | Nov-21   | Dec-21   | Jan-22   | Feb-22       | Mar-22       | Apr-22       | May-22       | Jun-22       | TOTAL         |
| HYE1518P        |                        |          |          |          |          |          |          |              |              |              |              |              | 0             |
| HYE1519P        |                        |          |          |          |          |          |          |              |              | 1,282        | 616          |              | 1,898         |
| HYE1523P        |                        |          |          |          |          |          |          |              | 790          | 3,660        | 1,048        | 2,311        | 7,809         |
| SYAN0050        |                        |          |          |          |          |          |          | 1,951        | 4,346        |              |              |              | 6,297         |
| <b>TOTAL</b>    | <b>0</b>               | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>1,951</b> | <b>5,136</b> | <b>4,942</b> | <b>1,664</b> | <b>2,311</b> | <b>16,004</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

| Sample Point ID | Eastern 3,5,6<br>FY22 (kL) |                |                |                |                |                |                |                |               |               |               |               |                  |
|-----------------|----------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|------------------|
|                 | Jul-21                     | Aug-21         | Sep-21         | Oct-21         | Nov-21         | Dec-21         | Jan-22         | Feb-22         | Mar-22        | Apr-22        | May-22        | Jun-22        | TOTAL            |
| HYE0014P        |                            |                |                |                |                |                | 229            | 171            |               |               |               |               | 400              |
| HYE0026P        | 20,850                     | 24,290         | 23,129         | 21,250         | 18,195         | 18,276         | 15,962         | 14,542         | 15,430        | 15,399        | 15,719        | 14,656        | 217,698          |
| HYE0027P        | 23,844                     | 21,579         | 14,844         | 17,790         | 17,882         | 15,856         | 14,332         | 8,028          | 7,967         | 9,100         | 8,551         | 8,534         | 168,307          |
| HYE0028P        |                            |                |                |                |                |                |                |                |               |               |               |               | 0                |
| HYE0031P        |                            |                |                |                |                |                |                |                |               |               |               |               | 0                |
| HYE0042P        | 17,374                     | 24,041         | 22,502         | 11,044         | 21,181         | 18,701         | 17,095         | 14,052         | 15,003        | 13,771        | 14,870        | 14,898        | 204,532          |
| HYE0043P        |                            |                |                |                |                |                |                |                |               |               |               |               | 0                |
| HYE0044P        | 10,903                     | 8,154          | 8,062          | 6,542          | 7,493          | 6,696          | 5,556          | 4,661          | 4,158         | 2,584         | 2,602         | 3,493         | 70,904           |
| HYE0045P        | 12,248                     | 11,565         | 10,678         | 8,506          | 10,006         | 9,473          | 8,779          | 8,004          | 8,325         | 7,808         | 8,291         | 7,197         | 110,880          |
| HYE0055P        | 7,987                      | 6,923          | 6,176          | 5,799          | 5,055          | 4,665          | 4,106          | 3,311          | 4,681         | 4,484         | 4,595         | 3,915         | 61,697           |
| HYE0132P        | 3,844                      | 3,557          | 2,975          | 2,234          | 2,242          | 1,758          | 966            | 1,380          | 107           |               |               |               | 19,063           |
| HYE0152P        |                            |                |                |                |                |                |                |                |               |               |               |               | 0                |
| HYE0156P        | 29,338                     | 24,896         | 21,576         | 19,128         | 15,377         | 14,470         | 14,261         | 13,315         | 15,188        | 11,557        | 15,079        | 13,575        | 207,760          |
| HYE0157P        | 9,800                      | 8,258          | 7,875          | 7,838          | 7,913          | 8,599          | 8,455          | 8,418          | 9,694         | 8,901         | 5,834         | 8,667         | 100,252          |
| HYE0171P        | 8,034                      | 2,312          | 12,939         | 5,911          | 5,299          | 23,754         | 55,444         | 31,366         | 10,292        | 6,078         | 5,889         | 4,974         | 172,292          |
| HYE0172P        | 7,178                      | 6,486          | 6,037          | 5,406          | 5,312          | 5,023          | 4,698          | 4,208          | 4,551         | 4,293         | 4,310         | 4,395         | 61,897           |
| SYAN0002        |                            |                |                |                |                |                |                |                |               |               |               |               | 0                |
| SYAN0003        |                            |                |                |                |                |                |                |                |               |               |               |               | 0                |
| SYAN0016        |                            |                |                |                |                |                |                |                |               |               |               |               | 0                |
| SYAN0039        | 60                         |                |                | 382            |                |                |                |                |               |               |               |               | 442              |
| <b>TOTAL</b>    | <b>151,460</b>             | <b>142,061</b> | <b>136,793</b> | <b>111,830</b> | <b>115,955</b> | <b>127,271</b> | <b>149,883</b> | <b>111,456</b> | <b>95,396</b> | <b>83,975</b> | <b>85,740</b> | <b>84,304</b> | <b>1,396,124</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

**Table 10.2: Abstraction (cont'd)**

| Sample Point ID | Eastern 7<br>FY22 (kL) |               |               |               |               |               |               |               |               |               |               |               |                |
|-----------------|------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
|                 | Jul-21                 | Aug-21        | Sep-21        | Oct-21        | Nov-21        | Dec-21        | Jan-22        | Feb-22        | Mar-22        | Apr-22        | May-22        | Jun-22        | TOTAL          |
|                 | SYAN0046               |               |               |               |               |               |               | 12,426        | 16,443        | 3,695         | 441           | 246           | 33,251         |
| HYE0130P        | 11,807                 | 9,899         | 3,957         |               | 414           | 5,336         | 4,323         | 3,791         | 4,620         | 4,533         | 4,302         | 3,807         | 56,789         |
| HYE0160P        | 13,255                 | 2,058         | 11,706        | 9,316         | 11,786        | 8,475         | 9,446         | 8,108         | 8,958         | 7,948         | 9,070         | 8,846         | 108,972        |
| HYE0180P        | 16,274                 | 16,091        | 14,394        | 14,224        | 14,069        | 12,002        | 13,927        | 12,569        | 15,002        | 15,142        | 17,048        | 17,254        | 177,996        |
| HYE0181P        | 18,231                 | 22,598        | 20,678        | 19,317        | 19,092        | 21,985        | 19,895        | 17,590        | 21,250        | 21,322        | 19,995        | 20,859        | 242,812        |
| HYE0311P        | 46                     | 47            | 45            | 47            | 45            | 47            | 47            | 42            | 47            | 45            | 1,175         | 1,157         | 2,790          |
| HYE0313P        | 2,181                  | 1,780         | 1,062         | 1,480         | 1,163         | 779           | 689           | 69            | 30            |               |               |               | 9,233          |
| HYE0314P        | 1,290                  | 1,475         | 1,081         | 826           | 764           | 626           | 520           | 472           | 84            | 620           |               |               | 7,758          |
| <b>TOTAL</b>    | <b>63,084</b>          | <b>53,948</b> | <b>52,923</b> | <b>45,210</b> | <b>47,333</b> | <b>49,250</b> | <b>48,847</b> | <b>55,067</b> | <b>66,434</b> | <b>53,305</b> | <b>52,031</b> | <b>52,169</b> | <b>639,601</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

| Sample Point ID | Barimunya Aerodrome |           |           |           |           |           |           |           |           |           |           |           |            |
|-----------------|---------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
|                 | FY22 (kL)           |           |           |           |           |           |           |           |           |           |           |           |            |
|                 | Jul-21              | Aug-21    | Sep-21    | Oct-21    | Nov-21    | Dec-21    | Jan-22    | Feb-22    | Mar-22    | Apr-22    | May-22    | Jun-22    | TOTAL      |
| FYAN0001        | 24                  | 24        | 20        | 19        | 21        | 20        | 19        | 18        | 19        | 23        | 23        | 22        | 252        |
| <b>TOTAL</b>    | <b>24</b>           | <b>24</b> | <b>20</b> | <b>19</b> | <b>21</b> | <b>20</b> | <b>19</b> | <b>18</b> | <b>19</b> | <b>23</b> | <b>23</b> | <b>22</b> | <b>252</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

| Sample Point ID | Yandi Discharge |                |                |                |                |                |                |                |                |                |                |                |                  |
|-----------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|
|                 | FY22 (kL)       |                |                |                |                |                |                |                |                |                |                |                |                  |
|                 | Jul-21          | Aug-21         | Sep-21         | Oct-21         | Nov-21         | Dec-21         | Jan-22         | Feb-22         | Mar-22         | Apr-22         | May-22         | Jun-22         | TOTAL            |
| FYAN0011        | 397,124         | 480,811        | 414,849        | 350,538        | 353,454        | 254,823        | 288,150        | 302,134        | 304,751        | 202,563        | 356,105        | 417,894        | 4,123,196        |
| FYAN0054        | 46,614          | 41,709         |                | 75,888         |                |                |                |                | 1,671          |                | 6              | 7,038          | 172,926          |
| <b>TOTAL</b>    | <b>443,738</b>  | <b>522,520</b> | <b>414,849</b> | <b>426,426</b> | <b>353,454</b> | <b>254,823</b> | <b>288,150</b> | <b>302,134</b> | <b>306,422</b> | <b>202,563</b> | <b>356,111</b> | <b>424,932</b> | <b>4,296,122</b> |

Note: A blank cell indicates that no reading was taken. '0' indicates no abstraction.

**Table 10.3: Water Levels from Monitoring Bores**

| Sample Point ID | Regional Upgradient |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY20 (mRL)          |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-19              | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| HYW0002M        |                     | 611.65 |        |        | 611.45 |        |        | 611.95 | 612.10 | 612.01 | 611.92 | 611.71 |
| HYW0003M        | 580.94              | 580.19 | 579.58 | 578.64 | 578.59 | 577.48 | 576.36 | 576.09 | 577.86 | 577.10 | 576.42 | 576.00 |
| HYW0005M        | 567.53              | 566.42 | 565.20 | 567.20 | 564.05 | 563.55 |        | 563.77 | 564.18 | 564.14 | 563.32 | 562.21 |
| MB16YSN0001M    |                     |        |        |        |        |        |        |        | 573.66 | 573.19 | 572.07 | 571.72 |
| MB16YSN0003M    | 599.29              | 599.13 | 599.09 |        |        |        |        |        | 599.71 | 599.41 | 598.19 | 597.93 |
| MB16YSN0004M    | 608.37              | 608.26 | 608.23 | 608.10 | 608.05 | 607.98 | 608.24 | 608.63 | 608.77 | 608.65 | 608.38 | 608.21 |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Spinifex Camp |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY20 (mRL)    |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-19        | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| HYW0003M        | 580.94        | 580.19 | 579.58 | 578.64 | 578.59 | 577.48 | 576.36 | 576.09 | 577.86 | 577.10 | 576.42 | 576.00 |
| MB16YSN0001M    |               |        |        |        |        |        |        |        | 573.66 | 573.19 | 572.07 | 571.72 |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Western 1  |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY20 (mRL) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-19     | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| HYW0217M        | 536.12     | 536.09 | 535.91 | 536.24 | 538.12 | 535.93 | 535.86 | 535.91 |        |        | 571.12 |        |
| HYW0221M        | 527.06     | 526.91 | 526.93 | 526.63 | 526.47 | 526.43 | 527.59 | 522.96 | 522.95 | 522.81 | 522.75 | 522.74 |
| HYW0222M        | 522.75     | 522.74 | 522.73 | 522.60 | 522.49 | 522.53 | 522.76 | 528.92 | 528.56 | 528.34 | 527.88 | 527.50 |
| HYW0502M        |            |        |        | 521.82 | 521.30 | 520.98 | 527.85 | 531.62 | 530.58 | 527.58 | 524.62 | 523.67 |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Western 2  |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY20 (mRL) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-19     | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| HYW0326M        | 533.12     | 532.85 | 532.65 | 532.38 | 532.04 | 531.78 | 531.80 | 533.57 | 535.13 | 535.02 | 533.83 | 533.55 |
| HYW0345M        |            |        | 528.13 |        |        |        |        |        |        |        |        |        |
| HYW0347M        |            |        | 528.15 | 525.83 | 525.05 | 524.53 | 532.92 | 536.41 | 534.85 | 531.78 | 529.49 | 528.44 |

Note: A blank cell indicates that no reading was taken.

**Table 10.3: Water Levels from Monitoring Bores (cont'd)**

| Sample Point ID | Western 4  |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY20 (mRL) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-19     | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| HYW0050M        | 515.45     | 515.20 | 515.40 | 515.22 | 515.16 | 515.42 | 521.14 | 523.00 | 520.29 | 519.08 | 518.21 | 517.10 |
| HYW0184M        | 509.67     | 509.65 | 509.59 | 509.27 | 509.17 |        | 509.37 | 510.96 | 511.54 | 511.17 | 511.13 | 510.96 |
| HYW0329M        | 508.14     | 507.98 | 507.92 | 507.95 | 507.94 | 507.92 | 508.26 | 509.00 | 510.26 | 510.77 | 511.00 | 511.16 |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Western 5  |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY20 (mRL) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-19     | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| HYW0352M        | 511.56     | 511.20 | 510.98 | 510.60 | 510.61 | 510.38 | 510.15 | 510.69 | 511.74 | 512.73 | 513.14 | 513.23 |
| HYW0400M        |            |        |        |        | 506.34 | 505.78 | 506.72 | 508.52 | 508.93 | 508.05 | 507.87 | 507.19 |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Western 6  |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY20 (mRL) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-19     | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| HYW0175P        |            | 513.13 |        | 513.61 | 513.92 |        |        |        |        |        |        |        |
| HYW0343M        | 528.53     |        |        |        |        |        |        |        |        |        |        |        |
| HYW1022M        |            |        |        |        |        |        |        |        |        |        |        |        |
| HYW1023M        |            |        |        |        |        |        |        |        |        |        |        |        |
| HYW1028M        |            |        |        |        |        |        |        |        |        |        |        |        |
| HYW1029M        |            |        |        |        |        |        |        |        |        |        |        |        |
| HYW1030M        |            |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Central 1  |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY20 (mRL) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-19     | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| HYC0018P        |            | 499.44 | 499.88 | 498.44 | 497.85 | 497.47 | 497.80 | 498.96 | 499.52 | 499.88 | 499.67 | 499.50 |
| HYC0061M        | 501.93     | 501.44 | 500.96 | 500.45 | 499.88 | 499.66 | 499.99 | 500.60 | 500.89 | 501.01 | 501.00 | 500.87 |

Note: A blank cell indicates that no reading was taken.

**Table 10.3: Water Levels from Monitoring Bores (cont'd)**

| Sample Point ID | Central 5  |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY20 (mRL) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-19     | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| HYC0021P        | 499.28     | 498.18 | 497.99 | 497.70 | 497.27 | 496.96 | 497.53 | 498.98 | 499.76 | 500.30 | 500.44 | 500.26 |
| HYC0066M        | 491.68     | 491.13 | 491.07 | 490.77 | 490.58 | 490.45 | 494.40 | 508.32 | 506.60 | 502.11 | 498.68 | 496.63 |
| HYC0067M        | 490.15     | 489.88 | 490.88 | 489.69 | 489.75 | 489.36 | 490.29 | 493.29 | 497.59 | 497.44 | 496.90 | 496.19 |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Eastern 1 & 2 |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY20 (mRL)    |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-19        | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| YE0645DM        | 489.58        | 489.63 | 489.21 | 489.00 | 489.04 | 489.26 | 489.36 | 490.51 | 492.27 | 492.14 | 490.96 | 490.87 |
| HYE0190M        |               |        |        |        |        |        | 501.40 | 509.72 | 506.23 | 499.57 | 496.76 | 494.08 |
| HYE0191M        |               |        |        |        |        |        | 497.00 | 499.96 | 500.44 | 496.57 | 494.59 | 492.48 |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Eastern 4  |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY20 (mRL) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-19     | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| HYE1522M        |            |        |        |        |        |        |        |        |        |        |        |        |
| HYE1525M        |            |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Eastern 3,5,6 |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY20 (mRL)    |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-19        | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| HYE0026P        |               | 488.21 | 488.65 | 488.56 | 489.12 | 488.87 | 490.30 | 491.66 | 492.98 | 495.14 | 496.33 | 496.39 |
| HYE0148M        | 489.43        | 489.67 | 489.57 | 489.55 | 489.54 | 489.54 | 491.03 | 491.32 | 491.59 | 492.87 | 493.56 | 493.81 |
| HYE0149M        | 487.81        | 487.98 | 487.85 | 487.70 | 487.65 | 487.60 | 488.98 | 490.90 | 493.54 | 494.45 | 493.72 | 493.14 |
| HYE0153M        | 492.88        | 492.77 | 492.83 | 492.71 | 492.62 | 492.51 | 493.58 | 494.07 | 494.13 | 494.14 | 494.14 | 494.06 |
| HYE0154M        |               |        |        |        |        |        |        | 488.49 | 490.11 | 489.68 | 489.18 | 487.89 |
| HYE0155M        | 485.83        | 485.70 | 485.79 | 485.50 | 485.39 | 485.30 | 487.34 | 491.05 | 493.39 | 493.04 | 492.57 | 492.06 |
| HYE0162M        | 477.99        | 478.63 | 478.65 | 478.98 | 477.89 | 477.81 | 492.13 | 497.21 | 494.41 | 491.00 | 488.21 | 485.61 |

Note: A blank cell indicates that no reading was taken.

**Table 10.3: Water Levels from Monitoring Bores (cont'd)**

| Sample Point ID | Eastern 7  |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY20 (mRL) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-19     | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| HYE0310M        |            |        |        |        |        |        |        |        |        |        |        |        |
| HYE0312M        |            |        |        |        |        |        |        |        |        |        |        | 488.44 |
| HYE0314P        |            |        |        |        |        |        |        |        |        |        | 505.85 | 492.30 |
| HYE0300M        |            |        |        | 483.10 | 481.95 | 482.14 | 484.50 | 486.76 | 489.33 | 490.04 | 487.60 | 487.07 |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Regional Downgradient |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY20 (mRL)            |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-19                | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| HYM0010M        |                       |        |        |        | 519.92 |        |        |        | 519.91 | 519.62 | 519.89 | 519.72 |
| YM0121M         |                       | 512.54 |        |        | 512.14 |        |        |        | 513.48 | 513.07 | 513.50 | 513.19 |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Regional Upgradient |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 (mRL)          |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20              | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HYW0002M        | 611.60              | 611.50 | 611.41 | 611.35 | 611.25 | 611.18 | 611.15 | 610.24 | 611.53 | 611.49 | 611.33 | 611.18 |
| HYW0003M        | 575.34              | 574.29 | 573.84 | 573.64 | 572.67 | 572.84 | 572.36 | 572.15 | 571.93 | 571.86 | 571.86 | 571.86 |
| HYW0005M        | 558.10              | 556.97 | 556.97 | 555.54 | 554.81 | 553.38 | 552.59 | 552.48 | 552.98 | 551.97 | 551.80 | 551.31 |
| MB16YSN0001M    | 571.47              | 569.26 | 569.81 | 568.74 | 567.68 | 568.03 | 567.67 | 566.46 | 566.30 | 565.57 | 565.44 | 565.41 |
| MB16YSN0003M    | 597.77              | 597.50 | 597.64 | 597.64 | 597.52 | 597.45 | 597.19 | 597.62 | 597.92 | 596.92 | 596.62 | 596.35 |
| MB16YSN0004M    | 608.07              | 607.97 | 608.09 | 607.21 | 607.01 | 606.99 | 607.66 | 607.96 | 608.02 | 607.78 | 607.61 | 607.59 |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Spinifex Camp |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 (mRL)    |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20        | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HYW0003M        | 575.34        | 574.29 | 573.84 | 573.64 | 572.67 | 572.84 | 572.36 | 572.15 | 571.93 | 571.86 | 571.86 | 571.86 |
| MB16YSN0001M    | 571.47        | 569.26 | 569.81 | 568.74 | 567.68 | 568.03 | 567.67 | 566.46 | 566.30 | 565.57 | 565.44 | 565.41 |

Note: A blank cell indicates that no reading was taken.

**Table 10.3: Water Levels from Monitoring Bores (cont'd)**

| Sample Point ID | Western 1  |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 (mRL) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20     | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HYW0217M        | 571.12     |        |        |        |        |        |        |        |        |        |        |        |
| HYW0221M        | 522.74     | 522.67 | 522.66 | 522.59 | 522.32 | 522.50 | 522.86 | 522.57 | 524.39 | 522.74 | 522.51 | 522.63 |
| HYW0222M        | 527.27     | 527.11 | 526.95 | 526.76 | 526.60 | 527.29 | 528.67 | 528.94 | 528.49 | 528.25 | 527.84 | 527.48 |
| HYW0502M        | 535.28     |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Western 2  |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 (mRL) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20     | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HYW0326M        | 532.75     | 532.30 | 531.99 | 531.70 | 531.42 | 531.37 | 531.39 | 531.93 | 532.38 | 533.47 | 533.30 | 532.63 |
| HYW0345M        |            |        |        |        |        |        |        |        |        |        |        |        |
| HYW0347M        | 527.11     | 526.06 | 525.89 | 525.15 | 524.81 | 525.56 | 527.81 | 532.27 | 532.97 | 530.29 | 529.49 | 527.31 |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Western 4  |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 (mRL) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20     | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HYW0050M        | 518.02     | 516.93 | 516.41 | 515.99 | 515.68 | 515.88 | 517.14 | 521.69 | 522.50 | 518.72 | 518.43 | 517.54 |
| HYW0184M        | 510.84     | 510.13 | 509.80 | 509.61 | 510.19 | 510.19 | 510.54 | 512.30 | 511.53 | 512.96 | 513.39 | 511.90 |
| HYW0329M        | 510.92     | 510.98 | 511.92 | 510.66 | 510.29 |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Western 5  |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 (mRL) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20     | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HYW0352M        | 512.76     | 512.56 | 511.96 |        |        | 510.89 | 510.69 | 511.04 | 512.07 | 513.10 | 513.44 | 513.39 |
| HYW0400M        | 506.54     | 505.89 | 505.79 | 505.62 | 505.36 | 504.92 | 505.63 | 506.40 | 508.57 | 508.25 | 507.94 | 507.77 |

Note: A blank cell indicates that no reading was taken.

**Table 10.3: Water Levels from Monitoring Bores (cont'd)**

| Sample Point ID | Western 6  |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 (mRL) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20     | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HYW0175P        |            |        |        |        |        |        |        |        |        |        |        |        |
| HYW0343M        |            |        |        |        |        |        |        |        |        |        |        |        |
| HYW1022M        |            |        |        |        |        |        |        |        |        |        |        |        |
| HYW1023M        |            |        |        |        |        |        |        |        |        |        |        |        |
| HYW1028M        |            |        |        |        |        |        |        |        |        |        |        |        |
| HYW1029M        |            |        |        |        |        |        |        |        |        |        |        |        |
| HYW1030M        |            |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Central 1  |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 (mRL) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20     | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HYC0018P        | 499.02     | 498.75 |        | 497.95 | 498.01 | 497.84 | 498.71 | 500.49 | 501.32 | 501.69 | 501.62 | 501.09 |
| HYC0061M        | 500.66     | 500.49 | 500.25 | 499.82 | 499.27 | 499.92 | 500.44 | 501.89 | 502.70 | 502.94 | 502.96 | 503.07 |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Central 5  |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 (mRL) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20     | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HYC0021P        | 499.85     | 499.63 | 499.32 | 498.74 | 497.99 | 498.12 | 498.85 | 500.42 | 502.13 | 501.87 | 501.95 | 502.05 |
| HYC0066M        | 494.88     | 493.66 | 492.78 | 486.04 | 491.05 | 491.63 | 493.75 | 495.86 | 497.30 | 496.70 | 496.64 | 496.10 |
| HYC0067M        | 495.28     | 494.47 | 493.66 | 492.94 | 493.01 | 492.00 | 492.21 | 494.61 | 494.53 | 494.95 | 494.66 | 494.21 |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Eastern 1 & 2 |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 (mRL)    |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20        | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| YE0645DM        | 490.26        | 489.60 | 489.36 | 489.23 |        |        | 489.64 | 490.46 | 489.88 | 489.69 | 489.16 | 488.84 |
| HYE0190M        | 492.80        | 492.28 | 490.98 | 490.66 | 490.11 | 490.31 | 490.98 | 493.40 | 493.72 | 493.24 | 494.99 | 494.80 |
| HYE0191M        | 491.52        | 491.11 | 490.37 | 489.94 | 490.30 | 490.57 | 490.17 | 492.15 | 493.11 | 491.68 | 492.27 | 492.49 |

Note: A blank cell indicates that no reading was taken.

**Table 10.3: Water Levels from Monitoring Bores (cont'd)**

| Sample Point ID | Eastern 4  |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 (mRL) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20     | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HYE1522M        |            |        |        |        |        |        |        |        |        |        |        |        |
| HYE1525M        |            |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Eastern 3,5,6 |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 (mRL)    |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20        | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HYE0026P        | 496.19        |        | 489.86 | 489.88 |        | 489.08 | 501.91 |        |        |        | 501.91 |        |
| HYE0148M        | 493.54        | 493.39 |        |        |        |        |        |        |        |        |        |        |
| HYE0149M        | 491.41        | 492.02 | 492.46 | 492.94 | 492.95 | 492.95 | 492.55 | 494.16 | 495.99 | 496.35 | 495.44 | 495.15 |
| HYE0153M        | 493.91        | 493.77 | 493.63 | 493.51 | 493.34 | 493.96 | 493.97 | 494.62 | 494.50 | 494.43 | 494.43 | 494.41 |
| HYE0154M        | 487.50        | 486.85 | 486.63 |        |        |        |        |        |        |        |        |        |
| HYE0155M        | 490.17        | 490.00 | 489.17 | 488.41 | 487.56 | 487.74 | 489.11 | 493.08 | 493.35 | 493.12 | 492.66 | 492.22 |
| HYE0162M        | 483.92        | 483.10 | 482.05 | 481.18 | 480.96 | 481.26 | 488.19 | 494.85 | 492.58 | 489.60 | 487.67 | 486.09 |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Eastern 7  |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 (mRL) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20     | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HYE0310M        |            |        |        |        |        |        |        |        |        |        |        |        |
| HYE0312M        | 487.71     | 485.26 | 483.56 | 482.20 | 479.98 | 479.59 | 489.58 | 493.63 | 493.48 | 491.78 | 490.15 | 488.48 |
| HYE0314P        | 491.51     | 490.85 | 490.34 |        |        |        | 505.57 | 510.34 |        |        |        |        |
| HYE0300M        |            | 481.89 | 481.24 | 479.67 | 479.00 | 479.20 | 478.40 | 479.70 | 481.56 | 482.74 | 481.25 | 479.54 |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Regional Downgradient |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 (mRL)            |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20                | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HYM0010M        | 519.87                | 519.99 |        |        |        |        |        |        |        |        |        |        |
| YM0121M         | 513.29                | 513.34 | 512.96 | 513.09 | 512.94 | 512.84 | 512.81 | 513.30 | 513.94 | 513.24 | 513.84 | 513.77 |

Note: A blank cell indicates that no reading was taken.

**Table 10.3: Water Levels from Monitoring Bores (cont'd)**

| Sample Point ID     | Regional Upgradient |        |        |        |        |        |        |        |        |        |        |        |
|---------------------|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                     | FY22 (mRL)          |        |        |        |        |        |        |        |        |        |        |        |
|                     | Jul-21              | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
| <b>HYW0002M</b>     | 611.14              | 611.06 | 611.00 | 610.97 | 610.84 | 610.77 | 610.57 | 610.57 | 610.60 | 610.54 | 610.52 | 610.48 |
| <b>HYW0003M</b>     | 571.29              | 571.46 | 571.55 | 571.67 | 571.75 | 571.85 | 571.97 | 571.89 | 571.92 |        | 571.09 | 571.19 |
| <b>HYW0005M</b>     | 550.75              | 551.05 | 550.23 | 549.63 | 549.06 | 547.93 | 548.45 | 548.51 | 548.48 | 547.39 | 547.59 | 547.03 |
| <b>MB16YSN0001M</b> | 565.03              | 565.01 | 564.33 | 563.43 | 563.14 | 562.50 | 561.83 | 562.14 | 561.70 | 561.63 | 561.31 | 560.76 |
| <b>MB16YSN0003M</b> | 596.18              | 595.78 | 595.59 | 595.42 | 595.29 | 595.09 | 594.93 | 595.39 | 595.04 | 595.40 | 594.91 | 595.24 |
| <b>MB16YSN0004M</b> | 607.47              | 607.38 | 607.26 | 607.15 | 607.07 | 606.92 | 606.78 | 606.80 | 606.79 | 606.83 | 606.70 | 606.77 |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID     | Spinifex Camp |        |        |        |        |        |        |        |        |        |        |        |
|---------------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                     | FY22 (mRL)    |        |        |        |        |        |        |        |        |        |        |        |
|                     | Jul-21        | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
| <b>HYW0003M</b>     | 571.29        | 571.46 | 571.55 | 571.67 | 571.75 | 571.85 | 571.97 | 571.89 | 571.92 |        | 571.09 | 571.19 |
| <b>MB16YSN0001M</b> | 565.03        | 565.01 | 564.33 | 563.43 | 563.14 | 562.50 | 561.83 | 562.14 | 561.70 | 561.63 | 561.31 | 560.76 |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Western 1  |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY22 (mRL) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-21     | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
| <b>HYW0217M</b> |            |        |        |        |        |        |        |        |        |        |        |        |
| <b>HYW0221M</b> | 522.60     | 522.57 | 522.54 | 522.49 | 522.39 | 522.29 | 522.39 | 522.57 | 522.66 | 522.58 | 522.64 | 522.57 |
| <b>HYW0222M</b> | 527.42     | 527.26 | 527.11 | 526.99 | 526.79 | 526.64 | 526.67 | 528.59 | 528.50 | 527.78 | 527.49 | 527.50 |
| <b>HYW0502M</b> |            |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Western 2  |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY22 (mRL) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-21     | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
| <b>HYW0326M</b> | 531.96     | 531.91 | 531.19 | 531.42 |        |        |        |        |        |        |        |        |
| <b>HYW0345M</b> |            |        |        |        |        |        |        |        | 527.15 | 528.65 |        | 526.73 |
| <b>HYW0347M</b> | 525.95     | 526.04 | 525.39 | 524.19 | 522.04 | 526.07 | 523.49 | 526.19 | 527.24 | 529.09 |        | 527.35 |

Note: A blank cell indicates that no reading was taken.

**Table 10.3: Water Levels from Monitoring Bores (cont'd)**

| Sample Point ID | Western 4  |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY22 (mRL) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-21     | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
| HYW0050M        | 516.85     | 516.60 | 516.23 | 515.68 | 515.28 | 515.04 | 514.87 | 515.73 | 515.30 | 516.14 | 516.34 | 516.45 |
| HYW0184M        | 512.37     | 511.36 | 510.85 | 510.51 | 509.95 | 509.68 | 509.38 | 509.95 | 510.03 | 510.15 | 510.98 | 510.58 |
| HYW0329M        |            |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Western 5  |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY22 (mRL) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-21     | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
| HYW0352M        | 512.69     | 512.52 | 511.99 | 511.41 | 510.95 | 510.24 | 509.94 | 509.75 | 509.61 | 509.55 | 510.16 | 511.28 |
| HYW0400M        | 507.29     | 506.85 | 506.29 | 505.82 | 505.64 | 505.05 | 504.69 | 505.12 | 504.66 | 504.82 | 505.61 | 507.38 |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Western 6  |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY22 (mRL) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-21     | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
| HYW0175P        |            |        |        |        |        |        |        |        |        |        |        |        |
| HYW0343M        |            |        |        |        |        |        |        |        |        |        |        |        |
| HYW1022M        |            |        |        |        |        |        |        |        |        | 524.50 | 523.99 | 523.45 |
| HYW1023M        |            |        |        |        |        |        |        |        |        | 520.99 | 520.42 | 518.54 |
| HYW1028M        |            |        |        |        |        |        |        |        |        | 526.92 | 526.06 | 525.32 |
| HYW1029M        |            |        |        |        |        |        |        |        |        | 520.29 | 521.44 | 518.96 |
| HYW1030M        |            |        |        |        |        |        |        |        |        | 524.12 | 522.61 | 522.38 |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Central 1  |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY22 (mRL) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-21     | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
| HYC0018P        | 500.97     | 500.73 | 500.36 | 499.90 | 499.34 | 498.93 | 498.46 | 496.84 | 497.18 | 496.74 | 496.59 | 496.57 |
| HYC0061M        | 502.87     | 502.86 | 502.72 | 502.27 | 501.96 | 501.66 | 501.26 | 499.68 | 499.09 | 498.66 | 498.43 | 498.14 |

Note: A blank cell indicates that no reading was taken.

**Table 10.3: Water Levels from Monitoring Bores (cont'd)**

| Sample Point ID | Central 5  |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY22 (mRL) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-21     | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
| HYC0021P        | 499.99     | 499.75 | 499.46 | 498.58 | 498.07 | 497.54 | 497.28 | 496.99 | 496.84 | 496.67 | 495.70 | 496.86 |
| HYC0066M        | 494.44     | 493.13 | 491.85 | 491.28 | 490.75 | 490.34 | 490.73 | 489.93 | 489.66 | 489.53 | 489.25 | 489.28 |
| HYC0067M        | 493.91     | 492.65 | 491.38 | 490.21 | 489.85 | 488.68 | 489.23 | 489.62 | 489.64 | 489.40 | 489.24 | 489.51 |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Eastern 1 & 2 |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY22 (mRL)    |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-21        | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
| YE0645DM        | 489.11        | 488.84 | 488.86 | 488.14 | 488.15 | 488.66 | 487.98 | 487.67 | 487.58 | 487.44 | 487.58 | 487.47 |
| HYE0190M        | 491.99        | 491.01 | 491.43 | 490.21 | 490.23 | 490.06 | 489.25 | 488.97 | 488.49 | 488.03 | 487.73 | 487.43 |
| HYE0191M        | 490.60        | 490.35 | 489.53 | 488.94 | 489.03 | 489.40 | 487.93 | 489.07 | 487.91 | 487.70 | 487.46 | 487.33 |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Eastern 4  |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY22 (mRL) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-21     | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
| HYE1522M        |            |        |        |        |        |        |        |        | 537.84 | 532.06 | 530.94 | 530.18 |
| HYE1525M        |            |        |        |        |        |        |        |        | 497.50 | 494.28 | 498.07 | 497.07 |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Eastern 3,5,6 |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY22 (mRL)    |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-21        | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
| HYE0026P        | 499.99        |        |        |        |        |        |        |        |        |        |        |        |
| HYE0148M        |               |        |        |        |        |        |        |        |        |        |        |        |
| HYE0149M        | 495.10        |        |        |        |        |        |        |        |        |        |        |        |
| HYE0153M        | 494.30        | 494.18 | 494.18 | 494.14 | 494.05 | 493.93 | 493.81 | 494.07 | 493.73 | 493.90 | 493.87 | 493.38 |
| HYE0154M        |               |        |        |        |        |        |        |        |        |        |        |        |
| HYE0155M        | 491.40        | 490.63 | 489.59 | 488.86 | 488.18 | 487.35 | 486.88 | 486.56 | 487.08 | 488.51 | 488.71 | 488.54 |
| HYE0162M        | 484.13        | 484.45 | 482.71 | 482.00 | 481.55 | 480.70 | 480.23 | 483.62 | 483.11 | 482.33 | 483.27 | 481.72 |

Note: A blank cell indicates that no reading was taken.

**Table 10.3: Water Levels from Monitoring Bores (cont'd)**

| Sample Point ID | Eastern 7  |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY22 (mRL) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-21     | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
| HYE0310M        |            |        |        |        |        |        |        | 496.07 |        |        |        |        |
| HYE0312M        | 484.83     | 483.27 | 482.09 |        |        |        |        |        |        |        |        |        |
| HYE0314P        |            |        |        |        |        |        | 497.72 |        |        | 499.48 | 486.80 | 486.43 |
| HYE0300M        | 478.04     | 477.80 | 477.55 | 477.75 | 478.06 | 477.65 | 477.83 | 478.56 | 478.80 | 479.85 | 480.55 | 481.02 |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Regional Downgradient |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY22 (mRL)            |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-21                | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
| HYM0010M        |                       |        |        |        |        |        |        |        |        |        |        |        |
| YM0121M         | 513.66                | 513.67 | 513.51 | 513.64 | 513.31 | 513.16 | 513.05 | 512.97 | 513.19 | 513.24 | 513.12 | 513.18 |

Note: A blank cell indicates that no reading was taken.

**Table 10.4: Field pH from Production Bores and Sumps**

| Sample Point ID | Spinifex Camp |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY20 (pH)     |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-19        | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| HNPISP0001P     |               | 7.2    | 7.1    | 7.0    | 7.0    | 7.1    | 7.2    |        | 7.2    | 8.0    | 7.1    | 7.2    |
| HNPISP0002P     | 7.3           | 7.2    |        | 7.1    | 7.0    | 7.1    | 7.2    |        |        | 7.9    | 7.3    | 7.3    |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Western 1 |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY20 (pH) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-19    | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| HNPIYN1704P     |           | 7.3    | 7.1    | 7.0    | 7.0    | 7.1    | 7.3    | 7.2    | 7.0    | 7.9    | 7.3    |        |
| HNPIYN1707P     |           | 7.3    | 7.2    | 7.0    | 7.2    | 7.2    |        | 7.2    | 5.8    | 7.5    | 7.2    |        |
| HYW0008P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0010P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0011P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0021P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0024P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0180P        |           |        |        |        | 7.3    | 8.3    | 8.4    | 8.2    | 8.4    | 8.1    | 8.1    | 8.1    |
| HYW0212P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0213P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0215P        |           |        | 8.5    |        |        |        |        |        |        |        |        |        |
| HYW0226P        | 7.1       | 7.3    | 8.7    | 7.2    | 7.4    | 8.4    | 8.2    | 7.9    | 8.1    | 8.2    | 8.4    | 8.3    |
| HYW0228P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0229P        |           |        | 9.0    | 7.1    | 7.2    | 8.3    | 8.1    | 8.1    |        | 8.1    | 8.3    | 8.2    |
| HYW0230P        |           |        | 8.2    | 7.0    | 7.4    | 7.9    | 8.5    | 7.8    |        | 8.1    | 8.0    | 8.1    |
| HYW0246P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0247P        |           |        |        | 7.2    |        |        |        |        |        |        |        |        |
| HYW0322P        | 7.2       | 7.2    | 8.2    | 7.1    | 7.1    | 7.7    | 7.8    | 7.6    |        | 8.3    | 8.1    | 8.1    |
| SYAN0015        |           |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0043        |           |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Western 2 |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY20 (pH) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-19    | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| HYW0237P        |           |        | 8.1    | 7.1    | 6.7    | 8.2    | 8.2    | 8.1    | 8.3    | 8.2    | 8.2    | 8.4    |
| HYW0238P        |           |        | 8.3    | 7.2    | 7.1    | 8.2    | 8.2    | 8.1    | 8.2    | 8.2    | 8.4    | 8.2    |
| HYW0348P        |           |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken.

**Table 10.4: Field pH from Production Bores and Sumps (cont'd)**

| Sample Point ID | Western 3 |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY20 (pH) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-19    | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| HYW1015P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW1016P        |           |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Western 4 |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY20 (pH) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-19    | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| HYW0030P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0035P        | 7.8       |        |        |        |        |        |        |        |        |        |        |        |
| HYW0042P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0049P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0051P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0064P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0072P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0165P        | 7.4       | 7.2    | 7.9    | 6.8    | 6.9    | 8.0    | 8.1    | 7.7    | 8.0    | 8.0    | 7.7    | 8.0    |
| HYW0181P        | 7.1       | 7.1    | 7.8    | 6.8    | 7.0    | 8.0    | 8.1    | 8.0    | 8.0    | 8.0    | 7.9    | 7.8    |
| HYW0182P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0340P        |           |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0035        |           |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0036        |           |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0042        |           |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Western 5 |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY20 (pH) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-19    | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| HYW0131P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0132P        |           |        | 8.0    |        |        |        |        |        |        |        |        |        |
| HYW0133P        |           |        | 8.1    |        |        |        |        |        |        |        |        |        |
| HYW0134P        | 7.3       | 7.5    |        | 7.1    | 7.0    | 7.9    | 8.1    | 8.4    | 8.0    | 8.0    | 8.1    | 8.0    |
| HYW0240P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0241P        | 7.3       | 7.6    |        | 7.0    | 7.0    | 8.0    | 8.2    | 8.6    | 8.3    | 8.2    | 7.9    | 8.4    |

Note: A blank cell indicates that no reading was taken.

**Table 10.4: Field pH from Production Bores and Sumps (cont'd)**

| Sample Point ID | Western 6<br>FY20 (pH) |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | Jul-19                 | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
|                 | HYW0175P               |        |        |        | 7.1    | 8.1    | 7.8    | 7.9    | 8.0    | 7.9    | 7.9    | 8.4    |
| HYW0176P        |                        |        | 7.9    | 7.1    |        |        |        |        | 8.5    | 8.3    | 8.0    | 8.0    |
| HYW0355P        |                        |        |        |        |        | 7.9    | 7.8    | 7.8    | 8.5    |        |        |        |
| HYW1021P        |                        |        |        |        |        |        |        |        |        |        |        |        |
| HYW1024P        |                        |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0040        |                        |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0041        |                        |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Central 1<br>FY20 (pH) |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | Jul-19                 | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| HYC0012P        | 7.4                    | 7.2    | 8.1    | 7.0    | 7.1    | 8.0    | 8.2    |        |        | 8.0    | 7.1    | 8.0    |
| HYC0015P        | 6.8                    | 7.1    | 7.7    | 7.1    | 7.2    | 8.2    | 7.7    | 8.1    | 8.0    | 10.3   | 8.1    | 7.9    |
| HYC0096P        |                        | 7.5    | 7.9    | 7.2    | 7.0    | 8.0    | 8.1    | 8.1    | 8.1    | 7.9    | 8.0    | 7.9    |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Central 5<br>FY20 (pH) |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | Jul-19                 | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| HNPIYC0034P     | 6.8                    |        |        | 6.9    | 7.1    | 7.4    | 6.8    | 7.4    | 5.5    | 6.9    |        |        |
| HYC0019P        |                        |        |        |        |        |        |        |        |        |        |        |        |
| HYC0020P        |                        |        |        |        |        |        |        |        |        |        |        |        |
| HYC0031P        |                        |        |        |        |        |        |        |        |        |        |        |        |
| HYC0068P        |                        |        |        |        |        |        |        |        |        |        |        |        |
| HYC0069P        | 7.6                    | 7.5    | 8.1    | 7.3    | 7.2    | 8.2    | 8.1    | 7.8    | 8.1    | 7.6    | 7.9    | 8.1    |
| HYC0089P        | 7.2                    | 7.2    | 7.9    | 7.4    | 6.9    | 8.1    | 8.3    | 8.0    |        | 8.1    | 7.9    | 8.0    |
| HYC0090P        |                        |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken.

**Table 10.4: Field pH from Production Bores and Sumps (cont'd)**

| Sample Point ID | Eastern 1 & 2 |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY20 (pH)     |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-19        | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| HYE0023P        | 7.4           | 7.1    | 7.9    | 7.0    | 7.0    | 7.9    | 8.1    | 8.1    |        | 7.6    | 7.9    | 8.0    |
| HYE0041P        |               |        |        |        |        |        |        |        |        |        |        |        |
| HYE0051P        | 7.3           | 7.3    | 7.9    | 7.2    | 7.2    | 8.1    | 8.2    | 8.2    | 8.1    | 7.6    | 7.9    | 7.9    |
| HYE0060P        |               |        |        |        |        |        |        |        |        |        |        |        |
| HYE0061P        |               |        |        |        |        |        |        |        |        |        |        |        |
| HYE0193P        |               |        |        |        |        |        |        |        |        |        |        |        |
| HYE0194P        |               |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0001        |               |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0037        |               |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0044        |               |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Eastern 4 |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY20 (pH) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-19    | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| HYE1518P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYE1519P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYE1523P        |           |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0050        |           |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken.

**Table 10.4: Field pH from Production Bores and Sumps (cont'd)**

| Sample Point ID | Eastern 3,5,6<br>FY20 (pH) |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | Jul-19                     | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
|                 | HYE0014P                   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0026P        |                            |        |        |        |        |        |        |        |        |        |        |        |
| HYE0027P        | 7.0                        | 7.2    |        |        | 7.0    | 8.2    | 7.6    | 7.8    | 7.8    | 7.7    | 7.8    | 7.6    |
| HYE0028P        | 7.4                        | 7.3    |        |        |        |        |        |        |        |        |        |        |
| HYE0031P        |                            |        | 8.0    | 7.3    |        |        |        |        |        |        |        |        |
| HYE0042P        |                            |        |        |        |        |        |        |        |        |        |        |        |
| HYE0043P        |                            |        |        |        |        |        |        |        |        |        |        |        |
| HYE0044P        |                            |        |        |        |        |        |        |        |        |        |        |        |
| HYE0045P        | 7.1                        | 7.5    | 8.0    | 7.1    | 6.9    | 8.0    | 7.9    | 8.2    | 7.9    | 8.0    | 7.9    | 8.0    |
| HYE0055P        |                            |        |        |        |        |        |        |        |        |        |        |        |
| HYE0132P        |                            |        |        |        |        |        |        |        |        |        |        |        |
| HYE0152P        |                            |        |        |        |        |        |        |        |        |        |        |        |
| HYE0156P        |                            |        | 8.0    | 7.3    | 7.2    | 8.3    | 8.0    | 8.6    | 8.1    | 8.2    | 8.0    | 8.1    |
| HYE0157P        |                            |        |        |        |        |        |        |        |        |        |        |        |
| HYE0171P        |                            |        |        |        |        |        |        |        |        |        |        |        |
| HYE0172P        |                            |        | 7.9    | 7.2    | 6.7    | 7.8    | 7.9    | 7.5    | 7.5    | 7.4    | 7.8    | 7.4    |
| SYAN0002        |                            |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0003        |                            |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0016        |                            |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0039        |                            |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Eastern 7<br>FY20 (pH) |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | Jul-19                 | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
|                 | SYAN0046               |        |        |        |        |        |        |        |        |        |        |        |
| HYE0130P        |                        |        |        |        |        |        |        |        |        |        |        |        |
| HYE0160P        |                        |        | 8.0    | 8.2    | 7.3    |        | 8.3    | 8.2    | 7.8    | 8.6    | 8.0    | 7.9    |
| HYE0180P        |                        |        | 7.7    |        | 7.3    | 8.0    | 7.7    | 8.2    | 7.9    | 8.9    | 8.2    | 7.5    |
| HYE0181P        |                        |        |        | 7.5    |        |        |        |        |        |        |        |        |
| HYE0311P        |                        |        |        |        |        |        |        |        |        |        |        |        |
| HYE0313P        |                        |        |        |        |        |        |        |        |        |        |        |        |
| HYE0314P        |                        |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken.

**Table 10.4: Field pH from Production Bores and Sumps (cont'd)**

| Sample Point ID | Spinifex Camp |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 (pH)     |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20        | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HNPISP0001P     | 7.3           | 7.3    | 7.1    | 7.2    | 7.2    | 7.2    | 7.2    | 7.2    | 7.3    | 7.2    | 7.2    | 7.3    |
| HNPISP0002P     | 7.3           | 7.2    | 7.1    | 7.2    | 7.1    | 7.3    | 7.4    | 7.5    | 7.2    | 7.1    | 7.1    | 7.3    |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Western 1 |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 (pH) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20    | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HNPIYN1704P     |           |        |        |        |        |        |        |        |        |        |        |        |
| HNPIYN1707P     |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0008P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0010P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0011P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0021P        |           | 8.1    |        | 8.3    | 8.3    | 8.4    | 8.1    | 8.3    | 8.3    | 8.4    | 7.5    | 7.4    |
| HYW0024P        | 8.5       |        |        |        |        |        |        |        |        |        |        |        |
| HYW0180P        | 8.3       |        |        | 8.1    | 8.4    | 8.3    | 7.5    | 8.2    | 8.2    | 8.3    | 7.4    | 7.3    |
| HYW0212P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0213P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0215P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0226P        | 8.3       |        | 8.0    | 7.9    | 8.4    | 8.7    | 8.0    | 8.3    | 8.2    | 8.3    | 7.7    | 7.2    |
| HYW0228P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0229P        | 8.2       | 8.1    | 8.0    | 8.1    | 8.3    | 8.4    | 8.1    | 8.3    | 8.2    | 8.2    | 7.2    | 7.4    |
| HYW0230P        | 8.2       | 8.1    | 8.3    | 7.9    | 8.3    | 8.3    | 8.1    | 8.2    | 7.9    | 8.1    | 7.0    | 7.1    |
| HYW0246P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0247P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0322P        |           |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0015        |           |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0043        |           |        |        |        |        |        |        |        |        |        |        | 7.7    |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Western 2 |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 (pH) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20    | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HYW0237P        | 8.3       | 8.0    | 8.1    | 8.2    | 8.3    | 8.3    | 8.0    | 8.2    | 8.2    | 8.2    | 7.1    | 7.2    |
| HYW0238P        | 8.3       | 8.2    | 8.5    | 8.0    | 8.3    | 8.4    | 8.0    | 8.2    | 8.2    | 8.2    | 7.0    | 7.2    |
| HYW0348P        |           |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken.

**Table 10.4: Field pH from Production Bores and Sumps (cont'd)**

| Sample Point ID | Western 3 |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 (pH) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20    | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HYW1015P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW1016P        |           |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Western 4 |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 (pH) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20    | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HYW0030P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0035P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0042P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0049P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0051P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0064P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0072P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0165P        | 8.0       | 7.4    | 7.9    | 8.0    | 8.1    | 7.9    | 7.8    | 8.2    | 8.1    | 7.9    | 7.2    | 6.9    |
| HYW0181P        | 8.4       | 8.1    | 7.3    |        |        |        |        |        |        |        |        |        |
| HYW0182P        |           |        |        | 7.8    | 8.2    | 7.9    | 7.8    | 8.0    | 7.8    | 7.9    | 7.1    | 6.8    |
| HYW0340P        |           |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0035        |           |        |        |        |        |        |        |        |        |        |        | 7.1    |
| SYAN0036        |           |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0042        |           |        |        |        |        |        |        |        |        |        |        | 7.4    |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Western 5 |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 (pH) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20    | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HYW0131P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0132P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0133P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0134P        | 8.0       | 8.1    | 7.9    | 8.0    | 8.5    | 8.1    | 7.9    | 8.1    | 8.0    | 8.0    | 7.0    | 7.0    |
| HYW0240P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0241P        | 8.1       | 8.0    | 8.0    | 8.1    | 8.3    | 8.2    | 8.0    | 8.0    | 8.0    | 8.2    | 6.9    | 7.1    |

Note: A blank cell indicates that no reading was taken.

**Table 10.4: Field pH from Production Bores and Sumps (cont'd)**

| Sample Point ID | Western 6 |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 (pH) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20    | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HYW0175P        | 8.1       | 8.1    | 8.0    | 7.9    | 8.4    | 8.0    | 7.9    | 8.2    | 8.0    | 8.1    | 6.7    | 7.1    |
| HYW0176P        | 8.1       | 8.1    | 8.0    | 8.1    | 8.4    | 8.2    |        | 8.0    | 7.9    | 7.9    | 6.9    | 7.1    |
| HYW0355P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW1021P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW1024P        |           |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0040        |           |        |        |        |        |        |        |        |        |        |        | 7.2    |
| SYAN0041        |           |        |        |        |        |        |        |        |        |        |        | 7.6    |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Central 1 |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 (pH) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20    | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HYC0012P        | 7.7       | 7.5    | 7.9    | 7.4    | 8.2    | 8.2    | 7.8    | 7.5    | 7.9    | 8.0    | 6.8    | 7.3    |
| HYC0015P        | 7.4       | 7.2    | 7.3    | 7.3    | 7.6    | 7.7    | 6.9    | 7.6    | 7.5    | 7.0    | 6.4    | 6.8    |
| HYC0096P        | 7.9       | 7.9    | 7.9    | 8.0    | 8.1    | 8.1    | 8.8    | 8.4    | 7.7    | 8.0    | 6.9    | 7.1    |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Central 5 |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 (pH) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20    | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HNPIYC0034P     |           |        |        |        |        |        |        | 6.7    | 7.0    | 6.8    | 6.8    | 6.7    |
| HYC0019P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYC0020P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYC0031P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYC0068P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYC0069P        | 8.2       | 8.0    | 8.0    | 8.3    | 8.5    | 8.3    | 8.5    | 8.2    | 8.0    | 8.0    | 7.0    | 7.1    |
| HYC0089P        | 7.9       | 7.8    | 8.1    | 8.0    | 7.9    | 8.1    | 7.9    | 8.0    | 7.9    | 8.0    | 6.9    | 7.0    |
| HYC0090P        |           |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken.

**Table 10.4: Field pH from Production Bores and Sumps (cont'd)**

| Sample Point ID | Eastern 1 & 2 |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 (pH)     |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20        | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HYE0023P        | 7.9           | 7.8    | 7.4    |        |        |        | 7.9    | 8.0    | 7.8    | 7.9    | 6.8    | 6.9    |
| HYE0041P        |               |        |        |        |        |        |        |        |        |        |        |        |
| HYE0051P        | 7.9           | 7.8    | 7.8    |        |        |        | 7.6    | 8.1    | 8.0    | 7.9    | 6.8    | 7.0    |
| HYE0060P        |               |        |        |        |        |        |        |        |        |        |        |        |
| HYE0061P        |               |        |        |        |        |        |        |        |        |        |        |        |
| HYE0193P        |               |        |        |        |        |        |        |        |        |        |        | 7.4    |
| HYE0194P        |               |        |        |        |        |        |        |        |        |        |        | 7.3    |
| SYAN0001        |               |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0037        |               |        |        |        |        |        |        |        |        |        |        | 7.6    |
| SYAN0044        |               |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Eastern 4 |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 (pH) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20    | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HYE1518P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYE1519P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYE1523P        |           |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0050        |           |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken.

**Table 10.4: Field pH from Production Bores and Sumps (cont'd)**

| Sample Point ID | Eastern 3,5,6<br>FY21 (pH) |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | Jul-20                     | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
|                 | HYE0014P                   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0026P        |                            |        |        |        |        |        |        |        |        |        |        |        |
| HYE0027P        | 7.4                        |        | 7.9    | 7.8    | 8.0    | 8.1    | 7.2    | 8.2    | 7.8    | 8.3    | 6.9    | 7.0    |
| HYE0028P        |                            |        |        |        |        |        |        |        |        |        |        |        |
| HYE0031P        |                            |        |        |        |        |        |        |        |        |        |        |        |
| HYE0042P        |                            |        |        |        |        |        |        |        |        |        |        |        |
| HYE0043P        |                            |        |        |        |        |        |        |        |        |        |        |        |
| HYE0044P        |                            |        |        |        |        |        |        |        |        |        |        |        |
| HYE0045P        | 7.8                        | 8.3    | 7.8    | 7.4    | 8.2    | 8.2    | 7.7    | 8.0    | 7.7    | 8.4    | 6.9    | 7.1    |
| HYE0055P        |                            |        |        |        |        |        |        |        |        |        |        |        |
| HYE0132P        |                            |        |        |        |        |        |        |        |        |        |        |        |
| HYE0152P        |                            |        |        |        |        |        |        |        |        |        |        |        |
| HYE0156P        | 8.1                        | 8.1    | 7.9    | 8.4    | 8.2    | 8.1    | 8.0    | 8.1    | 8.0    | 8.1    | 7.0    | 7.1    |
| HYE0157P        |                            |        |        |        |        |        |        |        |        |        |        |        |
| HYE0171P        |                            |        |        |        |        |        |        |        |        |        |        |        |
| HYE0172P        | 8.1                        | 7.4    | 7.7    | 7.5    | 7.7    | 8.0    | 7.8    | 7.8    | 7.8    | 8.0    | 7.0    | 7.1    |
| SYAN0002        |                            |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0003        |                            |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0016        |                            |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0039        |                            |        |        |        |        |        |        |        |        |        |        | 7.2    |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Eastern 7<br>FY21 (pH) |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | Jul-20                 | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
|                 | SYAN0046               |        |        |        |        |        |        |        |        |        |        |        |
| HYE0130P        |                        |        |        |        |        |        |        |        |        |        |        |        |
| HYE0160P        | 9.0                    | 7.8    | 7.9    |        |        |        |        |        |        |        |        |        |
| HYE0180P        | 8.4                    | 8.0    | 8.0    | 8.4    | 8.4    | 8.4    | 8.3    | 8.4    | 8.0    | 8.9    | 7.0    | 8.0    |
| HYE0181P        |                        |        |        | 8.4    | 8.5    | 8.5    | 8.0    | 8.6    | 7.9    | 8.3    | 7.1    | 7.5    |
| HYE0311P        |                        |        |        |        |        |        |        |        |        |        |        |        |
| HYE0313P        |                        |        |        |        |        |        |        |        |        |        |        |        |
| HYE0314P        |                        |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken.

**Table 10.4: Field pH from Production Bores and Sumps (cont'd)**

| Sample Point ID | Spinifex Camp |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY22 (pH)     |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-21        | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
| HNPISP0001P     | 7.2           | 7.3    | 7.3    | 7.2    | 7.3    | 7.2    | 7.2    | 7.2    | 7.2    | 7.1    | 7.2    | 7.3    |
| HNPISP0002P     | 7.2           | 7.3    | 7.2    | 7.2    | 7.2    | 7.2    | 7.2    | 7.2    | 7.2    | 7.2    | 7.3    | 7.2    |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Western 1 |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY22 (pH) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-21    | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
| HNPIYN1704P     |           |        |        |        |        |        |        |        |        |        |        |        |
| HNPIYN1707P     |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0008P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0010P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0011P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0021P        | 7.3       | 7.5    | 7.1    | 7.2    | 7.1    | 7.3    | 7.3    | 7.3    |        |        |        | 7.4    |
| HYW0024P        |           |        |        |        |        |        |        |        |        |        |        | 7.8    |
| HYW0180P        | 7.2       | 7.5    | 7.2    | 7.0    | 7.2    | 7.2    | 7.2    | 7.0    |        | 6.4    | 7.1    | 7.6    |
| HYW0212P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0213P        |           | 7.4    | 7.0    | 7.3    | 7.4    | 7.2    | 7.3    | 7.4    |        | 6.4    | 7.9    | 7.4    |
| HYW0215P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0226P        | 7.4       | 7.4    | 6.9    | 7.1    | 7.1    | 7.3    | 7.5    | 7.7    |        | 6.3    | 7.8    | 8.0    |
| HYW0228P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0229P        | 7.2       | 8.0    | 7.1    | 7.2    | 7.1    | 7.2    | 7.3    | 6.8    |        | 6.9    | 6.9    | 7.4    |
| HYW0230P        | 7.4       | 7.3    | 7.0    | 7.1    | 7.4    | 7.6    | 7.3    | 7.1    |        | 6.4    | 7.3    | 7.5    |
| HYW0246P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0247P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0322P        |           |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0015        |           |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0043        |           |        |        |        |        |        | 7.2    |        |        |        |        | 7.4    |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Western 2 |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY22 (pH) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-21    | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
| HYW0237P        | 7.2       | 7.4    | 7.0    | 7.1    | 7.1    | 7.3    | 7.1    | 6.6    |        | 6.5    | 7.2    | 7.3    |
| HYW0238P        | 7.3       | 7.2    | 7.1    | 7.0    | 7.0    | 7.5    | 7.1    | 7.0    |        | 6.4    | 7.1    | 7.4    |
| HYW0348P        |           |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken.

**Table 10.4: Field pH from Production Bores and Sumps (cont'd)**

| Sample Point ID | Western 3 |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY22 (pH) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-21    | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
| HYW1015P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW1016P        |           |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Western 4 |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY22 (pH) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-21    | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
| HYW0030P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0035P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0042P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0049P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0051P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0064P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0072P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0165P        | 7.1       | 7.4    | 7.0    | 6.9    | 7.1    | 7.7    | 7.2    | 7.4    |        | 6.2    | 7.3    | 7.2    |
| HYW0181P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0182P        | 7.2       | 7.0    | 6.9    | 7.0    | 7.1    | 7.3    | 7.1    | 7.0    |        | 6.2    | 7.6    | 7.1    |
| HYW0340P        |           |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0035        |           | 7.4    |        |        |        |        |        |        |        |        |        |        |
| SYAN0036        |           |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0042        |           | 7.5    |        |        | 7.2    |        |        | 7.5    |        |        |        |        |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Western 5 |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY22 (pH) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-21    | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
| HYW0131P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0132P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0133P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0134P        | 7.3       | 7.1    | 6.9    | 7.0    | 7.1    | 7.2    | 7.1    | 7.2    |        | 6.7    | 7.0    | 7.3    |
| HYW0240P        |           |        |        |        |        |        |        |        |        |        |        |        |
| HYW0241P        | 7.1       | 7.1    | 7.0    | 7.3    | 7.0    | 7.2    | 7.1    | 7.1    |        | 6.4    | 7.2    | 7.5    |

Note: A blank cell indicates that no reading was taken.

**Table 10.4: Field pH from Production Bores and Sumps (cont'd)**

| Sample Point ID | Western 6<br>FY22 (pH) |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | Jul-21                 | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
|                 | HYW0175P               | 7.0    | 7.1    | 6.9    | 7.0    | 7.1    | 7.1    | 7.0    | 6.7    |        |        |        |
| HYW0176P        | 7.1                    | 7.1    | 7.1    | 7.1    | 7.0    | 7.4    | 7.3    | 6.6    |        | 6.3    | 7.3    | 7.3    |
| HYW0355P        |                        |        |        |        |        |        |        |        |        |        |        |        |
| HYW1021P        |                        |        |        |        |        |        |        |        |        | 6.2    | 7.4    | 7.3    |
| HYW1024P        |                        |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0040        |                        | 7.3    |        |        | 7.1    |        |        | 7.7    |        | 7.5    |        |        |
| SYAN0041        |                        | 7.0    |        | 7.1    | 7.0    | 7.1    | 7.0    |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Central 1<br>FY22 (pH) |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | Jul-21                 | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
|                 | HYC0012P               | 7.0    | 6.7    | 6.5    | 7.0    | 6.9    | 7.2    | 6.8    | 6.6    | 6.5    | 6.3    | 7.1    |
| HYC0015P        | 6.9                    | 6.5    | 6.4    | 7.0    | 6.4    | 6.8    |        | 6.5    | 6.7    | 6.1    | 7.2    | 7.3    |
| HYC0096P        | 7.2                    | 7.1    | 6.9    | 8.2    | 6.9    | 7.1    | 7.0    | 6.9    |        | 6.3    | 7.3    | 7.1    |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Central 5<br>FY22 (pH) |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | Jul-21                 | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
|                 | HNPIYC0034P            | 6.8    |        |        |        |        |        |        |        |        |        |        |
| HYC0019P        |                        |        |        |        |        |        |        |        |        |        |        |        |
| HYC0020P        |                        |        |        |        |        |        |        |        |        |        |        |        |
| HYC0031P        |                        |        |        |        |        |        |        |        |        |        |        |        |
| HYC0068P        |                        |        |        |        |        |        |        |        |        |        |        |        |
| HYC0069P        | 7.2                    | 7.2    | 7.0    | 7.2    | 6.9    | 7.4    | 6.6    | 6.4    |        | 6.4    | 7.0    | 7.1    |
| HYC0089P        | 7.0                    | 7.0    | 7.1    | 7.2    | 7.0    | 7.3    | 6.4    | 6.4    |        | 6.1    | 6.9    | 7.2    |
| HYC0090P        |                        |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken.

**Table 10.4: Field pH from Production Bores and Sumps (cont'd)**

| Sample Point ID | Eastern 1 & 2<br>FY22 (pH) |        |        |        |        |        |        |        |        |        |        |        |     |
|-----------------|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
|                 | Jul-21                     | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |     |
|                 | HYE0023P                   | 6.8    | 7.0    | 7.2    | 7.2    | 6.9    | 7.0    | 6.7    | 6.4    |        | 6.4    | 7.1    | 7.2 |
| HYE0041P        |                            |        |        |        |        |        |        |        |        |        |        |        |     |
| HYE0051P        | 7.3                        | 7.0    | 7.0    | 7.3    | 7.0    | 7.1    | 6.5    | 6.5    |        | 6.2    | 7.0    | 7.3    |     |
| HYE0060P        |                            |        |        |        |        |        |        |        |        |        |        |        |     |
| HYE0061P        |                            |        |        |        |        |        |        |        |        |        |        |        |     |
| HYE0193P        | 6.9                        | 7.1    | 7.0    | 7.3    | 7.0    | 7.2    | 7.2    | 7.0    |        | 6.1    | 6.9    | 7.5    |     |
| HYE0194P        | 7.1                        | 6.7    | 7.0    | 7.2    | 7.1    | 7.1    | 6.6    | 6.5    |        | 6.4    | 6.8    | 7.1    |     |
| SYAN0001        |                            |        |        |        |        |        |        |        |        |        |        |        |     |
| SYAN0037        | 8.7                        |        |        |        |        |        |        |        |        |        |        |        |     |
| SYAN0044        |                            |        |        |        |        |        |        |        |        |        |        |        |     |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Eastern 4<br>FY22 (pH) |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | Jul-21                 | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
|                 | HYE1518P               |        |        |        |        |        |        |        |        | 6.7    | 7.8    |        |
| HYE1519P        |                        |        |        |        |        |        |        |        |        |        |        |        |
| HYE1523P        |                        |        |        |        |        |        |        |        |        | 6.6    | 7.3    | 7.8    |
| SYAN0050        |                        |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken.

**Table 10.4: Field pH from Production Bores and Sumps (cont'd)**

| Sample Point ID | Eastern 3,5,6<br>FY22 (pH) |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | Jul-21                     | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
|                 | HYE0014P                   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0026P        |                            |        |        |        |        |        |        |        |        |        |        |        |
| HYE0027P        |                            | 6.6    | 7.3    | 3.9    | 7.1    | 7.3    | 6.7    | 6.6    |        | 6.9    | 7.1    | 7.3    |
| HYE0028P        |                            |        |        |        |        |        |        |        |        |        |        |        |
| HYE0031P        |                            |        |        |        |        |        |        |        |        |        |        |        |
| HYE0042P        |                            |        |        |        |        |        |        |        |        |        |        |        |
| HYE0043P        |                            |        |        |        |        |        |        |        |        |        |        |        |
| HYE0044P        |                            |        |        |        |        |        |        |        |        |        |        |        |
| HYE0045P        | 6.7                        | 7.0    | 7.1    | 7.1    | 7.1    | 7.1    | 6.5    | 6.4    |        | 6.3    | 7.1    | 7.2    |
| HYE0055P        |                            |        |        |        |        |        |        |        |        |        |        |        |
| HYE0132P        |                            |        |        |        |        |        |        |        |        |        |        |        |
| HYE0152P        |                            |        |        |        |        |        |        |        |        |        |        |        |
| HYE0156P        |                            | 7.1    | 7.0    | 7.1    | 7.1    | 7.1    | 6.5    | 6.6    |        | 6.5    | 7.3    | 7.2    |
| HYE0157P        |                            |        |        |        |        |        |        |        |        |        |        |        |
| HYE0171P        |                            |        |        |        |        |        |        |        |        |        |        |        |
| HYE0172P        |                            | 6.6    | 7.2    | 7.3    | 7.1    | 6.7    | 6.6    | 6.5    |        | 6.2    | 7.0    | 7.2    |
| SYAN0002        |                            |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0003        |                            |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0016        |                            |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0039        |                            |        |        |        | 7.8    |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken.

| Sample Point ID | Eastern 7<br>FY22 (pH) |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | Jul-21                 | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
|                 | SYAN0046               |        |        |        |        |        |        |        |        |        |        |        |
| HYE0130P        |                        |        |        |        |        |        |        |        |        |        |        |        |
| HYE0160P        |                        |        |        |        |        |        |        |        |        |        |        |        |
| HYE0180P        | 7.5                    | 7.2    | 7.3    | 7.4    | 7.4    | 7.3    | 7.0    | 6.7    |        | 6.5    | 7.3    | 7.3    |
| HYE0181P        | 7.1                    | 7.2    | 7.3    | 7.3    | 7.2    | 7.7    | 6.7    | 6.6    |        | 6.3    | 7.1    | 7.3    |
| HYE0311P        |                        |        |        |        |        |        |        |        |        |        |        |        |
| HYE0313P        |                        |        |        |        |        |        |        |        |        |        |        |        |
| HYE0314P        |                        |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken.

**Table 10.5: Field EC from Production Bores and Sumps**

| Sample Point ID | Spinifex Camp                    |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY20 ( $\mu\text{S}/\text{cm}$ ) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-19                           | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| HNPISP0001P     |                                  | 1,100  | 1,200  | 1,300  | 1,300  | 1,200  | 1,200  |        | 1,300  | 1,300  | 1,300  | 1,300  |
| HNPISP0002P     | 1,200                            | 1,200  |        | 1,300  | 1,300  | 1,200  | 1,200  |        |        | 1,400  | 1,300  | 1,300  |

Note: A blank cell indicates that no reading was taken. EC values are in  $\mu\text{S}/\text{cm}$

| Sample Point ID | Western 1                        |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY20 ( $\mu\text{S}/\text{cm}$ ) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-19                           | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| HNPIYN1704P     |                                  | 1,200  | 1,300  | 1,300  | 1,300  | 1,200  | 1,200  | 1,158  | 1,300  | 1,300  | 1,300  |        |
| HNPIYN1707P     |                                  | 1,200  | 1,300  | 1,300  | 1,300  | 1,200  |        | 1,158  | 1,200  | 1,200  | 1,300  |        |
| HYW0008P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0010P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0011P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0021P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0024P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0180P        |                                  |        |        |        | 1,170  | 973    | 1,033  | 952    | 1,013  | 1,055  | 1,037  | 1,060  |
| HYW0212P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0213P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0215P        |                                  |        | 1,077  |        |        |        |        |        |        |        |        |        |
| HYW0226P        | 992                              | 1,116  | 1,058  | 927    | 1,168  | 1,023  | 1,045  | 897    | 1,059  | 1,034  | 1,121  | 1,020  |
| HYW0228P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0229P        |                                  |        | 1,062  | 926    | 1,172  | 1,018  | 1,069  | 937    |        | 1,030  | 1,083  | 1,071  |
| HYW0230P        |                                  |        | 1,219  | 1,013  | 1,327  | 982    | 1,192  | 1,192  |        | 1,160  | 994    | 1,250  |
| HYW0246P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0247P        |                                  |        |        | 990    |        |        |        |        |        |        |        |        |
| HYW0322P        | 1,128                            | 1,105  | 1,067  | 950    | 1,204  | 997    | 1,076  | 1,076  |        | 986    | 1,012  | 1,060  |
| SYAN0015        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0043        |                                  |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken. EC values are in  $\mu\text{S}/\text{cm}$

| Sample Point ID | Western 2                        |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY20 ( $\mu\text{S}/\text{cm}$ ) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-19                           | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| HYW0237P        |                                  |        | 1,075  | 923    | 1,203  | 995    | 1,060  | 1,015  | 966    | 1,023  | 1,103  | 1,070  |
| HYW0238P        |                                  |        | 1,137  | 949    | 1,164  | 1,014  | 1,066  | 994    | 1,009  | 1,029  | 1,064  | 1,071  |
| HYW0348P        |                                  |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken. EC values are in  $\mu\text{S}/\text{cm}$

**Table 10.5: Field EC from Production Bores and Sumps (cont'd)**

| Sample Point ID | Western 3                        |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY20 ( $\mu\text{S}/\text{cm}$ ) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-19                           | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| HYW1015P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW1016P        |                                  |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken. EC values are in  $\mu\text{S}/\text{cm}$

| Sample Point ID | Western 4                        |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY20 ( $\mu\text{S}/\text{cm}$ ) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-19                           | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| HYW0030P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0035P        | 910                              |        |        |        |        |        |        |        |        |        |        |        |
| HYW0042P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0049P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0051P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0064P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0072P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0165P        | 1,209                            | 1,287  | 1,135  | 949    | 1,324  | 1,230  | 1,192  | 1,181  | 1,173  | 1,171  | 1,255  | 1,161  |
| HYW0181P        | 1,607                            | 1,470  | 1,430  | 1,176  | 1,605  | 1,549  | 1,483  | 1,390  | 1,350  | 1,302  | 1,382  | 1,386  |
| HYW0182P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0340P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0035        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0036        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0042        |                                  |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken. EC values are in  $\mu\text{S}/\text{cm}$

| Sample Point ID | Western 5                        |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY20 ( $\mu\text{S}/\text{cm}$ ) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-19                           | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| HYW0131P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0132P        |                                  |        | 949    |        |        |        |        |        |        |        |        |        |
| HYW0133P        |                                  |        | 967    |        |        |        |        |        |        |        |        |        |
| HYW0134P        | 1,025                            | 991    |        | 846    | 1,079  | 954    | 962    | 920    | 938    | 933    | 983    | 928    |
| HYW0240P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0241P        | 926                              | 900    |        | 722    | 931    | 830    | 888    | 867    | 810    | 808    | 872    | 798    |

Note: A blank cell indicates that no reading was taken. EC values are in  $\mu\text{S}/\text{cm}$

**Table 10.5: Field EC from Production Bores and Sumps (cont'd)**

| Sample Point ID | Western 6                        |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY20 ( $\mu\text{S}/\text{cm}$ ) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-19                           | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| HYW0175P        |                                  |        |        |        | 1,207  | 1,111  | 1,089  | 947    | 1,072  | 934    | 1,158  | 799    |
| HYW0176P        |                                  |        | 1,203  | 1,027  |        |        |        |        | 917    | 916    | 1,102  | 1,113  |
| HYW0355P        |                                  |        |        |        |        | 945    | 977    | 903    | 917    |        |        |        |
| HYW1021P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW1024P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0040        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0041        |                                  |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken. EC values are in  $\mu\text{S}/\text{cm}$

| Sample Point ID | Central 1                        |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY20 ( $\mu\text{S}/\text{cm}$ ) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-19                           | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| HYC0012P        | 1,215                            | 1,155  | 1,078  | 905    | 1,250  | 1,160  | 1,061  |        |        | 1,041  | 1,131  | 1,114  |
| HYC0015P        | 1,165                            | 1,009  | 991    | 871    | 1,156  | 1,032  | 1,200  | 997    | 963    | 795    | 1,088  | 1,030  |
| HYC0096P        |                                  | 758    | 710    | 615    | 794    | 711    | 700    | 712    | 716    | 716    | 738    | 734    |

Note: A blank cell indicates that no reading was taken. EC values are in  $\mu\text{S}/\text{cm}$

| Sample Point ID | Central 5                        |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY20 ( $\mu\text{S}/\text{cm}$ ) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-19                           | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| HNPIYC0034P     | 920                              |        |        | 1,000  | 1,000  | 960    | 980    | 1,000  | 1,000  | 1,000  |        |        |
| HYC0019P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYC0020P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYC0031P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYC0068P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYC0069P        | 872                              | 752    | 716    | 592    | 860    | 714    | 705    | 741    | 664    | 693    | 753    | 617    |
| HYC0089P        | 891                              | 822    | 820    | 573    | 954    | 825    | 802    | 790    |        | 778    | 805    | 764    |
| HYC0090P        |                                  |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken. EC values are in  $\mu\text{S}/\text{cm}$

**Table 10.5: Field EC from Production Bores and Sumps (cont'd)**

| Sample Point ID | Eastern 1 & 2                    |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY20 ( $\mu\text{S}/\text{cm}$ ) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-19                           | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| HYE0023P        | 804                              | 906    | 847    | 670    | 968    | 812    | 811    | 831    |        | 794    | 867    | 849    |
| HYE0041P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYE0051P        | 839                              | 767    | 781    | 651    | 917    | 766    | 766    | 769    | 759    | 804    | 833    | 800    |
| HYE0060P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYE0061P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYE0193P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYE0194P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0001        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0037        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0044        |                                  |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken. EC values are in  $\mu\text{S}/\text{cm}$

| Sample Point ID | Eastern 4                        |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY20 ( $\mu\text{S}/\text{cm}$ ) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-19                           | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| HYE1518P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYE1519P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYE1523P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0050        |                                  |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken. EC values are in  $\mu\text{S}/\text{cm}$

**Table 10.5: Field EC from Production Bores and Sumps (cont'd)**

| Sample Point ID | Eastern 3,5,6<br>FY20 ( $\mu\text{S}/\text{cm}$ ) |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | Jul-19  | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
|                 | HYE0014P  |        |        |        |        |        |        |        |        |        |        |        |
| HYE0026P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0027P        | 777   | 690    |        |        | 796    | 647    | 680    | 661    | 655    | 647    | 684    | 655    |
| HYE0028P        | 686   | 771    |        |        |        |        |        |        |        |        |        |        |
| HYE0031P        |   |        | 686    | 631    |        |        |        |        |        |        |        |        |
| HYE0042P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0043P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0044P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0045P        | 810   | 732    | 665    | 561    | 855    | 710    | 710    | 715    | 708    | 727    | 738    | 729    |
| HYE0055P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0132P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0152P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0156P        |   |        | 561    | 514    | 694    | 569    | 625    | 616    | 519    | 537    | 595    | 567    |
| HYE0157P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0171P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0172P        |   |        | 686    | 623    | 891    | 735    | 730    | 760    | 634    | 757    | 772    | 724    |
| SYAN0002        |   |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0003        |   |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0016        |   |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0039        |   |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken. EC values are in  $\mu\text{S}/\text{cm}$

| Sample Point ID | Eastern 7<br>FY20 ( $\mu\text{S}/\text{cm}$ ) |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | Jul-19  | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
|                 | SYAN0046                                      |        |        |        |        |        |        |        |        |        |        |        |
| HYE0130P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0160P        |   |        | 696    | 647    | 802    |        | 682    | 631    | 777    | 752    | 690    | 647    |
| HYE0180P        |   |        | 754    |        | 795    | 743    | 775    | 806    | 657    | 781    | 857    | 828    |
| HYE0181P        |   |        |        | 667    |        |        |        |        |        |        |        |        |
| HYE0311P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0313P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0314P        |   |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken. EC values are in  $\mu\text{S}/\text{cm}$

**Table 10.5: Field EC from Production Bores and Sumps (cont'd)**

| Sample Point ID | Spinifex Camp                    |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 ( $\mu\text{S}/\text{cm}$ ) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20                           | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HNPISP0001P     | 1,300                            | 1,200  | 1,191  | 1,191  | 1,183  | 1,173  | 1,163  | 1,106  | 1,300  | 1,188  | 1,200  | 1,036  |
| HNPISP0002P     | 1,200                            | 1,300  | 1,253  | 1,231  | 1,249  | 1,274  | 1,232  | 1,125  | 1,248  | 1,252  | 1,300  | 1,122  |

Note: A blank cell indicates that no reading was taken. EC values are in  $\mu\text{S}/\text{cm}$

| Sample Point ID | Western 1                        |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 ( $\mu\text{S}/\text{cm}$ ) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20                           | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HNPIYN1704P     |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HNPIYN1707P     |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0008P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0010P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0011P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0021P        |                                  | 1,027  |        | 1,101  | 940    | 900    | 1,007  | 1,052  | 1,054  | 1,033  | 983    | 758    |
| HYW0024P        | 980                              |        |        |        |        |        |        |        |        |        |        |        |
| HYW0180P        | 907                              |        |        | 1,021  | 889    | 855    | 1,010  | 940    | 1,048  | 1,026  | 987    | 765    |
| HYW0212P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0213P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0215P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0226P        | 1,007                            |        | 1,032  | 1,108  | 898    | 870    | 1,021  | 1,039  | 1,060  | 975    |        | 754    |
| HYW0228P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0229P        | 977                              | 1,044  | 986    | 1,076  | 878    | 860    | 1,054  | 1,007  | 1,038  | 1,049  | 980    | 758    |
| HYW0230P        | 1,060                            | 1,210  | 1,156  | 1,221  | 945    | 1,000  | 1,018  | 1,177  | 1,224  | 1,211  | 1,104  | 869    |
| HYW0246P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0247P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0322P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0015        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0043        |                                  |        |        |        |        |        |        |        |        |        |        | 785    |

Note: A blank cell indicates that no reading was taken. EC values are in  $\mu\text{S}/\text{cm}$

| Sample Point ID | Western 2                        |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 ( $\mu\text{S}/\text{cm}$ ) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20                           | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HYW0237P        | 1,013                            | 1,084  | 1,048  | 1,100  | 852    | 918    | 891    | 505    | 1,038  | 1,030  | 1,058  | 758    |
| HYW0238P        | 979                              | 1,046  | 960    | 1,043  | 892    | 911    | 1,005  | 997    | 1,033  | 1,025  | 1,038  | 715    |
| HYW0348P        |                                  |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken. EC values are in  $\mu\text{S}/\text{cm}$

**Table 10.5: Field EC from Production Bores and Sumps (cont'd)**

| Sample Point ID | Western 3                        |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 ( $\mu\text{S}/\text{cm}$ ) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20                           | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HYW1015P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW1016P        |                                  |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken. EC values are in  $\mu\text{S}/\text{cm}$

| Sample Point ID | Western 4                        |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 ( $\mu\text{S}/\text{cm}$ ) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20                           | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HYW0030P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0035P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0042P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0049P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0051P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0064P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0072P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0165P        | 1,036                            | 1,168  | 1,132  | 1,012  | 968    | 1,033  | 1,094  | 1,210  | 1,178  | 1,155  | 1,063  | 829    |
| HYW0181P        | 1,192                            | 1,275  | 1,187  |        |        |        |        |        |        |        |        |        |
| HYW0182P        |                                  |        |        | 1,022  | 975    | 874    | 930    | 1,038  | 997    | 975    | 998    | 724    |
| HYW0340P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0035        |                                  |        |        |        |        |        |        |        |        |        |        | 784    |
| SYAN0036        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0042        |                                  |        |        |        |        |        |        |        |        |        |        | 622    |

Note: A blank cell indicates that no reading was taken. EC values are in  $\mu\text{S}/\text{cm}$

| Sample Point ID | Western 5                        |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 ( $\mu\text{S}/\text{cm}$ ) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20                           | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HYW0131P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0132P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0133P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0134P        | 930                              | 931    | 982    | 969    | 880    | 866    | 877    | 948    | 934    | 826    | 793    | 685    |
| HYW0240P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0241P        | 798                              | 961    | 821    | 884    | 875    | 770    | 786    | 822    | 824    | 945    | 693    | 641    |

Note: A blank cell indicates that no reading was taken. EC values are in  $\mu\text{S}/\text{cm}$

**Table 10.5: Field EC from Production Bores and Sumps (cont'd)**

| Sample Point ID | Western 6                        |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 ( $\mu\text{S}/\text{cm}$ ) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20                           | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HYW0175P        | 1,086                            | 1,099  | 1,051  | 1,147  | 898    | 1,000  | 1,011  | 1,115  | 1,159  | 1,162  | 688    | 837    |
| HYW0176P        | 1,390                            | 1,183  | 1,253  | 1,300  | 884    | 970    |        | 1,273  | 1,215  | 1,125  | 693    | 878    |
| HYW0355P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW1021P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW1024P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0040        |                                  |        |        |        |        |        |        |        |        |        |        | 875    |
| SYAN0041        |                                  |        |        |        |        |        |        |        |        |        |        | 850    |

Note: A blank cell indicates that no reading was taken. EC values are in  $\mu\text{S}/\text{cm}$

| Sample Point ID | Central 1                        |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 ( $\mu\text{S}/\text{cm}$ ) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20                           | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HYC0012P        | 1,014                            | 1,036  | 1,114  | 997    | 942    | 946    | 934    | 1,120  | 1,061  | 1,034  | 762    | 744    |
| HYC0015P        | 914                              | 1,003  | 996    | 964    | 845    | 910    | 1,300  | 1,023  | 1,005  | 1,200  | 778    | 747    |
| HYC0096P        | 734                              | 708    | 765    | 817    | 843    | 915    | 614    | 707    | 1,005  | 711    | 782    | 603    |

Note: A blank cell indicates that no reading was taken. EC values are in  $\mu\text{S}/\text{cm}$

| Sample Point ID | Central 5                        |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 ( $\mu\text{S}/\text{cm}$ ) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20                           | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HNPIYC0034P     |                                  |        |        |        |        |        |        | 980    | 1,000  | 1,000  | 990    | 950    |
| HYC0019P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYC0020P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYC0031P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYC0068P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYC0069P        | 665                              | 670    | 714    | 660    | 662    | 644    | 638    | 687    | 688    | 717    | 690    | 562    |
| HYC0089P        | 766                              | 782    | 855    | 854    | 797    | 707    | 732    | 807    | 745    | 769    | 688    | 666    |
| HYC0090P        |                                  |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken. EC values are in  $\mu\text{S}/\text{cm}$

**Table 10.5: Field EC from Production Bores and Sumps (cont'd)**

| Sample Point ID | Eastern 1 & 2                    |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 ( $\mu\text{S}/\text{cm}$ ) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20                           | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HYE0023P        | 777                              | 802    | 878    |        |        |        | 739    | 884    | 867    | 839    | 684    | 655    |
| HYE0041P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYE0051P        | 860                              | 779    | 840    |        |        |        | 851    | 768    | 812    | 808    | 674    | 640    |
| HYE0060P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYE0061P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYE0193P        |                                  |        |        |        |        |        |        |        |        |        |        | 683    |
| HYE0194P        |                                  |        |        |        |        |        |        |        |        |        |        | 594    |
| SYAN0001        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0037        |                                  |        |        |        |        |        |        |        |        |        |        | 850    |
| SYAN0044        |                                  |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken. EC values are in  $\mu\text{S}/\text{cm}$

| Sample Point ID | Eastern 4                        |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY21 ( $\mu\text{S}/\text{cm}$ ) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-20                           | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
| HYE1518P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYE1519P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYE1523P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0050        |                                  |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken. EC values are in  $\mu\text{S}/\text{cm}$

**Table 10.5: Field EC from Production Bores and Sumps (cont'd)**

| Sample Point ID | Eastern 3,5,6<br>FY21 ( $\mu\text{S}/\text{cm}$ ) |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | Jul-20  | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
|                 | HYE0014P  |        |        |        |        |        |        |        |        |        |        |        |
| HYE0026P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0027P        | 638   |        | 683    | 647    | 675    | 800    | 617    | 609    | 638    | 591    | 553    | 524    |
| HYE0028P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0031P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0042P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0043P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0044P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0045P        | 710   | 868    | 768    | 758    | 694    | 825    | 708    | 700    | 740    | 729    | 536    | 560    |
| HYE0055P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0132P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0152P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0156P        | 554   | 564    | 577    | 562    | 531    | 780    | 523    | 516    | 493    | 522    | 494    | 476    |
| HYE0157P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0171P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0172P        | 704   | 728    | 794    | 710    | 702    | 721    | 709    | 767    | 781    | 777    | 655    | 593    |
| SYAN0002        |   |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0003        |   |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0016        |   |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0039        |   |        |        |        |        |        |        |        |        |        |        | 535    |

Note: A blank cell indicates that no reading was taken. EC values are in  $\mu\text{S}/\text{cm}$

| Sample Point ID | Eastern 7<br>FY21 ( $\mu\text{S}/\text{cm}$ ) |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | Jul-20  | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 |
|                 | SYAN0046                                      |        |        |        |        |        |        |        |        |        |        |        |
| HYE0130P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0160P        | 640   | 645    | 731    |        |        |        |        |        |        |        |        |        |
| HYE0180P        | 784   | 770    | 854    | 806    | 748    | 635    | 738    | 759    | 799    | 771    | 670    | 555    |
| HYE0181P        |   |        |        | 755    | 762    | 640    | 776    | 722    | 755    | 721    | 630    | 566    |
| HYE0311P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0313P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0314P        |   |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken. EC values are in  $\mu\text{S}/\text{cm}$

**Table 10.5: Field EC from Production Bores and Sumps (cont'd)**

| Sample Point ID | Spinifex Camp |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY22 (µS/cm)  |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-21        | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
| HNPISP0001P     | 1,054         | 1,229  | 1,196  | 1,191  | 1,181  | 1,183  | 1,195  | 1,235  | 1,185  | 1,180  | 1,193  | 1,194  |
| HNPISP0002P     | 1,106         | 1,257  | 1,271  | 1,258  | 1,257  | 1,260  | 1,272  | 1,312  | 1,260  | 1,233  | 1,283  | 1,276  |

Note: A blank cell indicates that no reading was taken. EC values are in uS/cm

| Sample Point ID | Western 1    |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY22 (µS/cm) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-21       | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
| HNPIYN1704P     |              |        |        |        |        |        |        |        |        |        |        |        |
| HNPIYN1707P     |              |        |        |        |        |        |        |        |        |        |        |        |
| HYW0008P        |              |        |        |        |        |        |        |        |        |        |        |        |
| HYW0010P        |              |        |        |        |        |        |        |        |        |        |        |        |
| HYW0011P        |              |        |        |        |        |        |        |        |        |        |        |        |
| HYW0021P        | 763          | 719    | 753    | 736    | 730    | 769    | 723    | 677    | 572    |        |        | 1,330  |
| HYW0024P        |              |        |        |        |        |        |        |        |        |        |        | 1,060  |
| HYW0180P        | 710          | 652    | 755    | 780    | 699    | 750    | 667    | 626    | 509    | 787    | 912    | 1,270  |
| HYW0212P        |              |        |        |        |        |        |        |        |        |        |        |        |
| HYW0213P        |              | 709    | 754    | 770    | 681    | 714    | 731    | 668    | 574    | 784    | 1,303  | 1,322  |
| HYW0215P        |              |        |        |        |        |        |        |        |        |        |        |        |
| HYW0226P        | 779          | 665    | 776    | 770    | 697    | 710    | 620    | 599    | 567    | 735    | 1,007  | 1,300  |
| HYW0228P        |              |        |        |        |        |        |        |        |        |        |        |        |
| HYW0229P        | 799          | 551    | 698    | 767    | 704    | 698    | 628    | 654    | 598    | 791    | 927    | 1,286  |
| HYW0230P        | 826          | 761    | 823    | 742    | 740    | 772    | 700    | 726    | 613    | 936    | 994    | 1,611  |
| HYW0246P        |              |        |        |        |        |        |        |        |        |        |        |        |
| HYW0247P        |              |        |        |        |        |        |        |        |        |        |        |        |
| HYW0322P        |              |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0015        |              |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0043        |              |        |        |        |        |        | 670    |        | 432    |        |        | 1,121  |

Note: A blank cell indicates that no reading was taken. EC values are in uS/cm

| Sample Point ID | Western 2    |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY22 (µS/cm) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-21       | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
| HYW0237P        | 686          | 711    | 729    | 719    | 702    | 711    | 702    | 687    | 566    | 556    | 1,010  | 1,338  |
| HYW0238P        | 732          | 711    | 726    | 738    | 699    | 697    | 696    | 657    | 535    | 810    | 979    | 1,283  |
| HYW0348P        |              |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken. EC values are in uS/cm

**Table 10.5: Field EC from Production Bores and Sumps (cont'd)**

| Sample Point ID | Western 3                        |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY22 ( $\mu\text{S}/\text{cm}$ ) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-21                           | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
| HYW1015P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW1016P        |                                  |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken. EC values are in  $\mu\text{S}/\text{cm}$

| Sample Point ID | Western 4                        |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY22 ( $\mu\text{S}/\text{cm}$ ) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-21                           | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
| HYW0030P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0035P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0042P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0049P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0051P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0064P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0072P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0165P        | 816                              | 774    | 696    | 820    | 721    | 564    | 796    | 769    | 578    | 850    | 876    | 1,539  |
| HYW0181P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0182P        | 742                              | 711    | 640    | 732    | 689    | 655    | 711    | 691    | 502    | 773    | 934    | 1,235  |
| HYW0340P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0035        |                                  | 784    |        |        |        |        |        |        |        |        |        |        |
| SYAN0036        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0042        |                                  | 572    |        |        | 729    |        |        | 457    | 484    |        |        |        |

Note: A blank cell indicates that no reading was taken. EC values are in  $\mu\text{S}/\text{cm}$

| Sample Point ID | Western 5                        |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY22 ( $\mu\text{S}/\text{cm}$ ) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-21                           | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
| HYW0131P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0132P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0133P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0134P        | 704                              | 679    | 608    | 693    | 660    | 651    | 660    | 675    | 504    | 718    | 914    | 1,155  |
| HYW0240P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYW0241P        | 685                              | 605    | 691    | 598    | 587    | 555    | 610    | 615    | 478    | 643    | 938    | 976    |

Note: A blank cell indicates that no reading was taken. EC values are in  $\mu\text{S}/\text{cm}$

**Table 10.5: Field EC from Production Bores and Sumps (cont'd)**

| Sample Point ID | Western 6    |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY22 (µS/cm) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-21       | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
| HYW0175P        | 855          | 774    | 772    | 765    | 698    | 750    | 776    | 762    | 472    |        |        |        |
| HYW0176P        | 897          | 834    | 683    | 831    | 701    | 796    | 789    | 800    | 623    | 884    | 1,165  | 1,559  |
| HYW0355P        |              |        |        |        |        |        |        |        |        |        |        |        |
| HYW1021P        |              |        |        |        |        |        |        |        |        | 910    | 1,389  | 1,415  |
| HYW1024P        |              |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0040        |              | 748    |        |        | 699    |        |        | 744    | 557    | 905    |        |        |
| SYAN0041        |              | 791    |        | 710    | 700    | 770    |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken. EC values are in µS/cm

| Sample Point ID | Central 1    |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY22 (µS/cm) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-21       | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
| HYC0012P        | 806          | 701    | 722    | 699    | 587    | 732    | 711    | 639    | 445    | 766    | 1,316  | 1,358  |
| HYC0015P        | 1,200        | 717    | 700    | 670    | 700    | 682    |        | 620    | 444    | 703    | 977    | 1,217  |
| HYC0096P        | 589          | 573    | 712    | 537    | 565    | 711    | 551    | 520    | 419    | 575    | 893    | 932    |

Note: A blank cell indicates that no reading was taken. EC values are in µS/cm

| Sample Point ID | Central 5    |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY22 (µS/cm) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-21       | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
| HNPIYC0034P     | 990          |        |        |        |        |        |        |        |        |        |        |        |
| HYC0019P        |              |        |        |        |        |        |        |        |        |        |        |        |
| HYC0020P        |              |        |        |        |        |        |        |        |        |        |        |        |
| HYC0031P        |              |        |        |        |        |        |        |        |        |        |        |        |
| HYC0068P        |              |        |        |        |        |        |        |        |        |        |        |        |
| HYC0069P        | 576          | 560    | 523    | 537    | 552    | 536    | 565    | 471    | 418    | 544    | 840    | 845    |
| HYC0089P        | 604          | 585    | 544    | 614    | 684    | 609    | 656    | 512    | 443    | 604    | 991    | 1,017  |
| HYC0090P        |              |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken. EC values are in µS/cm

**Table 10.5: Field EC from Production Bores and Sumps (cont'd)**

| Sample Point ID | Eastern 1 & 2                    |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY22 ( $\mu\text{S}/\text{cm}$ ) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-21                           | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
| HYE0023P        | 667                              | 647    | 538    | 643    | 512    | 617    | 618    | 512    | 472    | 579    | 1,016  | 1,036  |
| HYE0041P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYE0051P        | 650                              | 635    | 598    | 614    | 586    | 604    | 603    | 508    | 449    | 584    | 943    | 948    |
| HYE0060P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYE0061P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYE0193P        | 677                              | 651    | 633    | 651    | 589    | 572    | 621    | 530    | 454    | 628    | 944    | 1,025  |
| HYE0194P        | 664                              | 629    | 598    | 640    | 590    | 612    | 614    | 511    | 429    | 584    | 927    | 984    |
| SYAN0001        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0037        | 614                              |        |        |        |        |        |        |        | 448    |        |        |        |
| SYAN0044        |                                  |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken. EC values are in  $\mu\text{S}/\text{cm}$

| Sample Point ID | Eastern 4                        |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | FY22 ( $\mu\text{S}/\text{cm}$ ) |        |        |        |        |        |        |        |        |        |        |        |
|                 | Jul-21                           | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
| HYE1518P        |                                  |        |        |        |        |        |        |        |        | 499    | 1,218  |        |
| HYE1519P        |                                  |        |        |        |        |        |        |        |        |        |        |        |
| HYE1523P        |                                  |        |        |        |        |        |        |        |        | 725    | 1,106  | 1,150  |
| SYAN0050        |                                  |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken. EC values are in  $\mu\text{S}/\text{cm}$

**Table 10.5: Field EC from Production Bores and Sumps (cont'd)**

| Sample Point ID | Eastern 3,5,6<br>FY22 ( $\mu\text{S}/\text{cm}$ ) |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | Jul-21  | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
|                 | HYE0014P  |        |        |        |        |        |        |        |        |        |        |        |
| HYE0026P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0027P        |   | 516    | 544    | 494    | 556    | 542    | 504    | 437    | 381    | 509    | 711    | 735    |
| HYE0028P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0031P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0042P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0043P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0044P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0045P        | 601   | 523    | 519    | 597    | 596    | 539    | 563    | 443    | 384    | 563    | 767    | 859    |
| HYE0055P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0132P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0152P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0156P        | 497   | 470    | 598    | 490    | 638    | 454    | 466    | 414    | 363    | 445    | 879    | 648    |
| HYE0157P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0171P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0172P        | 625   | 590    | 538    | 450    | 621    | 567    | 578    | 508    | 435    | 565    | 810    | 946    |
| SYAN0002        |   |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0003        |   |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0016        |   |        |        |        |        |        |        |        |        |        |        |        |
| SYAN0039        |   |        |        |        | 543    |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken. EC values are in  $\mu\text{S}/\text{cm}$

| Sample Point ID | Eastern 7<br>FY22 ( $\mu\text{S}/\text{cm}$ ) |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | Jul-21  | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 |
|                 | SYAN0046                                      |        |        |        |        |        |        |        |        |        |        |        |
| HYE0130P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0160P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0180P        | 619   | 623    | 560    | 640    | 562    | 516    | 524    | 505    | 454    | 570    | 901    | 942    |
| HYE0181P        | 603   | 597    | 577    | 601    | 540    | 507    | 521    | 476    | 443    | 540    | 861    | 882    |
| HYE0311P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0313P        |   |        |        |        |        |        |        |        |        |        |        |        |
| HYE0314P        |   |        |        |        |        |        |        |        |        |        |        |        |

Note: A blank cell indicates that no reading was taken. EC values are in  $\mu\text{S}/\text{cm}$

**Table 10.6: Laboratory Chemistry Results from Production Bores**

| Recording Type Name                        | Unit  | Trigger Values | Spinifex Camp |          |             |          |
|--|-------|----------------|---------------|----------|-------------|----------|
|  |       |                | HNPISP0001P   |          | HNPISP0002P |          |
|  |       |                | Dec - 19      | Jun - 20 | Dec - 19    | Jun - 20 |
| Aluminium                                  | mg/L  | 0.1            | <0.005        | <0.005   | <0.005      | <0.005   |
| Arsenic                                    | mg/L  | 0.013          | <0.001        | <0.001   | <0.001      | <0.001   |
| Barium                                     | mg/L  | 0.088          | 0.073         | 0.110    | 0.076       | 0.110    |
| Bicarbonate Alkalinity as HCO <sub>3</sub> | mg/L  |                | 530.000       | 520.000  | 530.000     | 530.000  |
| Boron                                      | mg/L  | 0.37           | 0.470         | 0.440    | 0.500       | 0.440    |
| Cadmium                                    | mg/L  | 0.001          | <0.0001       | <0.0001  | <0.0001     | <0.0001  |
| Calcium                                    | mg/L  |                | 65.000        | 70.000   | 67.000      | 69.000   |
| Chloride                                   | mg/L  |                | 110.000       | 120.000  | 130.000     | 110.000  |
| Chromium                                   | mg/L  | 0.001          | <0.001        | <0.001   | <0.001      | <0.001   |
| Copper                                     | mg/L  | 0.01           | <0.001        | <0.001   | <0.001      | <0.001   |
| Electrical Conductivity at 25°C            | µS/cm | 90-1000        | 1200.000      |          | 1200.000    |          |
| Fluoride                                   | mg/L  |                | 0.500         | 0.500    | 0.600       | 0.400    |
| Iron Tot.                                  | mg/L  |                | 0.010         | 0.006    | 0.005       | 0.012    |
| Lead                                       | mg/L  | 0.005          | <0.001        | <0.001   | <0.001      | <0.001   |
| Magnesium                                  | mg/L  |                | 59.000        | 66.000   | 61.000      | 63.000   |
| Manganese                                  | mg/L  | 1.9            | <0.001        | <0.001   | <0.001      | <0.001   |
| Mercury                                    | mg/L  | 0.0006         | <0.00005      | <0.00005 | <0.00005    | <0.00005 |
| Molybdenum                                 | mg/L  | 0.034          | <0.001        | <0.001   | <0.001      | <0.001   |
| Nickel                                     | mg/L  | 0.11           | <0.001        | <0.001   | <0.001      | <0.001   |
| Nitrate as NO <sub>3</sub>                 | mg/L  | 4.0            | 16.000        | 13.000   | 14.000      | 15.000   |
| Potassium                                  | mg/L  |                | 14.000        | 13.000   | 13.000      | 13.000   |
| Selenium                                   | mg/L  | 0.011          | 0.002         | 0.001    | 0.002       | 0.002    |
| Silica                                     | mg/L  |                | 69.000        | 63.000   | 68.000      | 63.000   |
| Sodium                                     | mg/L  |                | 87.000        | 88.000   | 93.000      | 81.000   |
| Sulphate as SO <sub>4</sub> 2-             | mg/L  |                | 58.000        | 68.000   | 65.000      | 59.000   |
| Suspended Solids (SS)                      | mg/L  |                | <5            | <5       | <5          | <5       |
| Total Alkalinity as CaCO <sub>3</sub>      | mg/L  |                | 430.000       | 420.000  | 440.000     | 430.000  |
| Total Dissolved Solids at 180°C            | mg/L  |                | 700.000       | 710.000  | 720.000     | 690.000  |
| Total Hardness as CaCO <sub>3</sub>        | mg/L  |                | 410.000       | 450.000  | 420.000     | 430.000  |
| Zinc                                       | mg/L  | 0.072          | <0.005        | <0.005   | <0.005      | <0.005   |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

**Table 10.6: Laboratory Chemistry Results from Production Bores (cont'd)**

| Recording Type Name                        | Unit  | Trigger Values | Western 1   |             |          |          |          |
|--|-------|----------------|-------------|-------------|----------|----------|----------|
|  |       |                | HNPIYN1704P | HNPIYN1707F | HYW0215P | HYW0229P |          |
| Aluminium                                  | mg/L  | 0.1            | <0.005      | <0.005      | <0.005   | <0.005   | <0.005   |
| Arsenic                                    | mg/L  | 0.013          | <0.001      | <0.001      | <0.001   | <0.001   | <0.001   |
| Barium                                     | mg/L  | 0.088          | 0.073       | 0.086       | 0.074    | 0.076    | 0.077    |
| Bicarbonate Alkalinity as HCO <sub>3</sub> | mg/L  |                | 520.000     | 510.000     | 550.000  | 500.000  | 500.000  |
| Boron                                      | mg/L  | 0.37           | 0.500       | 0.490       | 0.480    | 0.480    | 0.480    |
| Cadmium                                    | mg/L  | 0.001          | <0.0001     | <0.0001     | <0.0001  | <0.0001  | <0.0001  |
| Calcium                                    | mg/L  |                | 66.000      | 65.000      | 67.000   | 64.000   | 65.000   |
| Chloride                                   | mg/L  |                | 120.000     | 110.000     | 110.000  | 130.000  | 130.000  |
| Chromium                                   | mg/L  | 0.001          | <0.001      | <0.001      | <0.001   | <0.001   | <0.001   |
| Copper                                     | mg/L  | 0.01           | <0.001      | <0.001      | <0.001   | <0.001   | <0.001   |
| Electrical Conductivity at 25°C            | µS/cm | 90-1000        | 1200.000    | 1200.000    | 1200.000 | 1200.000 | 1200.000 |
| Fluoride                                   | mg/L  |                | 0.500       | 0.500       | 0.600    | 0.600    | 0.600    |
| Iron Sol.                                  | mg/L  | 0.3            |             | <0.005      |          | <0.005   | <0.005   |
| Iron Tot.                                  | mg/L  |                | 0.009       |             | 0.022    |          |          |
| Lead                                       | mg/L  | 0.005          | <0.001      | <0.001      | <0.001   | <0.001   | <0.001   |
| Magnesium                                  | mg/L  |                | 60.000      | 60.000      | 60.000   | 62.000   | 63.000   |
| Manganese                                  | mg/L  | 1.9            | <0.001      | <0.001      | <0.001   | <0.001   | <0.001   |
| Mercury                                    | mg/L  | 0.0006         | <0.00005    | <0.00005    | <0.00005 | <0.00005 | <0.00005 |
| Molybdenum                                 | mg/L  | 0.034          | <0.001      | <0.001      | <0.001   | <0.001   | <0.001   |
| Nickel                                     | mg/L  | 0.11           | <0.001      | <0.001      | <0.001   | <0.001   | <0.001   |
| Nitrate as NO <sub>3</sub>                 | mg/L  | 4.0            | 15.000      | 14.000      | 16.000   | 13.000   | 12.000   |
| pH   | pH    | 6.5-8.0        |             | 7.900       |          | 8.200    | 8.200    |
| Potassium                                  | mg/L  |                | 13.000      | 13.000      | 14.000   | 13.000   | 13.000   |
| Reactive Silica as SiO <sub>2</sub>        | mg/L  |                |             | 73.000      |          | 68.000   | 68.000   |
| Selenium                                   | mg/L  | 0.011          | 0.002       | 0.001       | 0.002    | 0.002    | 0.002    |
| Silica                                     | mg/L  |                | 68.000      | 61.000      | 68.000   | 69.000   | 70.000   |
| Sodium                                     | mg/L  |                | 89.000      | 83.000      | 87.000   | 85.000   | 87.000   |
| Sulphate as SO <sub>4</sub> 2-             | mg/L  |                | 60.000      | 59.000      | 59.000   | 65.000   | 67.000   |
| Suspended Solids (SS)                      | mg/L  |                | <5          | <5          | <5       | <5       | <5       |
| Total Alkalinity as CaCO <sub>3</sub>      | mg/L  |                | 430.000     | 420.000     | 450.000  | 410.000  | 410.000  |
| Total Dissolved Solids at 180°C            | mg/L  |                | 710.000     | 720.000     | 700.000  | 720.000  | 710.000  |
| Total Hardness as CaCO <sub>3</sub>        | mg/L  |                | 410.000     | 410.000     | 410.000  | 410.000  | 420.000  |
| Zinc                                       | mg/L  | 0.072          | <0.005      | <0.005      | <0.005   | <0.005   | <0.005   |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

**Table 10.6: Laboratory Chemistry Results from Production Bores (cont'd)**

| Recording Type Name                        | Unit  | Trigger Values | Western 2 |          |
|--|-------|----------------|-----------|----------|
|  |       |                | HYW0237P  | HYW0238P |
| Aluminium                                  | mg/L  | 0.1            | <0.005    | <0.005   |
| Arsenic                                    | mg/L  | 0.013          | <0.001    | <0.001   |
| Barium                                     | mg/L  | 0.088          | 0.076     | 0.075    |
| Bicarbonate Alkalinity as HCO <sub>3</sub> | mg/L  |                | 480.000   | 480.000  |
| Boron                                      | mg/L  | 0.37           | 0.490     | 0.490    |
| Cadmium                                    | mg/L  | 0.001          | <0.0001   | <0.0001  |
| Calcium                                    | mg/L  |                | 66.000    | 66.000   |
| Chloride                                   | mg/L  |                | 140.000   | 130.000  |
| Chromium                                   | mg/L  | 0.001          | <0.001    | <0.001   |
| Copper                                     | mg/L  | 0.01           | <0.001    | <0.001   |
| Electrical Conductivity at 25°C            | µS/cm | 90-1000        | 1200.000  | 1200.000 |
| Fluoride                                   | mg/L  |                | 0.600     | 0.600    |
| Iron Sol.                                  | mg/L  | 0.3            | <0.005    | <0.005   |
| Lead                                       | mg/L  | 0.005          | <0.001    | <0.001   |
| Magnesium                                  | mg/L  |                | 60.000    | 60.000   |
| Manganese                                  | mg/L  | 1.9            | <0.001    | <0.001   |
| Mercury                                    | mg/L  | 0.0006         | <0.00005  | <0.00005 |
| Molybdenum                                 | mg/L  | 0.034          | <0.001    | <0.001   |
| Nickel                                     | mg/L  | 0.11           | <0.001    | <0.001   |
| Nitrate as NO <sub>3</sub>                 | mg/L  | 4.0            | 9.200     | 11.000   |
| pH   | pH    | 6.5-8.0        | 8.300     | 8.300    |
| Potassium                                  | mg/L  |                | 12.000    | 12.000   |
| Reactive Silica as SiO <sub>2</sub>        | mg/L  |                | 69.000    | 70.000   |
| Selenium                                   | mg/L  | 0.011          | 0.002     | 0.002    |
| Silica                                     | mg/L  |                | 59.000    | 59.000   |
| Sodium                                     | mg/L  |                | 88.000    | 85.000   |
| Sulphate as SO <sub>4</sub> 2-             | mg/L  |                | 67.000    | 66.000   |
| Suspended Solids (SS)                      | mg/L  |                | <5        | <5       |
| Total Alkalinity as CaCO <sub>3</sub>      | mg/L  |                | 390.000   | 390.000  |
| Total Dissolved Solids at 180°C            | mg/L  |                | 750.000   | 730.000  |
| Total Hardness as CaCO <sub>3</sub>        | mg/L  |                | 410.000   | 410.000  |
| Zinc                                       | mg/L  | 0.072          | <0.005    | <0.005   |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

**Table 10.6: Laboratory Chemistry Results from Production Bores (cont'd)**

| Recording Type Name                        | Unit  | Trigger Values | Western 4 |          |          |
|--|-------|----------------|-----------|----------|----------|
|  |       |                | HYW0042P  | HYW0051P | HYW0165P |
| Aluminium                                  | mg/L  | 0.1            | <0.005    | <0.005   | <0.005   |
| Arsenic                                    | mg/L  | 0.013          | <0.001    | <0.001   | <0.001   |
| Barium                                     | mg/L  | 0.088          | 0.062     | 0.044    | 0.067    |
| Bicarbonate Alkalinity as HCO <sub>3</sub> | mg/L  |                | 330.000   | 300.000  | 350.000  |
| Boron                                      | mg/L  | 0.37           | 0.460     | 0.340    | 0.460    |
| Cadmium                                    | mg/L  | 0.001          | <0.0001   | <0.0001  | <0.0001  |
| Calcium                                    | mg/L  |                | 66.000    | 43.000   | 69.000   |
| Chloride                                   | mg/L  |                | 260.000   | 94.000   | 240.000  |
| Chromium                                   | mg/L  | 0.001          | <0.001    | <0.001   | <0.001   |
| Copper                                     | mg/L  | 0.01           | <0.001    | <0.001   | <0.001   |
| Electrical Conductivity at 25°C            | µS/cm | 90-1000        | 1400.000  | 820.000  | 1400.000 |
| Fluoride                                   | mg/L  |                | 0.500     | 0.500    | 0.400    |
| Iron Sol.                                  | mg/L  | 0.3            | <0.005    | <0.005   | <0.005   |
| Lead                                       | mg/L  | 0.005          | <0.001    | <0.001   | <0.001   |
| Magnesium                                  | mg/L  |                | 67.000    | 42.000   | 66.000   |
| Manganese                                  | mg/L  | 1.9            | <0.001    | <0.001   | <0.001   |
| Mercury                                    | mg/L  | 0.0006         | <0.00005  | <0.00005 | <0.00005 |
| Molybdenum                                 | mg/L  | 0.034          | <0.001    | <0.001   | <0.001   |
| Nickel                                     | mg/L  | 0.11           | <0.001    | <0.001   | <0.001   |
| Nitrate as NO <sub>3</sub>                 | mg/L  | 4.0            | 30.000    | 5.000    | 27.000   |
| pH   | pH    | 6.5-8.0        | 8.100     | 8.100    | 8.200    |
| Potassium                                  | mg/L  |                | 8.500     | 8.300    | 9.900    |
| Reactive Silica as SiO <sub>2</sub>        | mg/L  |                | 55.000    | 58.000   | 59.000   |
| Selenium                                   | mg/L  | 0.011          | 0.002     | 0.001    | 0.002    |
| Silica                                     | mg/L  |                | 57.000    | 57.000   | 61.000   |
| Sodium                                     | mg/L  |                | 110.000   | 68.000   | 100.000  |
| Sulphate as SO <sub>4</sub> 2-             | mg/L  |                | 98.000    | 46.000   | 88.000   |
| Suspended Solids (SS)                      | mg/L  |                | <5        | <5       | <5       |
| Total Alkalinity as CaCO <sub>3</sub>      | mg/L  |                | 270.000   | 250.000  | 290.000  |
| Total Dissolved Solids at 180°C            | mg/L  |                | 860.000   | 480.000  | 840.000  |
| Total Hardness as CaCO <sub>3</sub>        | mg/L  |                | 440.000   | 280.000  | 440.000  |
| Zinc                                       | mg/L  | 0.072          | <0.005    | <0.005   | <0.005   |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

**Table 10.6: Laboratory Chemistry Results from Production Bores (cont'd)**

| Recording Type Name             | Unit  | Trigger Values | Western 5 |          |          |          |          |          |
|---------------------------------|-------|----------------|-----------|----------|----------|----------|----------|----------|
|                                 |       |                | HYW0132P  |          | HYW0133P |          | HYW0134P |          |
|                                 |       |                | Apr - 20  | May - 20 | Sep - 19 | Sep - 19 | Apr - 20 | May - 20 |
| Aluminium                       | mg/L  | 0.1            | <0.005    | 0.009    | <0.005   | <0.005   | <0.005   | <0.005   |
| Arsenic                         | mg/L  | 0.013          | <0.001    | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Barium                          | mg/L  | 0.088          | 0.060     | 0.057    | 0.053    | 0.051    | 0.053    | 0.060    |
| Bicarbonate Alkalinity as HCO3  | mg/L  |                | 380.000   | 390.000  | 390.000  | 410.000  | 400.000  | 410.000  |
| Boron                           | mg/L  | 0.37           | 0.380     | 0.460    | 0.390    | 0.370    | 0.360    | 0.450    |
| Cadmium                         | mg/L  | 0.001          | <0.0001   | <0.0001  | <0.0001  | <0.0001  | <0.0001  | <0.0001  |
| Calcium                         | mg/L  |                | 56.000    | 59.000   | 56.000   | 56.000   | 58.000   | 58.000   |
| Chloride                        | mg/L  |                | 140.000   | 140.000  | 150.000  | 140.000  | 130.000  | 130.000  |
| Chromium                        | mg/L  | 0.001          | <0.001    | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Copper                          | mg/L  | 0.01           | <0.001    | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Electrical Conductivity at 25°C | µS/cm | 90-1000        | 1100.000  | 1100.000 | 1100.000 | 1100.000 | 1100.000 | 1100.000 |
| Fluoride                        | mg/L  |                | 0.500     | 0.500    | 0.500    | 0.500    | 0.500    | 0.500    |
| Iron Sol.                       | mg/L  | 0.3            | 0.008     | 0.012    | 0.009    | <0.005   | <0.005   | 0.012    |
| Lead                            | mg/L  | 0.005          | <0.001    | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Magnesium                       | mg/L  |                | 54.000    | 52.000   | 53.000   | 55.000   | 56.000   | 53.000   |
| Manganese                       | mg/L  | 1.9            | <0.001    | <0.001   | <0.001   | <0.001   | <0.001   | 0.004    |
| Mercury                         | mg/L  | 0.0006         | <0.00005  | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Molybdenum                      | mg/L  | 0.034          | <0.001    | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Nickel                          | mg/L  | 0.11           | 0.001     | 0.001    | 0.002    | <0.001   | <0.001   | <0.001   |
| Nitrate as NO3                  | mg/L  | 4.0            | 5.700     | 5.500    | 6.600    | 10.000   | 9.600    | 9.600    |
| pH                              | pH    | 6.5-8.0        | 8.300     | 8.100    | 8.200    | 8.200    | 8.300    | 8.100    |
| Potassium                       | mg/L  |                | 9.600     | 9.400    | 9.200    | 8.700    | 8.700    | 8.400    |
| Reactive Silica as SiO2         | mg/L  |                | 58.000    | 61.000   | 59.000   | 59.000   | 60.000   | 60.000   |
| Selenium                        | mg/L  | 0.011          | 0.001     | 0.002    | 0.002    | 0.002    | 0.002    | 0.003    |
| Silica                          | mg/L  |                | 54.000    | 52.000   | 60.000   | 59.000   | 55.000   | 51.000   |
| Sodium                          | mg/L  |                | 87.000    | 91.000   | 84.000   | 85.000   | 89.000   | 91.000   |
| Sulphate as SO4 2-              | mg/L  |                | 61.000    | 59.000   | 64.000   | 61.000   | 60.000   | 59.000   |
| Suspended Solids (SS)           | mg/L  |                | <5        | <5       | <5       | <5       | <5       | <5       |
| Total Alkalinity as CaCO3       | mg/L  |                | 310.000   | 320.000  | 320.000  | 330.000  | 330.000  | 340.000  |
| Total Dissolved Solids at 180°C | mg/L  |                | 630.000   | 640.000  | 640.000  | 630.000  | 620.000  | 630.000  |
| Total Hardness as CaCO3         | mg/L  |                | 360.000   | 360.000  | 360.000  | 360.000  | 370.000  | 360.000  |
| Zinc                            | mg/L  | 0.072          | <0.005    | <0.005   | <0.005   | <0.005   | <0.005   | <0.005   |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

**Table 10.6: Laboratory Chemistry Results from Production Bores (cont'd)**

| Recording Type Name                        | Unit  | Trigger Values | Western 6 |          |          |          |
|--|-------|----------------|-----------|----------|----------|----------|
|  |       |                | HYW0175P  | HYW0176P | HYW0355P | Nov - 19 |
| Aluminium                                  | mg/L  | 0.1            | <0.005    | <0.005   | <0.005   | 0.005    |
| Arsenic                                    | mg/L  | 0.013          | <0.001    | <0.001   | <0.001   | <0.001   |
| Barium                                     | mg/L  | 0.088          | 0.049     | 0.013    | 0.051    | 0.037    |
| Bicarbonate Alkalinity as HCO <sub>3</sub> | mg/L  |                | 510.000   | 530.000  | 380.000  | 370.000  |
| Boron                                      | mg/L  | 0.37           | 0.490     | 0.790    | 0.340    | 0.350    |
| Cadmium                                    | mg/L  | 0.001          | <0.0001   | <0.0001  | <0.0001  | <0.0001  |
| Calcium                                    | mg/L  |                | 58.000    | 47.000   | 53.000   | 51.000   |
| Chloride                                   | mg/L  |                | 150.000   | 190.000  | 150.000  | 130.000  |
| Chromium                                   | mg/L  | 0.001          | <0.001    | <0.001   | <0.001   | <0.001   |
| Copper                                     | mg/L  | 0.01           | <0.001    | <0.001   | <0.001   | <0.001   |
| Electrical Conductivity at 25°C            | µS/cm | 90-1000        | 1300.000  | 1400.000 | 1200.000 | 1000.000 |
| Fluoride                                   | mg/L  |                | 0.500     | 0.600    | 0.500    | 0.600    |
| Iron Sol.                                  | mg/L  | 0.3            | <0.005    | <0.005   | <0.005   | 0.150    |
| Lead                                       | mg/L  | 0.005          | <0.001    | <0.001   | <0.001   | <0.001   |
| Magnesium                                  | mg/L  |                | 57.000    | 63.000   | 51.000   | 46.000   |
| Manganese                                  | mg/L  | 1.9            | <0.001    | <0.001   | <0.001   | 0.029    |
| Mercury                                    | mg/L  | 0.0006         | <0.00005  | <0.00005 | <0.00005 | <0.00005 |
| Molybdenum                                 | mg/L  | 0.034          | <0.001    | <0.001   | <0.001   | 0.004    |
| Nickel                                     | mg/L  | 0.11           | 0.004     | 0.001    | <0.001   | <0.001   |
| Nitrate as NO <sub>3</sub>                 | mg/L  | 4.0            | 10.000    | 8.900    | 8.400    | 4.100    |
| pH   | pH    | 6.5-8.0        | 8.300     | 8.300    | 8.000    | 8.200    |
| Potassium                                  | mg/L  |                | 7.300     | 3.500    | 7.600    | 8.000    |
| Reactive Silica as SiO <sub>2</sub>        | mg/L  |                | 55.000    | 58.000   | 57.000   |          |
| Selenium                                   | mg/L  | 0.011          | 0.002     | 0.002    | 0.002    | <0.001   |
| Silica                                     | mg/L  |                | 50.000    | 60.000   | 49.000   | 56.000   |
| Sodium                                     | mg/L  |                | 140.000   | 150.000  | 93.000   | 83.000   |
| Sulphate as SO <sub>4</sub> 2-             | mg/L  |                | 56.000    | 63.000   | 60.000   | 63.000   |
| Suspended Solids (SS)                      | mg/L  |                | <5        | <5       | <5       | 390.000  |
| Total Alkalinity as CaCO <sub>3</sub>      | mg/L  |                | 420.000   | 430.000  | 310.000  | 300.000  |
| Total Dissolved Solids at 180°C            | mg/L  |                | 720.000   | 790.000  | 640.000  | 600.000  |
| Total Hardness as CaCO <sub>3</sub>        | mg/L  |                | 380.000   | 380.000  | 340.000  | 320.000  |
| Zinc                                       | mg/L  | 0.072          | 0.006     | <0.005   | 0.008    | <0.005   |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

**Table 10.6: Laboratory Chemistry Results from Production Bores (cont'd)**

| Recording Type Name             | Unit  | Trigger Values | Central 1 |          |          |          |          |          |
|---------------------------------|-------|----------------|-----------|----------|----------|----------|----------|----------|
|                                 |       |                | HYC0012P  |          |          | HYC0015P |          |          |
|                                 |       |                | Sep - 19  | Apr - 20 | May - 20 | Mar - 20 | Apr - 20 | May - 20 |
| Aluminium                       | mg/L  | 0.1            | <0.005    | <0.005   | <0.005   | <0.005   | <0.005   | <0.005   |
| Arsenic                         | mg/L  | 0.013          | <0.001    | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Barium                          | mg/L  | 0.088          | 0.020     | 0.021    | 0.020    | 0.048    | 0.052    | 0.049    |
| Bicarbonate Alkalinity as HCO3  | mg/L  |                | 410.000   | 430.000  | 420.000  | 380.000  | 370.000  | 370.000  |
| Boron                           | mg/L  | 0.37           | 0.570     | 0.620    | 0.600    | 0.400    | 0.370    | 0.450    |
| Cadmium                         | mg/L  | 0.001          | <0.0001   | <0.0001  | <0.0001  | <0.0001  | <0.0001  | <0.0001  |
| Calcium                         | mg/L  |                | 58.000    | 61.000   | 63.000   | 57.000   | 58.000   | 61.000   |
| Chloride                        | mg/L  |                | 190.000   | 170.000  | 180.000  | 160.000  | 160.000  | 160.000  |
| Chromium                        | mg/L  | 0.001          | <0.001    | <0.001   | <0.001   |          | <0.001   | <0.001   |
| Copper                          | mg/L  | 0.01           | <0.001    | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Electrical Conductivity at 25°C | µS/cm | 90-1000        | 1300.000  | 1300.000 | 1300.000 |          | 1200.000 | 1200.000 |
| Fluoride                        | mg/L  |                | 0.500     | 0.600    | 0.600    | 0.500    | 0.500    | 0.500    |
| Iron Sol.                       | mg/L  | 0.3            | <0.005    | <0.005   | <0.005   |          | <0.005   | <0.005   |
| Iron Tot.                       | mg/L  |                |           |          |          | <0.005   |          |          |
| Lead                            | mg/L  | 0.005          | <0.001    | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Magnesium                       | mg/L  |                | 71.000    | 74.000   | 72.000   | 57.000   | 58.000   | 57.000   |
| Manganese                       | mg/L  | 1.9            | 0.001     | 0.002    | 0.002    | <0.001   | <0.001   | <0.001   |
| Mercury                         | mg/L  | 0.0006         | <0.00005  | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Molybdenum                      | mg/L  | 0.034          | <0.001    | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Nickel                          | mg/L  | 0.11           | <0.001    | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Nitrate as NO3                  | mg/L  | 4.0            | 17.000    | 15.000   | 15.000   | 16.000   | 16.000   | 16.000   |
| pH                              | pH    | 6.5-8.0        | 8.000     | 8.200    | 8.100    |          | 8.200    | 8.200    |
| Potassium                       | mg/L  |                | 6.600     | 6.700    | 6.600    | 7.900    | 7.700    | 7.600    |
| Reactive Silica as SiO2         | mg/L  |                | 54.000    | 55.000   | 55.000   |          | 58.000   | 58.000   |
| Selenium                        | mg/L  | 0.011          | 0.002     | 0.003    | 0.002    | 0.002    | 0.002    | <0.001   |
| Silica                          | mg/L  |                | 55.000    | 49.000   | 48.000   | 58.000   | 51.000   | 50.000   |
| Sodium                          | mg/L  |                | 96.000    | 100.000  | 110.000  | 91.000   | 95.000   | 100.000  |
| Sulphate as SO4 2-              | mg/L  |                | 90.000    | 88.000   | 86.000   | 81.000   | 80.000   | 78.000   |
| Suspended Solids (SS)           | mg/L  |                | <5        | <5       | <5       | <5       | <5       | <5       |
| Total Alkalinity as CaCO3       | mg/L  |                | 340.000   | 350.000  | 340.000  | 310.000  | 310.000  | 220.000  |
| Total Dissolved Solids at 180°C | mg/L  |                | 760.000   | 740.000  | 760.000  | 690.000  | 690.000  | 480.000  |
| Total Hardness as CaCO3         | mg/L  |                | 440.000   | 460.000  | 450.000  | 380.000  | 380.000  | 390.000  |
| Zinc                            | mg/L  | 0.072          | <0.005    | <0.005   | <0.005   | <0.005   | <0.005   | 0.012    |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

**Table 10.6: Laboratory Chemistry Results from Production Bores (cont'd)**

| Recording Type Name             | Unit  | Trigger Values | Central 5    |          |          |          |          |          |
|---------------------------------|-------|----------------|--------------|----------|----------|----------|----------|----------|
|                                 |       |                | -INPIYC0034F | HYC0031P |          |          | HYC0068P |          |
|                                 |       |                | Mar - 20     | Sep - 19 | Apr - 20 | May - 20 | Sep - 19 | Apr - 20 |
| Aluminium                       | mg/L  | 0.1            | <0.005       | <0.005   | <0.005   | <0.005   | <0.005   | <0.005   |
| Arsenic                         | mg/L  | 0.013          | <0.001       | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Barium                          | mg/L  | 0.088          | 0.024        | 0.031    | 0.037    | 0.034    | 0.027    | 0.027    |
| Bicarbonate Alkalinity as HCO3  | mg/L  |                | 350.000      | 290.000  | 290.000  | 290.000  | 350.000  | 340.000  |
| Boron                           | mg/L  | 0.37           | 0.340        | 0.290    | 0.280    | 0.360    | 0.330    | 0.310    |
| Cadmium                         | mg/L  | 0.001          | <0.0001      | <0.0001  | <0.0001  | <0.0001  | <0.0001  | <0.0001  |
| Calcium                         | mg/L  |                | 43.000       | 39.000   | 41.000   | 43.000   | 44.000   | 43.000   |
| Chloride                        | mg/L  |                | 110.000      | 110.000  | 110.000  | 110.000  | 110.000  | 100.000  |
| Chromium                        | mg/L  | 0.001          |              | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Copper                          | mg/L  | 0.01           | <0.001       | <0.001   | <0.001   | 0.001    | <0.001   | <0.001   |
| Electrical Conductivity at 25°C | µS/cm | 90-1000        |              | 870.000  | 890.000  | 860.000  | 950.000  | 930.000  |
| Fluoride                        | mg/L  |                | 0.700        | 0.500    | 0.500    | 0.500    | 0.700    | 0.700    |
| Iron Sol.                       | mg/L  | 0.3            |              | <0.005   | <0.005   | <0.005   | <0.005   | <0.005   |
| Iron Tot.                       | mg/L  |                | 0.020        |          |          |          |          |          |
| Lead                            | mg/L  | 0.005          | <0.001       | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Magnesium                       | mg/L  |                | 47.000       | 42.000   | 43.000   | 42.000   | 47.000   | 50.000   |
| Manganese                       | mg/L  | 1.9            | <0.001       | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Mercury                         | mg/L  | 0.0006         | <0.00005     | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Molybdenum                      | mg/L  | 0.034          | <0.001       | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Nickel                          | mg/L  | 0.11           | <0.001       | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Nitrate as NO3                  | mg/L  | 4.0            | 15.000       | 8.400    | 11.000   | 10.000   | 13.000   | 14.000   |
| pH                              | pH    | 6.5-8.0        |              | 7.900    | 8.000    | 7.800    | 7.700    | 8.200    |
| Potassium                       | mg/L  |                | 7.000        | 6.200    | 6.400    | 6.200    | 6.000    | 6.100    |
| Reactive Silica as SiO2         | mg/L  |                |              | 55.000   | 57.000   | 57.000   | 55.000   | 57.000   |
| Selenium                        | mg/L  | 0.011          | <0.001       | <0.001   | <0.001   | <0.001   | 0.001    | <0.001   |
| Silica                          | mg/L  |                | 56.000       | 55.000   | 50.000   | 49.000   | 54.000   | 51.000   |
| Sodium                          | mg/L  |                | 73.000       | 63.000   | 68.000   | 72.000   | 69.000   | 74.000   |
| Sulphate as SO4 2-              | mg/L  |                | 53.000       | 58.000   | 56.000   | 55.000   | 57.000   | 56.000   |
| Suspended Solids (SS)           | mg/L  |                | <5           | <5       | <5       | <5       | <5       | <5       |
| Total Alkalinity as CaCO3       | mg/L  |                | 290.000      | 240.000  | 240.000  | 240.000  | 280.000  | 280.000  |
| Total Dissolved Solids at 180°C | mg/L  |                | 550.000      | 510.000  | 510.000  | 510.000  | 540.000  | 530.000  |
| Total Hardness as CaCO3         | mg/L  |                | 300.000      | 270.000  | 280.000  | 280.000  | 300.000  | 310.000  |
| Zinc                            | mg/L  | 0.072          | 0.007        | <0.005   | <0.005   | 0.008    | <0.005   | <0.005   |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

**Table 10.6: Laboratory Chemistry Results from Production Bores (cont'd)**

| Recording Type Name                        | Unit  | Trigger Values | Eastern 1 & 2 |          |          |          |          |          |          |          |
|--|-------|----------------|---------------|----------|----------|----------|----------|----------|----------|----------|
|  |       |                | HYE0023P      |          |          | HYE0051P |          |          | HYE0193P | HYE0194P |
|  |       |                | Sep - 19      | Apr - 20 | May - 20 | Sep - 19 | Apr - 20 | May - 20 | Oct - 19 | Oct - 19 |
| Aluminium                                  | mg/L  | 0.1            | <0.005        | <0.005   | <0.005   | <0.005   | <0.005   | <0.005   | <0.005   | <0.005   |
| Arsenic                                    | mg/L  | 0.013          | <0.001        | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Barium                                     | mg/L  | 0.088          | 0.034         | 0.035    | 0.034    | 0.036    | 0.038    | 0.035    | 0.040    | 0.040    |
| Bicarbonate Alkalinity as HCO <sub>3</sub> | mg/L  |                | 320.000       | 320.000  | 330.000  | 300.000  | 300.000  | 300.000  | 330.000  | 330.000  |
| Boron                                      | mg/L  | 0.37           | 0.340         | 0.330    | 0.410    | 0.350    | 0.330    | 0.410    | 0.320    | 0.280    |
| Cadmium                                    | mg/L  | 0.001          | <0.0001       | <0.0001  | <0.0001  | <0.0001  | <0.0001  | <0.0001  | <0.0001  | <0.0001  |
| Calcium                                    | mg/L  |                | 48.000        | 47.000   | 48.000   | 45.000   | 44.000   | 45.000   | 55.000   | 50.000   |
| Chloride                                   | mg/L  |                | 120.000       | 120.000  | 120.000  | 120.000  | 120.000  | 120.000  | 160.000  | 120.000  |
| Chromium                                   | mg/L  | 0.001          | <0.001        | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Copper                                     | mg/L  | 0.01           | <0.001        | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Electrical Conductivity at 25°C            | µS/cm | 90-1000        | 940.000       | 950.000  | 940.000  | 900.000  | 890.000  | 890.000  | 1100.000 | 970.000  |
| Fluoride                                   | mg/L  |                | 0.500         | 0.500    | 0.500    | 0.400    | 0.500    | 0.500    | 0.500    | 0.400    |
| Iron Sol.                                  | mg/L  | 0.3            | <0.005        | <0.005   | <0.005   | <0.005   | <0.005   | <0.005   | 0.012    | 0.015    |
| Lead                                       | mg/L  | 0.005          | <0.001        | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Magnesium                                  | mg/L  |                | 45.000        | 50.000   | 47.000   | 42.000   | 46.000   | 43.000   | 50.000   | 46.000   |
| Manganese                                  | mg/L  | 1.9            | <0.001        | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | 0.016    | 0.016    |
| Mercury                                    | mg/L  | 0.0006         | <0.00005      | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Molybdenum                                 | mg/L  | 0.034          | <0.001        | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Nickel                                     | mg/L  | 0.11           | <0.001        | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Nitrate as NO <sub>3</sub>                 | mg/L  | 4.0            | 5.200         | 5.000    | 4.900    | 17.000   | 13.000   | 13.000   | 5.900    | 20.000   |
| pH   | pH    | 6.5-8.0        | 8.100         | 8.100    | 8.000    | 8.200    | 8.200    | 8.100    | 8.400    | 8.400    |
| Potassium                                  | mg/L  |                | 5.900         | 6.000    | 5.800    | 5.900    | 6.000    | 5.800    | 7.100    | 7.300    |
| Reactive Silica as SiO <sub>2</sub>        | mg/L  |                | 50.000        | 52.000   | 52.000   | 51.000   | 53.000   | 53.000   |          |          |
| Selenium                                   | mg/L  | 0.011          | <0.001        | 0.001    | 0.001    | <0.001   | 0.001    | 0.001    | 0.001    | 0.001    |
| Silica                                     | mg/L  |                | 50.000        | 47.000   | 44.000   | 52.000   | 49.000   | 45.000   | 40.000   | 45.000   |
| Sodium                                     | mg/L  |                | 65.000        | 71.000   | 73.000   | 66.000   | 72.000   | 73.000   | 90.000   | 83.000   |
| Sulphate as SO <sub>4</sub> 2-             | mg/L  |                | 53.000        | 54.000   | 53.000   | 49.000   | 47.000   | 47.000   | 76.000   | 62.000   |
| Suspended Solids (SS)                      | mg/L  |                | <5            | <5       | <5       | <5       | <5       | <5       | 130.000  | 40.000   |
| Total Alkalinity as CaCO <sub>3</sub>      | mg/L  |                | 260.000       | 260.000  | 270.000  | 240.000  | 240.000  | 250.000  | 280.000  | 280.000  |
| Total Dissolved Solids at 180°C            | mg/L  |                | 530.000       | 540.000  | 550.000  | 520.000  | 510.000  | 520.000  | 620.000  | 600.000  |
| Total Hardness as CaCO <sub>3</sub>        | mg/L  |                | 300.000       | 320.000  | 320.000  | 280.000  | 300.000  | 290.000  | 340.000  | 320.000  |
| Zinc                                       | mg/L  | 0.072          | <0.005        | <0.005   | <0.005   | <0.005   | <0.005   | <0.005   | <0.005   | <0.005   |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

**Table 10.6: Laboratory Chemistry Results from Production Bores (cont'd)**

| Recording Type Name             | Unit  | Trigger Values | Eastern 3,5,6 |          |          |          |          |          |
|---------------------------------|-------|----------------|---------------|----------|----------|----------|----------|----------|
|                                 |       |                | HYE0027P      |          | HYE0044P | HYE0045P | HYE0055P |          |
|                                 |       |                | Apr - 20      | May - 20 | Sep - 19 | Sep - 19 | Apr - 20 | May - 20 |
| Aluminium                       | mg/L  | 0.1            | <0.005        | <0.005   | <0.005   | <0.005   | <0.005   | <0.005   |
| Arsenic                         | mg/L  | 0.013          | <0.001        | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Barium                          | mg/L  | 0.088          | 0.031         | 0.027    | 0.029    | 0.031    | 0.029    | 0.028    |
| Bicarbonate Alkalinity as HCO3  | mg/L  |                | 250.000       | 240.000  | 300.000  | 320.000  | 310.000  | 310.000  |
| Boron                           | mg/L  | 0.37           | 0.270         | 0.340    | 0.610    | 0.640    | 0.440    | 0.440    |
| Cadmium                         | mg/L  | 0.001          | <0.0001       | <0.0001  | <0.0001  | <0.0001  | <0.0001  | <0.0001  |
| Calcium                         | mg/L  |                | 37.000        | 37.000   | 40.000   | 41.000   | 42.000   | 42.000   |
| Chloride                        | mg/L  |                | 87.000        | 80.000   | 97.000   | 79.000   | 80.000   | 79.000   |
| Chromium                        | mg/L  | 0.001          | <0.001        | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Copper                          | mg/L  | 0.01           | <0.001        | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Electrical Conductivity at 25°C | µS/cm | 90-1000        | 730.000       | 690.000  | 850.000  | 840.000  | 850.000  | 840.000  |
| Fluoride                        | mg/L  |                | 0.500         | 0.500    | 0.500    | 0.500    | 0.500    | 0.500    |
| Iron Sol.                       | mg/L  | 0.3            | <0.005        | 0.007    | <0.005   | <0.005   | <0.005   | <0.005   |
| Lead                            | mg/L  | 0.005          | <0.001        | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Magnesium                       | mg/L  |                | 34.000        | 32.000   | 38.000   | 39.000   | 44.000   | 41.000   |
| Manganese                       | mg/L  | 1.9            | <0.001        | 0.002    | <0.001   | <0.001   | <0.001   | <0.001   |
| Mercury                         | mg/L  | 0.0006         | <0.00005      | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Molybdenum                      | mg/L  | 0.034          | <0.001        | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Nickel                          | mg/L  | 0.11           | <0.001        | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Nitrate as NO3                  | mg/L  | 4.0            | 10.000        | 8.100    | 25.000   | 40.000   | 42.000   | 40.000   |
| pH                              | pH    | 6.5-8.0        | 7.800         | 7.600    | 8.100    | 8.100    | 8.300    | 8.100    |
| Potassium                       | mg/L  |                | 5.100         | 5.000    | 5.400    | 5.200    | 4.900    | 4.700    |
| Reactive Silica as SiO2         | mg/L  |                | 49.000        | 48.000   | 49.000   | 50.000   | 53.000   | 53.000   |
| Selenium                        | mg/L  | 0.011          | <0.001        | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Silica                          | mg/L  |                | 43.000        | 40.000   | 50.000   | 51.000   | 47.000   | 45.000   |
| Sodium                          | mg/L  |                | 55.000        | 51.000   | 66.000   | 65.000   | 68.000   | 69.000   |
| Sulphate as SO4 2-              | mg/L  |                | 41.000        | 42.000   | 43.000   | 42.000   | 43.000   | 43.000   |
| Suspended Solids (SS)           | mg/L  |                | <5            | <5       | <5       | <5       | <5       | <5       |
| Total Alkalinity as CaCO3       | mg/L  |                | 210.000       | 200.000  | 250.000  | 260.000  | 260.000  | 260.000  |
| Total Dissolved Solids at 180°C | mg/L  |                | 410.000       | 400.000  | 490.000  | 500.000  | 490.000  | 500.000  |
| Total Hardness as CaCO3         | mg/L  |                | 230.000       | 220.000  | 260.000  | 260.000  | 290.000  | 280.000  |
| Zinc                            | mg/L  | 0.072          | <0.005        | <0.005   | <0.005   | <0.005   | <0.005   | <0.005   |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

**Table 10.6: Laboratory Chemistry Results from Production Bores (cont'd)**

| Recording Type Name                        | Unit  | Trigger Values | Eastern 7 |          |          |          |          |          |          |          |
|--|-------|----------------|-----------|----------|----------|----------|----------|----------|----------|----------|
|  |       |                | HYE0160P  | HYE0180P |          | HYE0181P |          |          | HYE0311P | HYE0313P |
|  |       |                | Sep - 19  | Apr - 20 | May - 20 | Sep - 19 | Apr - 20 | May - 20 | Apr - 20 | Apr - 20 |
| Aluminium                                  | mg/L  | 0.1            | <0.005    | <0.005   | <0.005   | <0.005   | <0.005   | <0.005   | <0.005   | <0.005   |
| Arsenic                                    | mg/L  | 0.013          | <0.001    | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | 0.001    |
| Barium                                     | mg/L  | 0.088          | 0.032     | 0.020    | 0.018    | 0.028    | 0.029    | 0.027    | 0.024    | 0.029    |
| Bicarbonate Alkalinity as HCO <sub>3</sub> | mg/L  |                | 280.000   | 370.000  | 380.000  | 330.000  | 300.000  | 310.000  | 270.000  | 360.000  |
| Boron                                      | mg/L  | 0.37           | 0.350     | 0.540    | 0.510    | 0.470    | 0.350    | 0.440    | 0.270    | 0.320    |
| Cadmium                                    | mg/L  | 0.001          | <0.0001   | <0.0001  | <0.0001  | <0.0001  | <0.0001  | <0.0001  | <0.0001  | <0.0001  |
| Calcium                                    | mg/L  |                | 41.000    | 45.000   | 45.000   | 42.000   | 39.000   | 40.000   | 34.000   | 47.000   |
| Chloride                                   | mg/L  |                | 97.000    | 96.000   | 96.000   | 88.000   | 75.000   | 76.000   | 68.000   | 92.000   |
| Chromium                                   | mg/L  | 0.001          | <0.001    | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Copper                                     | mg/L  | 0.01           | <0.001    | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Electrical Conductivity at 25°C            | µS/cm | 90-1000        | 810.000   | 930.000  | 920.000  | 840.000  | 790.000  | 780.000  | 750.000  | 910.000  |
| Fluoride                                   | mg/L  |                | 0.500     | 0.700    | 0.800    | 0.600    | 0.500    | 0.500    | 0.400    | 0.400    |
| Iron Sol.                                  | mg/L  | 0.3            | 0.006     | <0.005   | 0.007    | 0.008    | <0.005   | <0.005   | <0.005   | 0.040    |
| Lead                                       | mg/L  | 0.005          | <0.001    | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Magnesium                                  | mg/L  |                | 37.000    | 48.000   | 45.000   | 38.000   | 39.000   | 37.000   | 31.000   | 42.000   |
| Manganese                                  | mg/L  | 1.9            | <0.001    | 0.001    | <0.001   | <0.001   | <0.001   | <0.001   | 0.020    | 0.035    |
| Mercury                                    | mg/L  | 0.0006         | <0.00005  | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Molybdenum                                 | mg/L  | 0.034          | <0.001    | 0.001    | 0.001    | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Nickel                                     | mg/L  | 0.11           | 0.002     | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Nitrate as NO <sub>3</sub>                 | mg/L  | 4.0            | 7.300     | 10.000   | 11.000   | 5.900    | 31.000   | 25.000   | 10.000   | 8.200    |
| pH   | pH    | 6.5-8.0        | 8.100     | 7.900    | 8.200    | 8.300    | 8.200    | 8.100    | 8.600    | 8.400    |
| Potassium                                  | mg/L  |                | 5.000     | 5.600    | 5.300    | 5.100    | 5.100    | 4.800    | 5.000    | 4.600    |
| Reactive Silica as SiO <sub>2</sub>        | mg/L  |                | 54.000    | 54.000   | 54.000   | 54.000   | 55.000   | 56.000   | 52.000   | 59.000   |
| Selenium                                   | mg/L  | 0.011          | <0.001    | <0.001   | <0.001   | 0.001    | 0.001    | 0.003    | 0.002    | 0.001    |
| Silica                                     | mg/L  |                | 54.000    | 49.000   | 44.000   | 55.000   | 50.000   | 47.000   | 50.000   | 56.000   |
| Sodium                                     | mg/L  |                | 59.000    | 79.000   | 80.000   | 65.000   | 65.000   | 66.000   | 55.000   | 76.000   |
| Sulphate as SO <sub>4</sub> 2-             | mg/L  |                | 49.000    | 44.000   | 44.000   | 43.000   | 40.000   | 42.000   | 47.000   | 46.000   |
| Suspended Solids (SS)                      | mg/L  |                | <5        | <5       | <5       | <5       | <5       | <5       | 130.000  | 21.000   |
| Total Alkalinity as CaCO <sub>3</sub>      | mg/L  |                | 230.000   | 300.000  | 310.000  | 270.000  | 250.000  | 250.000  | 240.000  | 310.000  |
| Total Dissolved Solids at 180°C            | mg/L  |                | 470.000   | 510.000  | 510.000  | 480.000  | 460.000  | 470.000  | 410.000  | 550.000  |
| Total Hardness as CaCO <sub>3</sub>        | mg/L  |                | 260.000   | 310.000  | 300.000  | 260.000  | 260.000  | 250.000  | 210.000  | 290.000  |
| Zinc                                       | mg/L  | 0.072          | <0.005    | 0.005    | 0.007    | 0.006    | <0.005   | <0.005   | <0.005   | <0.005   |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

**Table 10.6: Laboratory Chemistry Results from Production Bores (cont'd)**

| Recording Type Name                        | Unit  | Trigger Values | Eastern 7 |
|--|-------|----------------|-----------|
|  |       |                | HYE0314P  |
| Recording Type Name                        | Unit  | Trigger Values | May - 20  |
| Aluminium                                  | mg/L  | 0.1            | <0.005    |
| Arsenic                                    | mg/L  | 0.013          | 0.003     |
| Barium                                     | mg/L  | 0.088          | 0.009     |
| Bicarbonate Alkalinity as HCO <sub>3</sub> | mg/L  |                | 300.000   |
| Boron                                      | mg/L  | 0.37           | 0.340     |
| Cadmium                                    | mg/L  | 0.001          | <0.0001   |
| Calcium                                    | mg/L  |                | 32.000    |
| Chloride                                   | mg/L  |                | 99.000    |
| Chromium                                   | mg/L  | 0.001          | <0.001    |
| Copper                                     | mg/L  | 0.01           | <0.001    |
| Electrical Conductivity at 25°C            | µS/cm | 90-1000        | 830.000   |
| Fluoride                                   | mg/L  |                | 0.500     |
| Iron Sol.                                  | mg/L  | 0.3            | 0.056     |
| Lead                                       | mg/L  | 0.005          | <0.001    |
| Magnesium                                  | mg/L  |                | 30.000    |
| Manganese                                  | mg/L  | 1.9            | 0.079     |
| Mercury                                    | mg/L  | 0.0006         | <0.00005  |
| Molybdenum                                 | mg/L  | 0.034          | 0.004     |
| Nickel                                     | mg/L  | 0.11           | 0.002     |
| Nitrate as NO <sub>3</sub>                 | mg/L  | 4.0            | 1.100     |
| pH   | pH    | 6.5-8.0        | 8.400     |
| Potassium                                  | mg/L  |                | 5.500     |
| Selenium                                   | mg/L  | 0.011          | <0.001    |
| Silica                                     | mg/L  |                | 59.000    |
| Sodium                                     | mg/L  |                | 92.000    |
| Sulphate as SO <sub>4</sub> 2-             | mg/L  |                | 66.000    |
| Suspended Solids (SS)                      | mg/L  |                | 43.000    |
| Total Alkalinity as CaCO <sub>3</sub>      | mg/L  |                | 250.000   |
| Total Dissolved Solids at 180°C            | mg/L  |                | 580.000   |
| Total Hardness as CaCO <sub>3</sub>        | mg/L  |                | 200.000   |
| Zinc                                       | mg/L  | 0.072          | <0.005    |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

**Table 10.6: Laboratory Chemistry Results from Production Bores**

| Recording Type Name                        | Unit | Trigger Values | Spinifex Camp |          |             |          |
|--|------|----------------|---------------|----------|-------------|----------|
|  |      |                | HNPISP0001P   |          | HNPISP0002P |          |
|  |      |                | Dec - 20      | Jun - 21 | Dec - 20    | Jun - 21 |
| Aluminium                                  | mg/L | 0.1            | <0.005        | 0.007    | <0.005      | <0.005   |
| Arsenic                                    | mg/L | 0.013          | <0.001        | <0.001   | <0.001      | <0.001   |
| Barium                                     | mg/L | 0.088          | 0.089         | 0.084    | 0.088       | 0.088    |
| Bicarbonate Alkalinity as HCO <sub>3</sub> | mg/L |                | 510.000       | 520.000  | 500.000     | 500.000  |
| Boron                                      | mg/L | 0.37           | 0.460         | 0.370    | 0.470       | 0.380    |
| Cadmium                                    | mg/L | 0.001          | <0.0001       | <0.0001  | <0.0001     | <0.0001  |
| Calcium                                    | mg/L |                | 65.000        | 65.000   | 67.000      | 67.000   |
| Chloride                                   | mg/L |                | 100.000       | 110.000  | 120.000     | 130.000  |
| Chromium                                   | mg/L | 0.001          | <0.001        | <0.001   | <0.001      | <0.001   |
| Copper                                     | mg/L | 0.01           | <0.001        | <0.001   | <0.001      | <0.001   |
| Fluoride                                   | mg/L |                | 0.500         | 0.500    | 0.500       | 0.400    |
| Iron Tot.                                  | mg/L |                | <0.005        | <0.005   | 0.010       | <0.005   |
| Lead                                       | mg/L | 0.005          | <0.001        | <0.001   | <0.001      | <0.001   |
| Magnesium                                  | mg/L |                | 61.000        | 58.000   | 65.000      | 61.000   |
| Manganese                                  | mg/L | 1.9            | <0.001        | <0.001   | <0.001      | <0.001   |
| Mercury                                    | mg/L | 0.0006         | <0.00005      | <0.00005 | <0.00005    | <0.00005 |
| Molybdenum                                 | mg/L | 0.034          | <0.001        | <0.001   | <0.001      | <0.001   |
| Nickel                                     | mg/L | 0.11           | <0.001        | <0.001   | <0.001      | <0.001   |
| Nitrate as NO <sub>3</sub>                 | mg/L | 4.0            | 16.000        | 15.000   | 14.000      | 13.000   |
| Potassium                                  | mg/L |                | 14.000        | 13.000   | 13.000      | 13.000   |
| Selenium                                   | mg/L | 0.011          | 0.002         | 0.002    | 0.002       | 0.001    |
| Silica                                     | mg/L |                | 70.000        | 69.000   | 69.000      | 69.000   |
| Sodium                                     | mg/L |                | 96.000        | 96.000   | 100.000     | 100.000  |
| Sulphate as SO <sub>4</sub> 2-             | mg/L |                | 58.000        | 57.000   | 68.000      | 67.000   |
| Suspended Solids (SS)                      | mg/L |                | <5            | <5       | <5          | <5       |
| Total Alkalinity as CaCO <sub>3</sub>      | mg/L |                | 420.000       | 430.000  | 410.000     | 410.000  |
| Total Dissolved Solids at 180°C            | mg/L |                | 680.000       | 680.000  | 700.000     | 710.000  |
| Total Hardness as CaCO <sub>3</sub>        | mg/L |                | 410.000       | 400.000  | 430.000     | 420.000  |
| Zinc                                       | mg/L | 0.072          | <0.005        | <0.005   | <0.005      | <0.005   |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

**Table 10.6: Laboratory Chemistry Results from Production Bores (cont'd)**

| Recording Type Name             | Unit  | Trigger Values | Western 1   |          |          |          |          |          |
|---------------------------------|-------|----------------|-------------|----------|----------|----------|----------|----------|
|                                 |       |                | HNPIYN1704P | HYW0212P | HYW0226P | SYAN0015 | Oct - 20 | Mar - 21 |
| Aluminium                       | mg/L  | 0.1            | <0.005      | <0.005   | <0.005   | <0.005   | <0.005   | <0.005   |
| Arsenic                         | mg/L  | 0.013          | <0.001      | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Barium                          | mg/L  | 0.088          | 0.078       | 0.081    | 0.075    | 0.072    | 0.031    |          |
| Bicarbonate Alkalinity as HCO3  | mg/L  |                | 520.000     | 510.000  | 520.000  | 500.000  | 200.000  |          |
| Boron                           | mg/L  | 0.37           | 0.470       | 0.420    | 0.420    | 0.540    | 0.280    |          |
| Cadmium                         | mg/L  | 0.001          | <0.0001     | <0.0001  | <0.0001  | <0.0001  | <0.0001  | <0.0001  |
| Calcium                         | mg/L  |                | 69.000      | 66.000   | 67.000   | 71.000   | 28.000   |          |
| Chloride                        | mg/L  |                | 120.000     | 120.000  | 130.000  | 130.000  | 66.000   |          |
| Chromium                        | mg/L  | 0.001          | <0.001      | <0.001   | <0.001   | <0.001   | <0.001   |          |
| Copper                          | mg/L  | 0.01           | <0.001      | <0.001   | <0.001   | <0.001   | <0.001   |          |
| Electrical Conductivity at 25°C | µS/cm | 90-1000        | 1200.000    | 1200.000 | 1300.000 | 1200.000 | 600.000  |          |
| Fluoride                        | mg/L  |                | 0.600       | 0.500    | 0.600    | 0.600    | 0.700    |          |
| Iron Sol.                       | mg/L  | 0.3            | <0.005      | <0.005   | <0.005   | <0.005   | <0.005   |          |
| Lead                            | mg/L  | 0.005          | <0.001      | <0.001   | <0.001   | <0.001   | <0.001   |          |
| Magnesium                       | mg/L  |                | 60.000      | 59.000   | 56.000   | 61.000   | 24.000   |          |
| Manganese                       | mg/L  | 1.9            | <0.001      | <0.001   | <0.001   | <0.001   | <0.001   |          |
| Mercury                         | mg/L  | 0.0006         | <0.00005    | <0.00005 | <0.00005 | <0.00005 | <0.00005 |          |
| Molybdenum                      | mg/L  | 0.034          | <0.001      | <0.001   | <0.001   | <0.001   | <0.001   |          |
| Nickel                          | mg/L  | 0.11           | <0.001      | <0.001   | <0.001   | <0.001   | <0.001   |          |
| Nitrate as NO3                  | mg/L  | 4.0            | 14.000      | 15.000   | 120.000  | 11.000   | 4.800    |          |
| pH                              | pH    | 6.5-8.0        | 7.900       | 8.000    | 8.300    | 8.300    | 8.300    |          |
| Potassium                       | mg/L  |                | 14.000      | 13.000   | 14.000   | 13.000   | 7.300    |          |
| Reactive Silica as SiO2         | mg/L  |                | 74.000      | 73.000   | 69.000   | 72.000   | 77.000   |          |
| Selenium                        | mg/L  | 0.011          | 0.002       | 0.002    | 0.001    | 0.002    | <0.001   |          |
| Silica                          | mg/L  |                | 65.000      | 66.000   | 63.000   | 66.000   | 58.000   |          |
| Sodium                          | mg/L  |                | 93.000      | 91.000   | 86.000   | 100.000  | 45.000   |          |
| Sulphate as SO4 2-              | mg/L  |                | 62.000      | 62.000   | 62.000   | 66.000   | 37.000   |          |
| Suspended Solids (SS)           | mg/L  |                | <5          | <5       | <5       | <5       | <5       |          |
| Total Alkalinity as CaCO3       | mg/L  |                | 430.000     | 420.000  | 430.000  | 420.000  | 170.000  |          |
| Total Dissolved Solids at 180°C | mg/L  |                | 710.000     | 670.000  | 720.000  | 670.000  | 370.000  |          |
| Total Hardness as CaCO3         | mg/L  |                | 420.000     | 410.000  | 400.000  | 430.000  | 170.000  |          |
| Zinc                            | mg/L  | 0.072          | <0.005      | <0.005   | <0.005   | <0.005   | <0.005   |          |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

**Table 10.6: Laboratory Chemistry Results from Production Bores (cont'd)**

| Recording Type Name                        | Unit  | Trigger Values | Western 2 |          |          |          |          |
|--|-------|----------------|-----------|----------|----------|----------|----------|
|  |       |                | HYW0237P  |          | HYW0238P |          | HYW0348P |
|  |       |                | Oct - 20  | Mar - 21 | Oct - 20 | Mar - 21 | Oct - 20 |
| Aluminium                                  | mg/L  | 0.1            | <0.005    | <0.005   | <0.005   | <0.005   | <0.005   |
| Arsenic                                    | mg/L  | 0.013          | <0.001    | <0.001   | <0.001   | <0.001   | <0.001   |
| Barium                                     | mg/L  | 0.088          | 0.071     | 0.069    | 0.068    | 0.071    | 0.059    |
| Bicarbonate Alkalinity as HCO <sub>3</sub> | mg/L  |                | 490.000   | 450.000  | 480.000  | 500.000  | 440.000  |
| Boron                                      | mg/L  | 0.37           | 0.500     | 0.430    | 0.480    | 0.420    | 0.520    |
| Cadmium                                    | mg/L  | 0.001          | <0.0001   | <0.0001  | <0.0001  | <0.0001  | <0.0001  |
| Calcium                                    | mg/L  |                | 68.000    | 62.000   | 68.000   | 63.000   | 57.000   |
| Chloride                                   | mg/L  |                | 140.000   | 130.000  | 130.000  | 140.000  | 140.000  |
| Chromium                                   | mg/L  | 0.001          | <0.001    | <0.001   | <0.001   | <0.001   | <0.001   |
| Copper                                     | mg/L  | 0.01           | <0.001    | <0.001   | <0.001   | <0.001   | <0.001   |
| Electrical Conductivity at 25°C            | µS/cm | 90-1000        | 1200.000  | 1200.000 | 1200.000 | 1300.000 | 1200.000 |
| Fluoride                                   | mg/L  |                | 0.600     | 0.600    | 0.600    | 0.600    | 0.600    |
| Iron Sol.                                  | mg/L  | 0.3            | <0.005    | <0.005   | <0.005   | <0.005   | 0.005    |
| Lead                                       | mg/L  | 0.005          | <0.001    | <0.001   | <0.001   | <0.001   | <0.001   |
| Magnesium                                  | mg/L  |                | 58.000    | 55.000   | 60.000   | 57.000   | 52.000   |
| Manganese                                  | mg/L  | 1.9            | <0.001    | <0.001   | <0.001   | <0.001   | 0.008    |
| Mercury                                    | mg/L  | 0.0006         | <0.00005  | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Molybdenum                                 | mg/L  | 0.034          | <0.001    | <0.001   | <0.001   | <0.001   | <0.001   |
| Nickel                                     | mg/L  | 0.11           | <0.001    | <0.001   | <0.001   | <0.001   | <0.001   |
| Nitrate as NO <sub>3</sub>                 | mg/L  | 4.0            | 9.000     | 15.000   | 11.000   | 10.000   | 6.900    |
| pH   | pH    | 6.5-8.0        | 8.300     | 8.300    | 8.400    | 8.300    | 8.400    |
| Potassium                                  | mg/L  |                | 13.000    | 12.000   | 13.000   | 12.000   | 11.000   |
| Reactive Silica as SiO <sub>2</sub>        | mg/L  |                | 72.000    | 80.000   | 73.000   | 81.000   | 69.000   |
| Selenium                                   | mg/L  | 0.011          | 0.002     | 0.002    | 0.001    | 0.002    | 0.002    |
| Silica                                     | mg/L  |                | 61.000    | 62.000   | 64.000   | 63.000   | 56.000   |
| Sodium                                     | mg/L  |                | 95.000    | 90.000   | 95.000   | 92.000   | 90.000   |
| Sulphate as SO <sub>4</sub> 2-             | mg/L  |                | 68.000    | 64.000   | 66.000   | 69.000   | 65.000   |
| Suspended Solids (SS)                      | mg/L  |                | <5        | <5       | <5       | <5       | <5       |
| Total Alkalinity as CaCO <sub>3</sub>      | mg/L  |                | 400.000   | 370.000  | 400.000  | 410.000  | 370.000  |
| Total Dissolved Solids at 180°C            | mg/L  |                | 700.000   | 670.000  | 700.000  | 710.000  | 680.000  |
| Total Hardness as CaCO <sub>3</sub>        | mg/L  |                | 410.000   | 380.000  | 420.000  | 390.000  | 350.000  |
| Zinc                                       | mg/L  | 0.072          | <0.005    | <0.005   | <0.005   | <0.005   | <0.005   |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

**Table 10.6: Laboratory Chemistry Results from Production Bores (cont'd)**

| Recording Type Name                        | Unit  | Trigger Values | Western 4 |          |          |          |          |
|--|-------|----------------|-----------|----------|----------|----------|----------|
|  |       |                | HYW0030P  |          | HYW0051P |          | SYAN0035 |
|  |       |                | Oct - 20  | Mar - 21 | Oct - 20 | Mar - 21 | Oct - 20 |
| Aluminium                                  | mg/L  | 0.1            | <0.005    | <0.005   | <0.005   | <0.005   | <0.005   |
| Arsenic                                    | mg/L  | 0.013          | <0.001    | <0.001   | <0.001   | <0.001   | <0.001   |
| Barium                                     | mg/L  | 0.088          | 0.050     | 0.041    | 0.043    | 0.039    | 0.060    |
| Bicarbonate Alkalinity as HCO <sub>3</sub> | mg/L  |                | 360.000   | 320.000  | 320.000  | 300.000  | 340.000  |
| Boron                                      | mg/L  | 0.37           | 0.350     | 0.300    | 0.360    | 0.320    | 0.370    |
| Cadmium                                    | mg/L  | 0.001          | <0.0001   | <0.0001  | <0.0001  | <0.0001  | <0.0001  |
| Calcium                                    | mg/L  |                | 53.000    | 41.000   | 46.000   | 39.000   | 48.000   |
| Chloride                                   | mg/L  |                | 120.000   | 88.000   | 110.000  | 89.000   | 110.000  |
| Chromium                                   | mg/L  | 0.001          | <0.001    | <0.001   | <0.001   | <0.001   | <0.001   |
| Copper                                     | mg/L  | 0.01           | <0.001    | 0.003    | <0.001   | <0.001   | <0.001   |
| Electrical Conductivity at 25°C            | µS/cm | 90-1000        | 950.000   | 830.000  | 840.000  | 810.000  | 890.000  |
| Fluoride                                   | mg/L  |                | 0.500     | 0.600    | 0.500    | 0.600    | 0.600    |
| Iron Sol.                                  | mg/L  | 0.3            | <0.005    | <0.005   | <0.005   | <0.005   | <0.005   |
| Lead                                       | mg/L  | 0.005          | <0.001    | <0.001   | <0.001   | 0.001    | <0.001   |
| Magnesium                                  | mg/L  |                | 47.000    | 36.000   | 41.000   | 35.000   | 43.000   |
| Manganese                                  | mg/L  | 1.9            | 0.003     | <0.001   | <0.001   | <0.001   | 0.003    |
| Mercury                                    | mg/L  | 0.0006         | <0.00005  | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Molybdenum                                 | mg/L  | 0.034          | <0.001    | <0.001   | <0.001   | <0.001   | <0.001   |
| Nickel                                     | mg/L  | 0.11           | 0.001     | 0.003    | <0.001   | <0.001   | <0.001   |
| Nitrate as NO <sub>3</sub>                 | mg/L  | 4.0            | 7.200     | 6.900    | 5.400    | 5.200    | 3.600    |
| pH   | pH    | 6.5-8.0        | 7.800     | 7.700    | 8.000    | 8.000    | 8.200    |
| Potassium                                  | mg/L  |                | 9.700     | 8.100    | 8.600    | 7.800    | 9.800    |
| Reactive Silica as SiO <sub>2</sub>        | mg/L  |                | 64.000    | 63.000   | 63.000   | 61.000   | 65.000   |
| Selenium                                   | mg/L  | 0.011          | 0.002     | <0.001   | 0.001    | 0.001    | 0.001    |
| Silica                                     | mg/L  |                | 58.000    | 57.000   | 57.000   | 56.000   | 57.000   |
| Sodium                                     | mg/L  |                | 88.000    | 66.000   | 83.000   | 67.000   | 84.000   |
| Sulphate as SO <sub>4</sub> 2-             | mg/L  |                | 54.000    | 46.000   | 50.000   | 46.000   | 53.000   |
| Suspended Solids (SS)                      | mg/L  |                | <5        | <5       | <5       | <5       | 54.000   |
| Total Alkalinity as CaCO <sub>3</sub>      | mg/L  |                | 290.000   | 260.000  | 260.000  | 250.000  | 280.000  |
| Total Dissolved Solids at 180°C            | mg/L  |                | 560.000   | 460.000  | 500.000  | 440.000  | 530.000  |
| Total Hardness as CaCO <sub>3</sub>        | mg/L  |                | 330.000   | 250.000  | 280.000  | 240.000  | 300.000  |
| Zinc                                       | mg/L  | 0.072          | 0.006     | 0.022    | 0.006    | 0.010    | 0.006    |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

**Table 10.6: Laboratory Chemistry Results from Production Bores (cont'd)**

| Recording Type Name             | Unit  | Trigger Values | Western 5 |          |          |          |
|---------------------------------|-------|----------------|-----------|----------|----------|----------|
|                                 |       |                | HYW0132P  | HYW0133P | HYW0134P |          |
|                                 |       |                | Mar - 21  | Oct - 20 | Oct - 20 | Mar - 21 |
| Aluminium                       | mg/L  | 0.1            | <0.005    | <0.005   | <0.005   | <0.005   |
| Arsenic                         | mg/L  | 0.013          | <0.001    | <0.001   | <0.001   | <0.001   |
| Barium                          | mg/L  | 0.088          | 0.059     | 0.052    | 0.050    | 0.050    |
| Bicarbonate Alkalinity as HCO3  | mg/L  |                | 390.000   | 400.000  | 420.000  | 410.000  |
| Boron                           | mg/L  | 0.37           | 0.370     | 0.410    | 0.390    | 0.340    |
| Cadmium                         | mg/L  | 0.001          | <0.0001   | <0.0001  | <0.0001  | <0.0001  |
| Calcium                         | mg/L  |                | 57.000    | 59.000   | 58.000   | 58.000   |
| Chloride                        | mg/L  |                | 140.000   | 140.000  | 130.000  | 130.000  |
| Chromium                        | mg/L  | 0.001          | <0.001    | <0.001   | <0.001   | <0.001   |
| Copper                          | mg/L  | 0.01           | <0.001    | <0.001   | <0.001   | <0.001   |
| Electrical Conductivity at 25°C | µS/cm | 90-1000        | 1100.000  | 1100.000 | 1100.000 | 1100.000 |
| Fluoride                        | mg/L  |                | 0.500     | 0.500    | 0.500    | 0.500    |
| Iron Sol.                       | mg/L  | 0.3            | <0.005    | 0.006    | <0.005   | <0.005   |
| Lead                            | mg/L  | 0.005          | <0.001    | <0.001   | <0.001   | <0.001   |
| Magnesium                       | mg/L  |                | 49.000    | 52.000   | 53.000   | 50.000   |
| Manganese                       | mg/L  | 1.9            | <0.001    | <0.001   | <0.001   | <0.001   |
| Mercury                         | mg/L  | 0.0006         | <0.00005  | <0.00005 | <0.00005 | <0.00005 |
| Molybdenum                      | mg/L  | 0.034          | <0.001    | <0.001   | <0.001   | <0.001   |
| Nickel                          | mg/L  | 0.11           | <0.001    | 0.004    | <0.001   | <0.001   |
| Nitrate as NO3                  | mg/L  | 4.0            | 6.500     | 6.300    | 10.000   | 11.000   |
| pH                              | pH    | 6.5-8.0        | 8.100     | 8.200    | 8.200    | 8.200    |
| Potassium                       | mg/L  |                | 9.600     | 9.500    | 8.800    | 8.600    |
| Reactive Silica as SiO2         | mg/L  |                | 62.000    | 63.000   | 63.000   | 62.000   |
| Selenium                        | mg/L  | 0.011          | 0.002     | 0.002    | 0.002    | 0.003    |
| Silica                          | mg/L  |                | 57.000    | 57.000   | 56.000   | 57.000   |
| Sodium                          | mg/L  |                | 88.000    | 100.000  | 100.000  | 89.000   |
| Sulphate as SO4 2-              | mg/L  |                | 61.000    | 64.000   | 62.000   | 60.000   |
| Suspended Solids (SS)           | mg/L  |                | <5        | <5       | <5       | <5       |
| Total Alkalinity as CaCO3       | mg/L  |                | 320.000   | 330.000  | 340.000  | 340.000  |
| Total Dissolved Solids at 180°C | mg/L  |                | 620.000   | 630.000  | 640.000  | 620.000  |
| Total Hardness as CaCO3         | mg/L  |                | 350.000   | 360.000  | 360.000  | 350.000  |
| Zinc                            | mg/L  | 0.072          | <0.005    | <0.005   | <0.005   | <0.005   |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

**Table 10.6: Laboratory Chemistry Results from Production Bores (cont'd)**

| Recording Type Name                        | Unit  | Trigger Values | Western 6 |          |
|--|-------|----------------|-----------|----------|
|  |       |                | HYW0175P  | HYW0176P |
| Aluminium                                  | mg/L  | 0.1            | <0.005    | <0.005   |
| Arsenic                                    | mg/L  | 0.013          | <0.001    | <0.001   |
| Barium                                     | mg/L  | 0.088          | 0.044     | 0.013    |
| Bicarbonate Alkalinity as HCO <sub>3</sub> | mg/L  |                | 530.000   | 540.000  |
| Boron                                      | mg/L  | 0.37           | 0.540     | 0.790    |
| Cadmium                                    | mg/L  | 0.001          | <0.0001   | <0.0001  |
| Calcium                                    | mg/L  |                | 62.000    | 54.000   |
| Chloride                                   | mg/L  |                | 160.000   | 180.000  |
| Chromium                                   | mg/L  | 0.001          | <0.001    | <0.001   |
| Copper                                     | mg/L  | 0.01           | <0.001    | <0.001   |
| Electrical Conductivity at 25°C            | µS/cm | 90-1000        | 1300.000  | 1400.000 |
| Fluoride                                   | mg/L  |                | 0.600     | 0.600    |
| Iron Sol.                                  | mg/L  | 0.3            | <0.005    | <0.005   |
| Lead                                       | mg/L  | 0.005          | <0.001    | <0.001   |
| Magnesium                                  | mg/L  |                | 56.000    | 64.000   |
| Manganese                                  | mg/L  | 1.9            | <0.001    | <0.001   |
| Mercury                                    | mg/L  | 0.0006         | <0.00005  | <0.00005 |
| Molybdenum                                 | mg/L  | 0.034          | <0.001    | <0.001   |
| Nickel                                     | mg/L  | 0.11           | 0.004     | <0.001   |
| Nitrate as NO <sub>3</sub>                 | mg/L  | 4.0            | 20.000    | 48.000   |
| pH   | pH    | 6.5-8.0        | 7.900     | 8.200    |
| Potassium                                  | mg/L  |                | 8.100     | 3.700    |
| Reactive Silica as SiO <sub>2</sub>        | mg/L  |                | 59.000    | 65.000   |
| Selenium                                   | mg/L  | 0.011          | 0.002     | 0.003    |
| Silica                                     | mg/L  |                | 51.000    | 57.000   |
| Sodium                                     | mg/L  |                | 130.000   | 160.000  |
| Sulphate as SO <sub>4</sub> 2-             | mg/L  |                | 58.000    | 65.000   |
| Suspended Solids (SS)                      | mg/L  |                | <5        | <5       |
| Total Alkalinity as CaCO <sub>3</sub>      | mg/L  |                | 430.000   | 440.000  |
| Total Dissolved Solids at 180°C            | mg/L  |                | 730.000   | 840.000  |
| Total Hardness as CaCO <sub>3</sub>        | mg/L  |                | 380.000   | 400.000  |
| Zinc                                       | mg/L  | 0.072          | 0.007     | 0.016    |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

**Table 10.6: Laboratory Chemistry Results from Production Bores (cont'd)**

| Recording Type Name                        | Unit  | Trigger Values | Central 1 |          |          |          |          |
|--|-------|----------------|-----------|----------|----------|----------|----------|
|  |       |                | HYC0012P  | Sep - 20 | Oct - 20 | Mar - 21 | Mar - 21 |
| Aluminium                                  | mg/L  | 0.1            | <0.005    | <0.005   | <0.005   | <0.005   | <0.005   |
| Arsenic                                    | mg/L  | 0.013          | <0.001    | <0.001   | <0.001   | <0.001   | <0.001   |
| Barium                                     | mg/L  | 0.088          | 0.019     | 0.057    | 0.047    | 0.051    | 0.058    |
| Bicarbonate Alkalinity as HCO <sub>3</sub> | mg/L  |                | 430.000   | 370.000  | 390.000  |          | 470.000  |
| Boron                                      | mg/L  | 0.37           | 0.580     | 0.410    | 0.380    | 0.470    | 0.360    |
| Cadmium                                    | mg/L  | 0.001          | <0.0001   | <0.0001  | <0.0001  | <0.0001  | <0.0001  |
| Calcium                                    | mg/L  |                | 61.000    | 59.000   | 59.000   |          | 57.000   |
| Chloride                                   | mg/L  |                | 170.000   | 160.000  | 160.000  |          | 160.000  |
| Chromium                                   | mg/L  | 0.001          | <0.001    | <0.001   | <0.001   |          | <0.001   |
| Copper                                     | mg/L  | 0.01           | <0.001    | 0.002    | <0.001   | 0.006    | <0.001   |
| Electrical Conductivity at 25°C            | µS/cm | 90-1000        | 1300.000  |          | 1200.000 |          | 1200.000 |
| Fluoride                                   | mg/L  |                | 0.600     | 0.500    | 0.500    |          | <0.1     |
| Iron Sol.                                  | mg/L  | 0.3            | <0.005    |          | <0.005   |          | <0.005   |
| Iron Tot.                                  | mg/L  |                |           | <0.005   |          | <0.005   |          |
| Lead                                       | mg/L  | 0.005          | <0.001    | <0.001   | <0.001   | <0.001   | <0.001   |
| Magnesium                                  | mg/L  |                | 69.000    | 55.000   | 55.000   |          | 55.000   |
| Manganese                                  | mg/L  | 1.9            | 0.003     | <0.001   | <0.001   | <0.001   | <0.001   |
| Mercury                                    | mg/L  | 0.0006         | <0.00005  | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Molybdenum                                 | mg/L  | 0.034          | <0.001    | <0.001   | <0.001   | <0.001   | <0.001   |
| Nickel                                     | mg/L  | 0.11           | <0.001    | <0.001   | <0.001   | 0.001    | <0.001   |
| Nitrate as NO <sub>3</sub>                 | mg/L  | 4.0            | 15.000    | 14.000   | 16.000   |          | 16.000   |
| pH   | pH    | 6.5-8.0        | 8.000     |          | 7.600    |          | 7.700    |
| Potassium                                  | mg/L  |                | 6.500     | 7.600    | 7.400    |          | 7.700    |
| Reactive Silica as SiO <sub>2</sub>        | mg/L  |                | 57.000    |          | 61.000   |          | 59.000   |
| Selenium                                   | mg/L  | 0.011          | 0.002     | <0.001   | 0.001    | <0.001   | 0.001    |
| Silica                                     | mg/L  |                | 51.000    | 55.000   | 53.000   |          | 54.000   |
| Sodium                                     | mg/L  |                | 100.000   | 94.000   | 98.000   |          | 110.000  |
| Sulphate as SO <sub>4</sub> 2-             | mg/L  |                | 87.000    | 75.000   | 79.000   |          | 78.000   |
| Suspended Solids (SS)                      | mg/L  |                | <5        | <5       | <5       |          | <5       |
| Total Alkalinity as CaCO <sub>3</sub>      | mg/L  |                | 350.000   | 300.000  | 320.000  |          | 380.000  |
| Total Dissolved Solids at 180°C            | mg/L  |                | 750.000   | 690.000  | 700.000  |          | 730.000  |
| Total Hardness as CaCO <sub>3</sub>        | mg/L  |                | 440.000   | 370.000  | 380.000  |          | 370.000  |
| Zinc                                       | mg/L  | 0.072          | 0.005     | <0.005   | 0.006    | 0.008    | <0.005   |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

**Table 10.6: Laboratory Chemistry Results from Production Bores (cont'd)**

| Recording Type Name             | Unit  | Trigger Values | Central 5   |          |          |          |          |          |
|---------------------------------|-------|----------------|-------------|----------|----------|----------|----------|----------|
|                                 |       |                | HNPIYC0034P |          | HYC0031P |          | HYC0068P |          |
|                                 |       |                | Dec - 20    | Mar - 21 | Oct - 20 | Mar - 21 | Oct - 20 | Mar - 21 |
| Aluminium                       | mg/L  | 0.1            | 0.008       | <0.005   | <0.005   | <0.005   | <0.005   | <0.005   |
| Arsenic                         | mg/L  | 0.013          | <0.001      | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Barium                          | mg/L  | 0.088          | 0.025       | 0.021    | 0.030    | 0.039    | 0.025    | 0.030    |
| Bicarbonate Alkalinity as HCO3  | mg/L  |                | 370.000     | 350.000  | 300.000  | 280.000  | 350.000  | 340.000  |
| Boron                           | mg/L  | 0.37           | 0.360       | 0.350    | 0.290    | 0.270    | 0.330    | 0.290    |
| Cadmium                         | mg/L  | 0.001          | <0.0001     | <0.0001  | <0.0001  | <0.0001  | <0.0001  | <0.0001  |
| Calcium                         | mg/L  |                | 43.000      | 45.000   | 40.000   | 39.000   | 45.000   | 42.000   |
| Chloride                        | mg/L  |                | 180.000     | 110.000  | 100.000  | 100.000  | 110.000  | 110.000  |
| Chromium                        | mg/L  | 0.001          | 0.031       | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Copper                          | mg/L  | 0.01           | <0.001      | <0.001   | 0.002    | <0.001   | <0.001   | <0.001   |
| Electrical Conductivity at 25°C | µS/cm | 90-1000        |             |          | 830.000  | 870.000  | 930.000  | 980.000  |
| Fluoride                        | mg/L  |                | 0.700       | 0.700    | 0.600    | 0.500    | 0.800    | 0.700    |
| Iron Sol.                       | mg/L  | 0.3            |             |          | 0.022    | 0.007    | <0.005   | <0.005   |
| Iron Tot.                       | mg/L  |                | 0.310       | 0.006    |          |          |          |          |
| Lead                            | mg/L  | 0.005          | <0.001      | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Magnesium                       | mg/L  |                | 46.000      | 47.000   | 39.000   | 39.000   | 47.000   | 47.000   |
| Manganese                       | mg/L  | 1.9            | 0.027       | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Mercury                         | mg/L  | 0.0006         | 0.000       | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Molybdenum                      | mg/L  | 0.034          | <0.001      | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Nickel                          | mg/L  | 0.11           | 0.011       | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Nitrate as NO3                  | mg/L  | 4.0            | 12.000      | 23.000   | 9.900    | 11.000   | 22.000   | 21.000   |
| pH                              | pH    | 6.5-8.0        |             |          | 7.800    | 8.000    | 8.100    | 8.200    |
| Potassium                       | mg/L  |                | 7.000       | 6.800    | 5.900    | 6.200    | 6.000    | 6.200    |
| Reactive Silica as SiO2         | mg/L  |                |             |          | 60.000   | 57.000   | 60.000   | 58.000   |
| Selenium                        | mg/L  | 0.011          | 0.003       | <0.001   | <0.001   | 0.001    | 0.001    | <0.001   |
| Silica                          | mg/L  |                | 51.000      | 51.000   | 51.000   | 52.000   | 52.000   | 52.000   |
| Sodium                          | mg/L  |                | 120.000     | 80.000   | 75.000   | 81.000   | 83.000   | 89.000   |
| Sulphate as SO4 2-              | mg/L  |                | 52.000      | 54.000   | 55.000   | 55.000   | 56.000   | 57.000   |
| Suspended Solids (SS)           | mg/L  |                | <5          | <5       | <5       | <5       | <5       | <5       |
| Total Alkalinity as CaCO3       | mg/L  |                | 300.000     | 290.000  | 240.000  | 230.000  | 290.000  | 280.000  |
| Total Dissolved Solids at 180°C | mg/L  |                | 660.000     | 610.000  | 490.000  | 510.000  | 540.000  | 580.000  |
| Total Hardness as CaCO3         | mg/L  |                | 300.000     | 300.000  | 260.000  | 260.000  | 300.000  | 300.000  |
| Zinc                            | mg/L  | 0.072          | 0.580       | 0.006    | 0.018    | 0.009    | <0.005   | <0.005   |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

**Table 10.6: Laboratory Chemistry Results from Production Bores (cont'd)**

| Recording Type Name                        | Unit  | Trigger Values | Eastern 1 & 2 |          |
|--|-------|----------------|---------------|----------|
|  |       |                | HYE0023P      | HYE0051P |
| Aluminium                                  | mg/L  | 0.1            | <0.005        | <0.005   |
| Arsenic                                    | mg/L  | 0.013          | <0.001        | <0.001   |
| Barium                                     | mg/L  | 0.088          | 0.041         | 0.042    |
| Bicarbonate Alkalinity as HCO <sub>3</sub> | mg/L  |                | 340.000       | 290.000  |
| Boron                                      | mg/L  | 0.37           | 0.320         | 0.310    |
| Cadmium                                    | mg/L  | 0.001          | <0.0001       | <0.0001  |
| Calcium                                    | mg/L  |                | 48.000        | 43.000   |
| Chloride                                   | mg/L  |                | 130.000       | 120.000  |
| Chromium                                   | mg/L  | 0.001          | <0.001        | <0.001   |
| Copper                                     | mg/L  | 0.01           | <0.001        | <0.001   |
| Electrical Conductivity at 25°C            | µS/cm | 90-1000        | 1000.000      | 940.000  |
| Fluoride                                   | mg/L  |                | 0.500         | 0.500    |
| Iron Sol.                                  | mg/L  | 0.3            | <0.005        | <0.005   |
| Lead                                       | mg/L  | 0.005          | <0.001        | <0.001   |
| Magnesium                                  | mg/L  |                | 48.000        | 43.000   |
| Manganese                                  | mg/L  | 1.9            | <0.001        | <0.001   |
| Mercury                                    | mg/L  | 0.0006         | <0.00005      | <0.00005 |
| Molybdenum                                 | mg/L  | 0.034          | <0.001        | <0.001   |
| Nickel                                     | mg/L  | 0.11           | <0.001        | <0.001   |
| Nitrate as NO <sub>3</sub>                 | mg/L  | 4.0            | 5.500         | 16.000   |
| pH   | pH    | 6.5-8.0        | 8.200         | 8.100    |
| Potassium                                  | mg/L  |                | 6.100         | 6.000    |
| Reactive Silica as SiO <sub>2</sub>        | mg/L  |                | 53.000        | 54.000   |
| Selenium                                   | mg/L  | 0.011          | <0.001        | <0.001   |
| Silica                                     | mg/L  |                | 48.000        | 48.000   |
| Sodium                                     | mg/L  |                | 87.000        | 86.000   |
| Sulphate as SO <sub>4</sub> 2-             | mg/L  |                | 54.000        | 48.000   |
| Suspended Solids (SS)                      | mg/L  |                | <5            | <5       |
| Total Alkalinity as CaCO <sub>3</sub>      | mg/L  |                | 280.000       | 240.000  |
| Total Dissolved Solids at 180°C            | mg/L  |                | 590.000       | 550.000  |
| Total Hardness as CaCO <sub>3</sub>        | mg/L  |                | 320.000       | 280.000  |
| Zinc                                       | mg/L  | 0.072          | <0.005        | <0.005   |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

**Table 10.6: Laboratory Chemistry Results from Production Bores (cont'd)**

| Recording Type Name             | Unit  | Trigger Values | Eastern 3,5,6 |          |          |          |          |
|---------------------------------|-------|----------------|---------------|----------|----------|----------|----------|
|                                 |       |                | HYE0027P      |          | HYE0055P |          | SYAN0002 |
|                                 |       |                | Oct - 20      | Mar - 21 | Oct - 20 | Mar - 21 | Mar - 21 |
| Aluminium                       | mg/L  | 0.1            | <0.005        | <0.005   | <0.005   | <0.005   | <0.005   |
| Arsenic                         | mg/L  | 0.013          | <0.001        | <0.001   | <0.001   | <0.001   | <0.001   |
| Barium                          | mg/L  | 0.088          | 0.026         | 0.033    | 0.025    | 0.032    | 0.041    |
| Bicarbonate Alkalinity as HCO3  | mg/L  |                | 250.000       | 220.000  | 330.000  | 310.000  | 180.000  |
| Boron                           | mg/L  | 0.37           | 0.300         | 0.230    | 0.500    | 0.410    | 0.220    |
| Cadmium                         | mg/L  | 0.001          | <0.0001       | <0.0001  | <0.0001  | <0.0001  | <0.0001  |
| Calcium                         | mg/L  |                | 37.000        | 35.000   | 43.000   | 40.000   | 35.000   |
| Chloride                        | mg/L  |                | 80.000        | 82.000   | 93.000   | 79.000   | 96.000   |
| Chromium                        | mg/L  | 0.001          | <0.001        | <0.001   | <0.001   | <0.001   | <0.001   |
| Copper                          | mg/L  | 0.01           | <0.001        | <0.001   | <0.001   | <0.001   | <0.001   |
| Electrical Conductivity at 25°C | µS/cm | 90-1000        | 690.000       | 730.000  | 840.000  | 860.000  | 760.000  |
| Fluoride                        | mg/L  |                | 0.500         | 0.500    | 0.500    | 0.500    | 0.700    |
| Iron Sol.                       | mg/L  | 0.3            | <0.005        | <0.005   | <0.005   | <0.005   | <0.005   |
| Lead                            | mg/L  | 0.005          | <0.001        | <0.001   | <0.001   | <0.001   | <0.001   |
| Magnesium                       | mg/L  |                | 31.000        | 30.000   | 41.000   | 40.000   | 30.000   |
| Manganese                       | mg/L  | 1.9            | <0.001        | <0.001   | <0.001   | <0.001   | <0.001   |
| Mercury                         | mg/L  | 0.0006         | <0.00005      | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Molybdenum                      | mg/L  | 0.034          | <0.001        | <0.001   | <0.001   | <0.001   | <0.001   |
| Nickel                          | mg/L  | 0.11           | <0.001        | <0.001   | <0.001   | <0.001   | <0.001   |
| Nitrate as NO3                  | mg/L  | 4.0            | 14.000        | 28.000   | 40.000   | 42.000   | 37.000   |
| pH                              | pH    | 6.5-8.0        | 7.700         | 7.900    | 8.100    | 8.200    | 8.300    |
| Potassium                       | mg/L  |                | 4.800         | 4.900    | 4.700    | 4.800    | 5.000    |
| Reactive Silica as SiO2         | mg/L  |                | 52.000        | 49.000   | 55.000   | 54.000   | 45.000   |
| Selenium                        | mg/L  | 0.011          | 0.001         | <0.001   | 0.001    | <0.001   | <0.001   |
| Silica                          | mg/L  |                | 44.000        | 43.000   | 48.000   | 49.000   | 40.000   |
| Sodium                          | mg/L  |                | 50.000        | 53.000   | 77.000   | 81.000   | 76.000   |
| Sulphate as SO4 2-              | mg/L  |                | 40.000        | 43.000   | 44.000   | 44.000   | 54.000   |
| Suspended Solids (SS)           | mg/L  |                | <5            | <5       | <5       | <5       | <5       |
| Total Alkalinity as CaCO3       | mg/L  |                | 200.000       | 180.000  | 270.000  | 250.000  | 150.000  |
| Total Dissolved Solids at 180°C | mg/L  |                | 400.000       | 450.000  | 490.000  | 500.000  | 460.000  |
| Total Hardness as CaCO3         | mg/L  |                | 220.000       | 210.000  | 280.000  | 260.000  | 210.000  |
| Zinc                            | mg/L  | 0.072          | 0.038         | <0.005   | <0.005   | <0.005   | <0.005   |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

**Table 10.6: Laboratory Chemistry Results from Production Bores (cont'd)**

| Recording Type Name                        | Unit  | Trigger Values | Eastern 7 |          |          |          |
|--|-------|----------------|-----------|----------|----------|----------|
|  |       |                | HYE0180P  |          | HYE0181P |          |
|  |       |                | Oct - 20  | Mar - 21 | Oct - 20 | Mar - 21 |
| Aluminium                                  | mg/L  | 0.1            | <0.005    | <0.005   | 0.017    | <0.005   |
| Arsenic                                    | mg/L  | 0.013          | <0.001    | <0.001   | <0.001   | <0.001   |
| Barium                                     | mg/L  | 0.088          | 0.017     | 0.020    | 0.026    | 0.035    |
| Bicarbonate Alkalinity as HCO <sub>3</sub> | mg/L  |                | 390.000   | 480.000  | 330.000  | 260.000  |
| Boron                                      | mg/L  | 0.37           | 0.540     | 0.500    | 0.420    | 0.300    |
| Cadmium                                    | mg/L  | 0.001          | <0.0001   | <0.0001  | <0.0001  | <0.0001  |
| Calcium                                    | mg/L  |                | 45.000    | 43.000   | 44.000   | 40.000   |
| Chloride                                   | mg/L  |                | 78.000    | 96.000   | 83.000   | 73.000   |
| Chromium                                   | mg/L  | 0.001          | <0.001    | <0.001   | <0.001   | <0.001   |
| Copper                                     | mg/L  | 0.01           | <0.001    | <0.001   | <0.001   | <0.001   |
| Electrical Conductivity at 25°C            | µS/cm | 90-1000        | 900.000   | 950.000  | 800.000  | 870.000  |
| Fluoride                                   | mg/L  |                | 0.800     | 0.800    | 0.600    | 0.500    |
| Iron Sol.                                  | mg/L  | 0.3            | 0.009     | 0.008    | 0.010    | <0.005   |
| Lead                                       | mg/L  | 0.005          | <0.001    | <0.001   | <0.001   | <0.001   |
| Magnesium                                  | mg/L  |                | 44.000    | 44.000   | 40.000   | 38.000   |
| Manganese                                  | mg/L  | 1.9            | 0.002     | 0.002    | <0.001   | <0.001   |
| Mercury                                    | mg/L  | 0.0006         | <0.00005  | <0.00005 | <0.00005 | <0.00005 |
| Molybdenum                                 | mg/L  | 0.034          | 0.001     | 0.001    | <0.001   | <0.001   |
| Nickel                                     | mg/L  | 0.11           | <0.001    | <0.001   | <0.001   | 0.001    |
| Nitrate as NO <sub>3</sub>                 | mg/L  | 4.0            | 7.600     | 7.100    | 16.000   | 89.000   |
| pH   | pH    | 6.5-8.0        | 8.200     | 8.300    | 8.100    | 8.200    |
| Potassium                                  | mg/L  |                | 5.300     | 5.500    | 5.300    | 5.300    |
| Reactive Silica as SiO <sub>2</sub>        | mg/L  |                | 54.000    | 53.000   | 59.000   | 56.000   |
| Selenium                                   | mg/L  | 0.011          | 0.001     | <0.001   | <0.001   | 0.001    |
| Silica                                     | mg/L  |                | 48.000    | 48.000   | 54.000   | 51.000   |
| Sodium                                     | mg/L  |                | 85.000    | 91.000   | 80.000   | 80.000   |
| Sulphate as SO <sub>4</sub> 2-             | mg/L  |                | 44.000    | 44.000   | 43.000   | 43.000   |
| Suspended Solids (SS)                      | mg/L  |                | <5        | <5       | <5       | <5       |
| Total Alkalinity as CaCO <sub>3</sub>      | mg/L  |                | 320.000   | 400.000  | 270.000  | 220.000  |
| Total Dissolved Solids at 180°C            | mg/L  |                | 510.000   | 540.000  | 480.000  | 530.000  |
| Total Hardness as CaCO <sub>3</sub>        | mg/L  |                | 290.000   | 290.000  | 280.000  | 260.000  |
| Zinc                                       | mg/L  | 0.072          | <0.005    | <0.005   | <0.005   | <0.005   |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

**Table 10.6: Laboratory Chemistry Results from Production Bores**

| Recording Type Name                        | Unit | Trigger Values | Spinifex Camp |          |             |          |
|--|------|----------------|---------------|----------|-------------|----------|
|  |      |                | HNPISP0001P   |          | HNPISP0002P |          |
|  |      |                | Dec - 21      | Jun - 22 | Dec - 21    | Jun - 22 |
| Aluminium                                  | mg/L | 0.1            | <0.005        | 0.007    | <0.005      | <0.005   |
| Arsenic                                    | mg/L | 0.013          | <0.001        | <0.001   | <0.001      | <0.001   |
| Barium                                     | mg/L | 0.088          | 0.083         | 0.081    | 0.083       | 0.083    |
| Bicarbonate Alkalinity as HCO <sub>3</sub> | mg/L |                | 500.000       | 510.000  | 490.000     | 510.000  |
| Boron                                      | mg/L | 0.37           | 0.440         | 0.480    | 0.470       | 0.510    |
| Cadmium                                    | mg/L | 0.001          | <0.0001       | <0.0001  | <0.0001     | <0.0001  |
| Calcium                                    | mg/L |                | 72.000        | 68.000   | 73.000      | 66.000   |
| Chloride                                   | mg/L |                | 110.000       | 110.000  | 130.000     | 130.000  |
| Chromium                                   | mg/L | 0.001          | <0.001        | <0.001   | <0.001      | <0.001   |
| Copper                                     | mg/L | 0.01           | <0.001        | <0.001   | <0.001      | <0.001   |
| Fluoride                                   | mg/L |                | 0.500         | 0.500    | 0.500       | 0.600    |
| Iron Tot.                                  | mg/L |                | <0.005        | 0.007    | <0.005      | 0.009    |
| Lead                                       | mg/L | 0.005          | <0.001        | <0.001   | <0.001      | <0.001   |
| Magnesium                                  | mg/L |                | 62.000        | 60.000   | 65.000      | 60.000   |
| Manganese                                  | mg/L | 1.9            | <0.001        | 0.005    | <0.001      | 0.003    |
| Mercury                                    | mg/L | 0.0006         | <0.00005      | <0.00005 | <0.00005    | <0.00005 |
| Molybdenum                                 | mg/L | 0.034          | <0.001        | <0.001   | <0.001      | <0.001   |
| Nickel                                     | mg/L | 0.11           | <0.001        | <0.001   | <0.001      | 0.002    |
| Nitrate as NO <sub>3</sub>                 | mg/L | 4.0            | 14.000        | 14.000   | 12.000      | 12.000   |
| Potassium                                  | mg/L |                | 14.000        | 14.000   | 14.000      | 13.000   |
| Selenium                                   | mg/L | 0.011          | 0.002         | 0.002    | 0.003       | <0.001   |
| Silica                                     | mg/L |                | 74.000        | 71.000   | 73.000      | 66.000   |
| Sodium                                     | mg/L |                | 100.000       | 100.000  | 110.000     | 100.000  |
| Sulphate as SO <sub>4</sub> 2-             | mg/L |                | 60.000        | 61.000   | 71.000      | 74.000   |
| Suspended Solids (SS)                      | mg/L |                | <5            | <5       | <5          | <5       |
| Total Alkalinity as CaCO <sub>3</sub>      | mg/L |                | 410.000       | 420.000  | 400.000     | 420.000  |
| Total Dissolved Solids at 180°C            | mg/L |                | 680.000       | 690.000  | 730.000     | 760.000  |
| Total Hardness as CaCO <sub>3</sub>        | mg/L |                | 430.000       | 420.000  | 450.000     | 410.000  |
| Zinc                                       | mg/L | 0.072          | <0.005        | <0.005   | <0.005      | <0.005   |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

**Table 10.6: Laboratory Chemistry Results from Production Bores (cont'd)**

| Recording Type Name                        | Unit  | Trigger Values | Western 1 |          |          |          |
|--|-------|----------------|-----------|----------|----------|----------|
|  |       |                | HYW0010P  | HYW0180P | HYW0212P | SYAN0043 |
|  |       |                | Sep - 21  | Jun - 22 | Sep - 21 | Jun - 22 |
| Aluminium                                  | mg/L  | 0.1            | <0.005    | <0.005   | <0.005   | <0.005   |
| Arsenic                                    | mg/L  | 0.013          | <0.001    | <0.001   | <0.001   | <0.001   |
| Barium                                     | mg/L  | 0.088          | 0.081     | 0.080    | 0.077    | 0.084    |
| Bicarbonate Alkalinity as HCO <sub>3</sub> | mg/L  |                | 490.000   | 500.000  | 380.000  | 360.000  |
| Boron                                      | mg/L  | 0.37           | 0.370     | 0.560    | 0.380    | 0.410    |
| Cadmium                                    | mg/L  | 0.001          | <0.0001   | <0.0001  | <0.0001  | <0.0001  |
| Calcium                                    | mg/L  |                | 66.000    | 66.000   | 64.000   | 72.000   |
| Chloride                                   | mg/L  |                | 120.000   | 130.000  | 140.000  | 160.000  |
| Chromium                                   | mg/L  | 0.001          | <0.001    | <0.001   | <0.001   | <0.001   |
| Copper                                     | mg/L  | 0.01           | <0.001    | <0.001   | <0.001   | <0.001   |
| Electrical Conductivity at 25°C            | µS/cm | 90-1000        | 1200.000  | 1200.000 | 1200.000 | 1200.000 |
| Fluoride                                   | mg/L  |                | 0.600     | 0.700    | 0.600    | 0.600    |
| Iron Sol.                                  | mg/L  | 0.3            | <0.005    | <0.005   | <0.005   | <0.005   |
| Lead                                       | mg/L  | 0.005          | <0.001    | <0.001   | <0.001   | <0.001   |
| Magnesium                                  | mg/L  |                | 61.000    | 60.000   | 56.000   | 62.000   |
| Manganese                                  | mg/L  | 1.9            | <0.001    | <0.001   | <0.001   | <0.001   |
| Mercury                                    | mg/L  | 0.0006         | <0.00005  | <0.00005 | <0.00005 | <0.00005 |
| Molybdenum                                 | mg/L  | 0.034          | <0.001    | <0.001   | <0.001   | <0.001   |
| Nickel                                     | mg/L  | 0.11           | <0.001    | <0.001   | <0.001   | <0.001   |
| Nitrate as N                               | mg/L  | 0.9            | 2.900     |          | 14.000   |          |
| Nitrate as NO <sub>3</sub>                 | mg/L  | 4.0            |           | 10.000   |          | 66.000   |
| pH   | pH    | 6.5-8.0        | 8.100     | 7.900    | 8.200    | 7.900    |
| Potassium                                  | mg/L  |                | 13.000    | 13.000   | 13.000   | 14.000   |
| Reactive Silica as SiO <sub>2</sub>        | mg/L  |                | 70.000    | 72.000   | 66.000   | 70.000   |
| Selenium                                   | mg/L  | 0.011          | 0.002     | 0.002    | 0.001    | 0.001    |
| Silica                                     | mg/L  |                | 68.000    | 68.000   | 64.000   | 67.000   |
| Sodium                                     | mg/L  |                | 100.000   | 100.000  | 96.000   | 100.000  |
| Sulphate as SO <sub>4</sub> 2-             | mg/L  |                | 67.000    | 68.000   | 67.000   | 75.000   |
| Suspended Solids (SS)                      | mg/L  |                | <5        | <5       | <5       | <5       |
| Total Alkalinity as CaCO <sub>3</sub>      | mg/L  |                | 400.000   | 410.000  | 310.000  | 300.000  |
| Total Dissolved Solids at 180°C            | mg/L  |                | 710.000   | 710.000  | 710.000  | 770.000  |
| Total Hardness as CaCO <sub>3</sub>        | mg/L  |                | 420.000   | 410.000  | 390.000  | 430.000  |
| Zinc                                       | mg/L  | 0.072          | <0.005    | <0.005   | <0.005   | <0.005   |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

**Table 10.6: Laboratory Chemistry Results from Production Bores (cont'd)**

| Recording Type Name             | Unit  | Trigger Values | Western 2 |          |          |          |
|---------------------------------|-------|----------------|-----------|----------|----------|----------|
|                                 |       |                | HYW0237P  |          | HYW0238P |          |
|                                 |       |                | Sep - 21  | Jun - 22 | Sep - 21 | Jun - 22 |
| Aluminium                       | mg/L  | 0.1            | <0.005    | <0.005   | <0.005   | <0.005   |
| Arsenic                         | mg/L  | 0.013          | <0.001    | <0.001   | <0.001   | <0.001   |
| Barium                          | mg/L  | 0.088          | 0.083     | 0.085    | 0.079    | 0.084    |
| Bicarbonate Alkalinity as HCO3  | mg/L  |                | 460.000   | 470.000  | 470.000  | 480.000  |
| Boron                           | mg/L  | 0.37           | 0.410     | 0.450    | 0.390    | 0.440    |
| Cadmium                         | mg/L  | 0.001          | <0.0001   | <0.0001  | <0.0001  | <0.0001  |
| Calcium                         | mg/L  |                | 68.000    | 73.000   | 67.000   | 73.000   |
| Chloride                        | mg/L  |                | 150.000   | 160.000  | 140.000  | 140.000  |
| Chromium                        | mg/L  | 0.001          | <0.001    | <0.001   | <0.001   | <0.001   |
| Copper                          | mg/L  | 0.01           | <0.001    | <0.001   | <0.001   | <0.001   |
| Electrical Conductivity at 25°C | µS/cm | 90-1000        | 1200.000  | 1200.000 | 1200.000 | 1200.000 |
| Fluoride                        | mg/L  |                | 0.600     | 0.600    | 0.600    | 0.600    |
| Iron Sol.                       | mg/L  | 0.3            | 0.006     | 0.007    | <0.005   | <0.005   |
| Lead                            | mg/L  | 0.005          | <0.001    | <0.001   | <0.001   | <0.001   |
| Magnesium                       | mg/L  |                | 61.000    | 64.000   | 61.000   | 64.000   |
| Manganese                       | mg/L  | 1.9            | <0.001    | <0.001   | <0.001   | <0.001   |
| Mercury                         | mg/L  | 0.0006         | <0.00005  | <0.00005 | <0.00005 | <0.00005 |
| Molybdenum                      | mg/L  | 0.034          | <0.001    | <0.001   | <0.001   | <0.001   |
| Nickel                          | mg/L  | 0.11           | <0.001    | <0.001   | <0.001   | <0.001   |
| Nitrate as N                    | mg/L  | 0.9            | 2.000     |          | 2.400    |          |
| Nitrate as NO3                  | mg/L  | 4.0            |           | 8.500    |          | 10.000   |
| pH                              | pH    | 6.5-8.0        | 8.100     | 7.900    | 8.100    | 7.900    |
| Potassium                       | mg/L  |                | 13.000    | 13.000   | 13.000   | 13.000   |
| Reactive Silica as SiO2         | mg/L  |                | 67.000    | 69.000   | 67.000   | 71.000   |
| Selenium                        | mg/L  | 0.011          | 0.002     | 0.002    | 0.002    | 0.003    |
| Silica                          | mg/L  |                | 65.000    | 68.000   | 65.000   | 69.000   |
| Sodium                          | mg/L  |                | 100.000   | 110.000  | 100.000  | 110.000  |
| Sulphate as SO4 2-              | mg/L  |                | 73.000    | 75.000   | 69.000   | 71.000   |
| Suspended Solids (SS)           | mg/L  |                | <5        | 27.000   | <5       | <5       |
| Total Alkalinity as CaCO3       | mg/L  |                | 380.000   | 390.000  | 390.000  | 390.000  |
| Total Dissolved Solids at 180°C | mg/L  |                | 720.000   | 750.000  | 710.000  | 730.000  |
| Total Hardness as CaCO3         | mg/L  |                | 420.000   | 450.000  | 420.000  | 450.000  |
| Zinc                            | mg/L  | 0.072          | <0.005    | 0.013    | <0.005   | <0.005   |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

**Table 10.6: Laboratory Chemistry Results from Production Bores (cont'd)**

| Recording Type Name                        | Unit  | Trigger Values | Western 3 |          |
|--|-------|----------------|-----------|----------|
|  |       |                | HYW1015P  | HYW1016P |
| Aluminium                                  | mg/L  | 0.1            | <0.005    | <0.005   |
| Arsenic                                    | mg/L  | 0.013          | <0.001    | <0.001   |
| Barium                                     | mg/L  | 0.088          | 0.058     | 0.060    |
| Bicarbonate Alkalinity as HCO <sub>3</sub> | mg/L  |                | 380.000   | 420.000  |
| Boron                                      | mg/L  | 0.37           | 0.470     | 0.460    |
| Cadmium                                    | mg/L  | 0.001          | <0.0001   | <0.0001  |
| Calcium                                    | mg/L  |                | 61.000    | 64.000   |
| Chloride                                   | mg/L  |                | 150.000   | 150.000  |
| Chromium                                   | mg/L  | 0.001          | <0.001    | <0.001   |
| Copper                                     | mg/L  | 0.01           | <0.001    | <0.001   |
| Electrical Conductivity at 25°C            | µS/cm | 90-1000        | 1100.000  | 1200.000 |
| Fluoride                                   | mg/L  |                | 0.500     | 0.500    |
| Iron Sol.                                  | mg/L  | 0.3            | 0.016     | 0.014    |
| Lead                                       | mg/L  | 0.005          | <0.001    | <0.001   |
| Magnesium                                  | mg/L  |                | 57.000    | 57.000   |
| Manganese                                  | mg/L  | 1.9            | 0.008     | 0.007    |
| Mercury                                    | mg/L  | 0.0006         | <0.00005  | <0.00005 |
| Molybdenum                                 | mg/L  | 0.034          | <0.001    | <0.001   |
| Nickel                                     | mg/L  | 0.11           | <0.001    | <0.001   |
| Nitrate as NO <sub>3</sub>                 | mg/L  | 4.0            | 7.300     | 9.500    |
| pH   | pH    | 6.5-8.0        | 8.500     | 8.400    |
| Potassium                                  | mg/L  |                | 11.000    | 12.000   |
| Selenium                                   | mg/L  | 0.011          | 0.002     | 0.002    |
| Silica                                     | mg/L  |                | 59.000    | 59.000   |
| Sodium                                     | mg/L  |                | 110.000   | 110.000  |
| Sulphate as SO <sub>4</sub> 2-             | mg/L  |                | 69.000    | 71.000   |
| Suspended Solids (SS)                      | mg/L  |                | 5.000     | 10.000   |
| Total Alkalinity as CaCO <sub>3</sub>      | mg/L  |                | 330.000   | 350.000  |
| Total Dissolved Solids at 180°C            | mg/L  |                | 690.000   | 750.000  |
| Total Hardness as CaCO <sub>3</sub>        | mg/L  |                | 390.000   | 400.000  |
| Zinc                                       | mg/L  | 0.072          | <0.005    | <0.005   |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

**Table 10.6: Laboratory Chemistry Results from Production Bores (cont'd)**

| Recording Type Name                        | Unit  | Trigger Values | Western 4 |          |          |          |
|--|-------|----------------|-----------|----------|----------|----------|
|  |       |                | HYW0030P  |          | HYW0051P |          |
|  |       |                | Sep - 21  | Jun - 22 | Sep - 21 | Jun - 22 |
| Aluminium                                  | mg/L  | 0.1            | <0.005    | <0.005   | <0.005   | <0.005   |
| Arsenic                                    | mg/L  | 0.013          | <0.001    | <0.001   | <0.001   | <0.001   |
| Barium                                     | mg/L  | 0.088          | 0.057     | 0.055    | 0.046    | 0.045    |
| Bicarbonate Alkalinity as HCO <sub>3</sub> | mg/L  |                | 340.000   | 330.000  | 300.000  | 290.000  |
| Boron                                      | mg/L  | 0.37           | 0.290     | 0.330    | 0.280    | 0.330    |
| Cadmium                                    | mg/L  | 0.001          | <0.0001   | <0.0001  | <0.0001  | <0.0001  |
| Calcium                                    | mg/L  |                | 51.000    | 50.000   | 43.000   | 44.000   |
| Chloride                                   | mg/L  |                | 110.000   | 110.000  | 100.000  | 100.000  |
| Chromium                                   | mg/L  | 0.001          | <0.001    | <0.001   | <0.001   | <0.001   |
| Copper                                     | mg/L  | 0.01           | <0.001    | <0.001   | <0.001   | <0.001   |
| Electrical Conductivity at 25°C            | µS/cm | 90-1000        | 930.000   | 870.000  | 830.000  | 800.000  |
| Fluoride                                   | mg/L  |                | 0.500     | 0.600    | 0.500    | 0.600    |
| Iron Sol.                                  | mg/L  | 0.3            | <0.005    | <0.005   | <0.005   | <0.005   |
| Lead                                       | mg/L  | 0.005          | <0.001    | <0.001   | <0.001   | <0.001   |
| Magnesium                                  | mg/L  |                | 45.000    | 43.000   | 39.000   | 40.000   |
| Manganese                                  | mg/L  | 1.9            | <0.001    | <0.001   | <0.001   | <0.001   |
| Mercury                                    | mg/L  | 0.0006         | <0.00005  | <0.00005 | <0.00005 | <0.00005 |
| Molybdenum                                 | mg/L  | 0.034          | <0.001    | <0.001   | <0.001   | <0.001   |
| Nickel                                     | mg/L  | 0.11           | <0.001    | <0.001   | <0.001   | <0.001   |
| Nitrate as N                               | mg/L  | 0.9            | 1.500     |          | 1.200    |          |
| Nitrate as NO <sub>3</sub>                 | mg/L  | 4.0            |           | 6.400    |          | 5.100    |
| pH   | pH    | 6.5-8.0        | 8.000     | 7.900    | 8.000    | 8.200    |
| Potassium                                  | mg/L  |                | 9.200     | 9.200    | 8.300    | 8.600    |
| Reactive Silica as SiO <sub>2</sub>        | mg/L  |                | 61.000    | 63.000   | 60.000   | 63.000   |
| Selenium                                   | mg/L  | 0.011          | 0.001     | 0.001    | 0.001    | 0.001    |
| Silica                                     | mg/L  |                | 59.000    | 61.000   | 57.000   | 61.000   |
| Sodium                                     | mg/L  |                | 86.000    | 84.000   | 81.000   | 83.000   |
| Sulphate as SO <sub>4</sub> 2-             | mg/L  |                | 55.000    | 56.000   | 50.000   | 51.000   |
| Suspended Solids (SS)                      | mg/L  |                | <5        | <5       | <5       | <5       |
| Total Alkalinity as CaCO <sub>3</sub>      | mg/L  |                | 280.000   | 270.000  | 250.000  | 240.000  |
| Total Dissolved Solids at 180°C            | mg/L  |                | 560.000   | 530.000  | 510.000  | 490.000  |
| Total Hardness as CaCO <sub>3</sub>        | mg/L  |                | 310.000   | 300.000  | 270.000  | 270.000  |
| Zinc                                       | mg/L  | 0.072          | <0.005    | <0.005   | <0.005   | 0.063    |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

**Table 10.6: Laboratory Chemistry Results from Production Bores (cont'd)**

| Recording Type Name             | Unit  | Trigger Values | Western 5 |          |          |          |
|---------------------------------|-------|----------------|-----------|----------|----------|----------|
|                                 |       |                | HYW0132P  |          | HYW0134P |          |
|                                 |       |                | Sep - 21  | Jun - 22 | Sep - 21 | Jun - 22 |
| Aluminium                       | mg/L  | 0.1            | <0.005    | <0.005   | <0.005   | <0.005   |
| Arsenic                         | mg/L  | 0.013          | <0.001    | <0.001   | <0.001   | <0.001   |
| Barium                          | mg/L  | 0.088          | 0.064     | 0.067    | 0.056    | 0.060    |
| Bicarbonate Alkalinity as HCO3  | mg/L  |                | 390.000   | 390.000  | 400.000  | 410.000  |
| Boron                           | mg/L  | 0.37           | 0.330     | 0.430    | 0.310    | 0.400    |
| Cadmium                         | mg/L  | 0.001          | <0.0001   | <0.0001  | <0.0001  | <0.0001  |
| Calcium                         | mg/L  |                | 57.000    | 57.000   | 56.000   | 56.000   |
| Chloride                        | mg/L  |                | 140.000   | 150.000  | 130.000  | 130.000  |
| Chromium                        | mg/L  | 0.001          | <0.001    | <0.001   | <0.001   | <0.001   |
| Copper                          | mg/L  | 0.01           | <0.001    | <0.001   | <0.001   | <0.001   |
| Electrical Conductivity at 25°C | µS/cm | 90-1000        | 1100.000  | 1100.000 | 1100.000 | 1100.000 |
| Fluoride                        | mg/L  |                | 0.500     | 0.500    | 0.500    | 0.500    |
| Iron Sol.                       | mg/L  | 0.3            | <0.005    | <0.005   | <0.005   | <0.005   |
| Lead                            | mg/L  | 0.005          | <0.001    | <0.001   | <0.001   | <0.001   |
| Magnesium                       | mg/L  |                | 52.000    | 51.000   | 52.000   | 52.000   |
| Manganese                       | mg/L  | 1.9            | <0.001    | <0.001   | <0.001   | <0.001   |
| Mercury                         | mg/L  | 0.0006         | <0.00005  | <0.00005 | <0.00005 | <0.00005 |
| Molybdenum                      | mg/L  | 0.034          | <0.001    | <0.001   | <0.001   | <0.001   |
| Nickel                          | mg/L  | 0.11           | <0.001    | <0.001   | <0.001   | <0.001   |
| Nitrate as N                    | mg/L  | 0.9            | 1.400     |          | 2.500    |          |
| Nitrate as NO3                  | mg/L  | 4.0            |           | 6.200    |          | 12.000   |
| pH                              | pH    | 6.5-8.0        | 8.000     | 7.700    | 8.100    | 7.700    |
| Potassium                       | mg/L  |                | 9.600     | 9.700    | 8.600    | 8.600    |
| Reactive Silica as SiO2         | mg/L  |                | 61.000    | 63.000   | 59.000   | 62.000   |
| Selenium                        | mg/L  | 0.011          | 0.002     | 0.002    | 0.002    | 0.003    |
| Silica                          | mg/L  |                | 58.000    | 58.000   | 57.000   | 57.000   |
| Sodium                          | mg/L  |                | 99.000    | 100.000  | 99.000   | 100.000  |
| Sulphate as SO4 2-              | mg/L  |                | 63.000    | 66.000   | 63.000   | 65.000   |
| Suspended Solids (SS)           | mg/L  |                | <5        | <5       | <5       | <5       |
| Total Alkalinity as CaCO3       | mg/L  |                | 320.000   | 320.000  | 330.000  | 330.000  |
| Total Dissolved Solids at 180°C | mg/L  |                | 650.000   | 630.000  | 640.000  | 630.000  |
| Total Hardness as CaCO3         | mg/L  |                | 360.000   | 350.000  | 360.000  | 350.000  |
| Zinc                            | mg/L  | 0.072          | <0.005    | <0.005   | <0.005   | <0.005   |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

**Table 10.6: Laboratory Chemistry Results from Production Bores (cont'd)**

| Recording Type Name             | Unit  | Trigger Values | Western 6 |          |          |          |          |          |          |
|---------------------------------|-------|----------------|-----------|----------|----------|----------|----------|----------|----------|
|                                 |       |                | HYW0175P  | HYW0176P |          | HYW0355P | HYW1021P | HYW1024P | SYAN0040 |
|                                 |       |                | Sep - 21  | Sep - 21 | Jun - 22 | Jun - 22 | Mar - 22 | Mar - 22 | Sep - 21 |
| Aluminium                       | mg/L  | 0.1            | <0.005    | <0.005   | <0.005   | <0.005   | <0.005   | <0.005   | <0.005   |
| Arsenic                         | mg/L  | 0.013          | <0.001    | <0.001   | <0.001   | <0.001   | <0.001   | 0.002    | <0.001   |
| Barium                          | mg/L  | 0.088          | 0.052     | 0.015    | 0.016    | 0.053    | 0.010    | 0.018    | 0.025    |
| Bicarbonate Alkalinity as HCO3  | mg/L  |                | 500.000   | 510.000  | 520.000  | 380.000  | 510.000  | 430.000  | 420.000  |
| Boron                           | mg/L  | 0.37           | 0.450     | 0.830    | 0.830    | 0.420    | 0.900    | 0.770    | 0.560    |
| Cadmium                         | mg/L  | 0.001          | <0.0001   | <0.0001  | <0.0001  | <0.0001  | <0.0001  | <0.0001  | <0.0001  |
| Calcium                         | mg/L  |                | 61.000    | 51.000   | 56.000   | 54.000   | 47.000   | 61.000   | 56.000   |
| Chloride                        | mg/L  |                | 170.000   | 180.000  | 190.000  | 140.000  | 170.000  | 140.000  | 160.000  |
| Chromium                        | mg/L  | 0.001          | <0.001    | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Copper                          | mg/L  | 0.01           | <0.001    | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Electrical Conductivity at 25°C | µS/cm | 90-1000        | 1300.000  | 1400.000 | 1400.000 | 1000.000 | 1400.000 | 1200.000 | 1200.000 |
| Fluoride                        | mg/L  |                | 0.500     | 0.600    | 0.600    | 0.500    | 0.700    | 0.600    | 0.700    |
| Iron Sol.                       | mg/L  | 0.3            | <0.005    | <0.005   | <0.005   | <0.005   | <0.005   | 0.009    | <0.005   |
| Lead                            | mg/L  | 0.005          | <0.001    | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Magnesium                       | mg/L  |                | 57.000    | 64.000   | 68.000   | 49.000   | 58.000   | 67.000   | 62.000   |
| Manganese                       | mg/L  | 1.9            | <0.001    | <0.001   | <0.001   | <0.001   | 0.006    | 0.041    | <0.001   |
| Mercury                         | mg/L  | 0.0006         | <0.00005  | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Molybdenum                      | mg/L  | 0.034          | <0.001    | <0.001   | <0.001   | <0.001   | <0.001   | 0.001    | <0.001   |
| Nickel                          | mg/L  | 0.11           | 0.004     | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Nitrate as N                    | mg/L  | 0.9            | 5.200     | 13.000   |          |          |          |          | 7.100    |
| Nitrate as NO3                  | mg/L  | 4.0            |           |          | 50.000   | 12.000   | 32.000   | 10.000   |          |
| pH                              | pH    | 6.5-8.0        | 8.100     | 8.200    | 7.800    | 7.600    | 8.400    | 8.300    | 8.200    |
| Potassium                       | mg/L  |                | 7.500     | 3.700    | 3.700    | 7.500    | 3.700    | 4.800    | 4.000    |
| Reactive Silica as SiO2         | mg/L  |                | 56.000    | 60.000   | 64.000   | 60.000   | 61.000   | 53.000   | 53.000   |
| Selenium                        | mg/L  | 0.011          | 0.002     | 0.002    | 0.003    | 0.002    | 0.001    | 0.001    | <0.001   |
| Silica                          | mg/L  |                | 53.000    | 59.000   | 60.000   | 54.000   | 56.000   | 50.000   | 50.000   |
| Sodium                          | mg/L  |                | 140.000   | 160.000  | 160.000  | 100.000  | 170.000  | 100.000  | 120.000  |
| Sulphate as SO4 2-              | mg/L  |                | 64.000    | 66.000   | 71.000   | 65.000   | 59.000   | 68.000   | 68.000   |
| Suspended Solids (SS)           | mg/L  |                | <5        | <5       | <5       | <5       | 12.000   | 20.000   | 5.000    |
| Total Alkalinity as CaCO3       | mg/L  |                | 410.000   | 410.000  | 430.000  | 310.000  | 440.000  | 360.000  | 340.000  |
| Total Dissolved Solids at 180°C | mg/L  |                | 790.000   | 860.000  | 870.000  | 630.000  | 870.000  | 690.000  | 730.000  |
| Total Hardness as CaCO3         | mg/L  |                | 390.000   | 390.000  | 420.000  | 340.000  | 360.000  | 430.000  | 400.000  |
| Zinc                            | mg/L  | 0.072          | 0.005     | <0.005   | <0.005   | 0.017    | <0.005   | <0.005   | <0.005   |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

**Table 10.6: Laboratory Chemistry Results from Production Bores (cont'd)**

| Recording Type Name                        | Unit  | Trigger Values | Central 1 |          |          |          |
|--|-------|----------------|-----------|----------|----------|----------|
|  |       |                | HYC0012P  |          | HYC0015P |          |
|  |       |                | Sep - 21  | Jun - 22 | Sep - 21 | Jun - 22 |
| Aluminium                                  | mg/L  | 0.1            | <0.005    | <0.005   | <0.005   | <0.005   |
| Arsenic                                    | mg/L  | 0.013          | <0.001    | <0.001   | <0.001   | <0.001   |
| Barium                                     | mg/L  | 0.088          | 0.021     | 0.020    | 0.051    | 0.058    |
| Bicarbonate Alkalinity as HCO <sub>3</sub> | mg/L  |                | 420.000   | 420.000  | 380.000  | 380.000  |
| Boron                                      | mg/L  | 0.37           | 0.650     | 0.580    | 0.420    | 0.430    |
| Cadmium                                    | mg/L  | 0.001          | <0.0001   | <0.0001  | <0.0001  | <0.0001  |
| Calcium                                    | mg/L  |                | 62.000    | 61.000   | 61.000   | 59.000   |
| Chloride                                   | mg/L  |                | 170.000   | 180.000  | 160.000  | 170.000  |
| Chromium                                   | mg/L  | 0.001          | <0.001    | <0.001   | <0.001   | <0.001   |
| Copper                                     | mg/L  | 0.01           | <0.001    | <0.001   | <0.001   | <0.001   |
| Electrical Conductivity at 25°C            | µS/cm | 90-1000        | 1200.000  | 1300.000 | 1200.000 | 1200.000 |
| Fluoride                                   | mg/L  |                | 0.600     | 0.600    | 0.500    | 0.600    |
| Iron Sol.                                  | mg/L  | 0.3            | <0.005    | <0.005   | <0.005   | <0.005   |
| Lead                                       | mg/L  | 0.005          | <0.001    | <0.001   | <0.001   | <0.001   |
| Magnesium                                  | mg/L  |                | 68.000    | 70.000   | 56.000   | 57.000   |
| Manganese                                  | mg/L  | 1.9            | <0.001    | <0.001   | <0.001   | <0.001   |
| Mercury                                    | mg/L  | 0.0006         | <0.00005  | <0.00005 | <0.00005 | <0.00005 |
| Molybdenum                                 | mg/L  | 0.034          | <0.001    | <0.001   | <0.001   | <0.001   |
| Nickel                                     | mg/L  | 0.11           | <0.001    | <0.001   | <0.001   | <0.001   |
| Nitrate as NO <sub>3</sub>                 | mg/L  | 4.0            | 16.000    | 18.000   | 17.000   | 17.000   |
| pH   | pH    | 6.5-8.0        | 7.700     | 7.700    | 7.600    | 7.500    |
| Potassium                                  | mg/L  |                | 6.500     | 6.500    | 7.600    | 7.700    |
| Reactive Silica as SiO <sub>2</sub>        | mg/L  |                | 53.000    | 60.000   | 56.000   | 63.000   |
| Selenium                                   | mg/L  | 0.011          | 0.002     | 0.001    | 0.002    | 0.002    |
| Silica                                     | mg/L  |                | 54.000    | 55.000   | 57.000   | 55.000   |
| Sodium                                     | mg/L  |                | 100.000   | 110.000  | 99.000   | 110.000  |
| Sulphate as SO <sub>4</sub> 2-             | mg/L  |                | 90.000    | 92.000   | 84.000   | 87.000   |
| Suspended Solids (SS)                      | mg/L  |                | <5        | <5       | <5       | <5       |
| Total Alkalinity as CaCO <sub>3</sub>      | mg/L  |                | 350.000   | 350.000  | 310.000  | 310.000  |
| Total Dissolved Solids at 180°C            | mg/L  |                | 710.000   | 750.000  | 680.000  | 720.000  |
| Total Hardness as CaCO <sub>3</sub>        | mg/L  |                | 430.000   | 440.000  | 380.000  | 380.000  |
| Zinc                                       | mg/L  | 0.072          | <0.005    | 0.013    | 0.006    | 0.007    |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

**Table 10.6: Laboratory Chemistry Results from Production Bores (cont'd)**

| Recording Type Name                        | Unit  | Trigger Values | Central 5 |          |          |          |
|--|-------|----------------|-----------|----------|----------|----------|
|  |       |                | HYC0031P  |          | HYC0068P |          |
|  |       |                | Sep - 21  | Jun - 22 | Sep - 21 | Jun - 22 |
| Aluminium                                  | mg/L  | 0.1            | <0.005    | <0.005   | <0.005   | <0.005   |
| Arsenic                                    | mg/L  | 0.013          | <0.001    | <0.001   | <0.001   | <0.001   |
| Barium                                     | mg/L  | 0.088          | 0.033     | 0.037    | 0.026    | 0.029    |
| Bicarbonate Alkalinity as HCO <sub>3</sub> | mg/L  |                | 290.000   | 280.000  | 340.000  | 340.000  |
| Boron                                      | mg/L  | 0.37           | 0.310     | 0.300    | 0.350    | 0.360    |
| Cadmium                                    | mg/L  | 0.001          | <0.0001   | <0.0001  | <0.0001  | <0.0001  |
| Calcium                                    | mg/L  |                | 42.000    | 40.000   | 46.000   | 44.000   |
| Chloride                                   | mg/L  |                | 110.000   | 110.000  | 100.000  | 110.000  |
| Chromium                                   | mg/L  | 0.001          | <0.001    | <0.001   | <0.001   | <0.001   |
| Copper                                     | mg/L  | 0.01           | <0.001    | <0.001   | <0.001   | <0.001   |
| Electrical Conductivity at 25°C            | µS/cm | 90-1000        | 820.000   | 830.000  | 900.000  | 910.000  |
| Fluoride                                   | mg/L  |                | 0.600     | 0.600    | 0.700    | 0.800    |
| Iron Sol.                                  | mg/L  | 0.3            | 0.008     | <0.005   | <0.005   | <0.005   |
| Lead                                       | mg/L  | 0.005          | <0.001    | <0.001   | <0.001   | <0.001   |
| Magnesium                                  | mg/L  |                | 41.000    | 41.000   | 47.000   | 48.000   |
| Manganese                                  | mg/L  | 1.9            | <0.001    | <0.001   | <0.001   | <0.001   |
| Mercury                                    | mg/L  | 0.0006         | <0.00005  | <0.00005 | <0.00005 | <0.00005 |
| Molybdenum                                 | mg/L  | 0.034          | <0.001    | <0.001   | <0.001   | <0.001   |
| Nickel                                     | mg/L  | 0.11           | <0.001    | <0.001   | <0.001   | <0.001   |
| Nitrate as NO <sub>3</sub>                 | mg/L  | 4.0            | 10.000    | 10.000   | 18.000   | 14.000   |
| pH   | pH    | 6.5-8.0        | 8.000     | 7.400    | 8.100    | 7.500    |
| Potassium                                  | mg/L  |                | 6.200     | 6.200    | 6.100    | 6.200    |
| Reactive Silica as SiO <sub>2</sub>        | mg/L  |                | 54.000    | 60.000   | 55.000   | 59.000   |
| Selenium                                   | mg/L  | 0.011          | <0.001    | 0.001    | 0.001    | 0.001    |
| Silica                                     | mg/L  |                | 56.000    | 54.000   | 56.000   | 54.000   |
| Sodium                                     | mg/L  |                | 75.000    | 82.000   | 82.000   | 89.000   |
| Sulphate as SO <sub>4</sub> 2-             | mg/L  |                | 58.000    | 60.000   | 60.000   | 62.000   |
| Suspended Solids (SS)                      | mg/L  |                | <5        | <5       | <5       | <5       |
| Total Alkalinity as CaCO <sub>3</sub>      | mg/L  |                | 230.000   | 230.000  | 280.000  | 280.000  |
| Total Dissolved Solids at 180°C            | mg/L  |                | 480.000   | 510.000  | 540.000  | 550.000  |
| Total Hardness as CaCO <sub>3</sub>        | mg/L  |                | 270.000   | 270.000  | 310.000  | 310.000  |
| Zinc                                       | mg/L  | 0.072          | 0.006     | 0.020    | <0.005   | 0.008    |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

**Table 10.6: Laboratory Chemistry Results from Production Bores (cont'd)**

| Recording Type Name                        | Unit  | Trigger Values | Eastern 1 & 2 |          |          |          |          |          |          |          |
|--|-------|----------------|---------------|----------|----------|----------|----------|----------|----------|----------|
|  |       |                | HYE0023P      |          | HYE0051P |          | HYE0193P |          | HYE0194P |          |
|  |       |                | Sep - 21      | Jun - 22 | Sep - 21 | Jun - 22 | Sep - 21 | Jun - 22 | Sep - 21 | Jun - 22 |
| Aluminium                                  | mg/L  | 0.1            | <0.005        | <0.005   | <0.005   | <0.005   | <0.005   | <0.005   | <0.005   | <0.005   |
| Arsenic                                    | mg/L  | 0.013          | <0.001        | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Barium                                     | mg/L  | 0.088          | 0.036         | 0.040    | 0.036    | 0.042    | 0.036    | 0.041    | 0.040    | 0.043    |
| Bicarbonate Alkalinity as HCO <sub>3</sub> | mg/L  |                | 340.000       | 330.000  | 290.000  | 280.000  | 310.000  | 310.000  | 320.000  | 320.000  |
| Boron                                      | mg/L  | 0.37           | 0.380         | 0.380    | 0.350    | 0.340    | 0.300    | 0.290    | 0.300    | 0.280    |
| Cadmium                                    | mg/L  | 0.001          | <0.0001       | <0.0001  | <0.0001  | <0.0001  | <0.0001  | <0.0001  | <0.0001  | <0.0001  |
| Calcium                                    | mg/L  |                | 51.000        | 50.000   | 45.000   | 43.000   | 49.000   | 45.000   | 47.000   | 45.000   |
| Chloride                                   | mg/L  |                | 130.000       | 130.000  | 120.000  | 130.000  | 130.000  | 130.000  | 120.000  | 120.000  |
| Chromium                                   | mg/L  | 0.001          | <0.001        | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Copper                                     | mg/L  | 0.01           | <0.001        | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Electrical Conductivity at 25°C            | µS/cm | 90-1000        | 940.000       | 940.000  | 890.000  | 880.000  | 940.000  | 930.000  | 920.000  | 900.000  |
| Fluoride                                   | mg/L  |                | 0.500         | 0.600    | 0.400    | 0.500    | 0.400    | 0.400    | 0.400    | 0.400    |
| Iron Sol.                                  | mg/L  | 0.3            | <0.005        | <0.005   | <0.005   | <0.005   | <0.005   | <0.005   | 0.006    | <0.005   |
| Lead                                       | mg/L  | 0.005          | <0.001        | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Magnesium                                  | mg/L  |                | 49.000        | 50.000   | 42.000   | 42.000   | 45.000   | 43.000   | 44.000   | 43.000   |
| Manganese                                  | mg/L  | 1.9            | <0.001        | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | 0.002    | <0.001   |
| Mercury                                    | mg/L  | 0.0006         | <0.00005      | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Molybdenum                                 | mg/L  | 0.034          | <0.001        | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Nickel                                     | mg/L  | 0.11           | <0.001        | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Nitrate as NO <sub>3</sub>                 | mg/L  | 4.0            | 6.800         | 6.500    | 19.000   | 18.000   | 9.000    | 8.800    | 13.000   | 11.000   |
| pH   | pH    | 6.5-8.0        | 7.900         | 7.600    | 7.900    | 7.500    | 7.700    | 8.000    | 7.700    | 7.600    |
| Potassium                                  | mg/L  |                | 6.100         | 6.300    | 5.900    | 6.000    | 6.400    | 6.400    | 6.400    | 6.400    |
| Reactive Silica as SiO <sub>2</sub>        | mg/L  |                | 50.000        | 56.000   | 50.000   | 55.000   | 48.000   | 53.000   | 50.000   | 54.000   |
| Selenium                                   | mg/L  | 0.011          | 0.001         | 0.001    | <0.001   | <0.001   | 0.001    | 0.001    | <0.001   | 0.002    |
| Silica                                     | mg/L  |                | 51.000        | 50.000   | 50.000   | 50.000   | 49.000   | 46.000   | 50.000   | 49.000   |
| Sodium                                     | mg/L  |                | 81.000        | 89.000   | 77.000   | 85.000   | 88.000   | 93.000   | 82.000   | 90.000   |
| Sulphate as SO <sub>4</sub> 2-             | mg/L  |                | 55.000        | 56.000   | 51.000   | 52.000   | 68.000   | 69.000   | 57.000   | 59.000   |
| Suspended Solids (SS)                      | mg/L  |                | <5            | <5       | <5       | <5       | <5       | <5       | <5       | <5       |
| Total Alkalinity as CaCO <sub>3</sub>      | mg/L  |                | 280.000       | 270.000  | 240.000  | 230.000  | 260.000  | 250.000  | 260.000  | 260.000  |
| Total Dissolved Solids at 180°C            | mg/L  |                | 550.000       | 560.000  | 520.000  | 530.000  | 540.000  | 550.000  | 520.000  | 540.000  |
| Total Hardness as CaCO <sub>3</sub>        | mg/L  |                | 330.000       | 330.000  | 280.000  | 280.000  | 310.000  | 290.000  | 300.000  | 290.000  |
| Zinc                                       | mg/L  | 0.072          | <0.005        | 0.012    | <0.005   | <0.005   | 0.007    | 0.010    | 0.023    | 0.014    |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

**Table 10.6: Laboratory Chemistry Results from Production Bores (cont'd)**

| Recording Type Name                        | Unit  | Trigger Values | Eastern 4 |          |          |          |
|--|-------|----------------|-----------|----------|----------|----------|
|  |       |                | HYE1518P  | HYE1519P | HYE1523P |          |
| Aluminium                                  | mg/L  | 0.1            | <0.005    | <0.005   | <0.005   | <0.005   |
| Arsenic                                    | mg/L  | 0.013          | <0.001    | <0.001   | <0.001   | <0.001   |
| Barium                                     | mg/L  | 0.088          | 0.016     | 0.050    | 0.019    | 0.014    |
| Bicarbonate Alkalinity as HCO <sub>3</sub> | mg/L  |                | 380.000   | 260.000  | 520.000  | 490.000  |
| Boron                                      | mg/L  | 0.37           | 0.300     | 0.190    | 0.460    | 0.390    |
| Cadmium                                    | mg/L  | 0.001          | <0.0001   | <0.0001  | <0.0001  | <0.0001  |
| Calcium                                    | mg/L  |                | 51.000    | 47.000   | 59.000   | 55.000   |
| Chloride                                   | mg/L  |                | 72.000    | 46.000   | 100.000  | 84.000   |
| Chromium                                   | mg/L  | 0.001          | <0.001    | <0.001   | <0.001   | <0.001   |
| Copper                                     | mg/L  | 0.01           | <0.001    | <0.001   | 0.002    | <0.001   |
| Electrical Conductivity at 25°C            | µS/cm | 90-1000        | 940.000   | 640.000  | 1100.000 | 1000.000 |
| Fluoride                                   | mg/L  |                | 0.500     | 0.200    | 0.600    | 0.600    |
| Iron Sol.                                  | mg/L  | 0.3            | 0.017     | <0.005   | 0.008    | <0.005   |
| Lead                                       | mg/L  | 0.005          | <0.001    | <0.001   | 0.045    | <0.001   |
| Magnesium                                  | mg/L  |                | 53.000    | 29.000   | 67.000   | 60.000   |
| Manganese                                  | mg/L  | 1.9            | 0.015     | 0.012    | 0.020    | 0.002    |
| Mercury                                    | mg/L  | 0.0006         | <0.00005  | <0.00005 | <0.00005 | <0.00005 |
| Molybdenum                                 | mg/L  | 0.034          | 0.001     | <0.001   | 0.002    | <0.001   |
| Nickel                                     | mg/L  | 0.11           | <0.001    | <0.001   | 0.001    | <0.001   |
| Nitrate as NO <sub>3</sub>                 | mg/L  | 4.0            | 77.000    | 6.900    | 16.000   | 57.000   |
| pH   | pH    | 6.5-8.0        | 8.400     | 8.300    | 8.400    | 8.100    |
| Potassium                                  | mg/L  |                | 1.300     | 6.400    | 2.100    | 1.400    |
| Reactive Silica as SiO <sub>2</sub>        | mg/L  |                |           |          |          | 68.000   |
| Selenium                                   | mg/L  | 0.011          | 0.002     | 0.001    | 0.002    | 0.001    |
| Silica                                     | mg/L  |                | 66.000    | 39.000   | 61.000   | 64.000   |
| Sodium                                     | mg/L  |                | 83.000    | 35.000   | 110.000  | 94.000   |
| Sulphate as SO <sub>4</sub> 2-             | mg/L  |                | 23.000    | 59.000   | 38.000   | 31.000   |
| Suspended Solids (SS)                      | mg/L  |                | <5        | 13.000   | 27.000   | <5       |
| Total Alkalinity as CaCO <sub>3</sub>      | mg/L  |                | 320.000   | 220.000  | 450.000  | 400.000  |
| Total Dissolved Solids at 180°C            | mg/L  |                | 610.000   | 390.000  | 700.000  | 660.000  |
| Total Hardness as CaCO <sub>3</sub>        | mg/L  |                | 340.000   | 240.000  | 420.000  | 390.000  |
| Zinc                                       | mg/L  | 0.072          | <0.005    | <0.005   | <0.005   | 0.005    |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

**Table 10.6: Laboratory Chemistry Results from Production Bores (cont'd)**

| Recording Type Name             | Unit  | Trigger Values | Eastern 3,5,6 |          |          |          |
|---------------------------------|-------|----------------|---------------|----------|----------|----------|
|                                 |       |                | HYE0027P      |          | HYE0055P |          |
|                                 |       |                | Sep - 21      | Jun - 22 | Sep - 21 | Jun - 22 |
| Aluminium                       | mg/L  | 0.1            | <0.005        | <0.005   | <0.005   | <0.005   |
| Arsenic                         | mg/L  | 0.013          | <0.001        | <0.001   | <0.001   | <0.001   |
| Barium                          | mg/L  | 0.088          | 0.027         | 0.032    | 0.028    | 0.030    |
| Bicarbonate Alkalinity as HCO3  | mg/L  |                | 250.000       | 240.000  | 320.000  | 320.000  |
| Boron                           | mg/L  | 0.37           | 0.290         | 0.260    | 0.510    | 0.500    |
| Cadmium                         | mg/L  | 0.001          | <0.0001       | <0.0001  | <0.0001  | <0.0001  |
| Calcium                         | mg/L  |                | 37.000        | 37.000   | 43.000   | 41.000   |
| Chloride                        | mg/L  |                | 76.000        | 79.000   | 79.000   | 81.000   |
| Chromium                        | mg/L  | 0.001          | <0.001        | <0.001   | <0.001   | <0.001   |
| Copper                          | mg/L  | 0.01           | <0.001        | <0.001   | <0.001   | <0.001   |
| Electrical Conductivity at 25°C | µS/cm | 90-1000        | 670.000       | 660.000  | 830.000  | 830.000  |
| Fluoride                        | mg/L  |                | 0.500         | 0.500    | 0.500    | 0.600    |
| Iron Sol.                       | mg/L  | 0.3            | 0.005         | <0.005   | <0.005   | <0.005   |
| Lead                            | mg/L  | 0.005          | <0.001        | <0.001   | <0.001   | <0.001   |
| Magnesium                       | mg/L  |                | 31.000        | 32.000   | 41.000   | 42.000   |
| Manganese                       | mg/L  | 1.9            | <0.001        | <0.001   | <0.001   | <0.001   |
| Mercury                         | mg/L  | 0.0006         | <0.00005      | <0.00005 | <0.00005 | <0.00005 |
| Molybdenum                      | mg/L  | 0.034          | <0.001        | <0.001   | <0.001   | <0.001   |
| Nickel                          | mg/L  | 0.11           | <0.001        | <0.001   | <0.001   | <0.001   |
| Nitrate as NO3                  | mg/L  | 4.0            | 14.000        | 11.000   | 44.000   | 42.000   |
| pH                              | pH    | 6.5-8.0        | 7.700         | 7.600    | 8.100    | 7.700    |
| Potassium                       | mg/L  |                | 4.800         | 5.100    | 4.700    | 4.800    |
| Reactive Silica as SiO2         | mg/L  |                | 46.000        | 50.000   | 51.000   | 56.000   |
| Selenium                        | mg/L  | 0.011          | <0.001        | 0.001    | <0.001   | 0.002    |
| Silica                          | mg/L  |                | 46.000        | 46.000   | 51.000   | 50.000   |
| Sodium                          | mg/L  |                | 44.000        | 50.000   | 75.000   | 83.000   |
| Sulphate as SO4 2-              | mg/L  |                | 42.000        | 43.000   | 45.000   | 46.000   |
| Suspended Solids (SS)           | mg/L  |                | <5            | <5       | <5       | <5       |
| Total Alkalinity as CaCO3       | mg/L  |                | 200.000       | 200.000  | 260.000  | 260.000  |
| Total Dissolved Solids at 180°C | mg/L  |                | 400.000       | 400.000  | 500.000  | 510.000  |
| Total Hardness as CaCO3         | mg/L  |                | 220.000       | 220.000  | 280.000  | 280.000  |
| Zinc                            | mg/L  | 0.072          | <0.005        | <0.005   | <0.005   | <0.005   |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

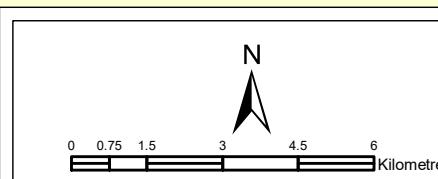
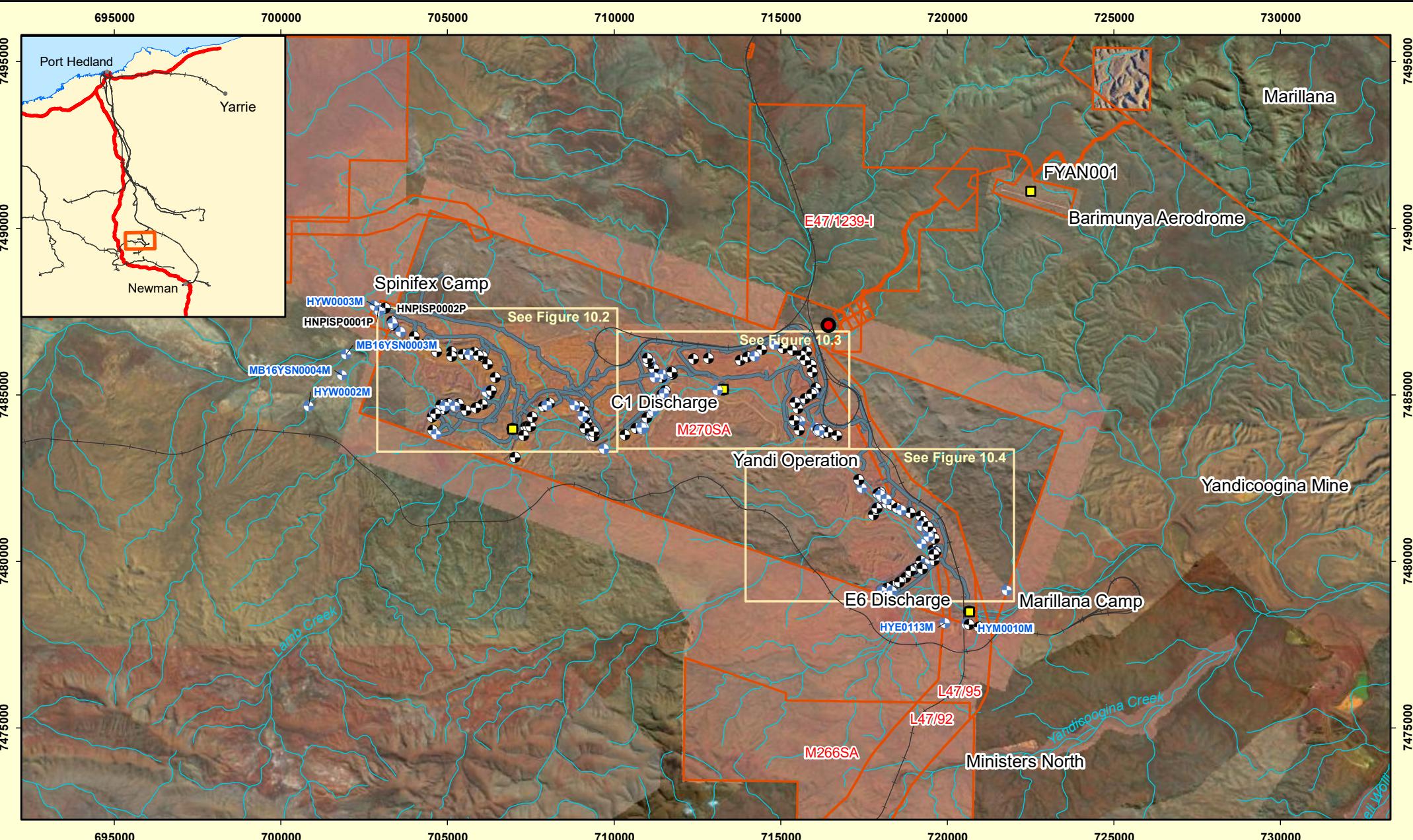
**Table 10.6: Laboratory Chemistry Results from Production Bores (cont'd)**

| Recording Type Name                        | Unit  | Trigger Values | Eastern 7 |          |          |          |
|--|-------|----------------|-----------|----------|----------|----------|
|  |       |                | HYE0180P  |          | HYE0181P |          |
|  |       |                | Sep - 21  | Jun - 22 | Sep - 21 | Jun - 22 |
| Aluminium                                  | mg/L  | 0.1            | <0.005    | <0.005   | <0.005   | <0.005   |
| Arsenic                                    | mg/L  | 0.013          | <0.001    | <0.001   | <0.001   | <0.001   |
| Barium                                     | mg/L  | 0.088          | 0.017     | 0.020    | 0.029    | 0.031    |
| Bicarbonate Alkalinity as HCO <sub>3</sub> | mg/L  |                | 380.000   | 370.000  | 310.000  | 330.000  |
| Boron                                      | mg/L  | 0.37           | 0.610     | 0.580    | 0.420    | 0.500    |
| Cadmium                                    | mg/L  | 0.001          | <0.0001   | <0.0001  | <0.0001  | <0.0001  |
| Calcium                                    | mg/L  |                | 46.000    | 42.000   | 43.000   | 40.000   |
| Chloride                                   | mg/L  |                | 96.000    | 94.000   | 82.000   | 89.000   |
| Chromium                                   | mg/L  | 0.001          | <0.001    | <0.001   | <0.001   | <0.001   |
| Copper                                     | mg/L  | 0.01           | <0.001    | <0.001   | <0.001   | <0.001   |
| Electrical Conductivity at 25°C            | µS/cm | 90-1000        | 890.000   | 860.000  | 810.000  | 810.000  |
| Fluoride                                   | mg/L  |                | 0.500     | 0.800    | 0.600    | 0.600    |
| Iron Sol.                                  | mg/L  | 0.3            | 0.012     | <0.005   | <0.005   | <0.005   |
| Lead                                       | mg/L  | 0.005          | <0.001    | <0.001   | <0.001   | <0.001   |
| Magnesium                                  | mg/L  |                | 45.000    | 43.000   | 39.000   | 38.000   |
| Manganese                                  | mg/L  | 1.9            | 0.003     | 0.002    | <0.001   | <0.001   |
| Mercury                                    | mg/L  | 0.0006         | <0.00005  | <0.00005 | <0.00005 | <0.00005 |
| Molybdenum                                 | mg/L  | 0.034          | 0.001     | 0.001    | <0.001   | <0.001   |
| Nickel                                     | mg/L  | 0.11           | <0.001    | <0.001   | <0.001   | <0.001   |
| Nitrate as NO <sub>3</sub>                 | mg/L  | 4.0            | 6.300     | 4.400    | 36.000   | 15.000   |
| pH   | pH    | 6.5-8.0        | 8.200     | 8.000    | 8.200    | 7.800    |
| Potassium                                  | mg/L  |                | 5.500     | 5.400    | 5.100    | 5.200    |
| Reactive Silica as SiO <sub>2</sub>        | mg/L  |                | 50.000    | 55.000   | 54.000   | 59.000   |
| Selenium                                   | mg/L  | 0.011          | 0.001     | 0.001    | <0.001   | 0.001    |
| Silica                                     | mg/L  |                | 51.000    | 50.000   | 54.000   | 52.000   |
| Sodium                                     | mg/L  |                | 85.000    | 90.000   | 76.000   | 84.000   |
| Sulphate as SO <sub>4</sub> 2-             | mg/L  |                | 46.000    | 46.000   | 45.000   | 44.000   |
| Suspended Solids (SS)                      | mg/L  |                | <5        | <5       | <5       | <5       |
| Total Alkalinity as CaCO <sub>3</sub>      | mg/L  |                | 320.000   | 300.000  | 260.000  | 270.000  |
| Total Dissolved Solids at 180°C            | mg/L  |                | 510.000   | 500.000  | 490.000  | 500.000  |
| Total Hardness as CaCO <sub>3</sub>        | mg/L  |                | 300.000   | 280.000  | 270.000  | 260.000  |
| Zinc                                       | mg/L  | 0.072          | <0.005    | 0.010    | <0.005   | <0.005   |

A blank cell indicates not analysed. Values in red indicate that it exceeded the site-specific trigger values. (Golder, 2014)

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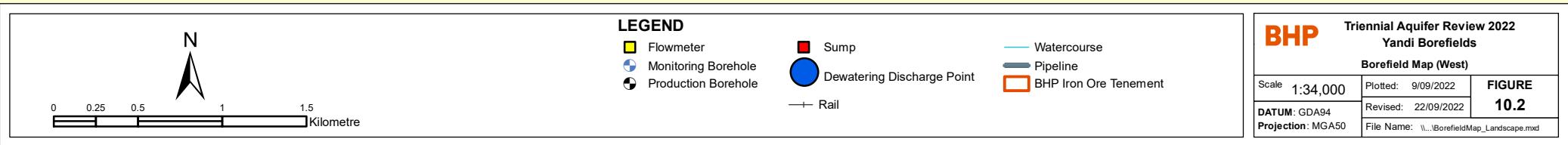
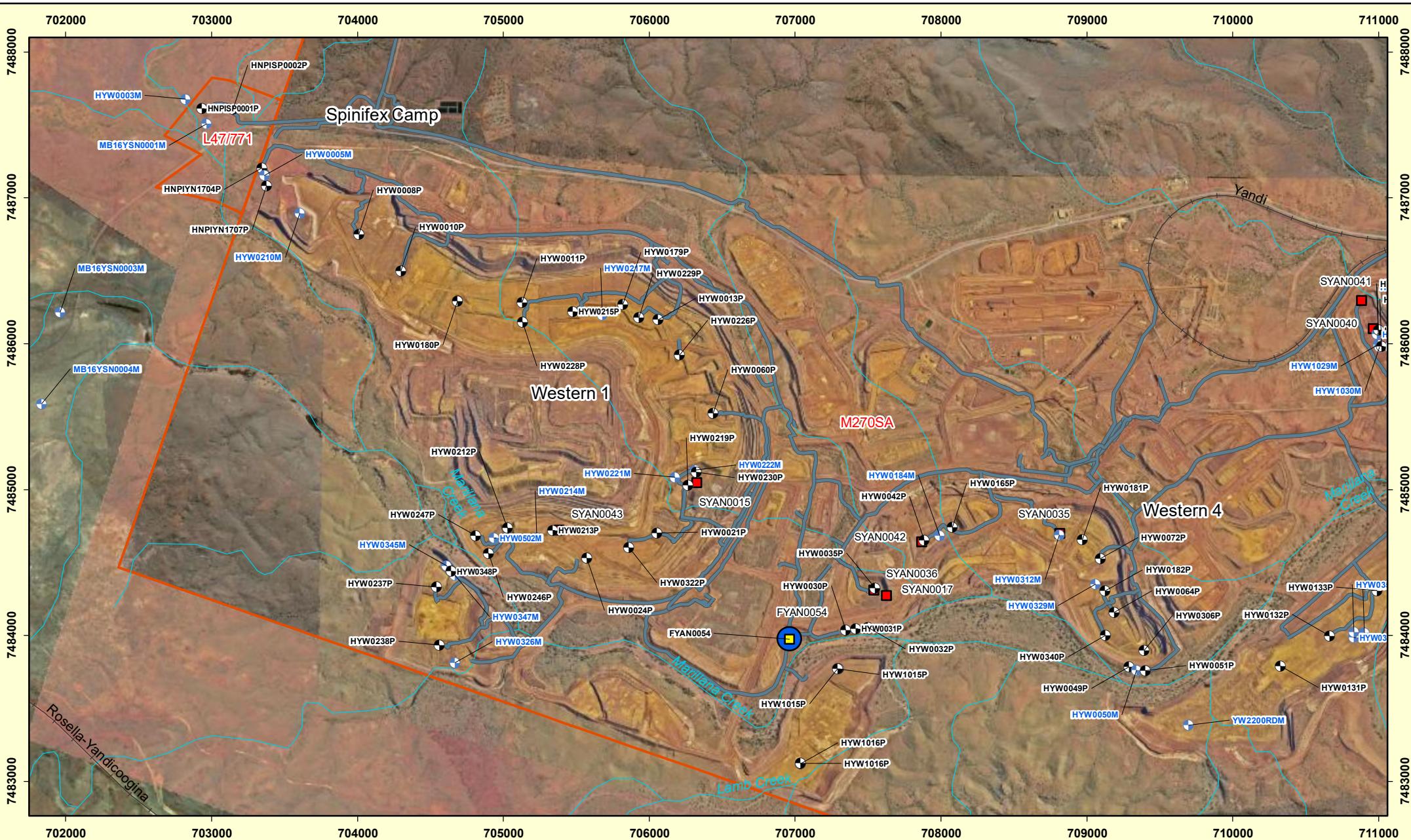
## Figures

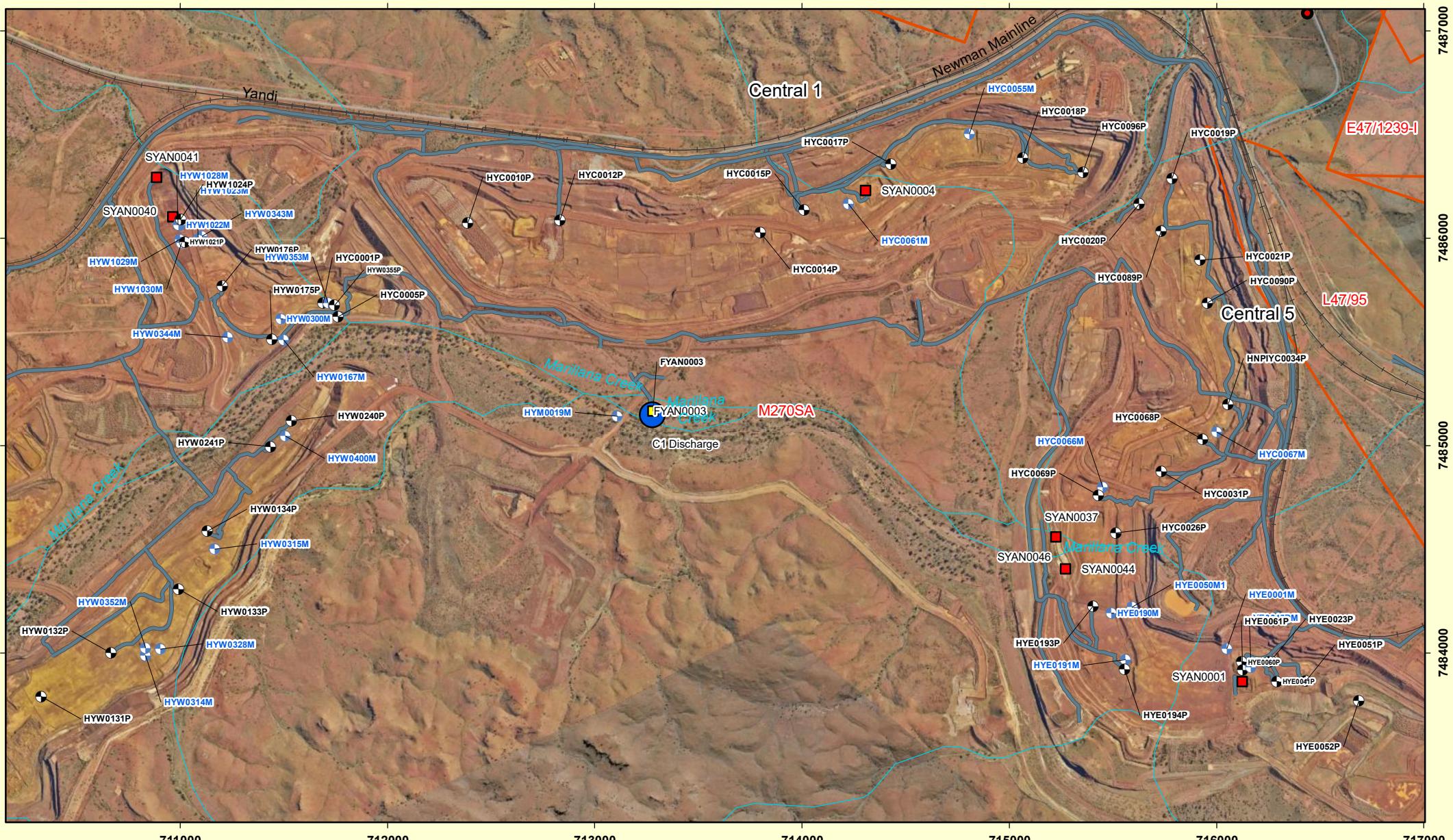


#### LEGEND

- Flowmeter
- Dewatering Discharge Point
- Rail
- Monitoring Borehole
- Weather station
- Watercourse
- Production Borehole
- Pipeline
- BHP Iron Ore Tenement







0 0.25 0.5 Kilometre

#### LEGEND

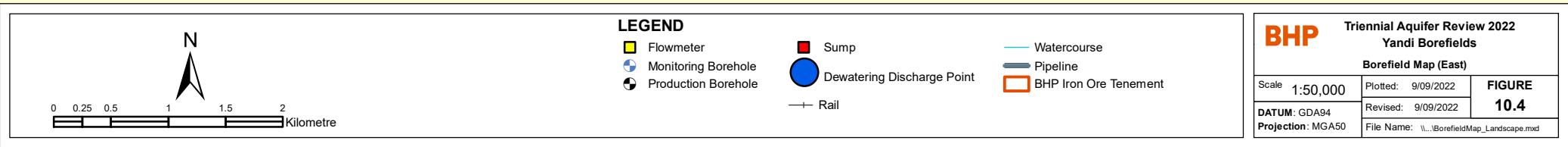
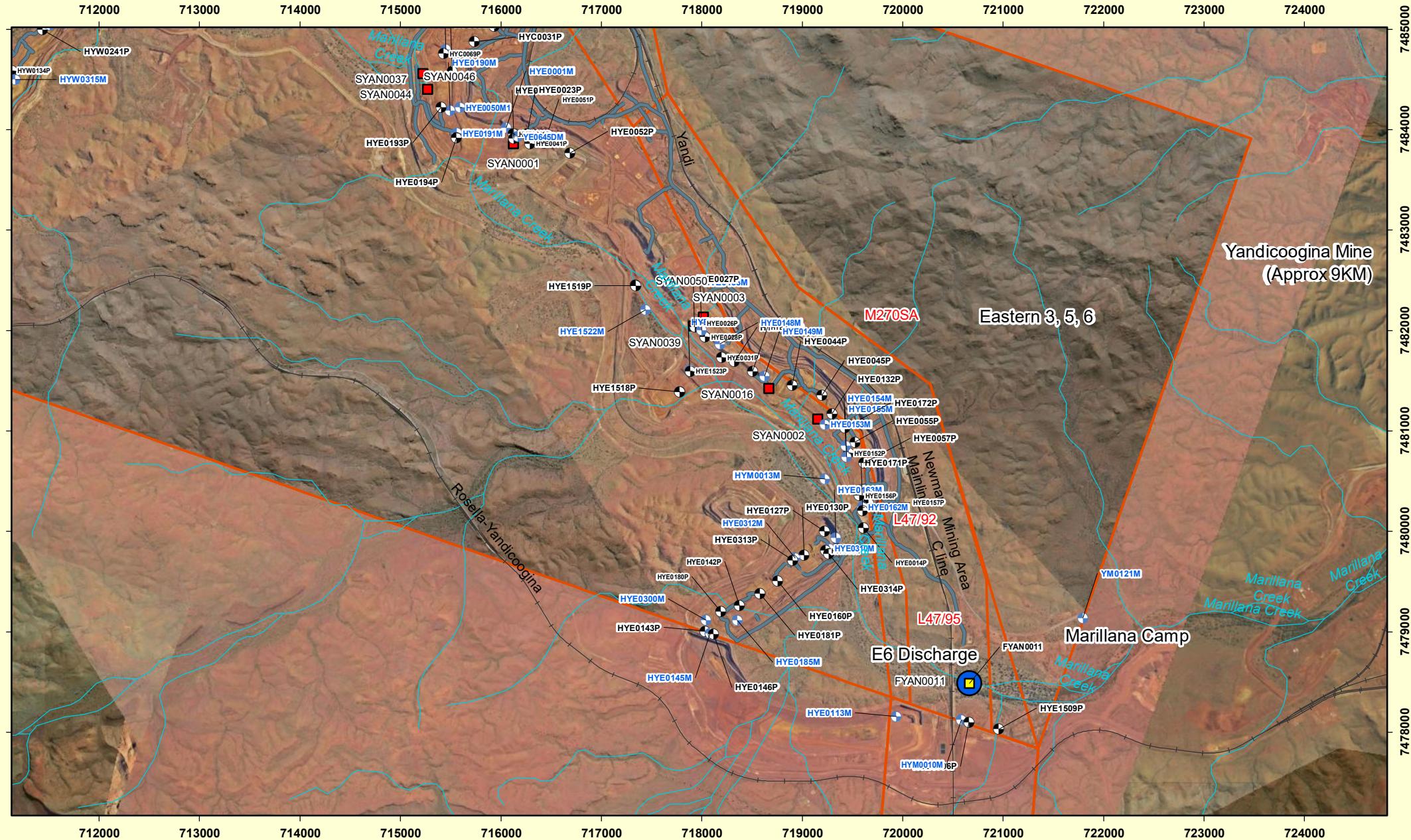
- Flowmeter
- Sump
- Monitoring Borehole
- Production Borehole
- Dewatering Discharge Point
- Weather station
- Pipeline
- Watercourse
- Rail

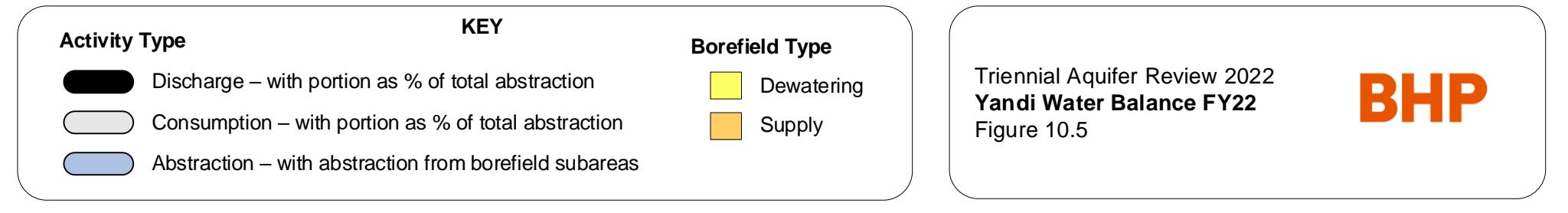
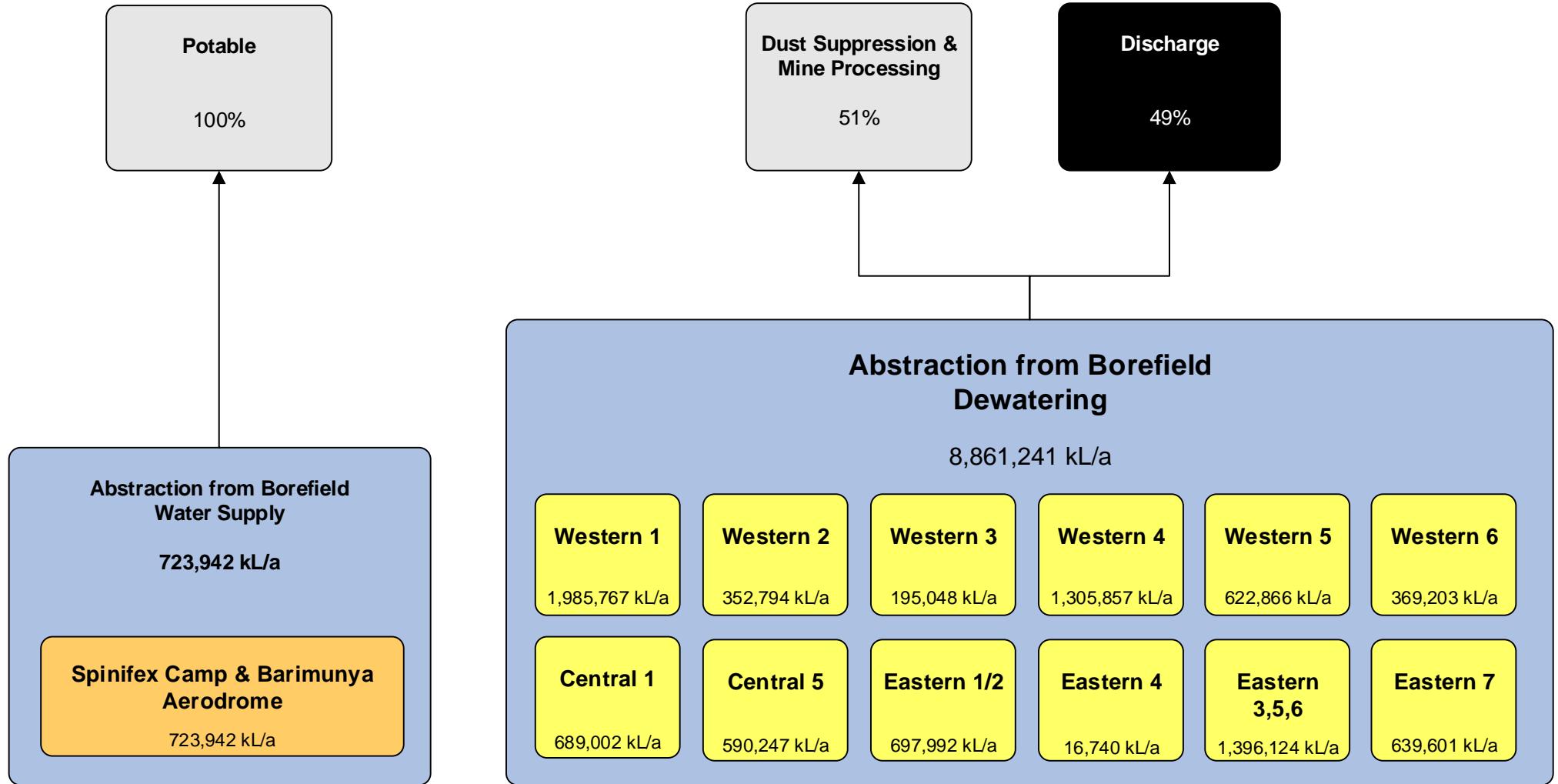
**BHP**

Triennial Aquifer Review 2022  
Yandi Borefields

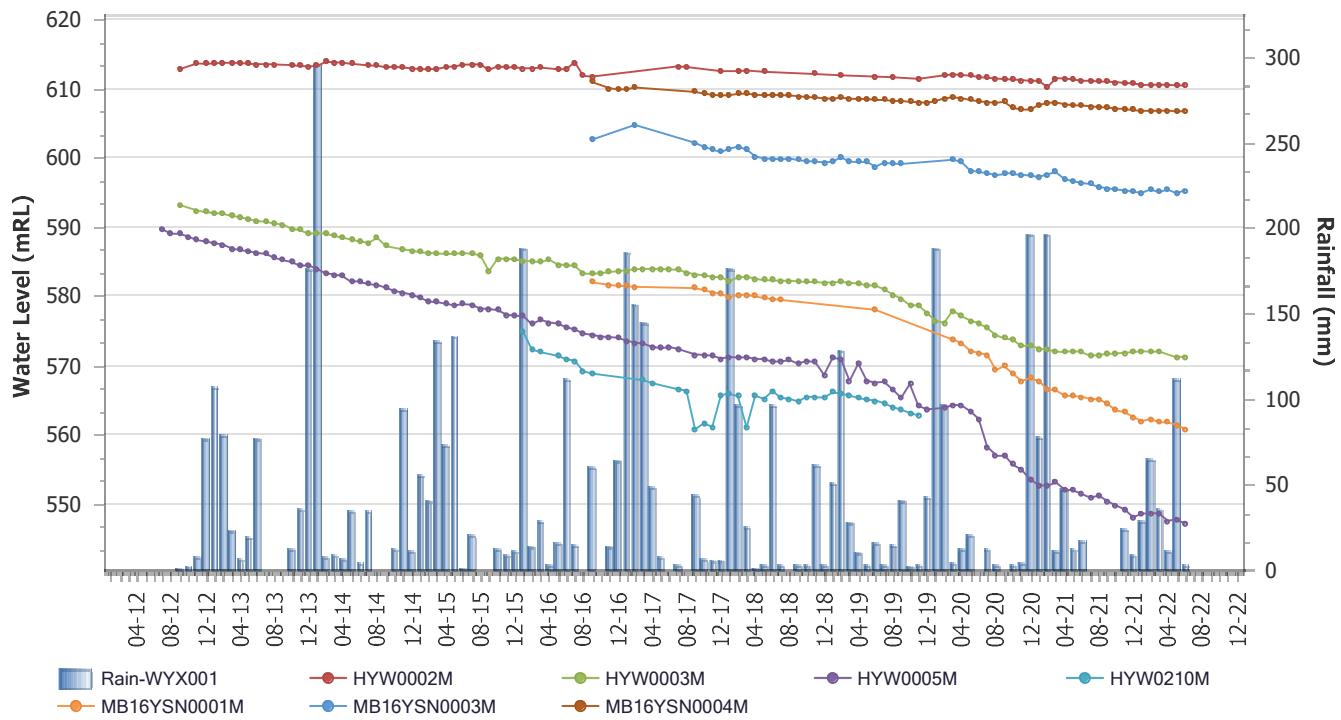
Borefield Map (Central)

|  |                    |        |
|--|--------------------|--------|
| Scale: 1:25,000                        | Plotted: 9/09/2022 | FIGURE |
| DATUM: GDA94                           | Revised: 9/09/2022 | 10.3   |
| Projection: MGA50                      |                    |        |
| File Name: \BorefieldMap_Landscape.mxd |                    |        |

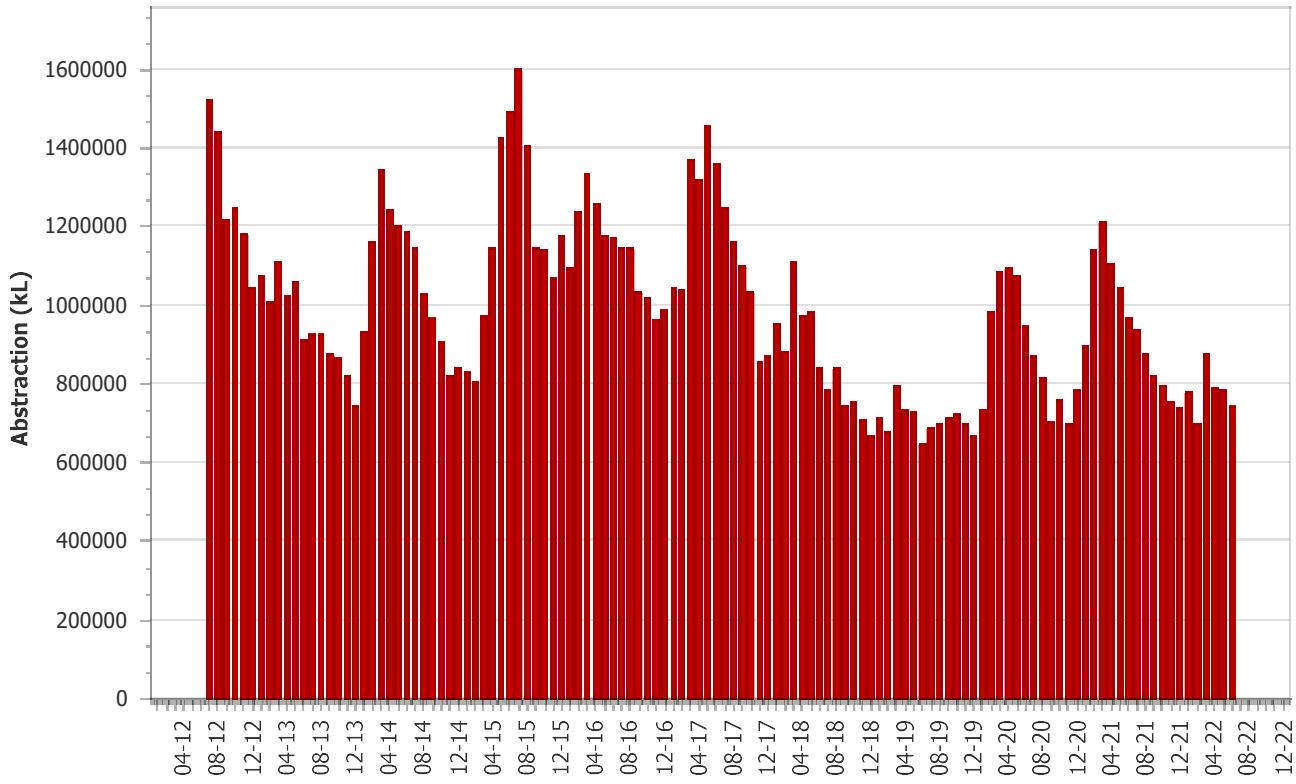




### Regional Upgradient Hydrographs



### Yandi Borefields Total Abstraction



### Monitoring summary: Regional Upgradient Hydrographs

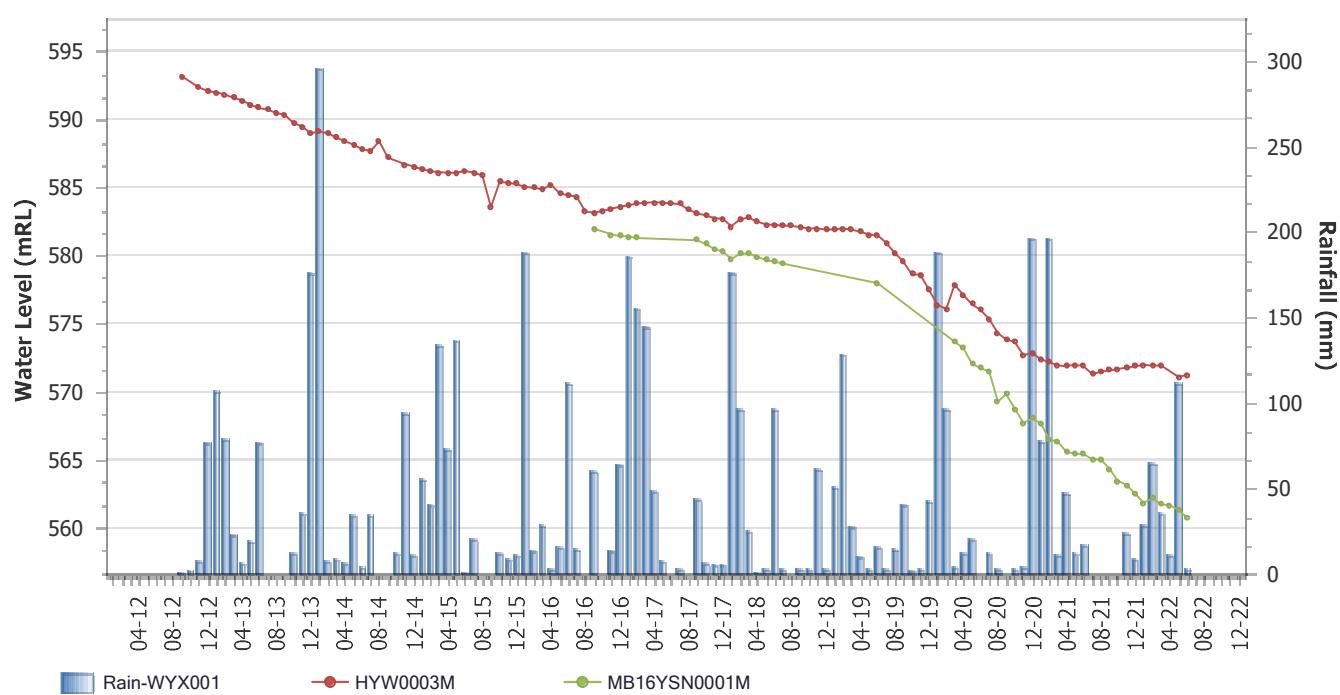
Figure 10.6

**Yandi Borefields**

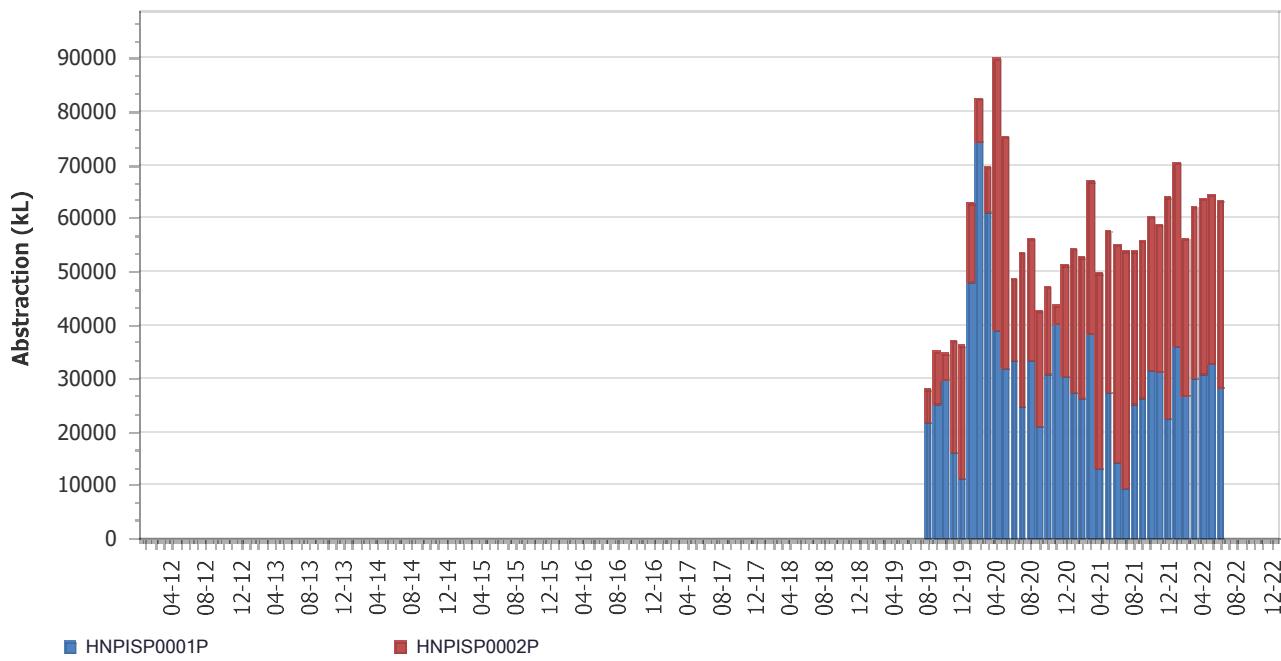
Triennial Aquifer Review 2022

**BHP**

### Spinifex Camp Hydrographs



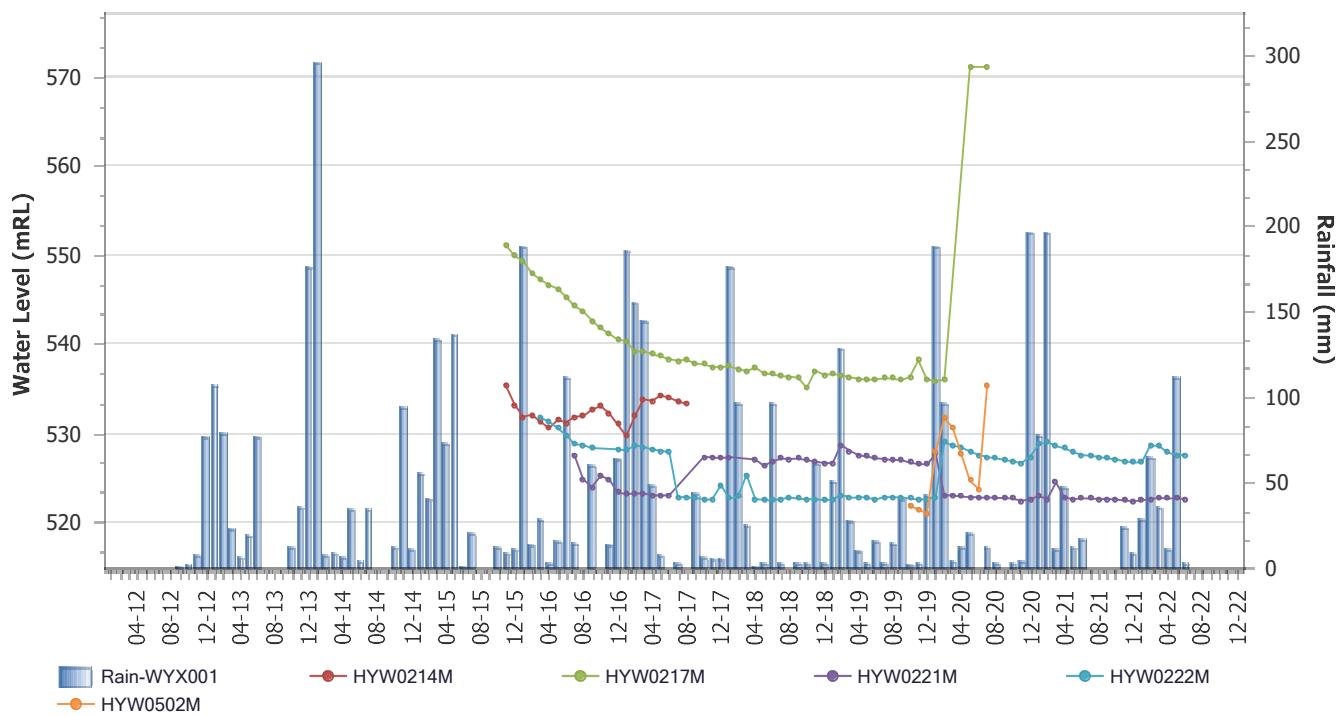
### Spinifex Camp Abstraction



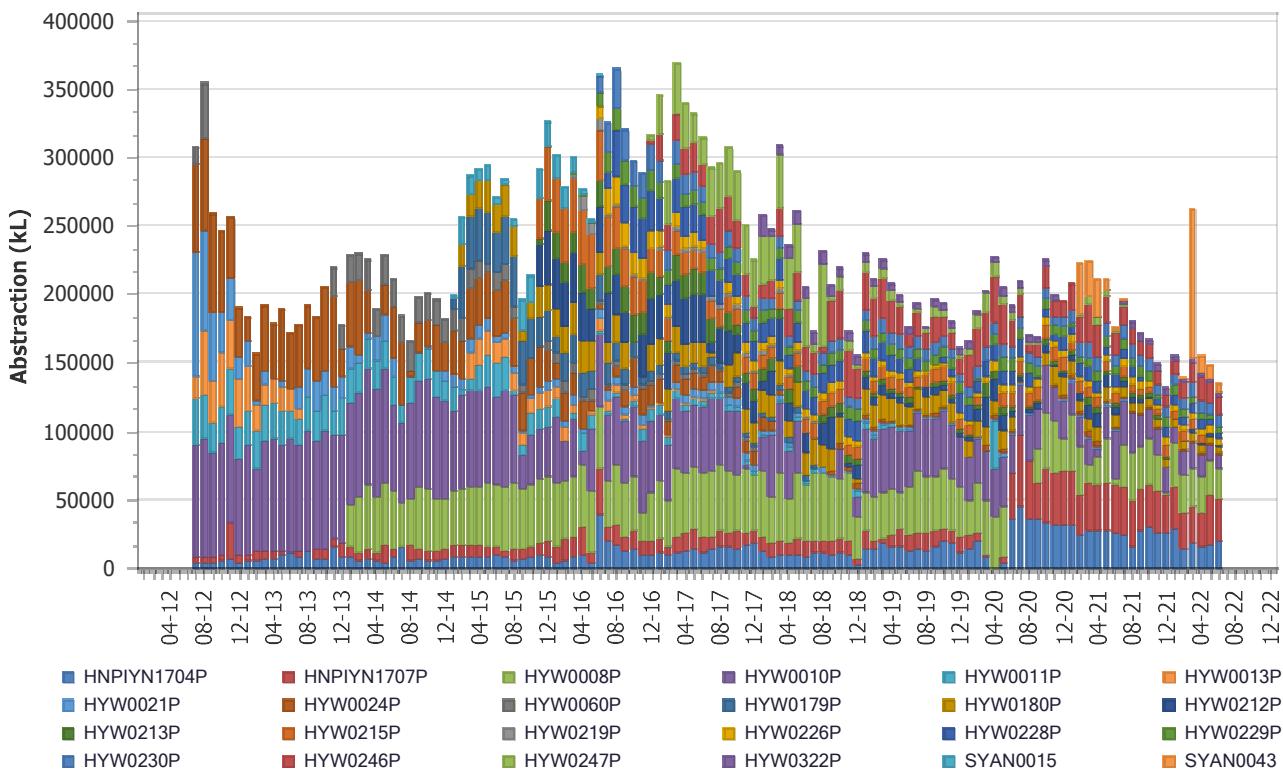
### Monitoring summary: Spinifex Camp Hydrographs

Figure 10.7

### Western 1 Hydrographs



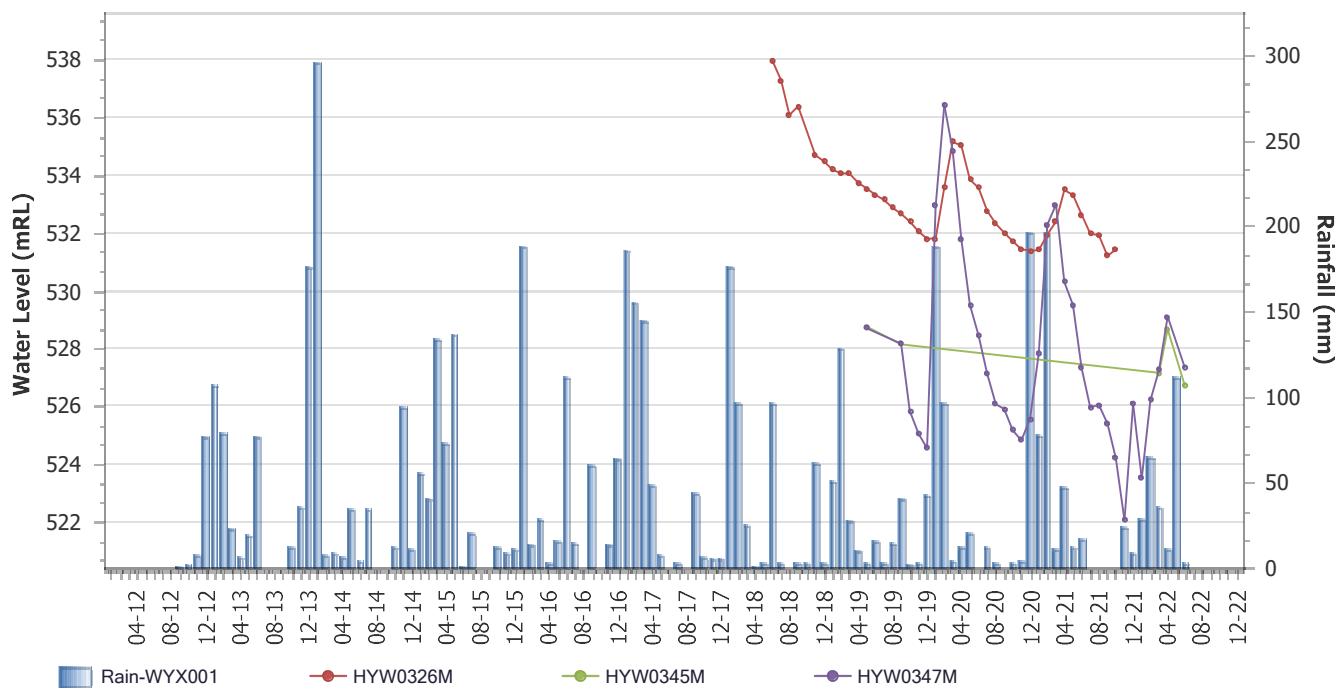
### Western 1 Abstraction



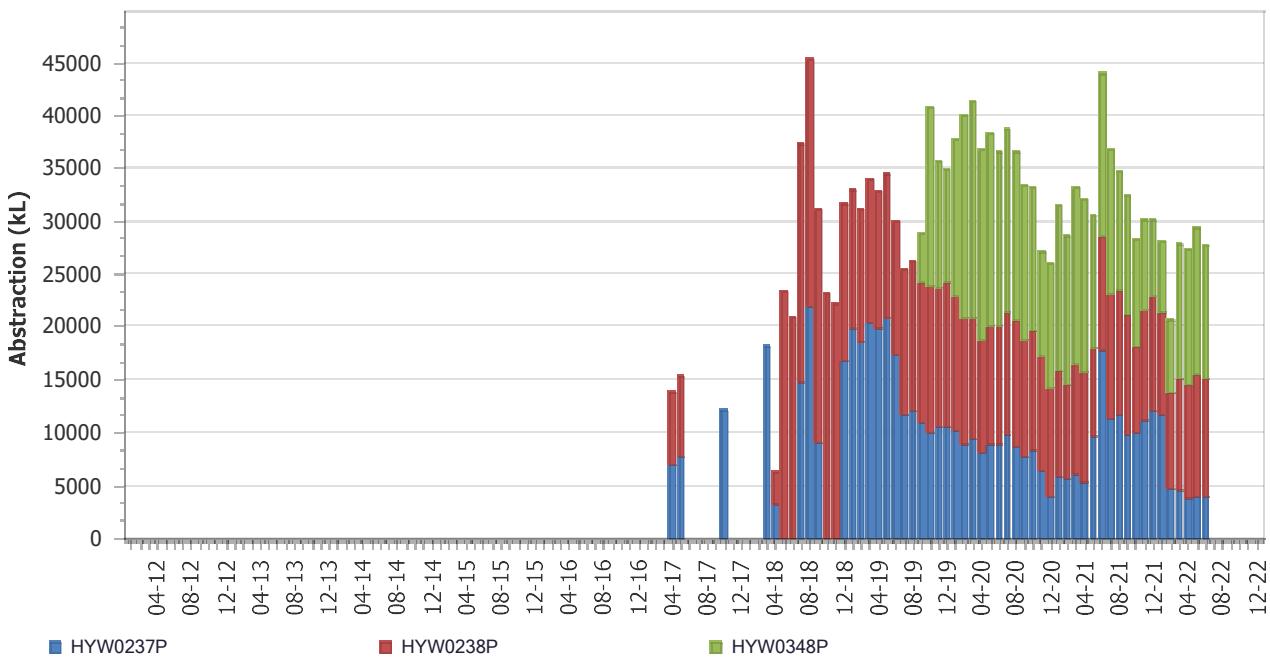
### Monitoring summary: Western 1 Hydrographs

Figure 10.8

### Western 2 Hydrographs



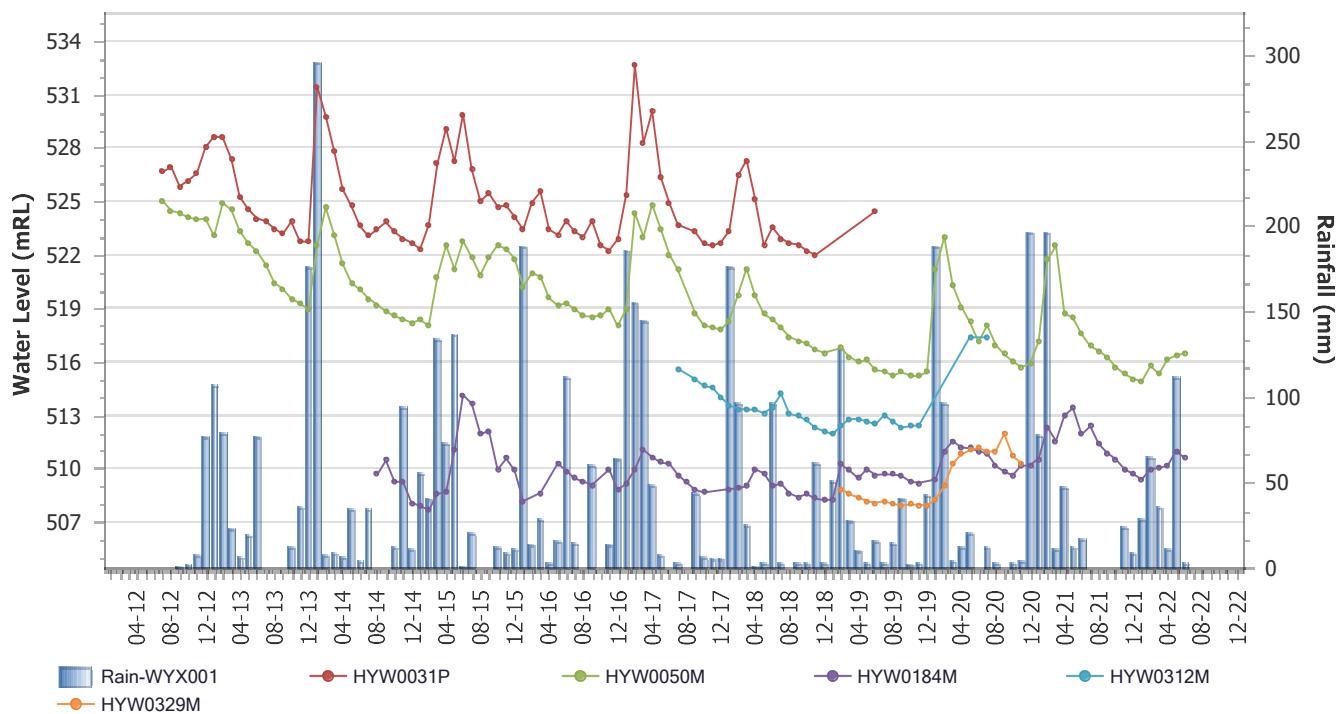
### Western 2 Abstraction



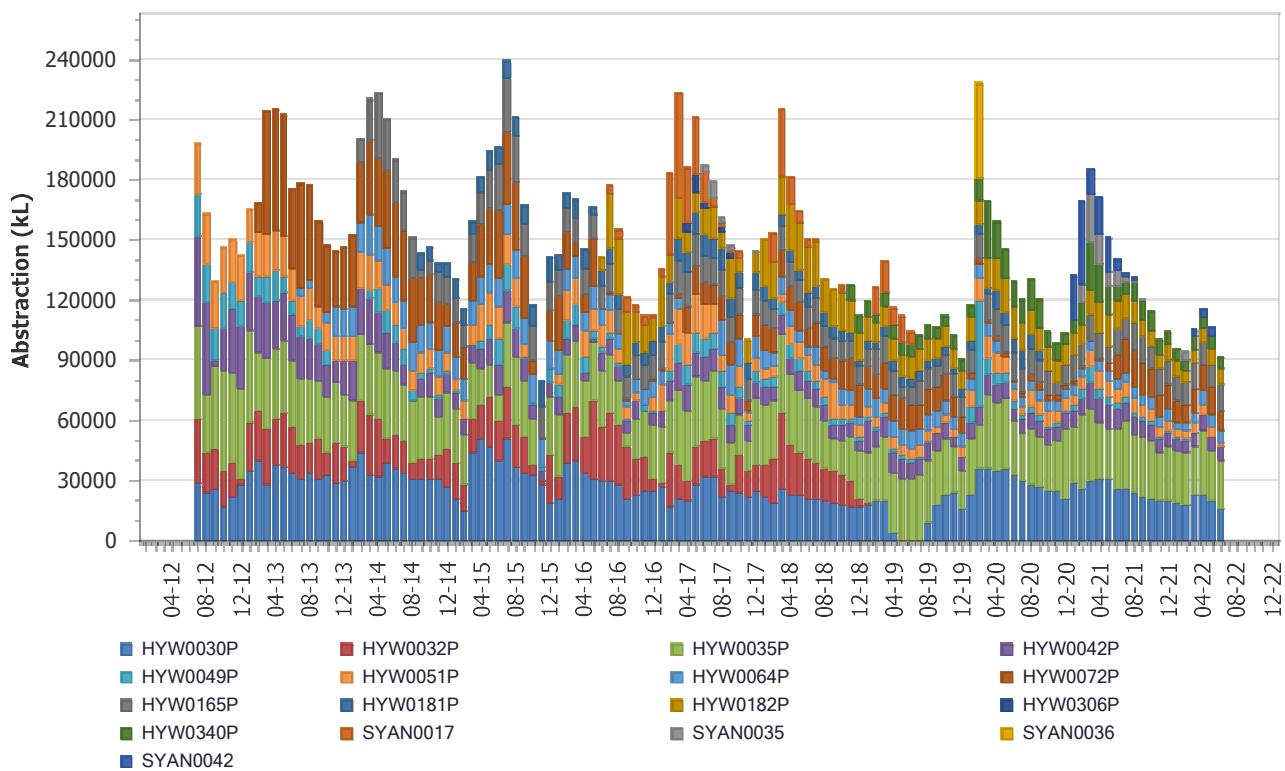
### Monitoring summary: Western 2 Hydrographs

Figure 10.9

### Western 4 Hydrographs



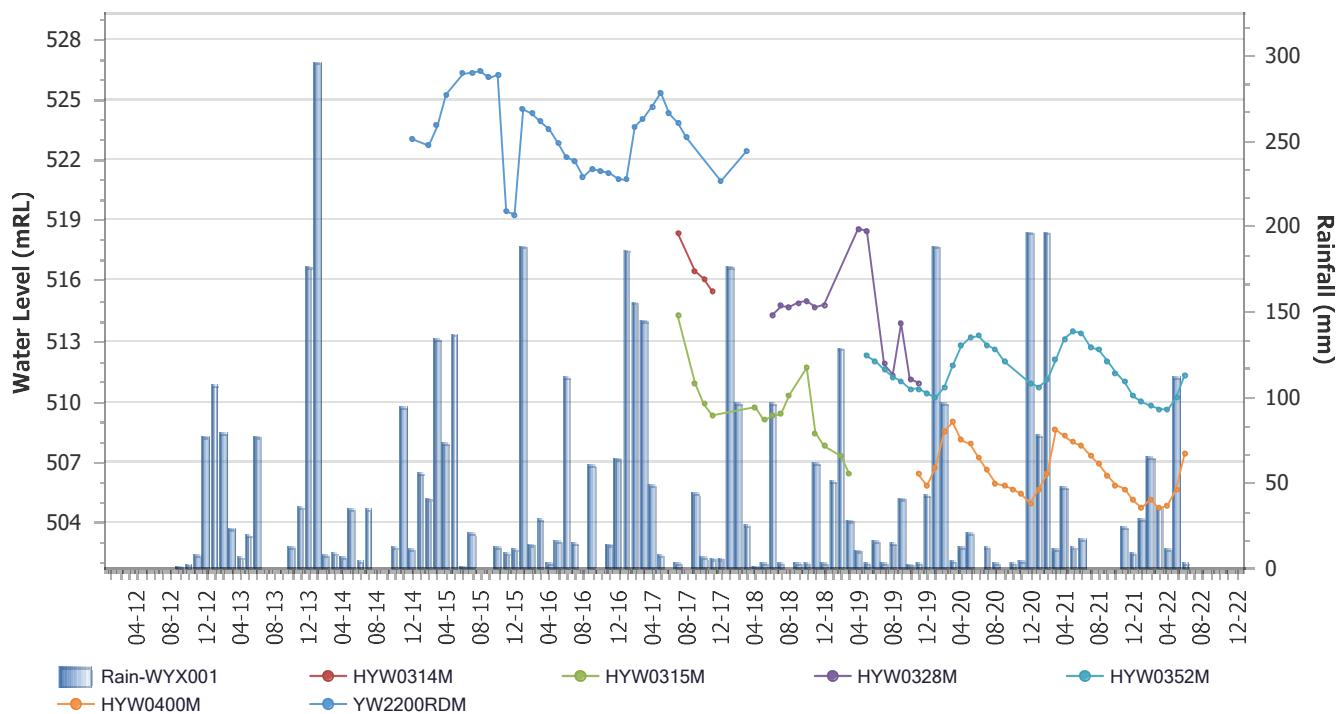
### Western 4 Abstraction



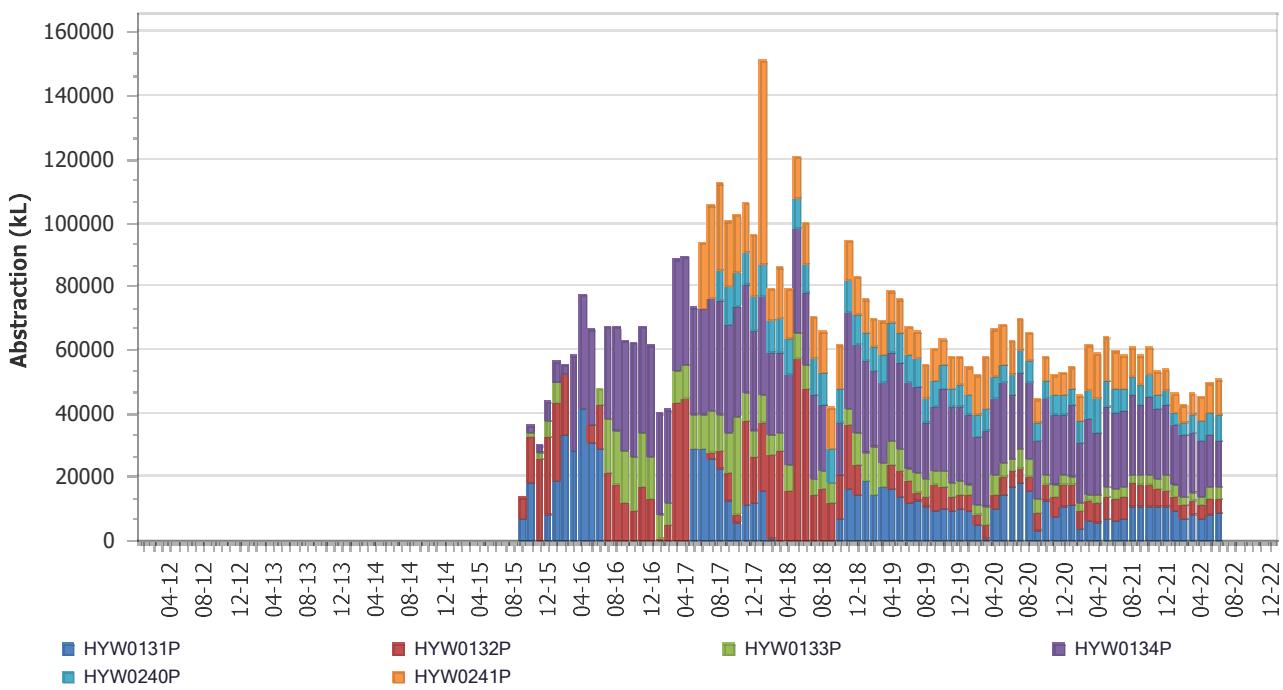
### Monitoring summary: Western 4 Hydrographs

Figure 10.10

### Western 5 Hydrographs



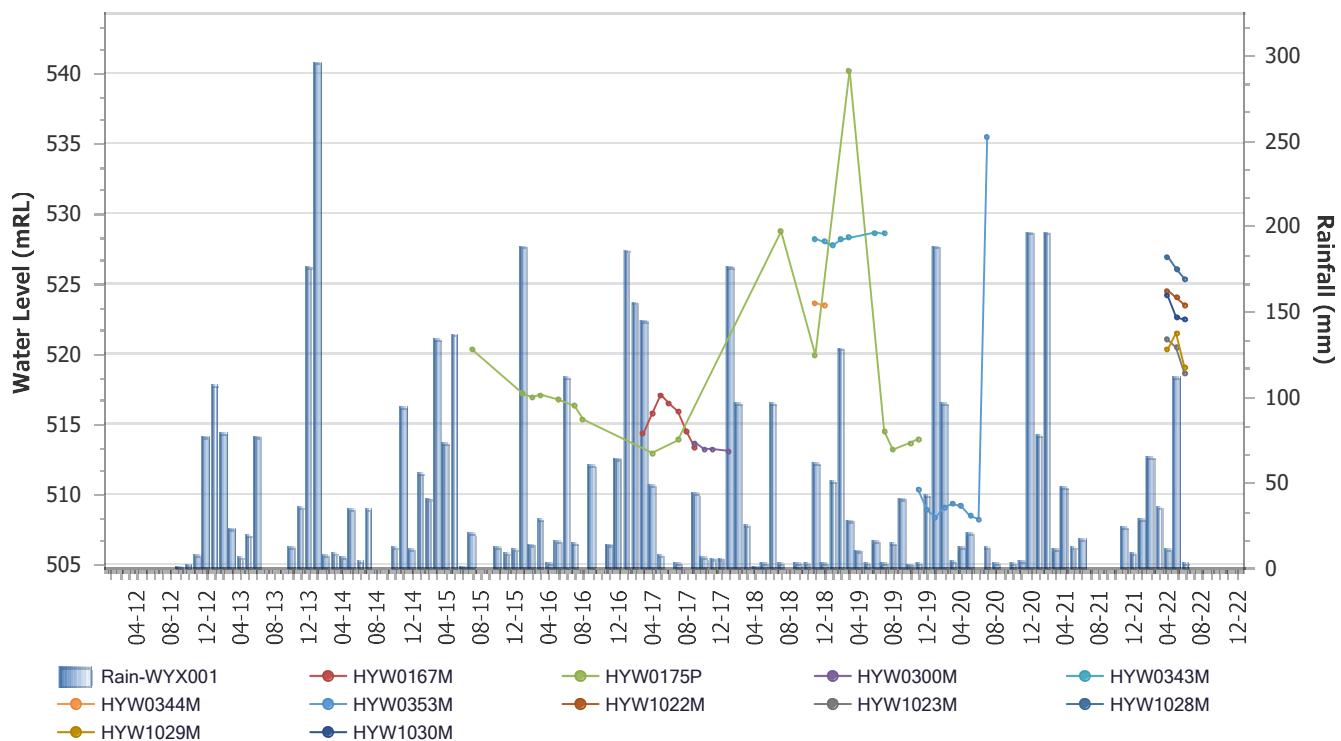
### Western 5 Abstraction



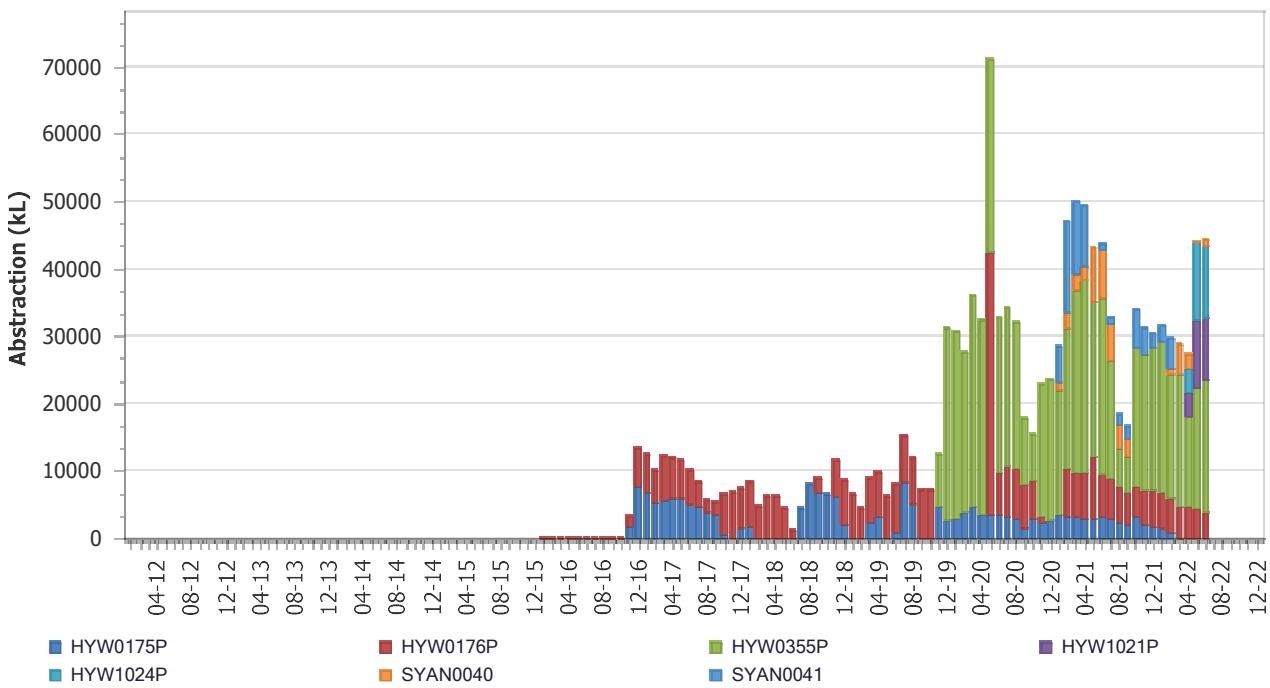
### Monitoring summary: Western 5 Hydrographs

Figure 10.11

### Western 6 Hydrographs



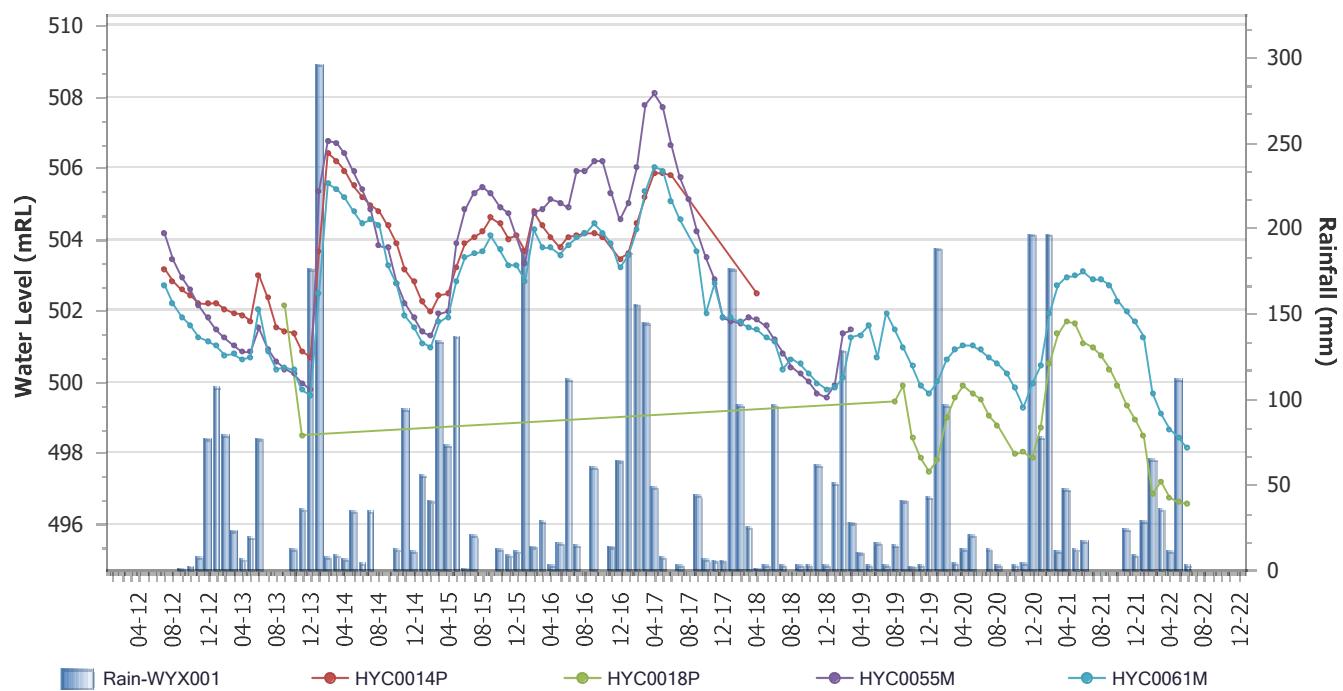
### Western 6 Abstraction



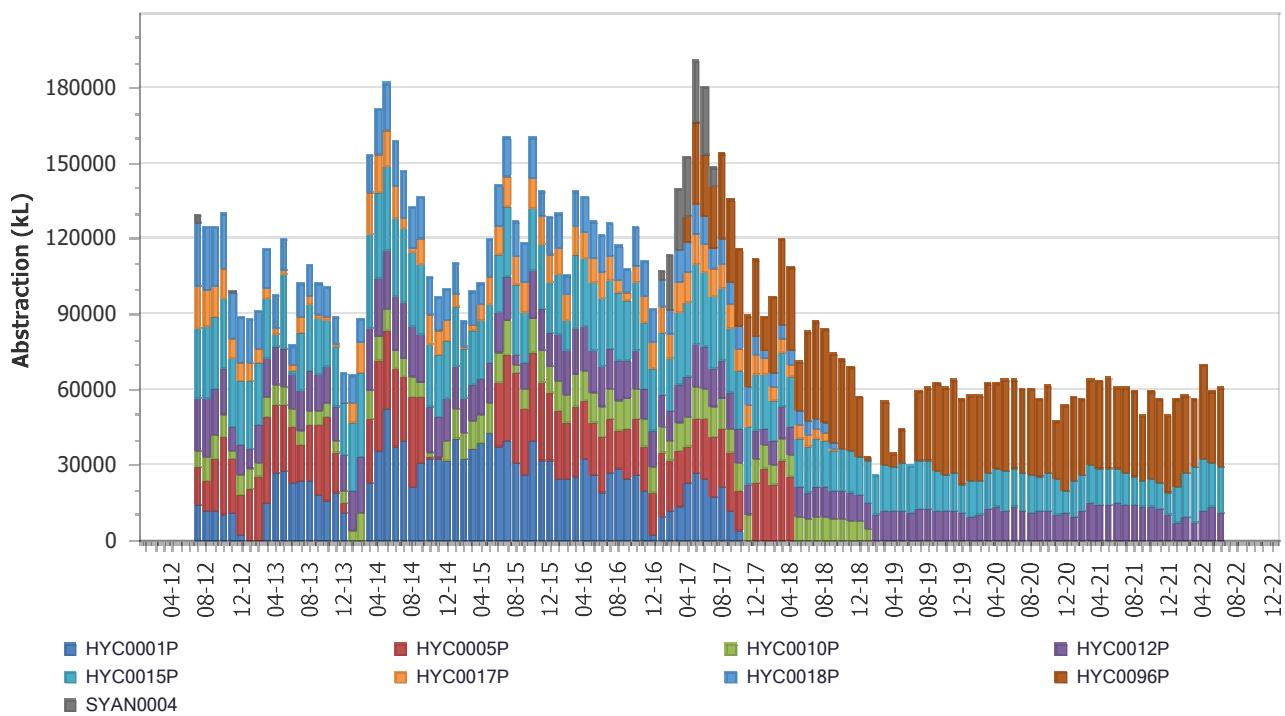
### Monitoring summary: Western 6 Hydrographs

Figure 10.12

### Central 1 Hydrographs



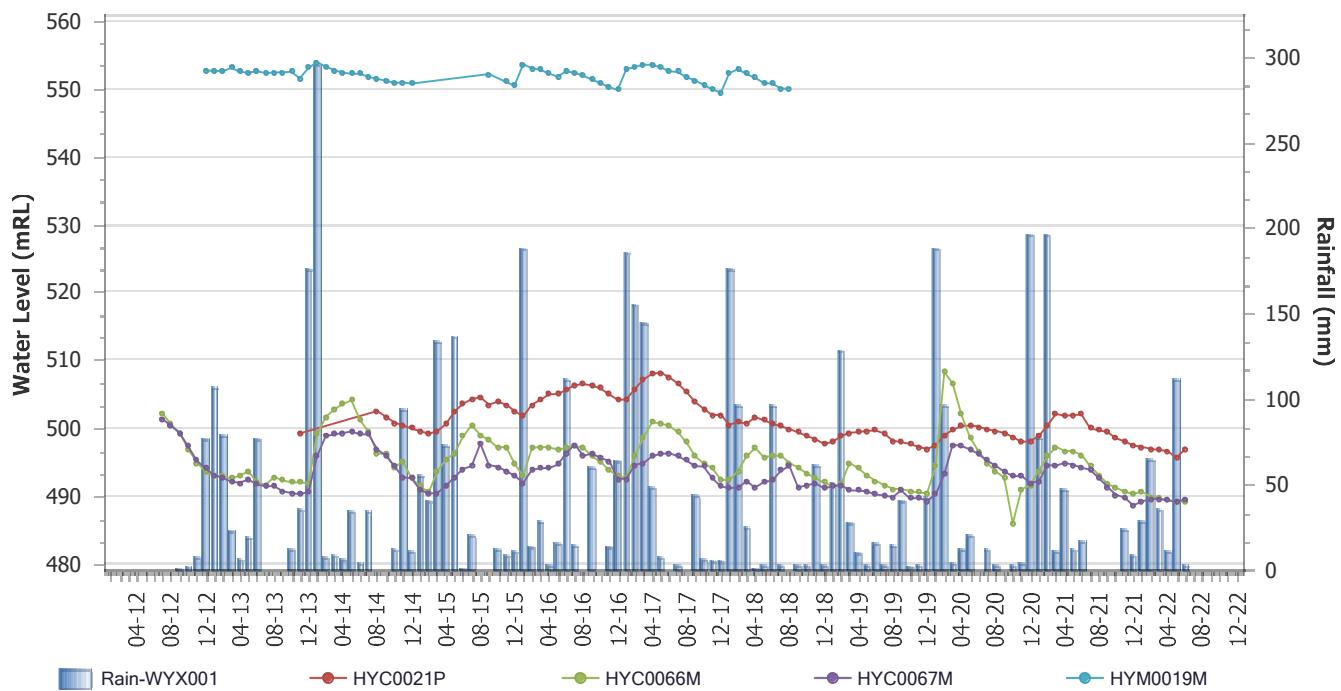
### Central 1 Abstraction



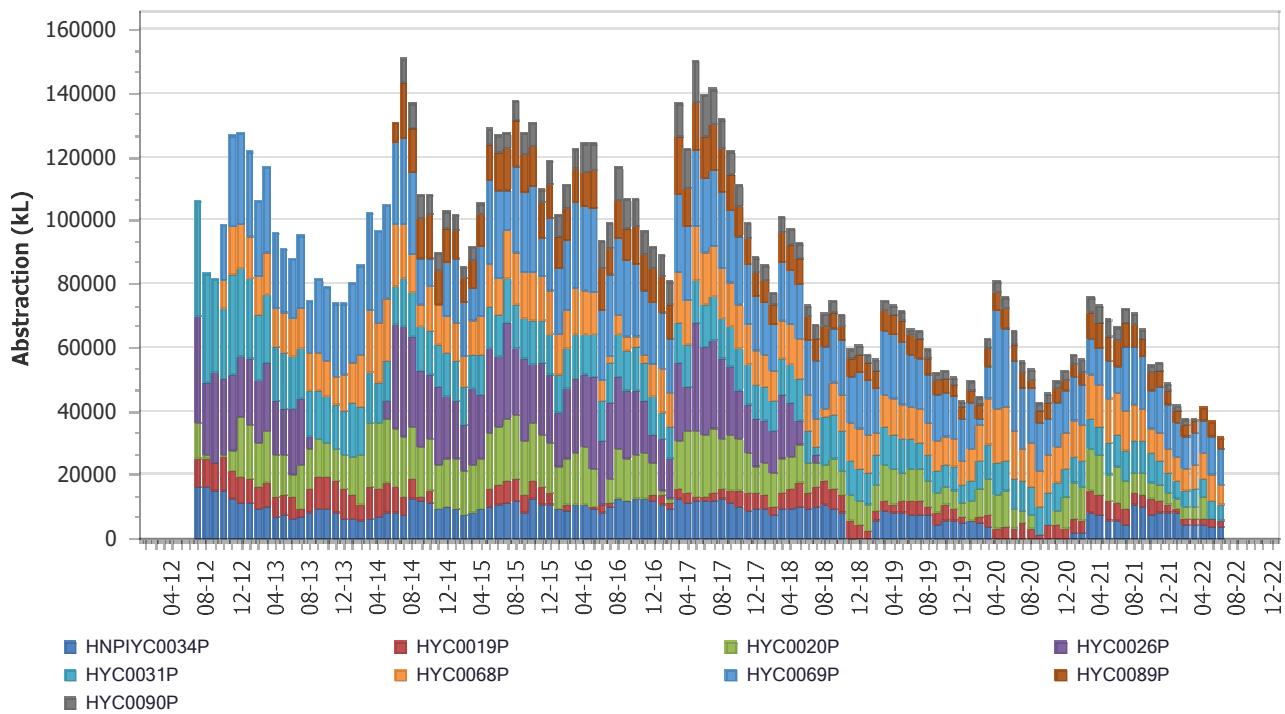
### Monitoring summary: Central 1 Hydrographs

Figure 10.13

### Central 5 Hydrographs



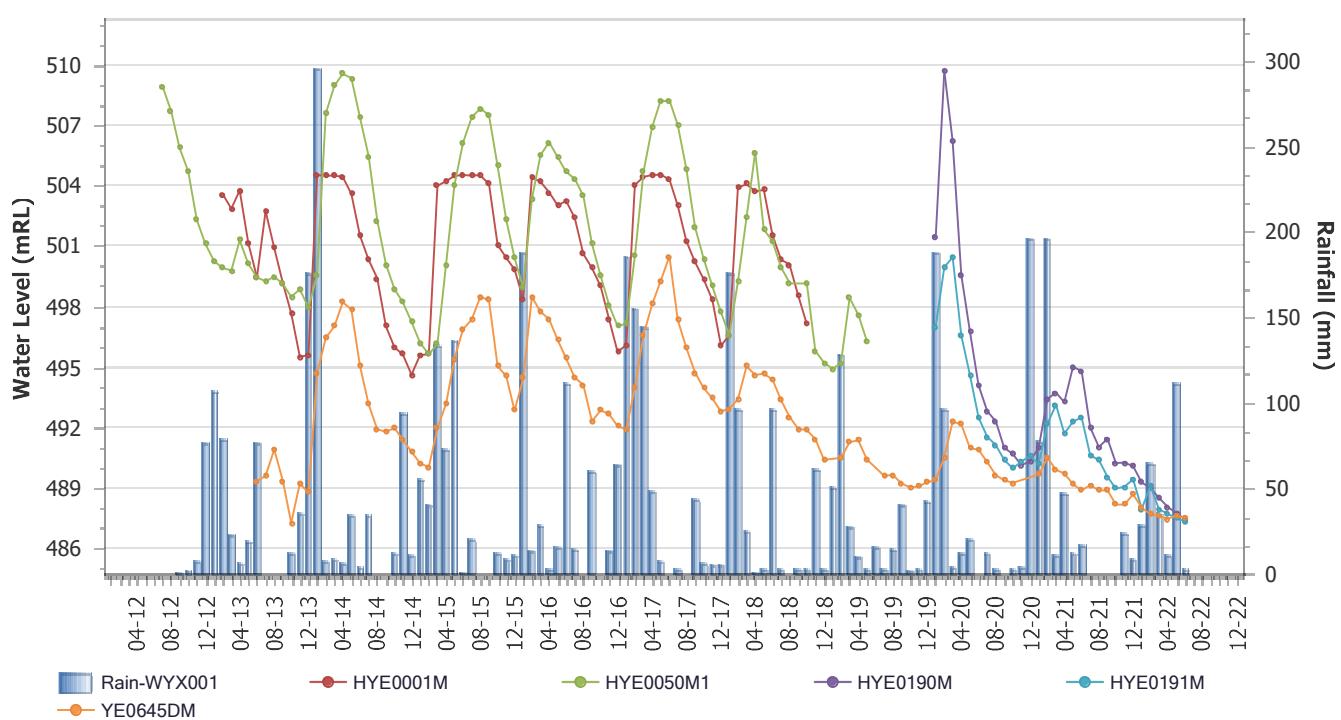
### Central 5 Abstraction



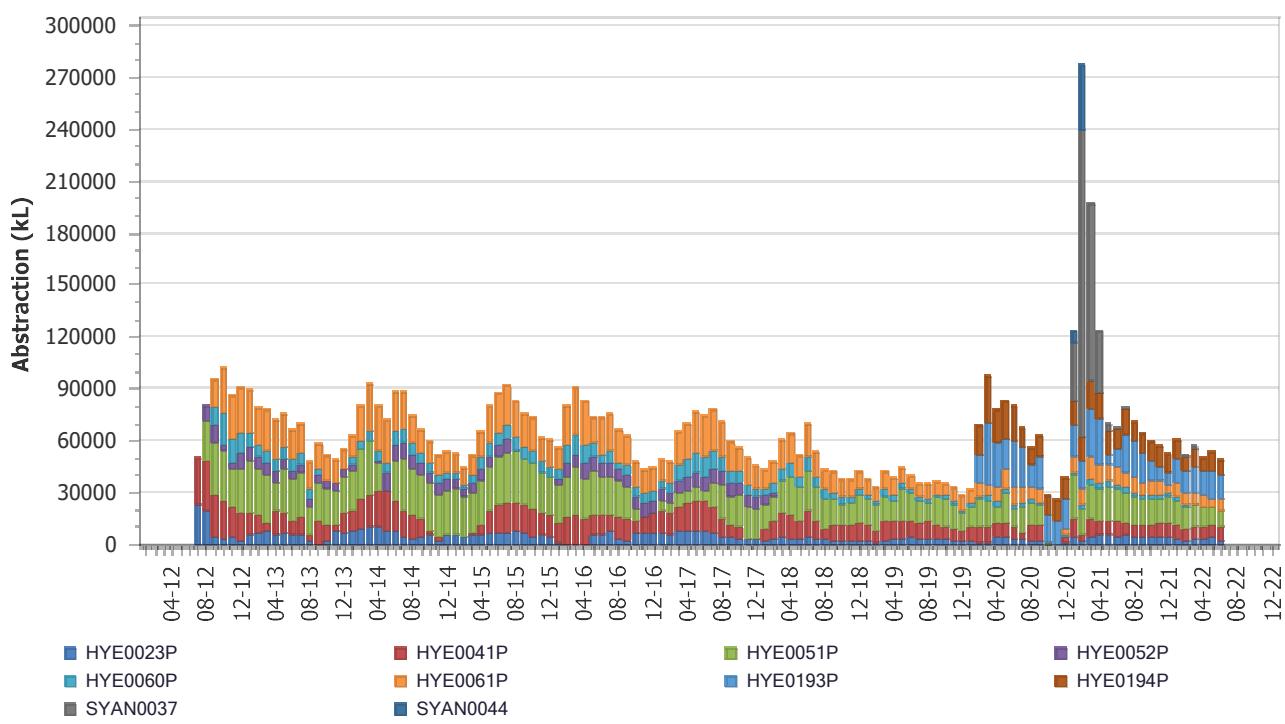
### Monitoring summary: Central 5 Hydrographs

Figure 10.14

### Eastern 1 & 2 Hydrographs



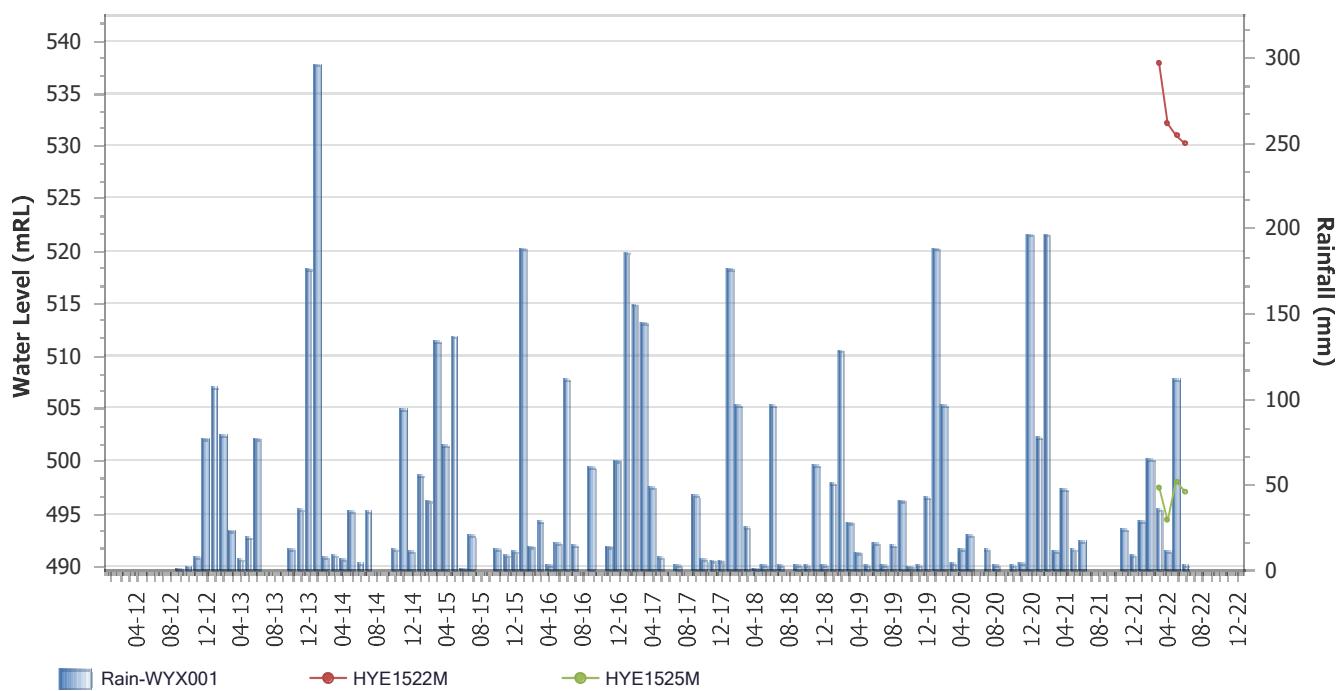
### Eastern 1 & 2 Abstraction



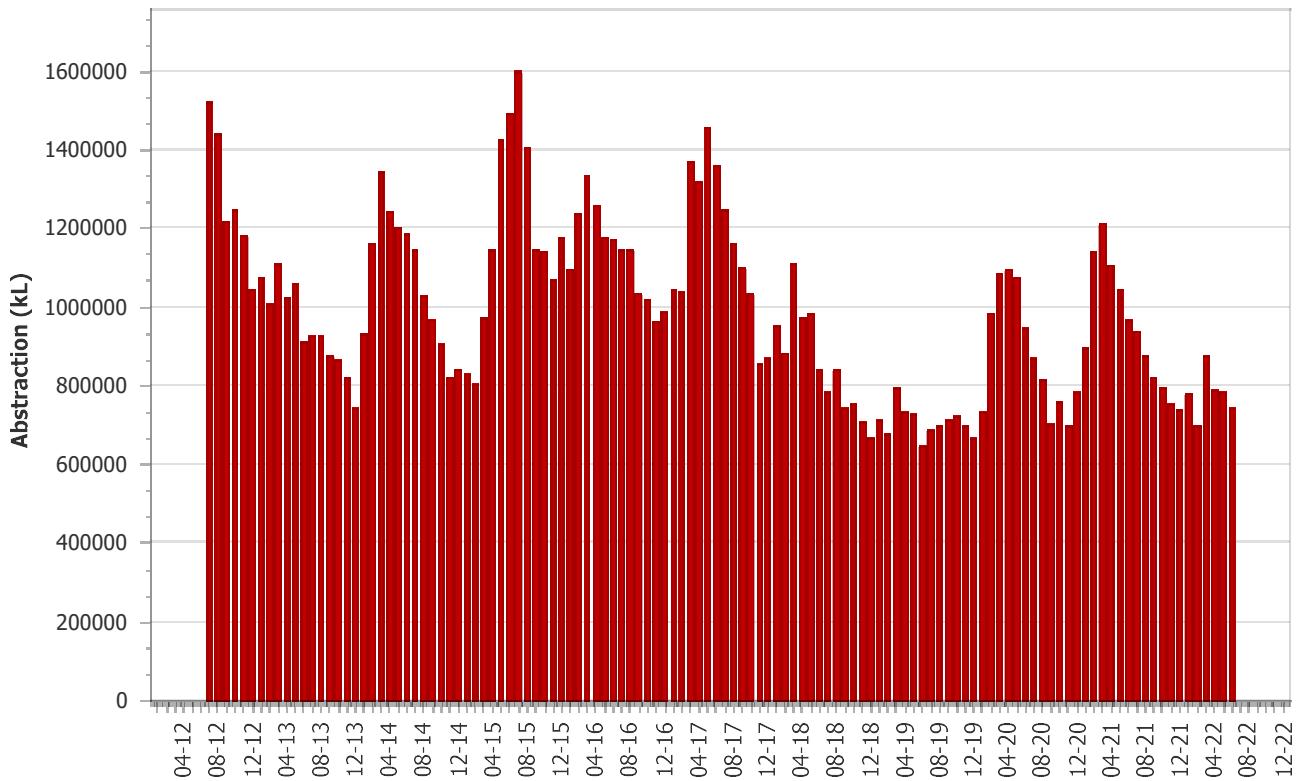
### Monitoring summary: Eastern 1 & 2 Hydrographs

Figure 10.15

### Eastern 4 Hydrographs



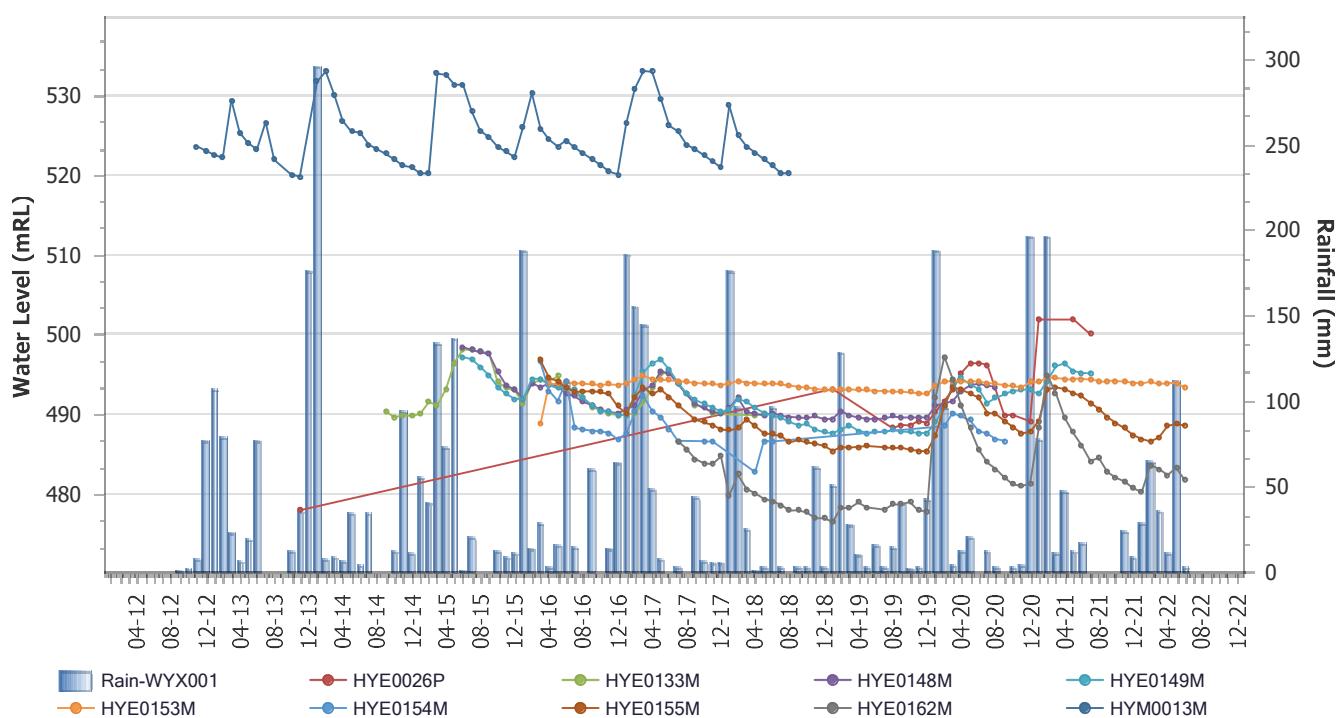
### Yandi Borefields Total Abstraction



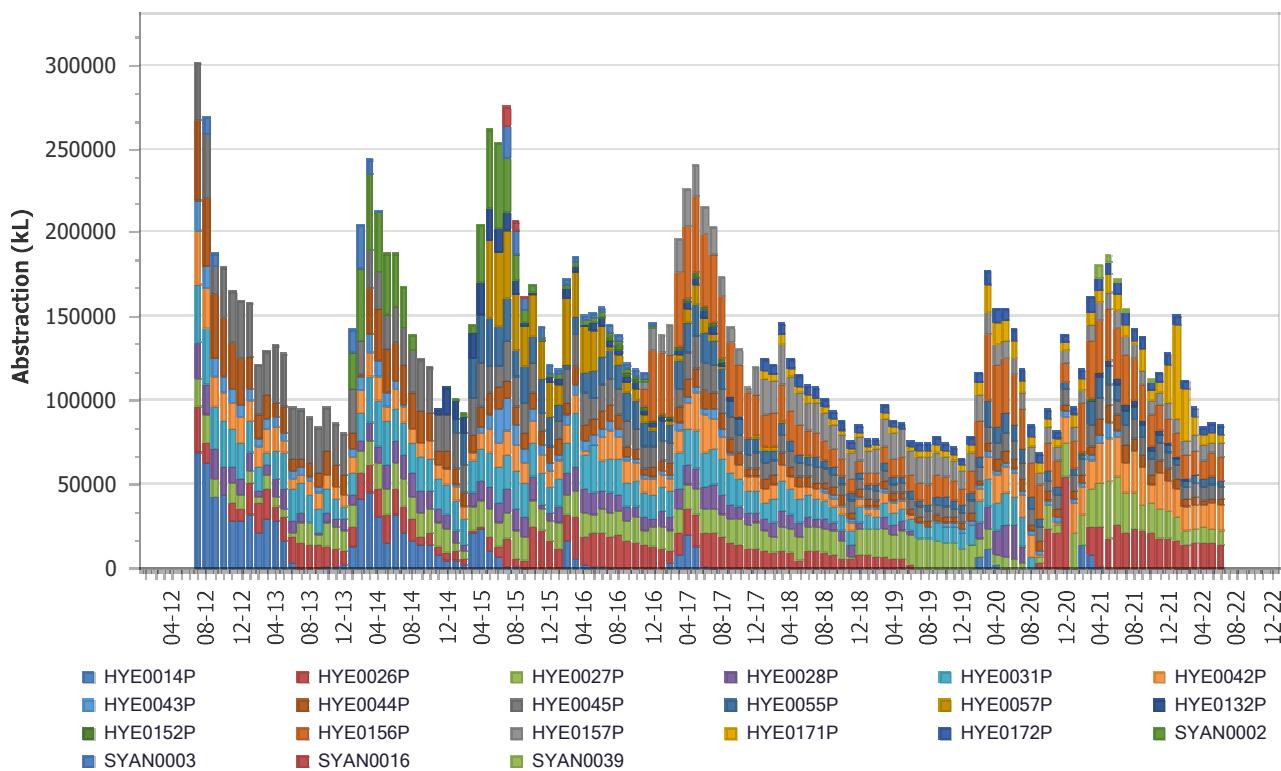
### Monitoring summary: Eastern 4 Hydrographs

Figure 10.16

### Eastern 3,5,6 Hydrographs



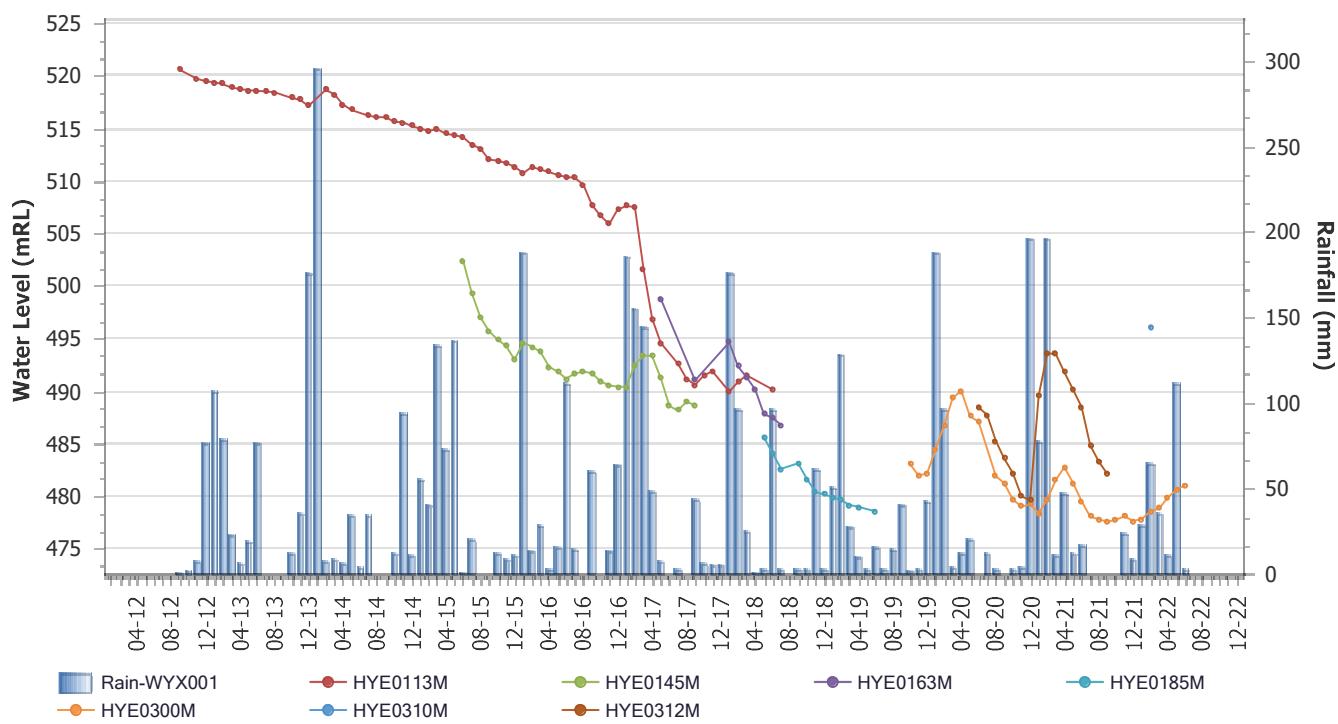
### Eastern 3,5,6 Abstraction



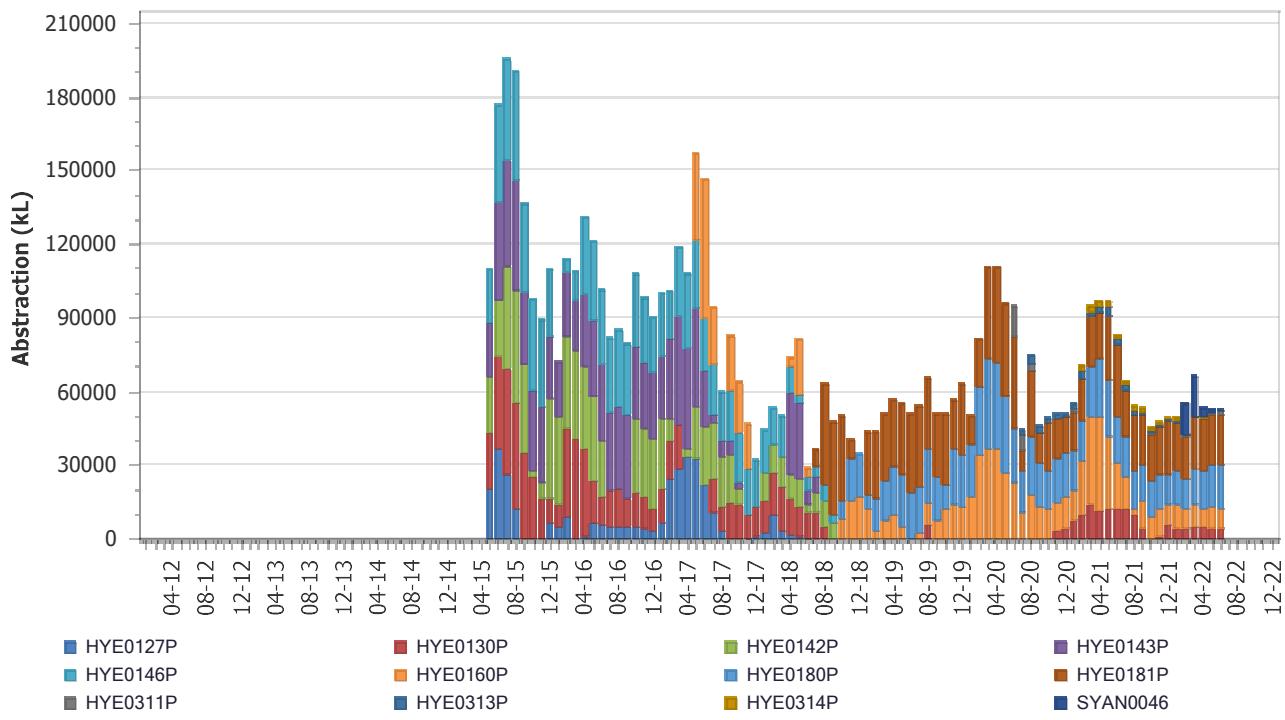
### Monitoring summary: Eastern 3,5,6 Hydrographs

Figure 10.17

### Eastern 7 Hydrographs



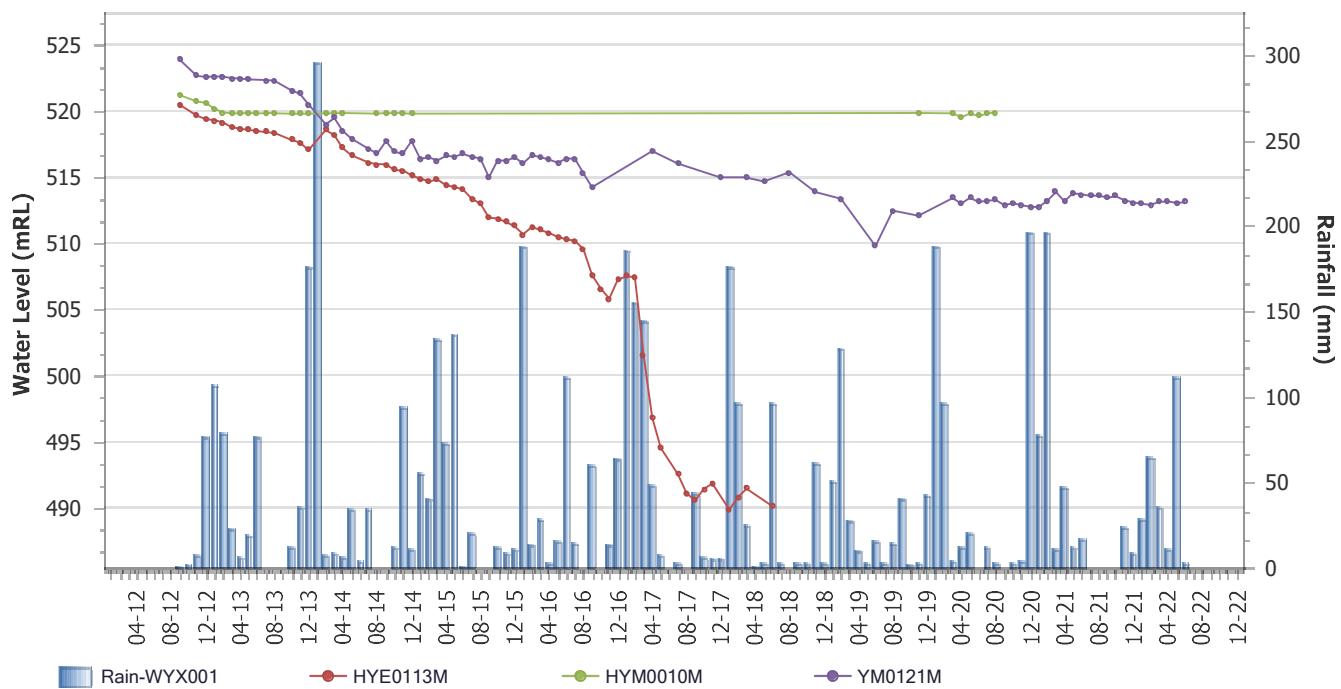
### Eastern 7 Abstraction



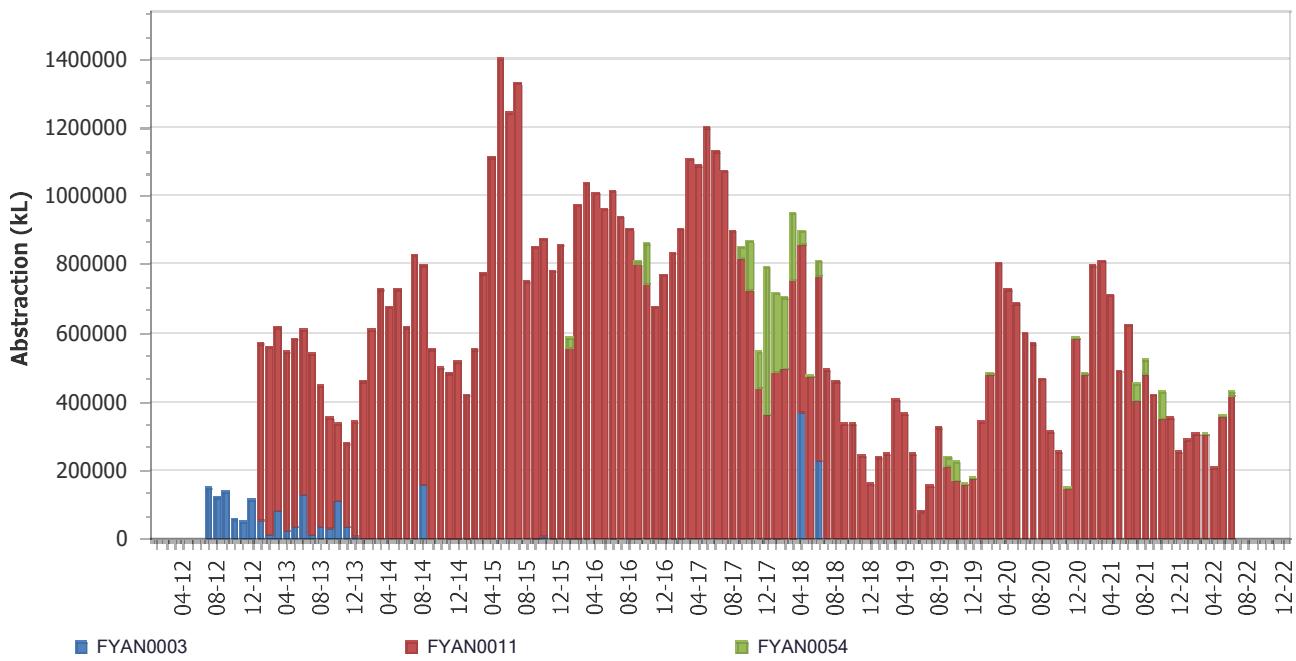
### Monitoring summary: Eastern 7 Hydrographs

Figure 10.18

### Regional Downgradient Hydrographs



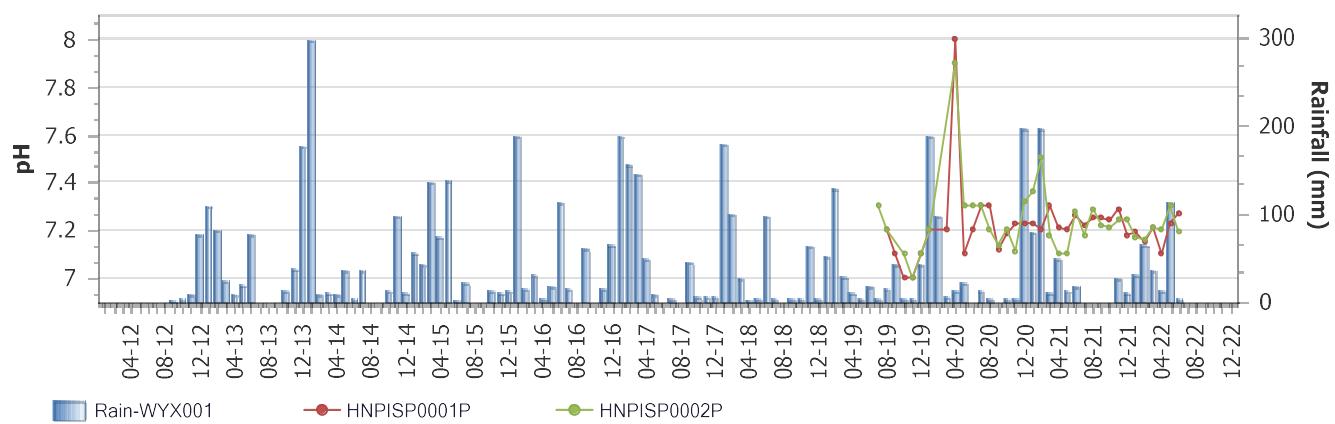
### Yandi Discharge Abstraction



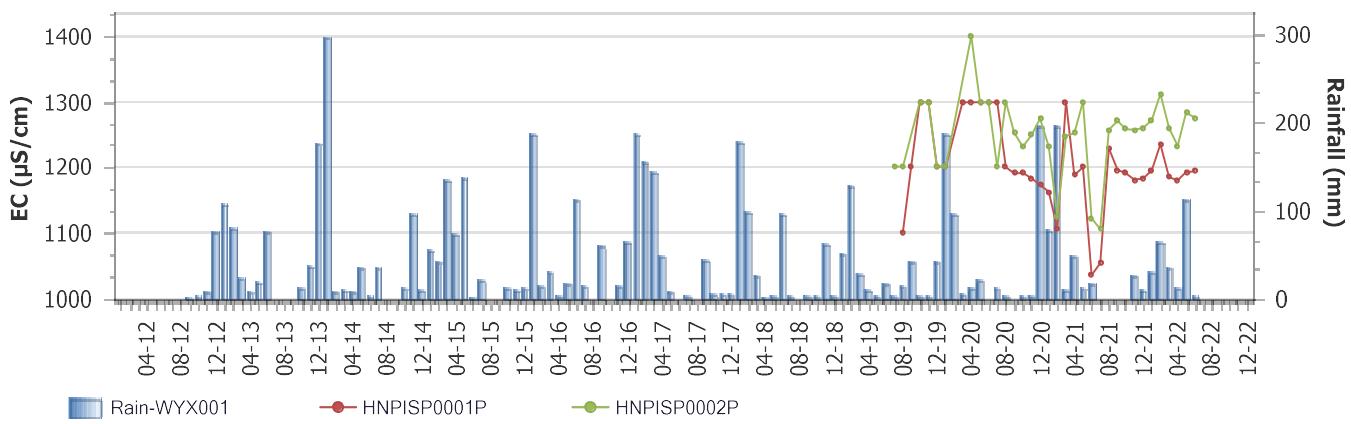
### Monitoring summary: Regional Downgradient Hydrographs

Figure 10.19

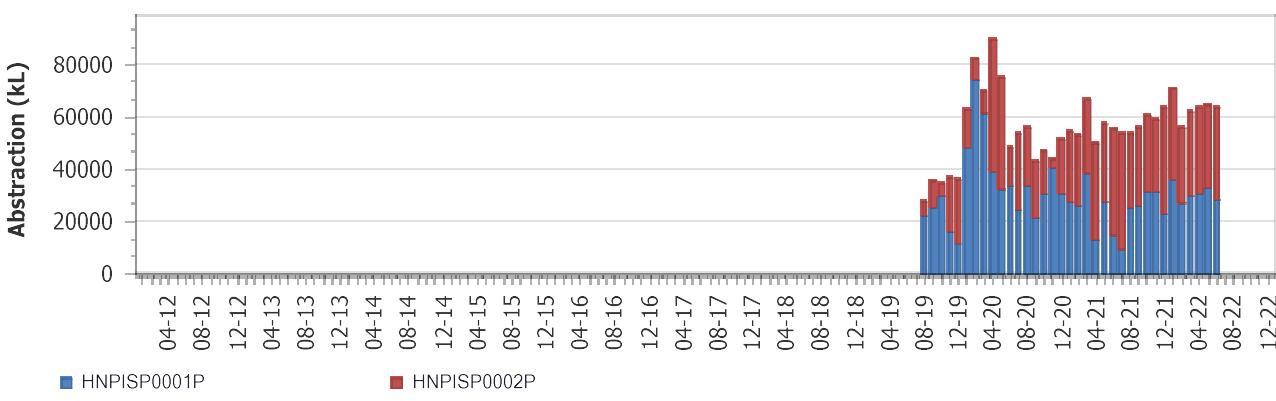
### Spinifex Camp Production Boreholes pH



### Spinifex Camp Production Boreholes EC

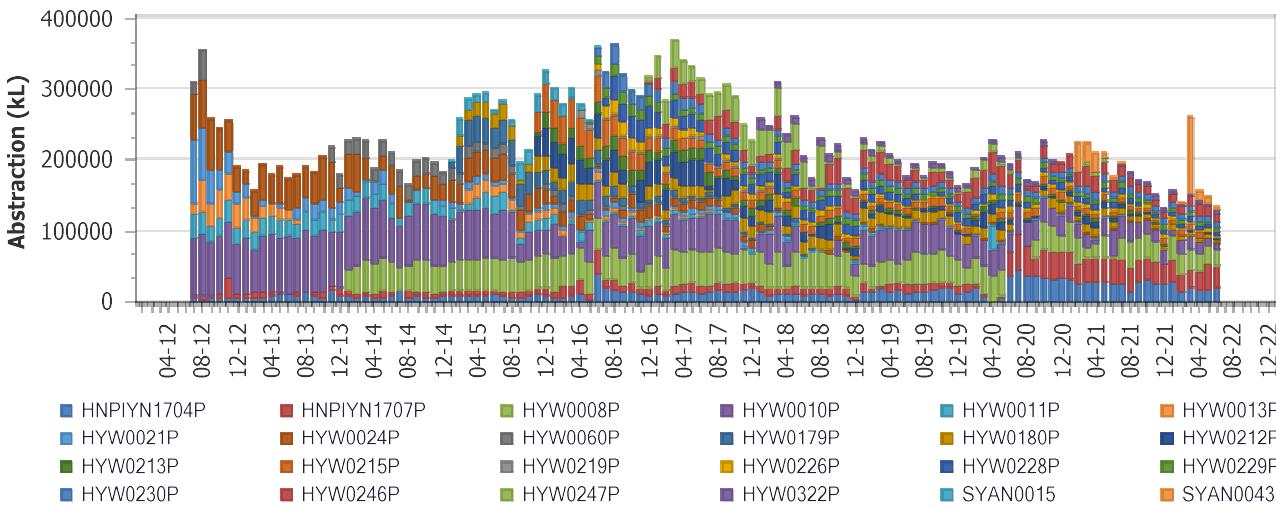
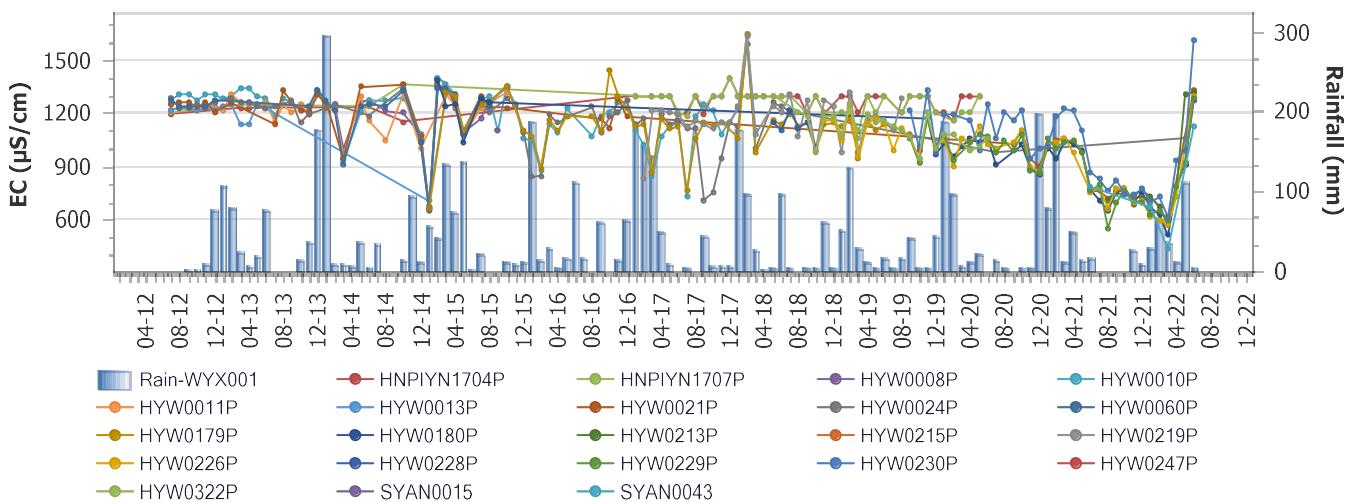
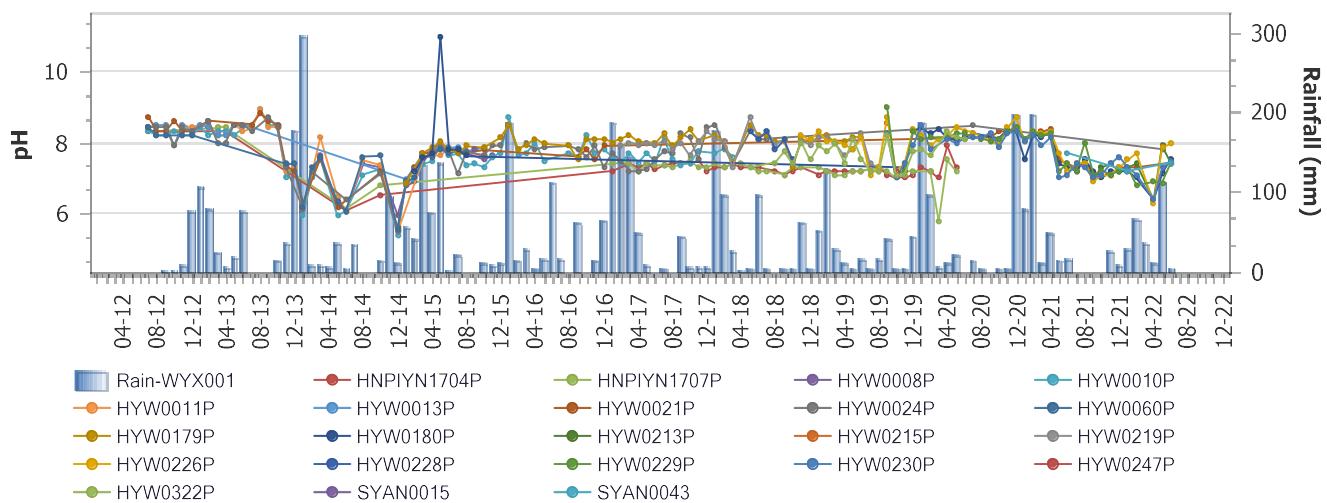


### Spinifex Camp Abstraction



### Monitoring summary: Spinifex Camp Production Boreholes

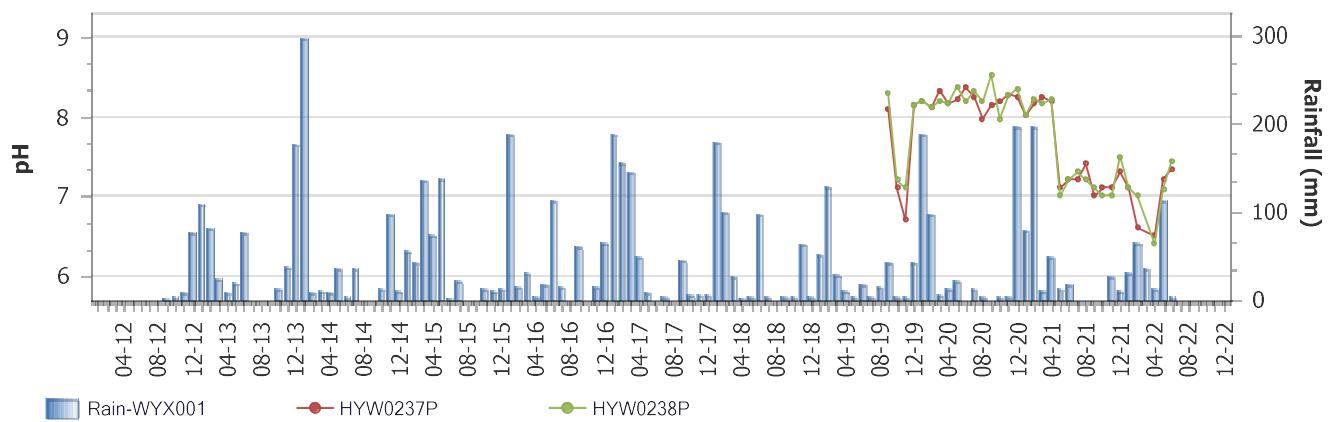
Figure 10.20



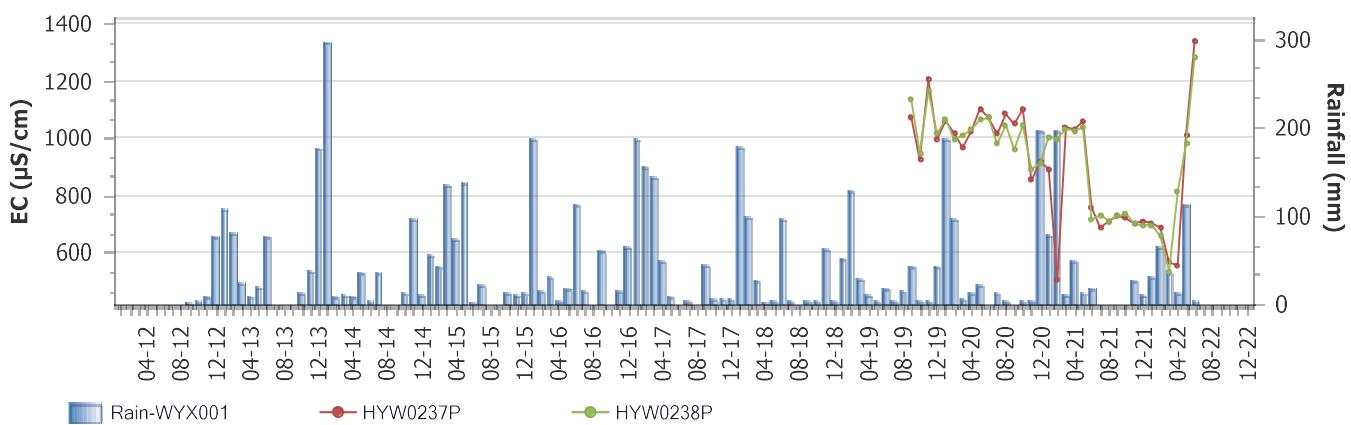
## **Monitoring summary: Western 1 Production Boreholes**

Figure 10.21

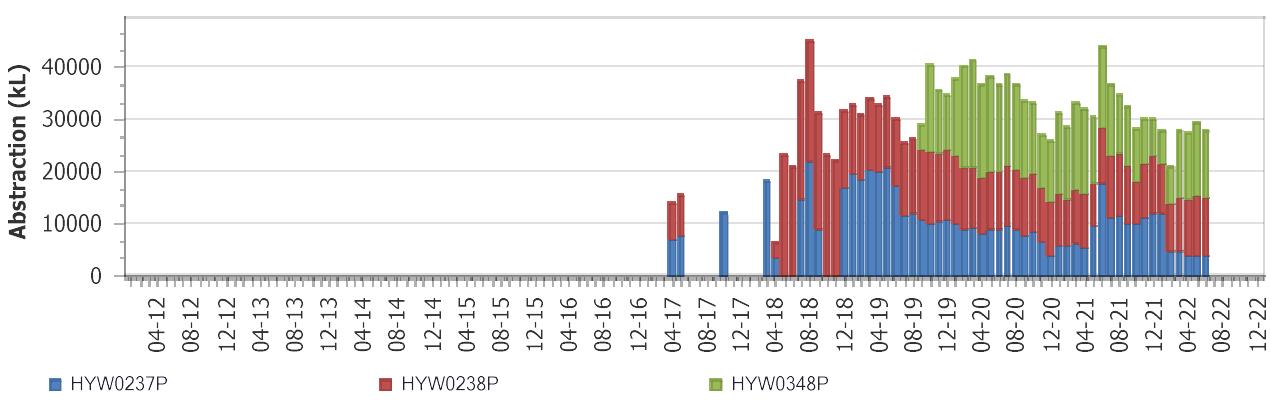
### Western 2 Production Boreholes pH



### Western 2 Production Boreholes EC



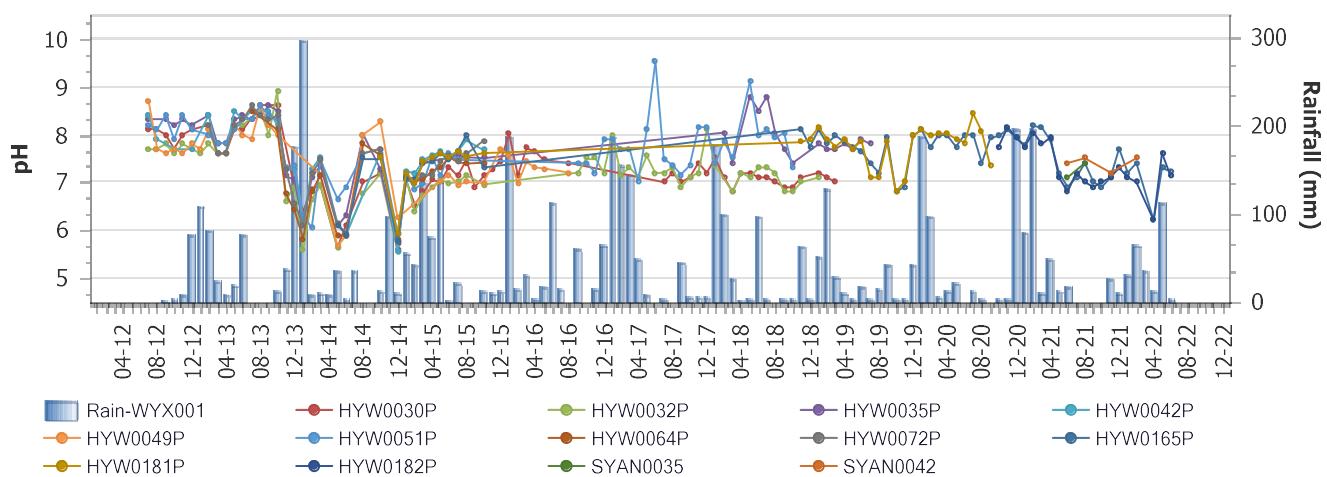
### Western 2 Abstraction



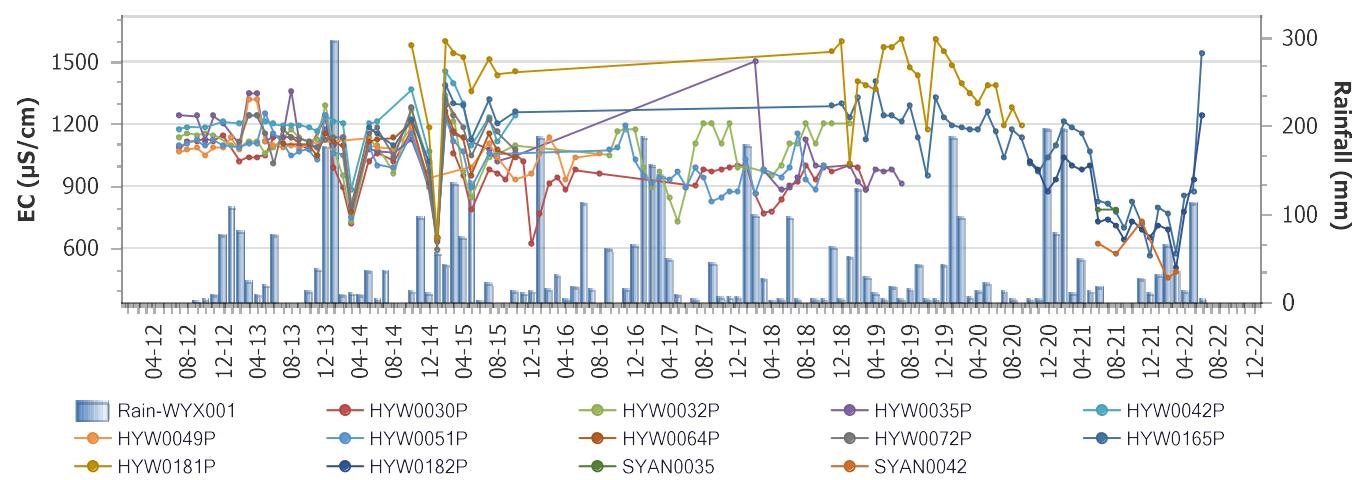
### Monitoring summary: Western 2 Production Boreholes

Figure 10.22

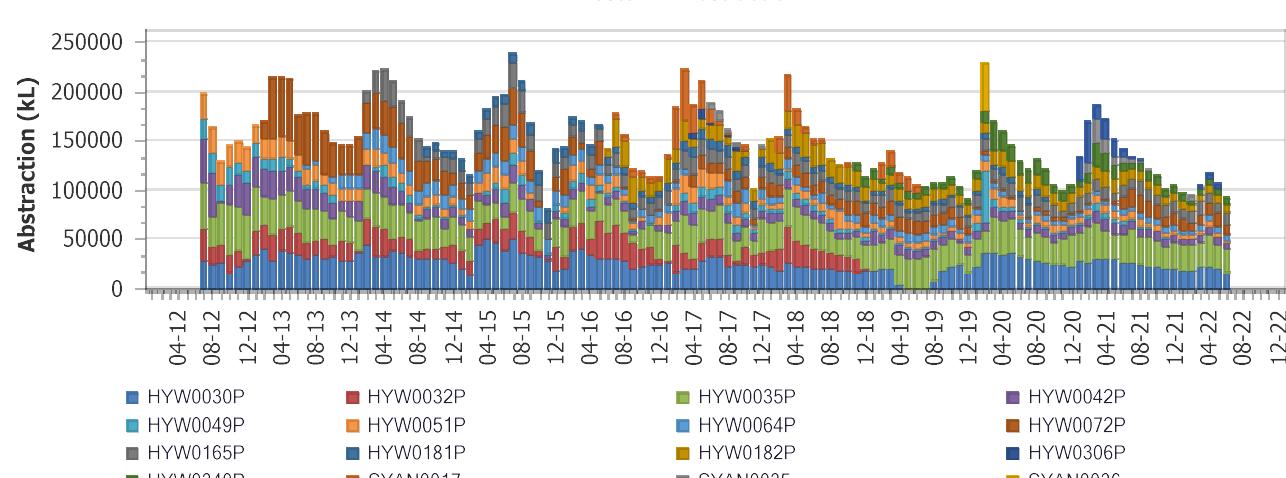
### Western 4 Production Boreholes pH



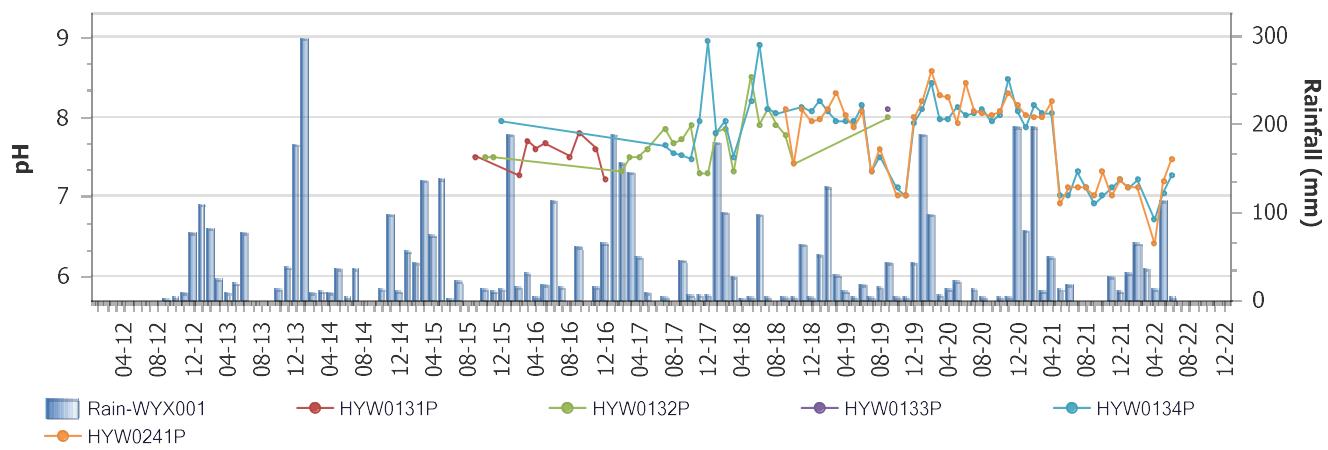
### Western 4 Production Boreholes EC



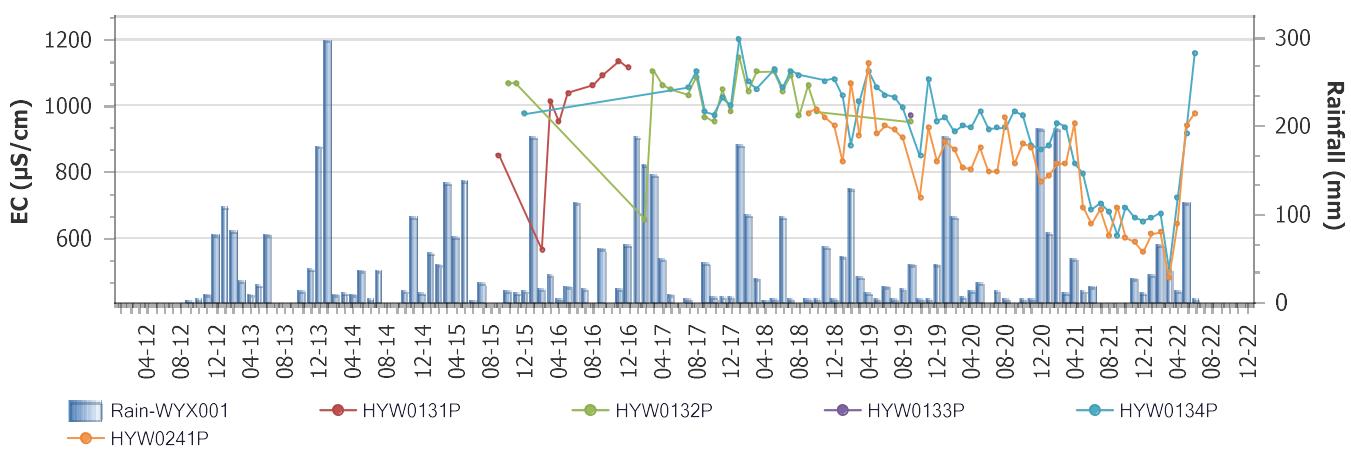
### Western 4 Abstraction



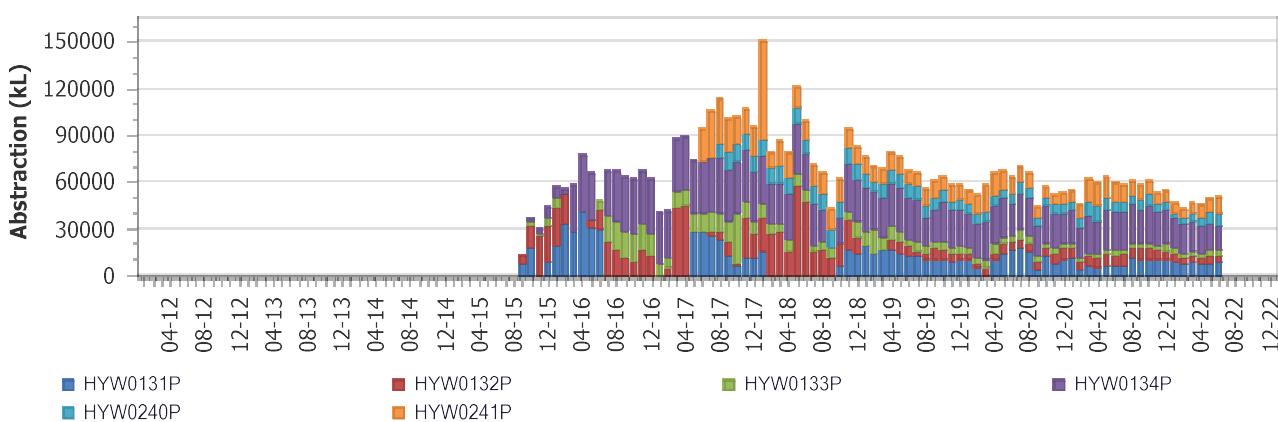
### Western 5 Production Boreholes pH



### Western 5 Production Boreholes EC



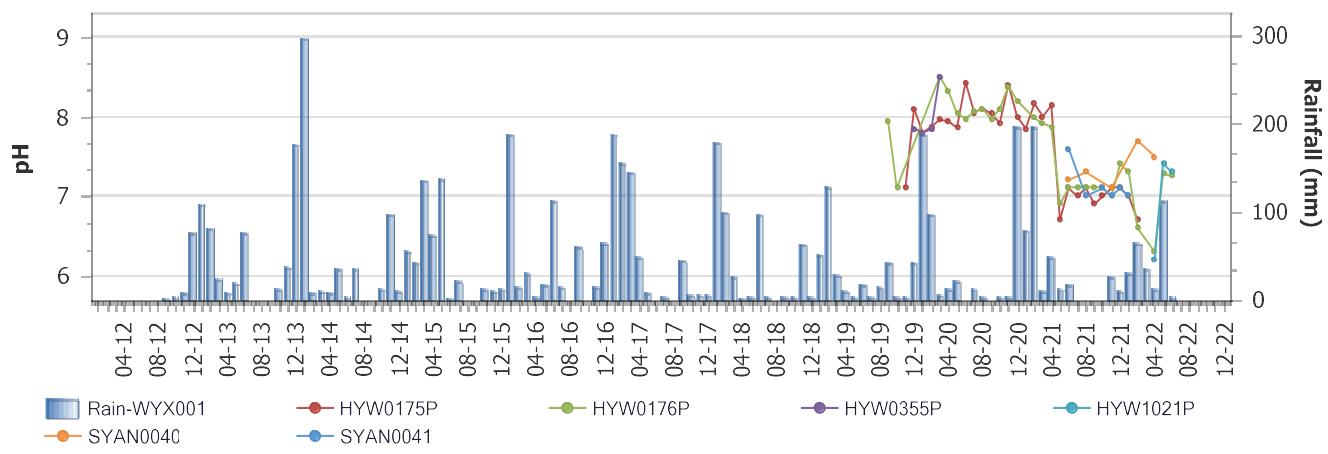
### Western 5 Abstraction



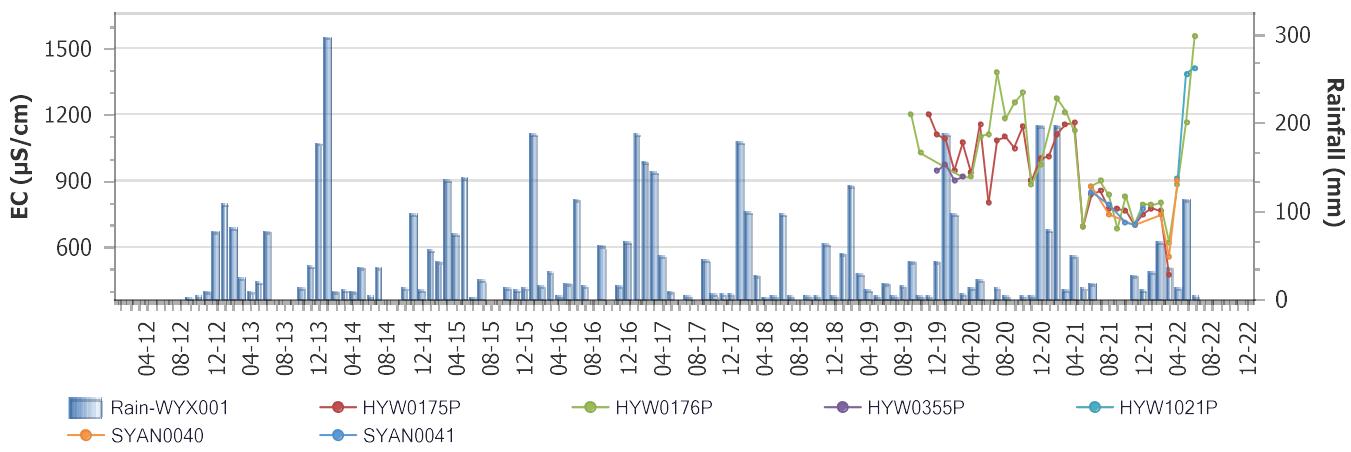
### Monitoring summary: Western 5 Production Boreholes

Figure 10.24

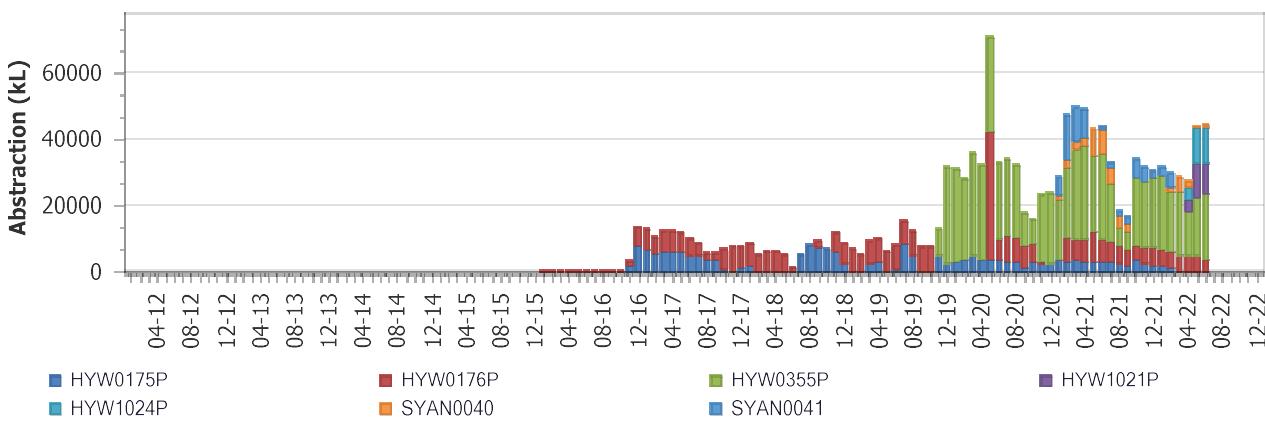
### Western 6 Production Boreholes pH



### Western 6 Production Boreholes EC



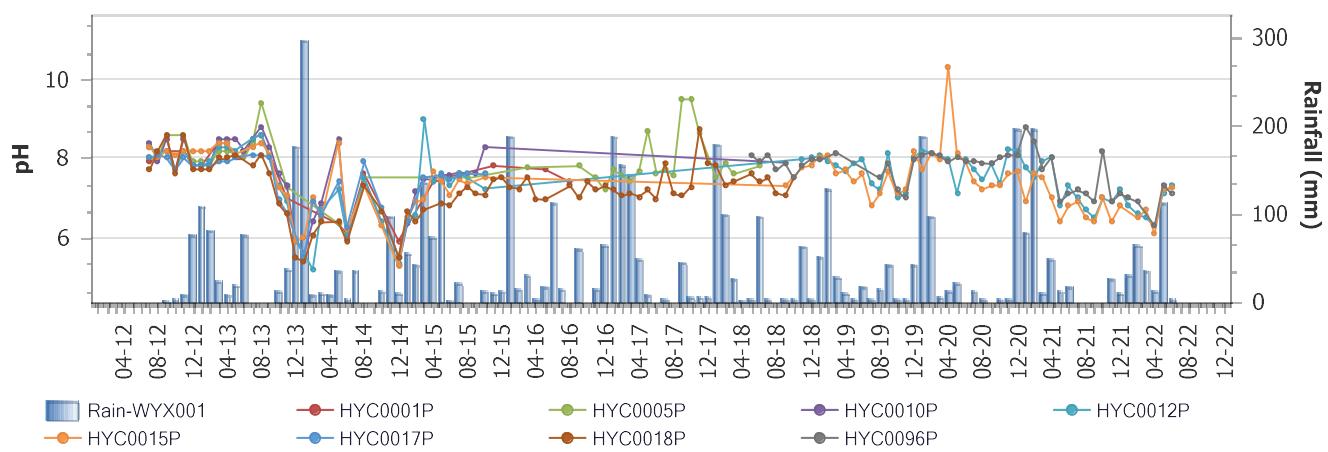
### Western 6 Abstraction



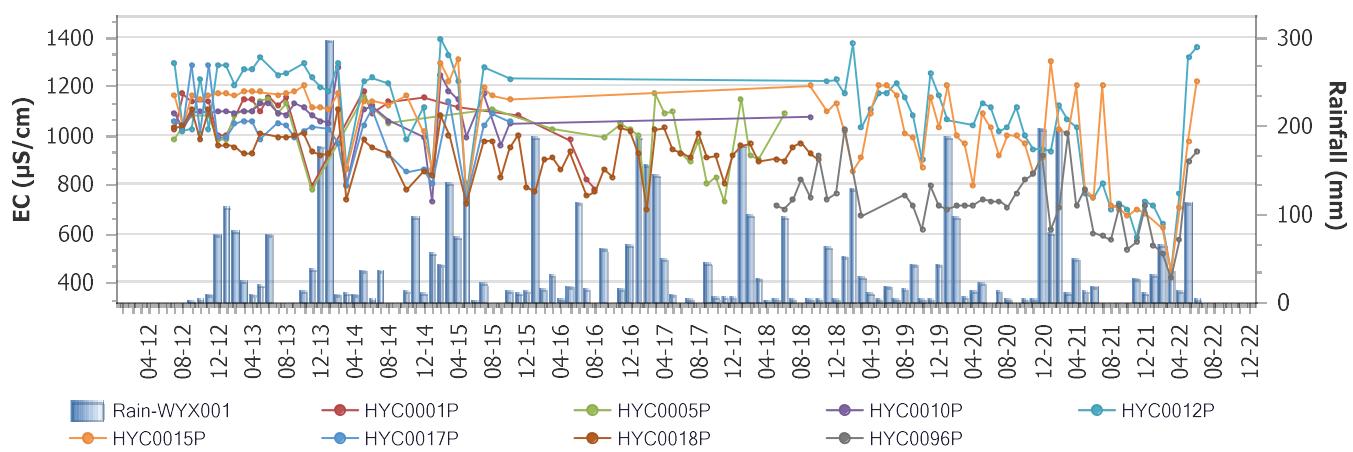
### Monitoring summary: Western 6 Production Boreholes

Figure 10.25

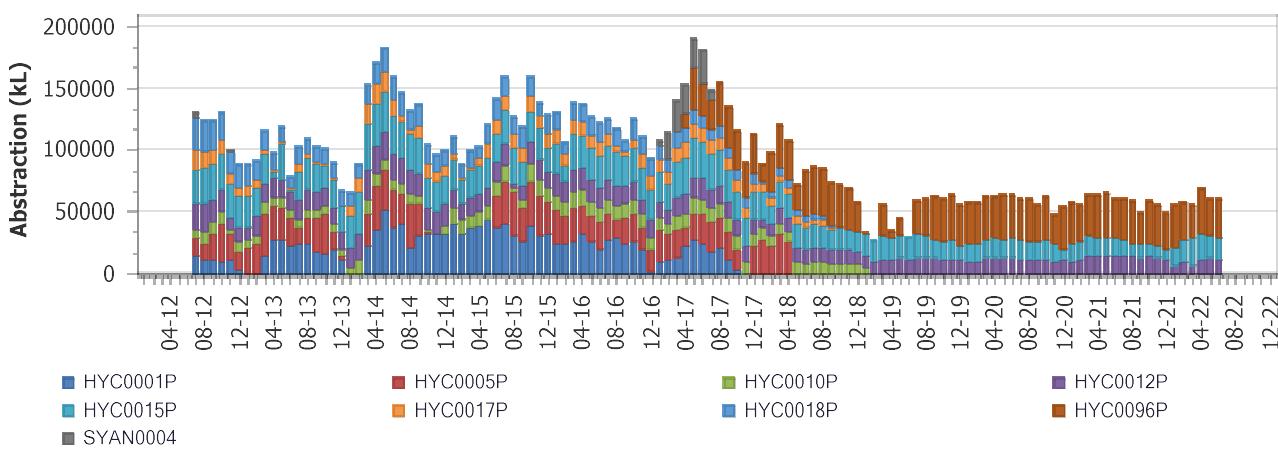
### Central 1 Production Boreholes pH



### Central 1 Production Boreholes EC



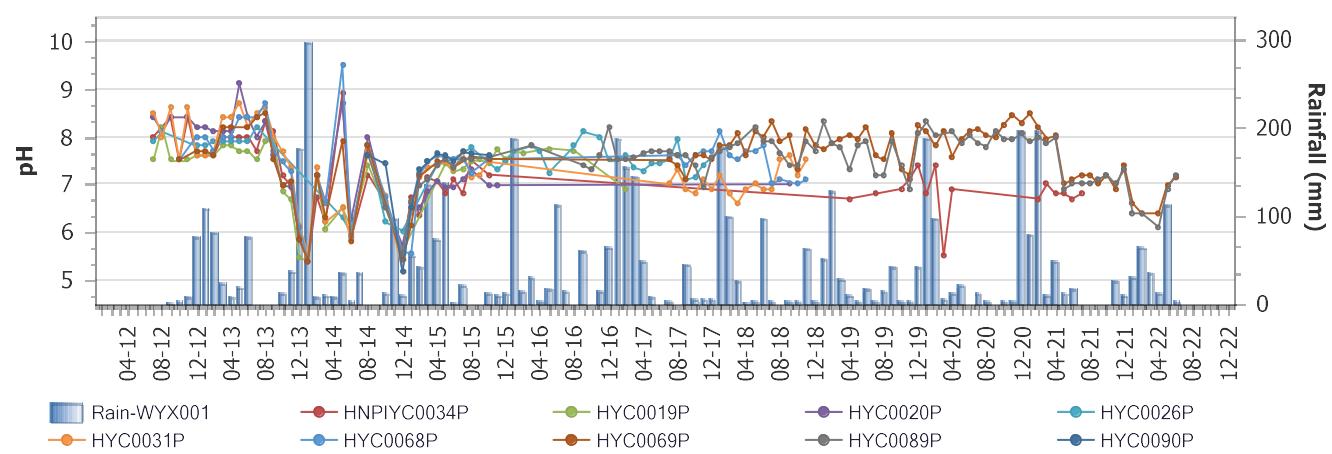
### Central 1 Abstraction



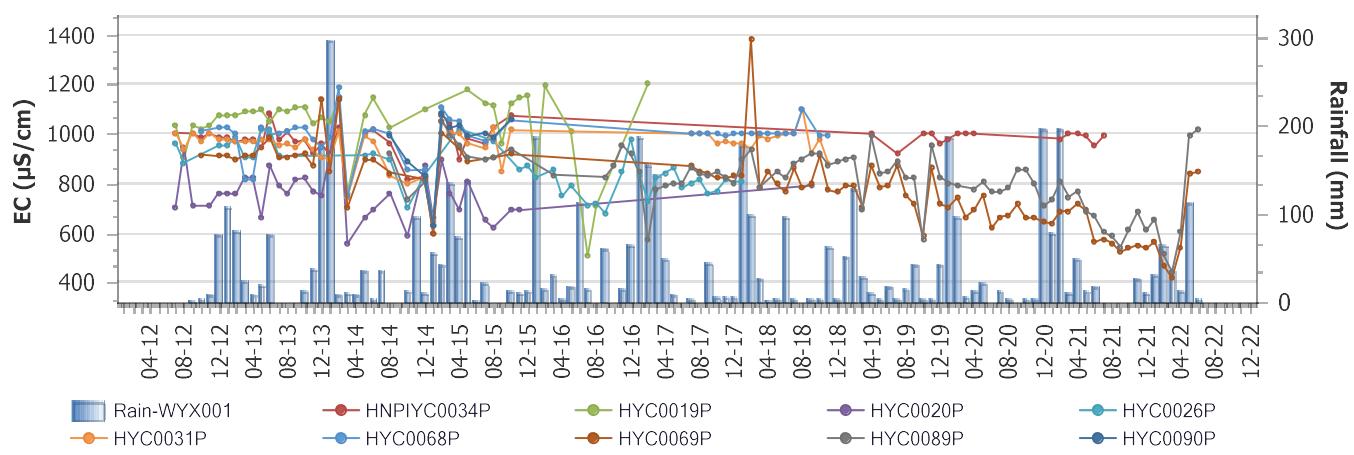
### Monitoring summary: Central 1 Production Boreholes

Figure 10.26

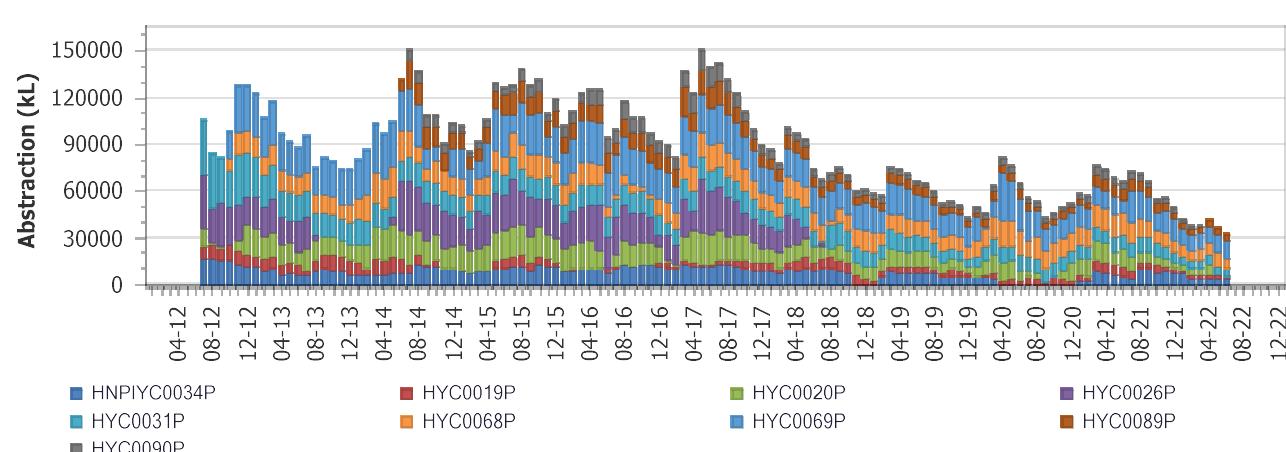
### Central 5 Production Boreholes pH



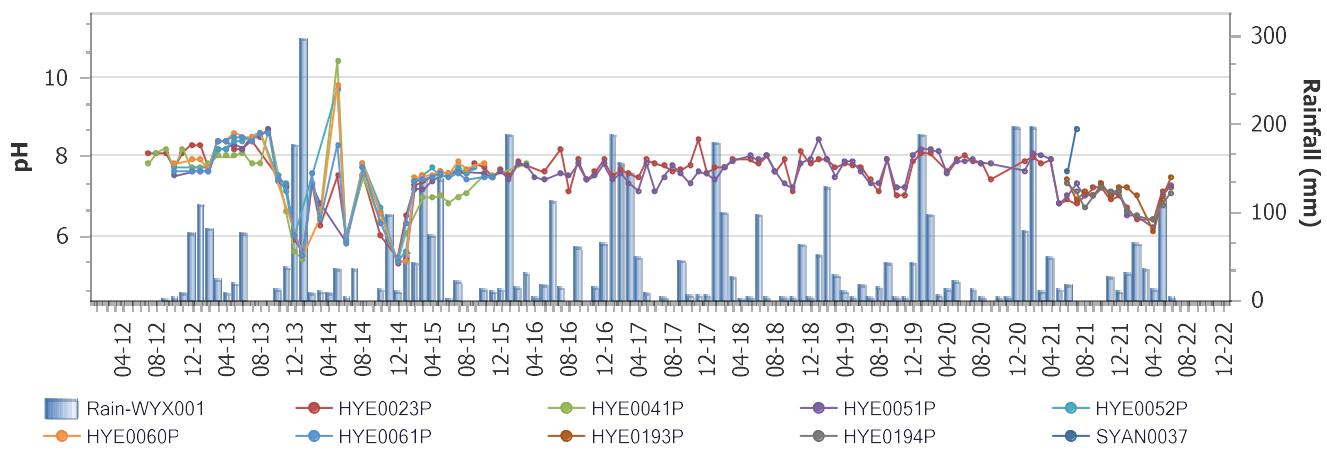
### Central 5 Production Boreholes EC



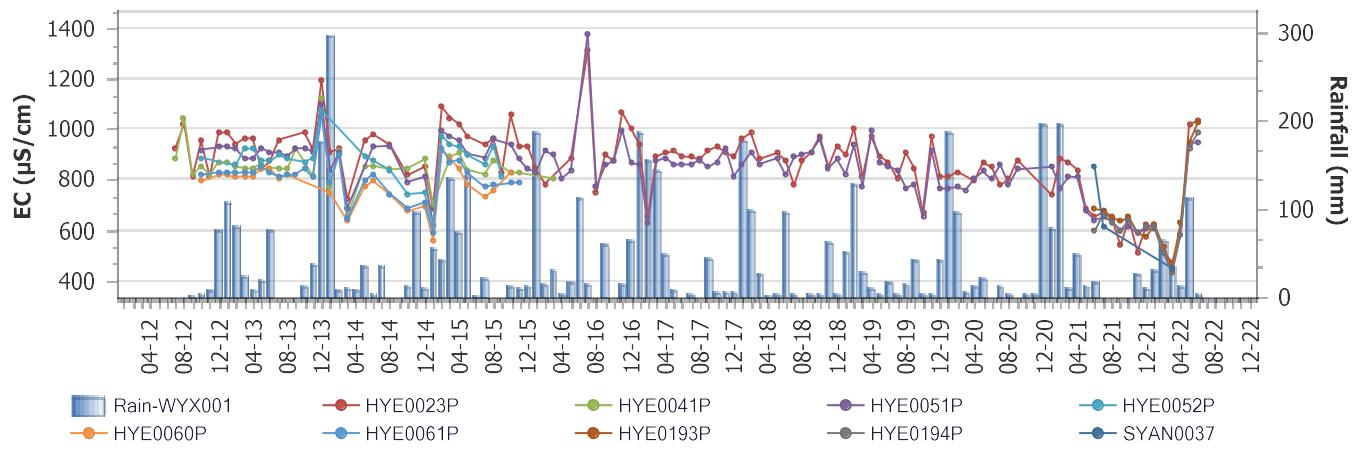
### Central 5 Abstraction



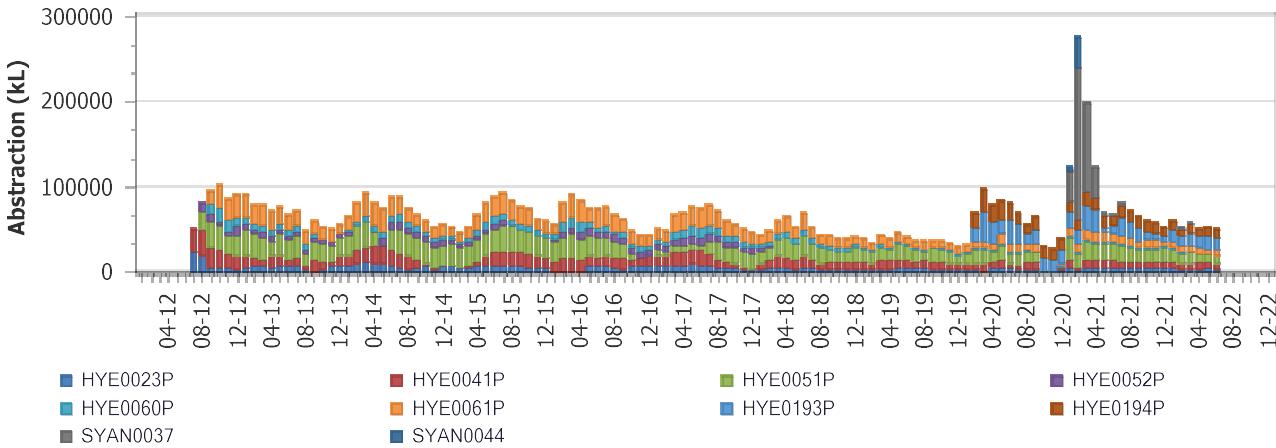
### Eastern 1 & 2 Production Boreholes pH



### Eastern 1 & 2 Production Boreholes EC



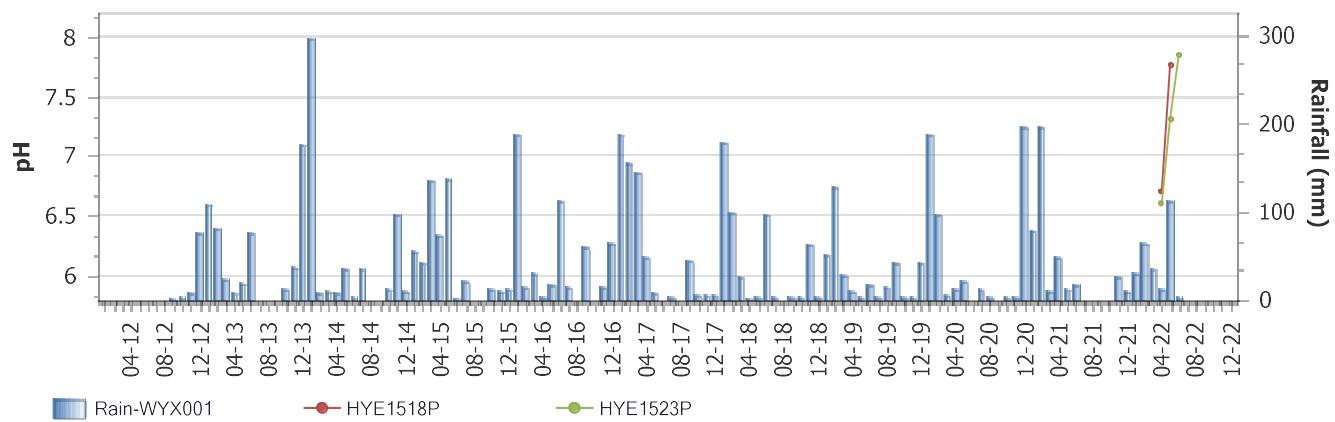
### Eastern 1 & 2 Abstraction



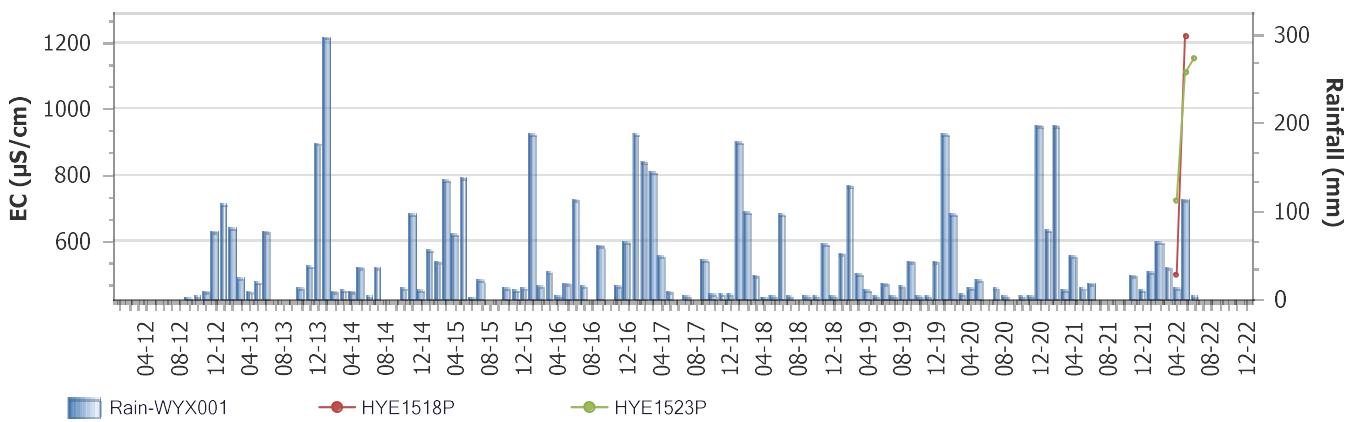
### Monitoring summary: Eastern 1 & 2 Production Boreholes

Figure 10.28

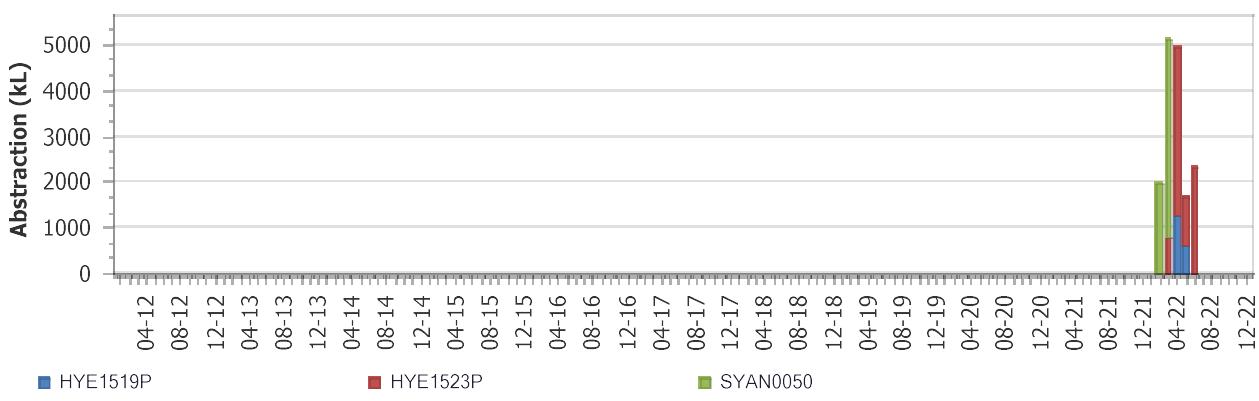
### Eastern 4 Production Boreholes pH



### Eastern 4 Production Boreholes EC

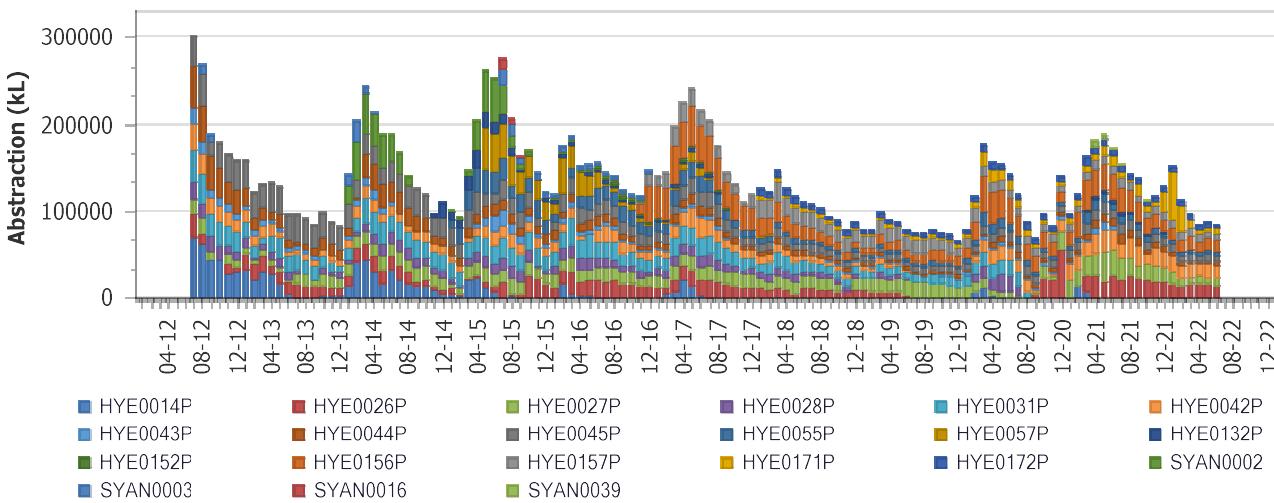
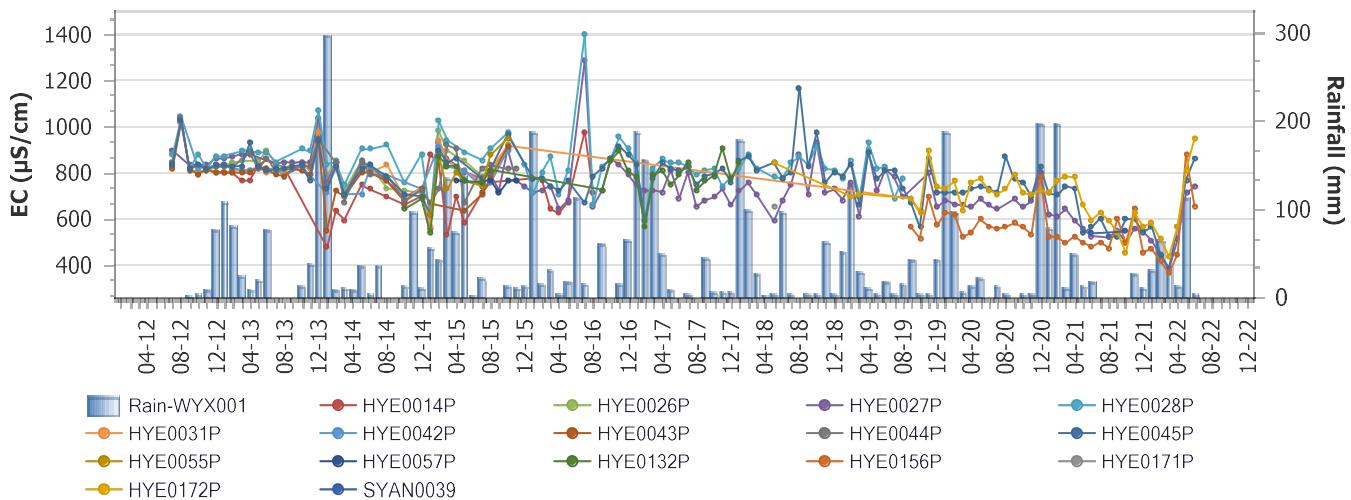
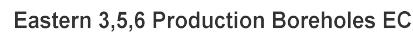
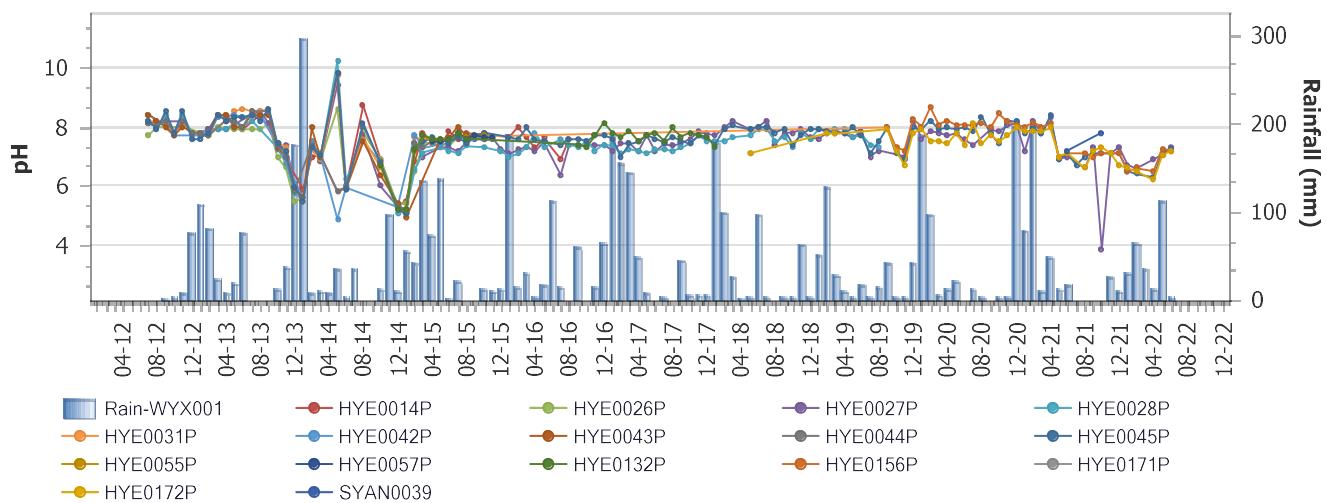


### Eastern 4 Abstraction



### Monitoring summary: Eastern 4 Production Boreholes

Figure 10.29



## **Monitoring summary: Eastern 3,5,6 Production Boreholes**

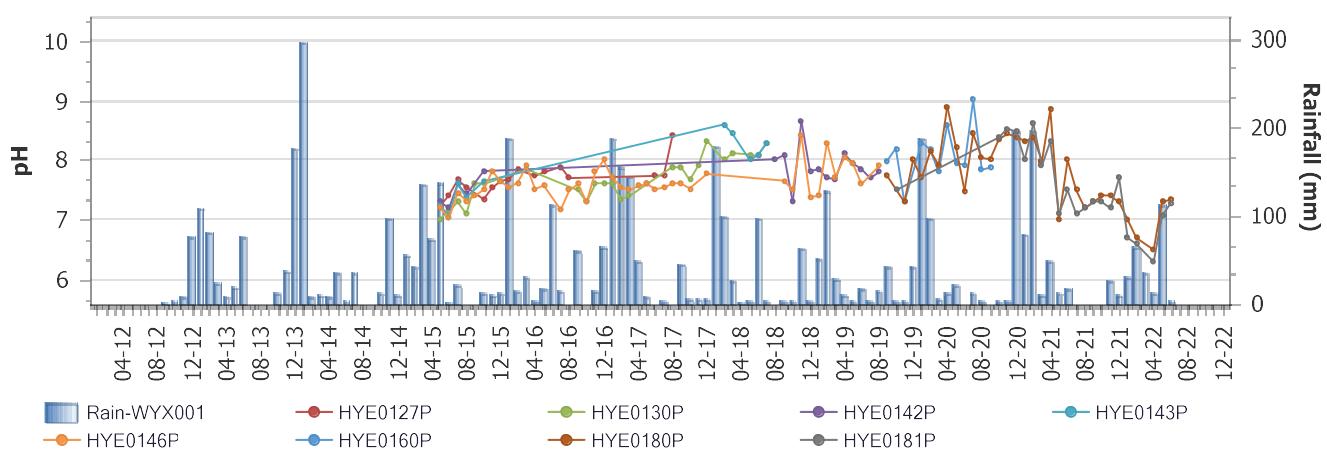
Figure 10.30

## **Yandi Borefields**

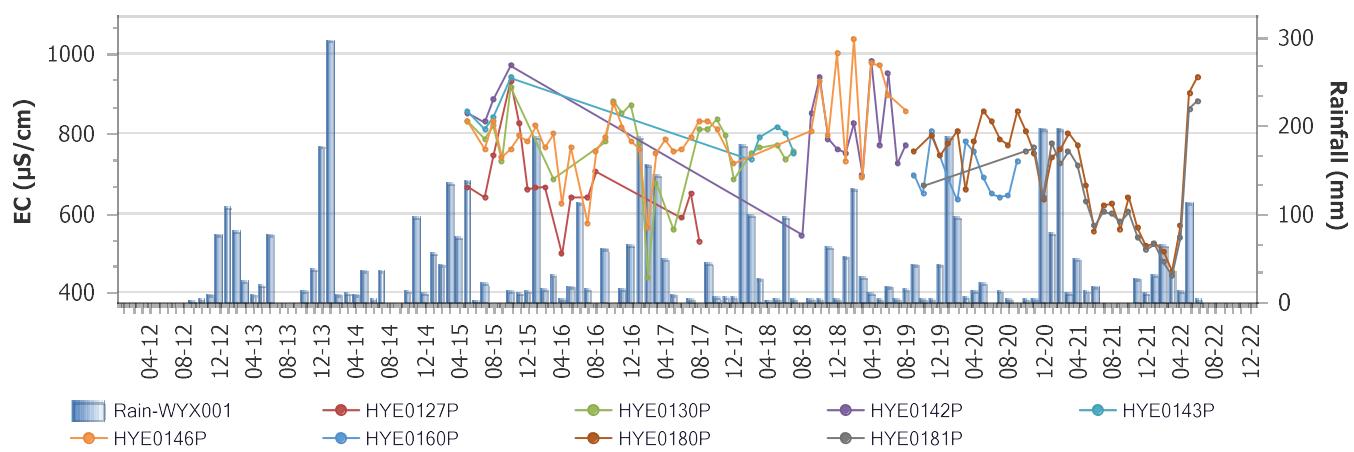
## Triennial Aquifer Review 2022

**BHP**

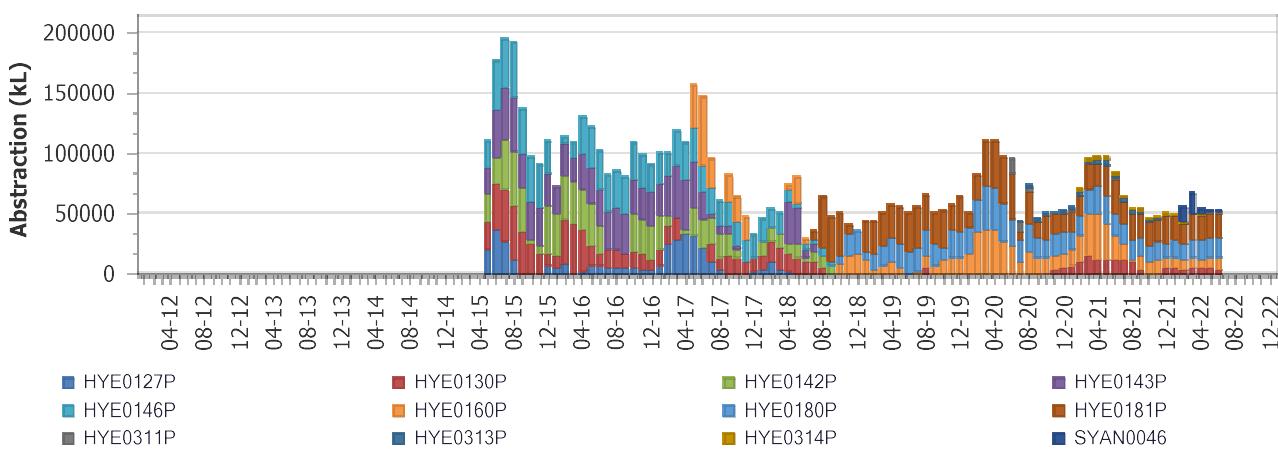
### Eastern 7 Production Boreholes pH



### Eastern 7 Production Boreholes EC



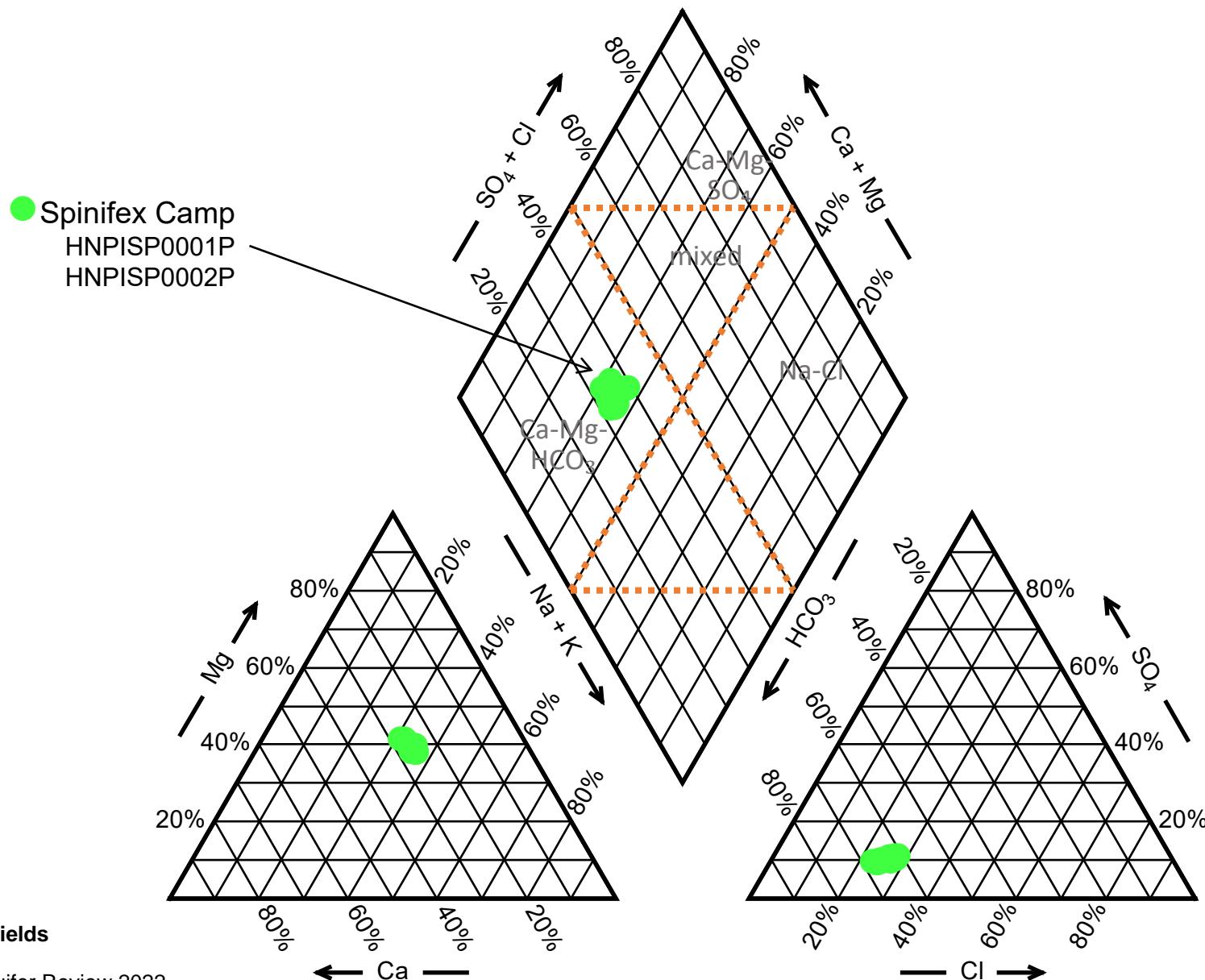
### Eastern 7 Abstraction



### Monitoring summary: Eastern 7 Production Boreholes

Figure 10.31

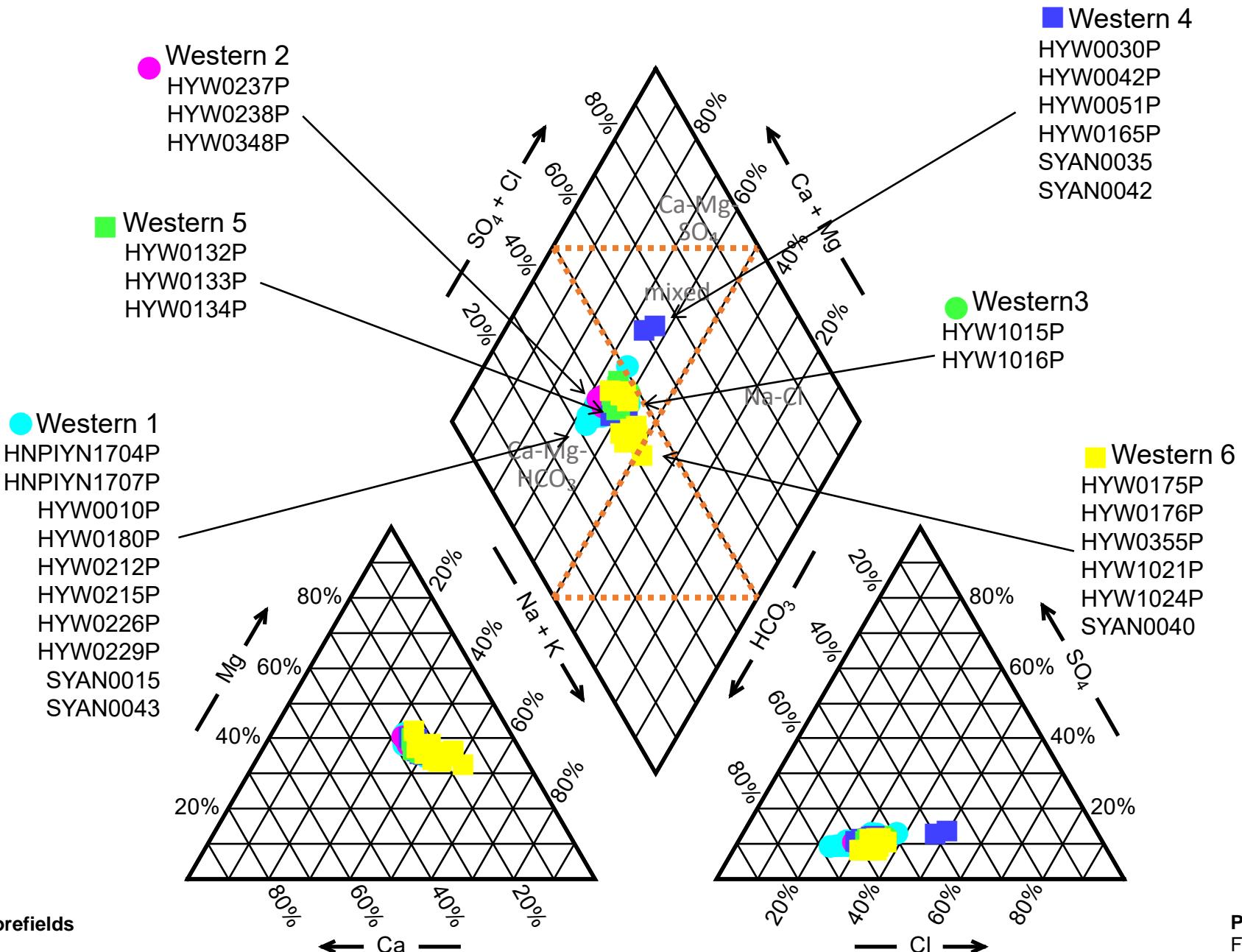
# Yandi- Spinifex Camp



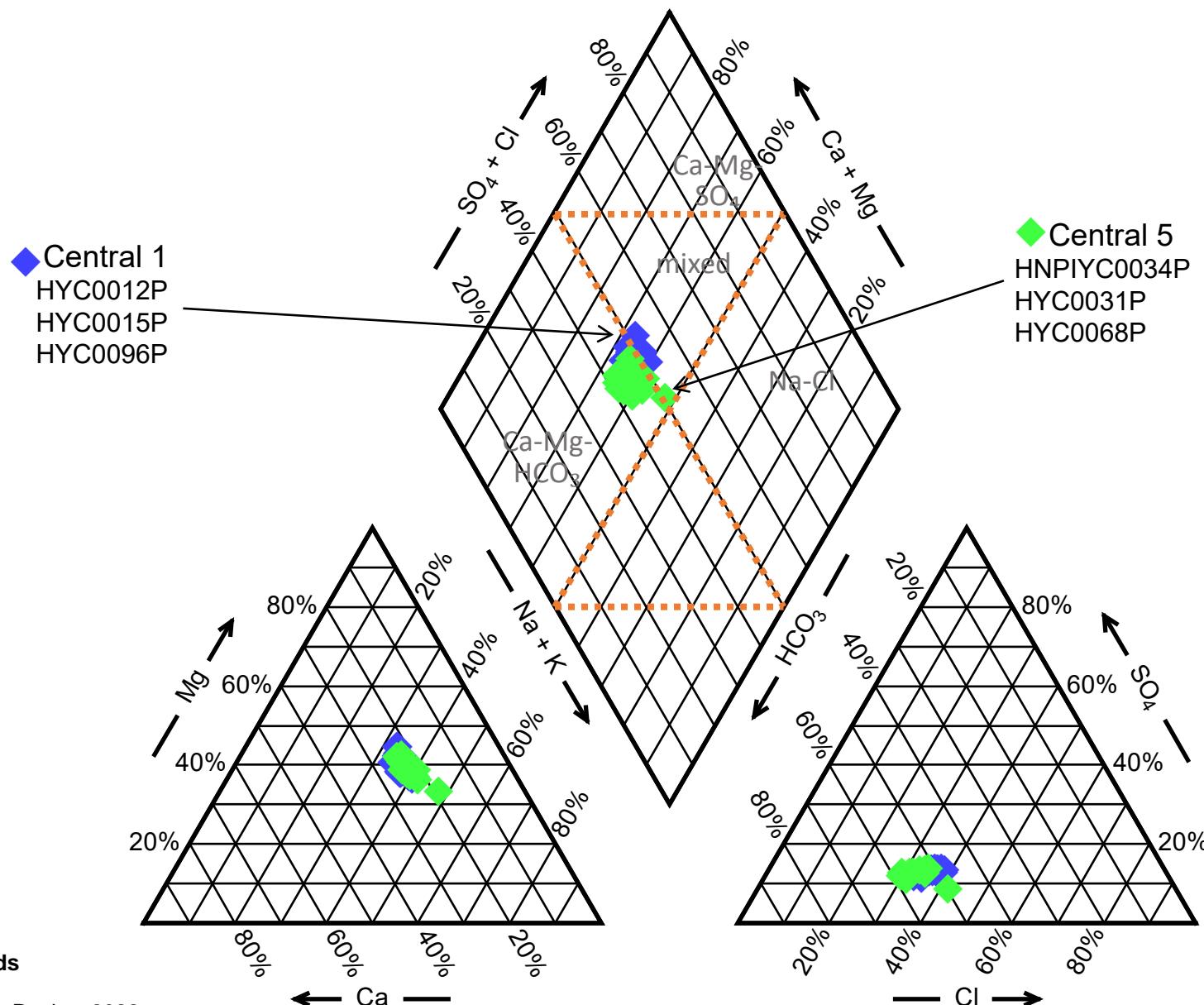
Piper Diagram  
Figure 10.32

**BHP**

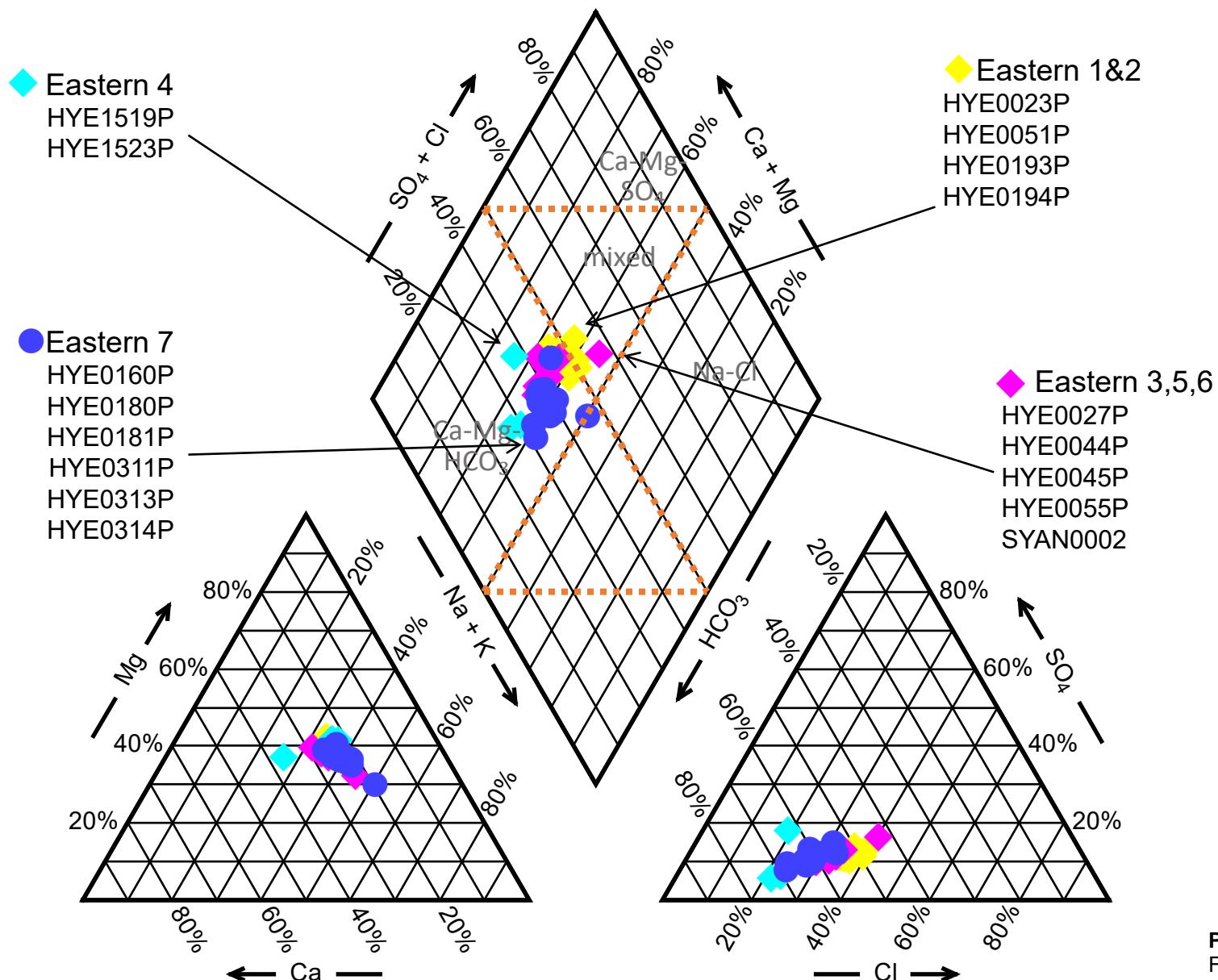
# Yandi- Western Pits



# Yandi- Central Pits



# Yandi- Eastern Pits



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## Appendices





## LICENCE TO TAKE WATER

Granted by the Minister under section 5C of the Rights in Water and Irrigation Act 1914

|                                      |                                       |   |
|--------------------------------------|---------------------------------------|---|
| <b>Licensee(s)</b>                   | BHP Billiton Iron Ore Pty. Ltd.       |   |
| <b>Description of Water Resource</b> | Pilbara<br>Hamersley - Fractured Rock | <b>Annual Water Entitlement</b><br>20,650,520kL |
| <b>Location of Water Source</b>      | L47/118, AM70/270<br>L47/771          |   |

| <b>Authorised Activities</b> | <b>Taking of water for</b>                                | <b>Location of Activity</b>  |
|------------------------------|---|--|
|                              | Dewatering for mining purposes                            | Special Lease K843924<br>Special Lease K843925<br>AM70/270<br>M47/292<br>L47/92<br>G47/18<br>G47/12<br>G47/13<br>G47/14<br>G47/15<br>G47/16<br>G47/17<br>L47/118<br>G47/19<br>L47/95 |
|                              | Dust suppression for earthworks and construction purposes | Special Lease K843924<br>Special Lease K843925<br>AM70/270<br>M47/292<br>L47/92<br>G47/18<br>G47/12<br>G47/13<br>G47/14<br>G47/15<br>G47/16<br>G47/17<br>L47/118<br>G47/19<br>L47/95 |
|                              | Dust Suppression for mining purposes                      | Special Lease K843924<br>Special Lease K843925<br>AM70/270<br>M47/292<br>L47/92<br>G47/18<br>G47/12<br>G47/13<br>G47/14<br>G47/15<br>G47/16<br>G47/17<br>L47/118<br>G47/19<br>L47/95 |



## LICENCE TO TAKE WATER

Granted by the Minister under section 5C of the Rights in Water and Irrigation Act 1914

|  |  |  |
|--|--|--|
|  | Earthwork and construction purposes              | Special Lease K843924<br>Special Lease K843925<br>AM70/270<br>M47/292<br>L47/92<br>G47/18<br>G47/12<br>G47/13<br>G47/14<br>G47/15<br>G47/16<br>G47/17<br>L47/118<br>G47/19<br>L47/95 |
|  | Mineral exploration activities                   | Special Lease K843924<br>Special Lease K843925<br>AM70/270<br>M47/292<br>L47/92<br>G47/18<br>G47/12<br>G47/13<br>G47/14<br>G47/15<br>G47/16<br>G47/17<br>L47/118<br>G47/19<br>L47/95 |
|  | Mineral ore processing and other mining purposes | Special Lease K843924<br>Special Lease K843925<br>AM70/270<br>M47/292<br>L47/92<br>G47/18<br>G47/12<br>G47/13<br>G47/14<br>G47/15<br>G47/16<br>G47/17<br>L47/118<br>G47/19<br>L47/95 |
|  | Mining camp purposes                             | Special Lease K843924<br>Special Lease K843925<br>AM70/270<br>M47/292<br>L47/92<br>G47/18<br>G47/12<br>G47/13<br>G47/14<br>G47/15<br>G47/16<br>G47/17<br>L47/118<br>G47/19<br>L47/95 |



## LICENCE TO TAKE WATER

Granted by the Minister under section 5C of the Rights in Water and Irrigation Act 1914

|                            |                                   |
|----------------------------|-----------------------------------|
| <b>Duration of Licence</b> | From 29 June 2018 to 28 June 2028 |
|----------------------------|-----------------------------------|

**This Licence is subject to the following terms, conditions and restrictions:**

1. The licensee must install an approved meter to each water draw-point through which water is taken under this licence.
2. The meter(s) must be installed in accordance with the provisions of the document entitled "Guidelines for Water Meter Installation 2009" before any water is taken under this licence.
3. The licensee shall comply with the commitments of the operating strategy "GWL Operating Strategy for Yandi Document Number: 0021252 Version 2.0 January 2018", as prepared by the licensee and approved by the Department of Water and Environmental Regulation on 27/06/2018 including any modifications to the commitments as approved during the term of the licence.
4. Every 1 Years the licensee shall provide to the Department of Water and Environmental Regulation a Groundwater Monitoring Summary for the preceding water year. The first report is due 30/09/2018.
5. Every 3 Years the licensee shall provide to the Department of Water and Environmental Regulation a Groundwater Monitoring Review. The first report is due 30/09/2019. A Groundwater Monitoring Summary need not be submitted in a year in which a Groundwater Monitoring Review is due.
6. The annual water year for water taken under this licence is defined as 1 July to 30 June.

**End of terms, conditions and restrictions**

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## **Appendix 10.2**

## **Borehole details**

## Yandi Borefields production borehole details

| Area                          | Sample Point ID | Easting (MGA94) | Northing (MGA94) | TOC (m RL) | Construction Date | Depth (m bgl) | SWL (m bTOC) | SWL (m RL) | Screen Interval/Target Geology | Purpose                  |
|-------------------------------|-----------------|-----------------|------------------|------------|-------------------|---------------|--------------|------------|--------------------------------|--------------------------|
| Barimunya Aerodrome Central 1 | FYAN0001        | 722507.3        | 7491107.5        | 579.00     |                   |               |              |            | NA                             | Potable                  |
|                               | HYC0001P        | 711689.8        | 7485688.1        | 572.66     |                   | 0             |              |            | Unknown Stratigraphy           | Production               |
|                               | HYC0005P        | 711760.8        | 7485621.6        | 572.36     |                   | 0             |              |            | Unknown Stratigraphy           | Production               |
|                               | HYC0010P        | 712386.6        | 7486073.5        | 517.96     |                   | 38            |              |            | Unknown Stratigraphy           | Production               |
|                               | HYC0012P        | 712830.7        | 7486086.8        | 522.04     | 28-Apr-08         | 57            | 3.11         | 518.92     | Marillana Formation            | Production               |
|                               | HYC0015P        | 714010.4        | 7486135.9        | 520.87     |                   | 90            |              |            | Unknown Stratigraphy           | Production NPI           |
|                               | HYC0017P        | 714430.1        | 7486359.1        | 515.97     |                   | 35            |              |            | Unknown Stratigraphy           | Production               |
|                               | HYC0018P        | 715066.5        | 7486390.7        | 515.64     |                   | 37            |              |            | Unknown Stratigraphy           | Production               |
|                               | HYC0096P        | 715356.4        | 7486318.5        | 504.81     | 31-Jan-17         | 58            |              |            | Marillana Formation            | Production               |
|                               | SYAN0004        | 714305.7        | 7486230.0        | 516.00     |                   |               |              |            | NA                             | Sump                     |
| Central 1 WL                  | HYC0014P        | 713798.0        | 7486028.0        | 520.69     |                   | 35            |              |            | Unknown Stratigraphy           | Production               |
|                               | HYC0018P        | 715066.5        | 7486390.7        | 515.64     |                   | 37            |              |            |                                | ction, now used for moni |
|                               | HYC0055M        | 714807.2        | 7486503.8        | 516.71     |                   | 20            |              |            | Unknown Stratigraphy           | Monitoring               |
|                               | HYC0061M        | 714224.1        | 7486164.5        | 517.54     |                   | 0             |              |            | Unknown Stratigraphy           | Monitoring               |
| Central 5                     | HNPIYC0034P     | 716056.3        | 7485199.0        | 509.52     | 25-Jun-11         | 54            |              |            | Marillana Formation            | Production NPI           |
|                               | HYC0019P        | 715786.3        | 7486288.0        | 516.85     | 11-May-08         | 76            | 16.95        | 551.75     | Marillana Formation            | Production               |
|                               | HYC0020P        | 715626.1        | 7486166.2        | 569.04     |                   | 100           |              |            | Unknown Stratigraphy           | Production               |
|                               | HYC0026P        | 715514.4        | 7484578.8        | 563.24     |                   | 100           |              |            | Marillana Formation            | Production               |
|                               | HYC0031P        | 715734.6        | 7484874.4        | 515.81     | 22-Jun-11         | 50            |              |            | Unknown Stratigraphy           | Production               |
|                               | HYC0068P        | 715932.9        | 7485029.0        | 510.16     | 22-Jun-12         | 38            |              |            | Unknown Stratigraphy           | Production               |
|                               | HYC0069P        | 715430.3        | 7484759.6        | 515.49     | 24-Jun-12         | 45            |              |            | Unknown Stratigraphy           | Production               |
|                               | HYC0089P        | 715733.5        | 7486033.7        | 516.37     | 06-May-14         | 32            |              |            | Unknown Stratigraphy           | Production               |
|                               | HYC0090P        | 715956.8        | 7485689.8        | 510.33     | 10-May-14         | 23            |              |            | Unknown Stratigraphy           | Production               |
| Central 5 WL                  | HYC0021P        | 715920.8        | 7485895.6        | 517.47     |                   | 39            |              |            | Unknown Stratigraphy           | Production               |
|                               | HYC0066M        | 715451.6        | 7484799.8        | 515.88     | 17-Jun-12         | 58            |              |            | Marillana Formation            | Monitoring               |
|                               | HYC0067M        | 716000.9        | 7485066.1        | 511.10     | 19-Jun-12         | 45            |              |            | Marillana Formation            | Monitoring               |
|                               | HYM0019M        | 713109.7        | 7485142.1        | 553.44     | 17-Nov-12         | 14            | 0.97         | 552.47     | Weeli Wollie Formation         | Monitoring               |

**Yandi Borefields**

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**BHP**

## Yandi Borefields production borehole details (cont'd)

| Area             | Sample Point ID | Easting (MGA94) | Northing (MGA94) | TOC (m RL) | Construction Date | Depth (m bgl) | SWL (m bTOC) | SWL (m RL) | Screen Interval/Target Geology | Purpose    |
|------------------|-----------------|-----------------|------------------|------------|-------------------|---------------|--------------|------------|--------------------------------|------------|
| Discharge        | FYAN0003        | 713279.7        | 7485167.2        | 556.00     |                   |               |              |            | NA                             | Discharge  |
|                  | FYAN0011        | 720665.6        | 7478484.5        | 528.00     |                   |               |              |            | NA                             | Discharge  |
|                  | FYAN0054        | 706961.9        | 7483974.0        | 400.00     |                   |               |              |            | NA                             | Discharge  |
| Eastern 1 & 2    | HYE0023P        | 716257.3        | 7483956.4        | 506.89     | 06-Jun-11         | 48            |              |            | Marillana Formation            | Production |
|                  | HYE0041P        | 716290.4        | 7483862.2        | 506.28     | 09-Jun-11         | 48            |              |            | Marillana Formation            | Production |
|                  | HYE0051P        | 716430.2        | 7483863.4        | 503.23     | 13-May-12         | 54            | 3.43         | 499.53     | Unknown Stratigraphy           | Production |
|                  | HYE0052P        | 716686.2        | 7483768.6        |            | 15-May-12         | 34            |              |            | Unknown Stratigraphy           | Production |
|                  | HYE0060P        | 716122.6        | 7483956.7        | 505.95     | 29-Jul-12         | 38            |              |            | Unknown Stratigraphy           | Production |
|                  | HYE0061P        | 716126.6        | 7483916.7        | 506.15     | 01-Aug-12         | 40            |              |            | Unknown Stratigraphy           | Production |
|                  | HYE0193P        | 715404.8        | 7484224.1        | 511.19     | 29-Oct-19         | 42            |              |            |                                | Production |
|                  | HYE0194P        | 715556.4        | 7483921.3        | 511.79     | 28-Oct-19         | 42            |              |            |                                | Production |
|                  | SYAN0001        | 716124.9        | 7483860.2        | 503.40     |                   |               |              |            |                                | Sump       |
|                  | SYAN0037        | 715223.7        | 7484559.3        | 534.00     |                   |               |              |            |                                | Sump       |
|                  | SYAN0044        | 715270.9        | 7484404.3        | 534.00     | 01-Jul-20         |               |              |            |                                |            |
| Eastern 1 & 2 WL | HYE0001M        | 716050.4        | 7484019.7        | 510.31     |                   | 14            |              |            | Unknown Stratigraphy           | Monitoring |
|                  | HYE0050M1       | 715592.9        | 7484221.3        | 557.69     | 11-May-12         | 80            |              |            | Weeli Wolli Formation          | Monitoring |
|                  | HYE0190M        | 715493.8        | 7484191.8        | 510.93     | 28-Oct-19         | 36            |              |            |                                |            |
|                  | HYE0191M        | 715562.1        | 7483966.0        | 511.83     | 28-Oct-19         | 36            |              |            |                                |            |
|                  | YE0645DM        | 716166.0        | 7483931.7        | 506.08     |                   | 32            |              |            | Marillana Formation            | Monitoring |
| Eastern 3,5,6    | HYE0014P        | 719610.9        | 7480034.8        | 541.36     | 03-Apr-06         | 54            | 8.26         | 531.63     | Marillana Formation            | Production |
|                  | HYE0026P        | 717994.3        | 7482076.4        | 501.91     | 15-Mar-11         | 52            |              |            | Marillana Formation            | Production |
|                  | HYE0027P        | 717928.9        | 7482036.2        | 504.87     | 15-May-11         | 60            |              |            | Marillana Formation            | Production |
|                  | HYE0028P        | 718033.9        | 7481934.3        | 504.58     | 24-May-11         | 42            |              |            | Marillana Formation            | Production |
|                  | HYE0031P        | 718196.1        | 7481730.4        | 503.93     | 26-May-11         | 45            |              |            | Marillana Formation            | Production |
|                  | HYE0042P        | 718323.2        | 7481689.7        | 505.57     | 25-Mar-12         | 54            |              |            | Marillana Formation            | Production |
|                  | HYE0043P        | 718507.5        | 7481596.8        | 497.84     | 19-Mar-12         | 36            |              |            | Marillana Formation            | Production |
|                  | HYE0044P        | 718899.3        | 7481455.3        | 497.64     | 03-Apr-12         | 39            |              |            | Unknown Stratigraphy           | Production |
|                  | HYE0045P        | 719197.3        | 7481356.1        | 498.72     | 21-Apr-12         | 58            |              |            | Marillana Formation            | Production |

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## Yandi Borefields production borehole details (cont'd)

| Area                             | Sample Point ID | Easting (MGA94) | Northing (MGA94) | TOC (m RL) | Construction Date | Depth (m bgl) | SWL (m bTOC) | SWL (m RL) | Screen Interval/Target Geology | Purpose    |
|----------------------------------|-----------------|-----------------|------------------|------------|-------------------|---------------|--------------|------------|--------------------------------|------------|
| Central 1,2,3,4,5,6<br>WL        | HYE0055P        | 719524.7        | 7480890.3        | 498.87     | 09-Jul-12         | 86            | 10.14        | 534.22     | Unknown Stratigraphy           | Production |
|                                  | HYE0057P        | 719616.0        | 7480681.0        | 492.66     | 15-Jul-12         | 82            | 7.35         | 535.09     | Unknown Stratigraphy           | Production |
|                                  | HYE0132P        | 719297.8        | 7481172.2        | 498.46     | 12-May-14         | 38            |              |            | Unknown Stratigraphy           | Production |
|                                  | HYE0152P        | 719462.8        | 7480782.1        | 498.85     | 28-Feb-16         | 27            |              |            | Marillana Formation            | Production |
|                                  | HYE0156P        | 719570.0        | 7480355.7        | 498.68     | 17-Jun-16         | 57            |              |            | Marillana Formation            | Production |
|                                  | HYE0157P        | 719660.5        | 7480275.8        | 497.93     | 19-Jun-16         | 50            |              |            | Marillana Formation            | Production |
|                                  | HYE0171P        | 719601.5        | 7480208.3        | 498.55     | 18-Nov-17         | 46            |              |            | Marillana Formation            | Production |
|                                  | HYE0172P        | 719424.7        | 7481032.7        | 498.66     | 14-Nov-17         | 45            |              |            | Marillana Formation            | Production |
|                                  | SYAN0002        | 719151.7        | 7481117.3        | 493.50     |                   |               |              |            | NA                             | Sump       |
|                                  | SYAN0003        | 718014.5        | 7482133.6        | 500.00     |                   |               |              |            | NA                             | Sump       |
|                                  | SYAN0016        | 718667.6        | 7481422.0        | 495.00     |                   |               |              |            | NA                             | Sump       |
|                                  | SYAN0039        | 717918.3        | 7482046.4        | 498.00     | 01-Jul-20         |               |              |            | NA                             | Sump       |
| Eastern 3,5,6<br>WL              | HYE0026P        | 717994.3        | 7482076.4        | 501.91     | 15-Mar-11         | 52            |              |            |                                | Production |
|                                  | HYE0133M        | 717997.9        | 7482004.2        | 505.19     | 06-Jul-14         | 20            |              |            | Marillana Formation            | Monitoring |
|                                  | HYE0148M        | 718179.3        | 7481868.1        | 501.79     | 06-Jun-15         | 20            |              |            | Marillana Formation            | Monitoring |
|                                  | HYE0149M        | 718623.8        | 7481546.6        | 499.11     | 06-Jun-15         | 20            |              |            | Marillana Formation            | Monitoring |
|                                  | HYE0153M        | 719225.3        | 7481063.7        | 499.28     | 22-Mar-16         | 20            |              |            |                                | Monitoring |
|                                  | HYE0154M        | 719433.0        | 7480852.7        | 498.98     | 22-Mar-16         | 20            |              |            |                                | Monitoring |
|                                  | HYE0155M        | 719441.6        | 7480743.0        | 499.01     | 22-Mar-16         | 20            |              |            |                                | Monitoring |
|                                  | HYE0162M        | 719597.7        | 7480240.8        | 499.13     | 15-Mar-17         | 34            | 18.00        | 480.31     | Marillana Formation            | Monitoring |
|                                  | HYM0013M        | 719226.3        | 7480521.1        | 534.57     | 05-Nov-12         | 16            | 10.78        | 523.79     | Marillana Formation            | Monitoring |
| Eastern 4<br>Production<br>Bores | HYE1518P        | 717781.7        | 7481390.2        | 522.63     | 08-Feb-22         | 53            | 21.34        | 500.88     |                                | Production |
|                                  | HYE1519P        | 717340.0        | 7482450.8        | 540.00     | 31-Jan-22         | 24            |              |            |                                | Production |
|                                  | HYE1523P        | 717889.7        | 7481598.5        | 522.15     | 26-Jan-22         | 56            | 24.42        | 497.48     |                                | Production |
|                                  | SYAN0050        | 717459.7        | 7482375.6        | 528.00     |                   |               |              |            |                                | Sump       |
| Eastern 4<br>WL                  | HYE1522M        | 717440.6        | 7482205.1        | 541.06     | 29-Jan-22         | 18            |              |            |                                |            |
|                                  | HYE1525M        | 717878.8        | 7481610.3        | 522.37     | 27-Jan-22         | 59            | 24.20        | 497.70     |                                |            |
| Eastern 7                        | HYE0127P        | 719223.1        | 7480001.0        | 558.20     | 09-Oct-13         | 86            |              |            | Marillana Formation            | Production |

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## Yandi Borefields production borehole details (cont'd)

| Area                     | Sample Point ID | Easting (MGA94) | Northing (MGA94) | TOC (m RL) | Construction Date | Depth (m bgl) | SWL (m bTOC) | SWL (m RL) | Screen Interval/Target Geology | Purpose         |
|--------------------------|-----------------|-----------------|------------------|------------|-------------------|---------------|--------------|------------|--------------------------------|-----------------|
| Production               | HYE0130P        | 719017.5        | 7479764.1        | 499.07     | 30-Oct-13         | 99            |              |            | Marillana Formation            | Production      |
|                          | HYE0142P        | 718373.9        | 7479260.5        | 541.91     | 03-May-15         | 75            |              |            | Marillana Formation            | Production      |
|                          | HYE0143P        | 718030.6        | 7479006.0        | 551.47     | 07-May-15         | 70            | 40.45        | 510.49     | Marillana Formation            | Production      |
|                          | HYE0146P        | 718117.0        | 7478975.4        | 551.50     | 10-May-15         | 80            |              |            | Marillana Formation            | Production      |
|                          | HYE0160P        | 718754.5        | 7479508.1        | 498.37     | 28-Mar-17         | 94            | 51.00        | 494.80     | Marillana Formation            | Production      |
|                          | HYE0180P        | 718188.1        | 7479201.9        | 492.86     | 04-May-18         | 62            | 18.00        | 480.19     | Marillana Formation            | Production      |
|                          | HYE0181P        | 718577.4        | 7479380.1        | 498.30     | 08-May-18         | 66            | 18.00        | 480.19     | Marillana Formation            | Production      |
|                          | HYE0311P        | 719234.9        | 7479805.1        | 498.69     | 22-Apr-20         | 57            |              |            | CID/Basal conglomerate         | Production      |
|                          | HYE0313P        | 718902.5        | 7479712.6        | 498.47     | 24-Apr-20         | 48            |              |            | CID/Basal conglomerate         | Production      |
|                          | HYE0314P        | 719262.5        | 7479778.5        | 498.63     | 10-May-20         | 53            | 15.00        | 494.98     | CID/Basal conglomerate         | Production      |
|                          | SYAN0046        | 715223.2        | 7484534.0        | 0.00       |                   |               |              |            |                                | Sump            |
| Eastern 7 WL             | HYE0113M        | 719936.5        | 7478158.0        | 534.15     |                   | 100           |              |            | Unknown Stratigraphy           | Monitoring      |
|                          | HYE0145M        | 718082.1        | 7478987.5        | 551.93     | 05-May-15         | 72            | 40.20        | 510.95     | Marillana Formation            | Monitoring      |
|                          | HYE0163M        | 719335.2        | 7479939.4        | 541.81     | 16-Mar-17         | 66            | 48.00        | 492.92     | Marillana Formation            | Monitoring      |
|                          | HYE0185M        | 718355.8        | 7479114.2        | 498.48     | 07-May-18         | 21            | 7.00         | 490.65     | Marillana Formation            | Monitoring      |
|                          | HYE0300M        | 718041.4        | 7479116.3        | 492.80     | 30-Sep-19         | 21            |              |            |                                |                 |
|                          | HYE0310M        | 719265.9        | 7479829.9        | 510.43     | 22-Apr-20         | 57            |              |            | Marillana Formation            | Monitoring Bore |
|                          | HYE0312M        | 718927.5        | 7479733.2        | 498.38     | 25-Apr-20         | 48            |              |            |                                |                 |
|                          | HYE0314P        | 719262.5        | 7479778.5        | 498.63     | 10-May-20         | 53            | 15.00        | 494.98     |                                |                 |
| Rainfall                 | WYX001          | 716440.0        | 7487085.0        | 0.00       |                   |               |              |            | NA                             | Weather station |
| Regional Downgradient WL | HYE0113M        | 719936.5        | 7478158.0        | 534.15     |                   | 100           |              |            | Marillana Formation            | Monitoring      |
|                          | HYM0010M        | 720583.6        | 7478123.7        | 533.09     |                   | 0             |              |            |                                | Monitoring      |
|                          | YM0121M         | 721792.8        | 7479138.2        | 532.94     | 23-May-95         | 54            | 11.35        | 521.23     | Marillana Formation            | Monitoring      |
| Regional Upgradient WL   | HYW0002M        | 700841.0        | 7484665.4        | 623.95     | 01-Jan-30         | 77            |              |            | Marillana Formation            | Monitoring      |
|                          | HYW0003M        | 702821.2        | 7487679.1        | 610.29     | 01-Jan-30         | 89            |              |            | Marillana Formation            | Monitoring      |
|                          | HYW0005M        | 703362.3        | 7487154.0        | 609.90     |                   | 91            |              |            | Marillana Formation            | Monitoring      |
|                          | HYW0210M        | 703604.2        | 7486895.8        | 610.86     | 21-Aug-15         | 96            | 36.53        | 573.85     | Marillana Formation            | Monitoring      |
|                          | MB16YSN0001M    | 702965.8        | 7487508.7        | 610.10     | 08-Sep-16         | 82            |              |            | Marillana Formation            | Monitoring      |

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## Yandi Borefields production borehole details (cont'd)

| Area             | Sample Point ID | Easting (MGA94) | Northing (MGA94) | TOC (m RL) | Construction Date | Depth (m bgl) | SWL (m bTOC) | SWL (m RL) | Screen Interval/Target Geology              | Purpose         |
|------------------|-----------------|-----------------|------------------|------------|-------------------|---------------|--------------|------------|---|-----------------|
| Spinifex Camp    | MB16YSN0003M    | 701961.1        | 7486214.8        | 608.62     | 10-Sep-16         | 70            |              |            | Marillana Formation                         | Monitoring      |
|                  | MB16YSN0004M    | 701834.4        | 7485588.6        | 618.78     | 12-Sep-16         | 82            |              |            | Marillana Formation                         | Monitoring      |
|                  | HNPISP0001P     | 702933.3        | 7487612.8        | 610.38     | 30-Sep-17         | 100           |              |            | Unknown Stratigraphy                        | Production      |
| Spinifex Camp WL | HNPISP0002P     | 703145.1        | 7487609.0        | 612.93     | 23-Sep-17         | 94            |              |            | Unknown Stratigraphy                        | Production      |
|                  | HYW0003M        | 702821.2        | 7487679.1        | 610.29     | 01-Jan-30         | 89            |              |            | Marillana Formation                         | Monitoring GWOS |
| Western 1        | MB16YSN0001M    | 702965.8        | 7487508.7        | 610.10     | 08-Sep-16         | 82            |              |            | Marillana Formation                         | Monitoring GWOS |
|                  | HNPIYN1704P     | 703343.1        | 7487206.2        | 609.91     |                   | 0             |              |            |   | Production      |
|                  | HNPIYN1707P     | 703377.4        | 7487085.1        | 611.99     |                   | 0             |              |            |   | Production      |
|                  | HYW0008P        | 704008.0        | 7486750.9        | 610.68     |                   | 94            |              |            | Unknown Stratigraphy                        | Production      |
|                  | HYW0010P        | 704298.2        | 7486499.4        | 582.75     |                   | 91            |              |            | Unknown Stratigraphy                        | Production      |
|                  | HYW0011P        | 705129.6        | 7486284.4        | 571.23     |                   | 92            |              |            | Unknown Stratigraphy                        | Production      |
|                  | HYW0013P        | 706060.3        | 7486165.5        | 570.50     |                   | 98            |              |            | Unknown Stratigraphy                        | Production      |
|                  | HYW0021P        | 706053.3        | 7484703.1        | 535.49     |                   | 99            |              |            | Unknown Stratigraphy                        | Production      |
|                  | HYW0024P        | 705570.8        | 7484530.7        | 539.95     |                   | 92            |              |            | Unknown Stratigraphy                        | Production      |
|                  | HYW0060P        | 706438.8        | 7485521.8        | 540.22     | 30-Apr-12         | 82            |              |            | Unknown Stratigraphy                        | Production      |
|                  | HYW0179P        | 705819.7        | 7486271.9        | 570.03     | 24-Apr-14         | 82            |              |            | Unknown Stratigraphy                        | Production      |
|                  | HYW0180P        | 704685.7        | 7486294.5        | 576.88     | 18-Apr-14         | 92            |              |            | Unknown Stratigraphy                        | Production      |
|                  | HYW0212P        | 705028.0        | 7484736.6        | 535.45     | 04-Oct-15         | 80            |              |            | Marillana Formation                         | Production      |
|                  | HYW0213P        | 705339.3        | 7484720.4        | 546.76     | 28-Sep-15         | 68            |              |            | Marillana Formation                         | Production      |
|                  | HYW0215P        | 705477.8        | 7486220.0        | 570.41     | 10-Oct-15         | 56            |              |            | Marillana Formation                         | Production      |
|                  | HYW0219P        | 706265.5        | 7485031.7        | 528.89     | 19-Feb-16         | 34            |              |            | Marillana Formation                         | Production      |
|                  | HYW0226P        | 706206.9        | 7485921.5        | 564.40     | 04-Jun-16         | 60            |              |            | Marillana Formation                         | Production      |
|                  | HYW0228P        | 705130.1        | 7486150.9        | 571.22     | 07-Jun-16         | 71            |              |            | Marillana Formation                         | Production      |
|                  | HYW0229P        | 705927.4        | 7486179.5        | 570.68     | 30-May-16         | 65            |              |            | Marillana Formation                         | Production      |
|                  | HYW0230P        | 706322.3        | 7485118.6        | 536.09     | 10-Jun-16         | 30            |              |            | Marillana Formation                         | Production      |
|                  | HYW0246P        | 704899.4        | 7484564.3        | 535.41     | 19-Dec-16         | 60            | 34.00        | 536.18     | Marillana Formation & Weeli Wolli Formation | Production      |
|                  | HYW0247P        | 704809.3        | 7484684.2        | 535.55     | 16-Dec-16         | 60            | 32.00        | 537.98     | Marillana Formation                         | Production      |
|                  | HYW0322P        | 705858.2        | 7484603.2        | 546.73     | 24-Nov-17         | 48            |              |            | Marillana Formation                         | Production      |

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## Yandi Borefields production borehole details (cont'd)

| Area         | Sample Point ID | Easting (MGA94) | Northing (MGA94) | TOC (m RL) | Construction Date | Depth (m bgl) | SWL (m bTOC) | SWL (m RL) | Screen Interval/Target Geology | Purpose                     |
|--------------|-----------------|-----------------|------------------|------------|-------------------|---------------|--------------|------------|--------------------------------|-----------------------------|
| Western 1 WL | SYAN0015        | 706325.2        | 7485048.7        | 528.00     |                   |               |              |            | NA                             | Sump                        |
|              | SYAN0043        | 705382.6        | 7484722.0        | 522.00     | 01-Jul-20         |               |              |            | NA                             | Sump                        |
|              | HYW0214M        | 705229.5        | 7484666.6        | 571.05     | 24-Sep-15         | 41            |              |            | Marillana Formation            | Monitoring                  |
| Western 2    | HYW0217M        | 705677.8        | 7486194.7        | 571.12     | 07-Oct-15         | 40            |              |            | Marillana Formation            | Monitoring                  |
|              | HYW0221M        | 706176.7        | 7485086.4        | 536.29     | 15-Mar-16         | 20            |              |            | Marillana Formation            | Monitoring                  |
|              | HYW0222M        | 706313.1        | 7485135.3        | 536.29     | 15-Mar-16         | 20            |              |            | Marillana Formation            | Monitoring                  |
|              | HYW0502M        | 704936.7        | 7484668.7        | 535.28     | 30-Sep-19         | 21            |              |            |                                | Monitoring                  |
|              | HYW0237P        | 704542.7        | 7484331.4        | 558.14     | 04-Nov-16         | 105           |              |            | Marillana Formation            | Production                  |
| Western 2 WL | HYW0238P        | 704560.2        | 7483934.4        | 565.07     | 13-Nov-16         | 100           |              |            | Marillana Formation            | Production                  |
|              | HYW0348P        | 704643.4        | 7484439.6        | 564.97     | 12-May-19         | 65            |              |            |                                |                             |
|              | HYW0326M        | 704667.8        | 7483812.8        | 565.37     | 29-May-18         | 36            | 30.00        | 534.51     | Marillana Formation            | Monitoring                  |
| Western 3    | HYW0345M        | 704611.4        | 7484477.4        | 565.25     | 19-Apr-19         | 64            | 36.03        | 528.25     | Marillana Formation            | Vel to the method type. (c) |
|              | HYW0347M        | 704667.5        | 7484411.3        | 565.49     | 12-May-19         | 62            |              |            |                                |                             |
|              | HYW1015P        | 707297.0        | 7483769.1        | 552.59     | 06-Mar-22         | 62            | 23.60        | 528.50     |                                | Production                  |
| Western 4    | HYW1016P        | 707036.1        | 7483118.7        | 546.69     | 09-Mar-22         | 56            | 13.96        | 532.23     |                                | Production                  |
|              | HYW0030P        | 707348.2        | 7484038.3        | 587.07     | 06-Oct-04         | 78            |              |            | Unknown Stratigraphy           | Production                  |
| Western 4    | HYW0032P        | 707500.4        | 7484053.9        | 586.28     | 07-Oct-04         | 80            | 16.14        | 569.81     | Marillana Formation            | Production                  |
|              | HYW0035P        | 707547.3        | 7484325.8        | 517.33     |                   | 62            |              |            | Unknown Stratigraphy           | Production                  |
|              | HYW0042P        | 707885.4        | 7484652.4        | 516.92     |                   | 57            |              |            | Unknown Stratigraphy           | Production                  |
|              | HYW0049P        | 709288.8        | 7483783.6        | 580.30     | 22-Oct-04         | 79            | 14.63        | 565.35     | Marillana Formation            | Production                  |
|              | HYW0051P        | 709400.5        | 7483759.1        | 576.74     | 15-Oct-04         | 80            | 13.61        | 562.82     | Marillana Formation            | Production                  |
|              | HYW0064P        | 709189.6        | 7484159.6        | 522.58     | 28-May-12         | 70            |              |            | Unknown Stratigraphy           | Production                  |
|              | HYW0072P        | 709093.4        | 7484526.8        | 540.20     | 27-Jun-12         | 67            |              |            | Marillana Formation            | Production                  |
|              | HYW0165P        | 708076.8        | 7484739.8        | 516.96     |                   | 23            |              |            | Unknown Stratigraphy           | Production                  |
|              | HYW0181P        | 708970.9        | 7484655.5        | 535.09     | 27-Apr-14         | 32            |              |            | Unknown Stratigraphy           | Production                  |
|              | HYW0182P        | 709126.4        | 7484304.1        | 522.78     | 02-May-14         | 48            |              |            | Unknown Stratigraphy           | Production                  |
|              | HYW0306P        | 709392.8        | 7483896.8        | 522.73     | 25-Mar-17         | 42            | 10.50        | 524.36     | Marillana Formation            | Production                  |
|              | HYW0340P        | 709127.5        | 7483999.2        | 524.54     | 09-Sep-18         | 41            |              |            | Marillana Formation            |                             |

**Yandi Borefields**

Triennial Aquifer Review 2022



## Yandi Borefields production borehole details (cont'd)

| Area         | Sample Point ID | Easting (MGA94) | Northing (MGA94) | TOC (m RL) | Construction Date | Depth (m bgl) | SWL (m bTOC) | SWL (m RL) | Screen Interval/Target Geology              | Purpose    |
|--------------|-----------------|-----------------|------------------|------------|-------------------|---------------|--------------|------------|---|------------|
| Western 4 WL | SYAN0017        | 707625.0        | 7484274.3        | 514.98     | 01-Jun-16         |               |              |            | NA  | Sump       |
|              | SYAN0035        | 708814.8        | 7484699.8        | 516.00     |                   |               |              |            |   | Sump       |
|              | SYAN0036        | 707540.5        | 7484310.4        | 518.07     | 02-Aug-19         |               |              |            |   | Sump       |
|              | SYAN0042        | 707867.4        | 7484640.6        | 516.00     | 01-Jul-20         |               |              |            |   | Sump       |
| Western 5 WL | HYW0031P        | 707416.1        | 7484047.7        | 586.45     | 02-Oct-04         | 80            | 16.06        | 570.35     | Marillana Formation                         | Production |
|              | HYW0050M        | 709340.4        | 7483760.5        | 577.75     | 20-Sep-04         | 80            | 12.18        | 564.71     | Marillana Formation                         | Monitoring |
|              | HYW0184M        | 707991.7        | 7484684.4        | 517.55     | 21-Aug-14         | 19            |              |            | Marillana Formation                         | Monitoring |
|              | HYW0312M        | 708813.2        | 7484686.6        | 517.37     | 20-Mar-17         | 18            | 1.00         | 515.26     | Marillana Formation                         | Monitoring |
|              | HYW0329M        | 709059.7        | 7484351.8        | 523.24     | 07-May-18         | 21            | 18.00        | 504.17     |   |            |
| Western 5 WL | HYW0131P        | 710329.4        | 7483789.7        | 535.09     | 31-Oct-13         | 87            | 57.30        | 524.78     | Marillana Formation                         | Production |
|              | HYW0132P        | 710665.8        | 7483998.3        | 529.40     | 14-Nov-13         | 90            | 55.90        | 524.23     | Marillana Formation                         | Production |
|              | HYW0133P        | 710989.8        | 7484306.8        | 528.86     | 08-Jan-14         | 94            | 56.50        | 521.16     | Marillana Formation                         | Production |
|              | HYW0134P        | 711131.4        | 7484586.6        | 528.65     | 11-Dec-13         | 93            | 29.80        | 547.51     | Marillana Formation                         | Production |
|              | HYW0240P        | 711537.5        | 7485119.7        | 528.61     | 11-Dec-16         | 54            | 22.00        | 512.26     | Marillana Formation                         | Production |
|              | HYW0241P        | 711435.9        | 7484995.5        | 529.09     | 07-Dec-16         | 60            | 22.00        | 512.21     | Marillana Formation & Weeli Wolli Formation | Production |
| Western 6    | HYW0314M        | 710832.3        | 7483985.2        |            | 22-Mar-17         | 54            | 20.50        | 513.83     | Marillana Formation                         | Monitoring |
|              | HYW0315M        | 711165.4        | 7484500.1        | 529.67     | 21-Mar-17         | 44            | 19.44        | 509.33     | Marillana Formation                         | Monitoring |
|              | HYW0328M        | 710903.2        | 7484017.3        | 535.31     | 30-May-18         | 36            | 20.00        | 514.28     | Marillana Formation                         | Monitoring |
|              | HYW0352M        | 710831.5        | 7484023.9        | 529.21     | 15-Apr-19         | 28            | 15.62        | 512.50     |   |            |
|              | HYW0400M        | 711506.3        | 7485046.5        | 529.29     | 03-Nov-19         | 36            |              |            |   |            |
|              | YW2200RDM       | 709697.3        | 7483384.2        | 577.23     | 30-Dec-14         | 87            |              |            | Marillana Formation                         | Monitoring |
| Western 6    | HYW0175P        | 711441.0        | 7485512.7        | 535.93     | 11-Apr-14         | 84            |              |            | Marillana Formation                         | Production |
|              | HYW0176P        | 711201.6        | 7485771.6        | 547.01     | 19-Apr-14         | 76            |              |            | Marillana Formation                         | Production |
|              | HYW0355P        | 711743.3        | 7485675.7        | 535.23     | 02-Nov-19         | 48            |              |            |   | Production |
|              | HYW1021P        | 711018.7        | 7485982.5        | 534.62     | 22-Mar-22         | 36            | 6.80         | 527.43     |   | Production |
|              | HYW1024P        | 710998.3        | 7486088.3        | 535.15     | 29-Mar-22         | 36            | 1.67         | 533.26     |   | Production |
|              | SYAN0040        | 710963.9        | 7486104.7        | 536.00     | 01-Jul-20         |               |              |            |   | Sump       |
|              | SYAN0041        | 710884.2        | 7486295.3        | 536.00     | 01-Jul-20         |               |              |            |   | Sump       |

**Yandi Borefields**

Triennial Aquifer Review 2022

**BHP**

## Yandi Borefields production borehole details (cont'd)

| Area         | Sample Point ID | Easting (MGA94) | Northing (MGA94) | TOC (m RL) | Construction Date | Depth (m bgl) | SWL (m bTOC) | SWL (m RL) | Screen Interval/Target Geology | Purpose    |
|--------------|-----------------|-----------------|------------------|------------|-------------------|---------------|--------------|------------|--------------------------------|------------|
| Western 6 WL | HYW0167M        | 711499.5        | 7485508.7        | 572.53     | 02-Mar-14         | 108           |              |            | Weeli Wollie Formation         | Monitoring |
|              | HYW0175P        | 711441.0        | 7485512.7        | 535.93     | 11-Apr-14         | 84            |              |            | Marillana Formation            | Production |
|              | HYW0300M        | 711485.1        | 7485611.9        | 568.60     | 26-Feb-17         | 87            | 27.97        | 539.61     | Marillana Formation            | Monitoring |
|              | HYW0343M        | 711105.3        | 7486011.6        | 548.30     | 25-Aug-18         | 40            | 36.00        | 511.25     | Marillana Formation            | Monitoring |
|              | HYW0344M        | 711226.9        | 7485521.2        | 559.27     | 24-Aug-18         | 58            | 48.00        | 510.23     | Marillana Formation            | Monitoring |
|              | HYW0353M        | 711712.4        | 7485688.3        | 535.49     | 30-Oct-19         | 36            |              |            |                                | Monitoring |
|              | HYW1022M        | 711000.2        | 7486066.2        | 535.41     | 30-Mar-22         | 33            | 3.17         | 531.51     |                                | Monitoring |
|              | HYW1023M        | 711085.7        | 7485994.7        | 534.64     | 23-Mar-22         | 38            | 8.05         | 525.98     |                                | Monitoring |
|              | HYW1028M        | 710989.8        | 7486065.9        | 535.42     | 30-Mar-22         | 12            | 3.46         | 531.26     |                                | Monitoring |
|              | HYW1029M        | 710999.8        | 7485995.0        | 535.03     | 31-Mar-22         | 36            | 5.70         | 528.49     |                                | Monitoring |
|              | HYW1030M        | 711006.5        | 7485977.9        | 534.92     | 30-Mar-22         | 12            | 6.53         | 527.64     |                                | Monitoring |

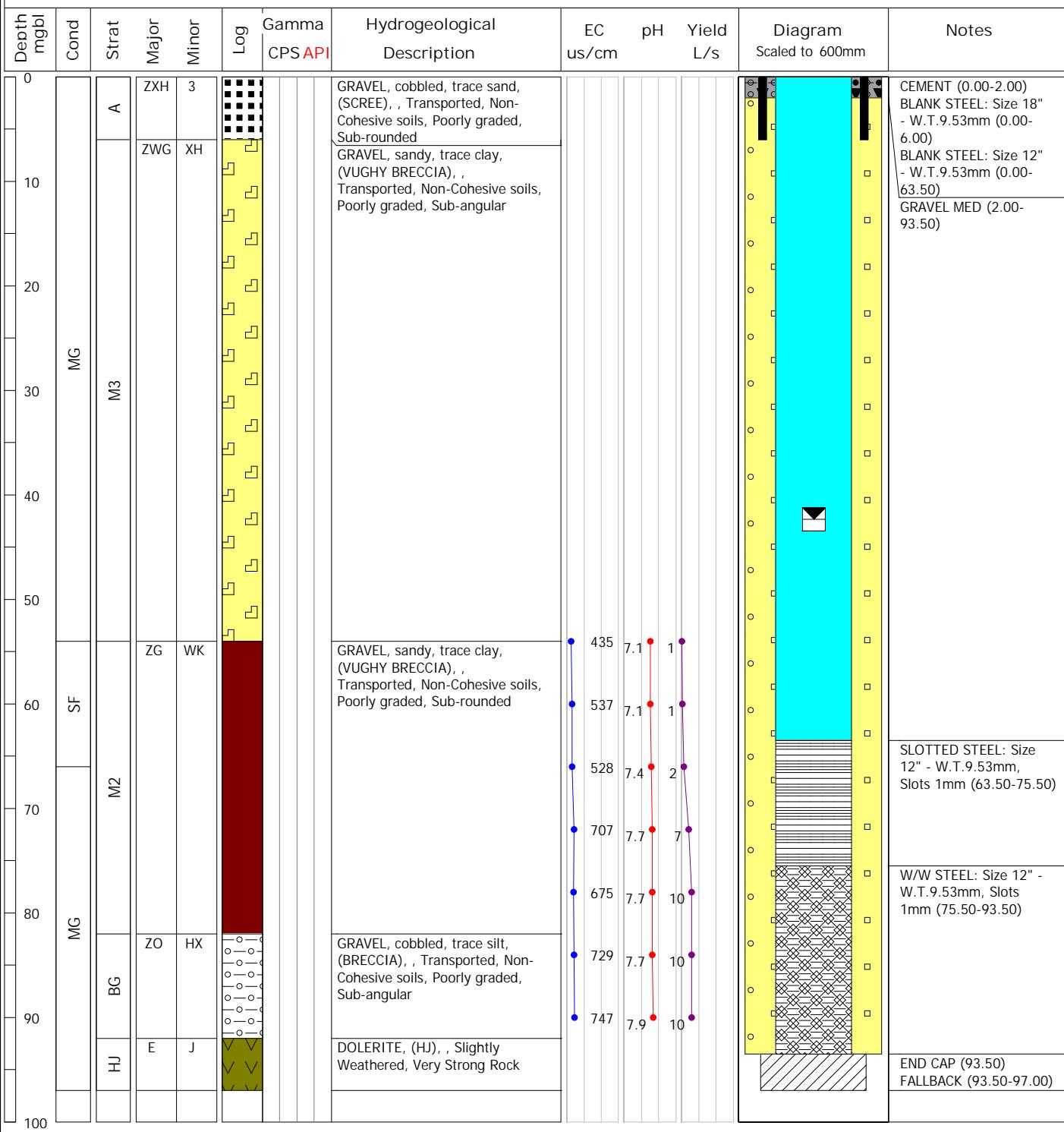
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**Appendix 10.3      Borehole logs**

# BHPO - Hydrogeology Log

BHP

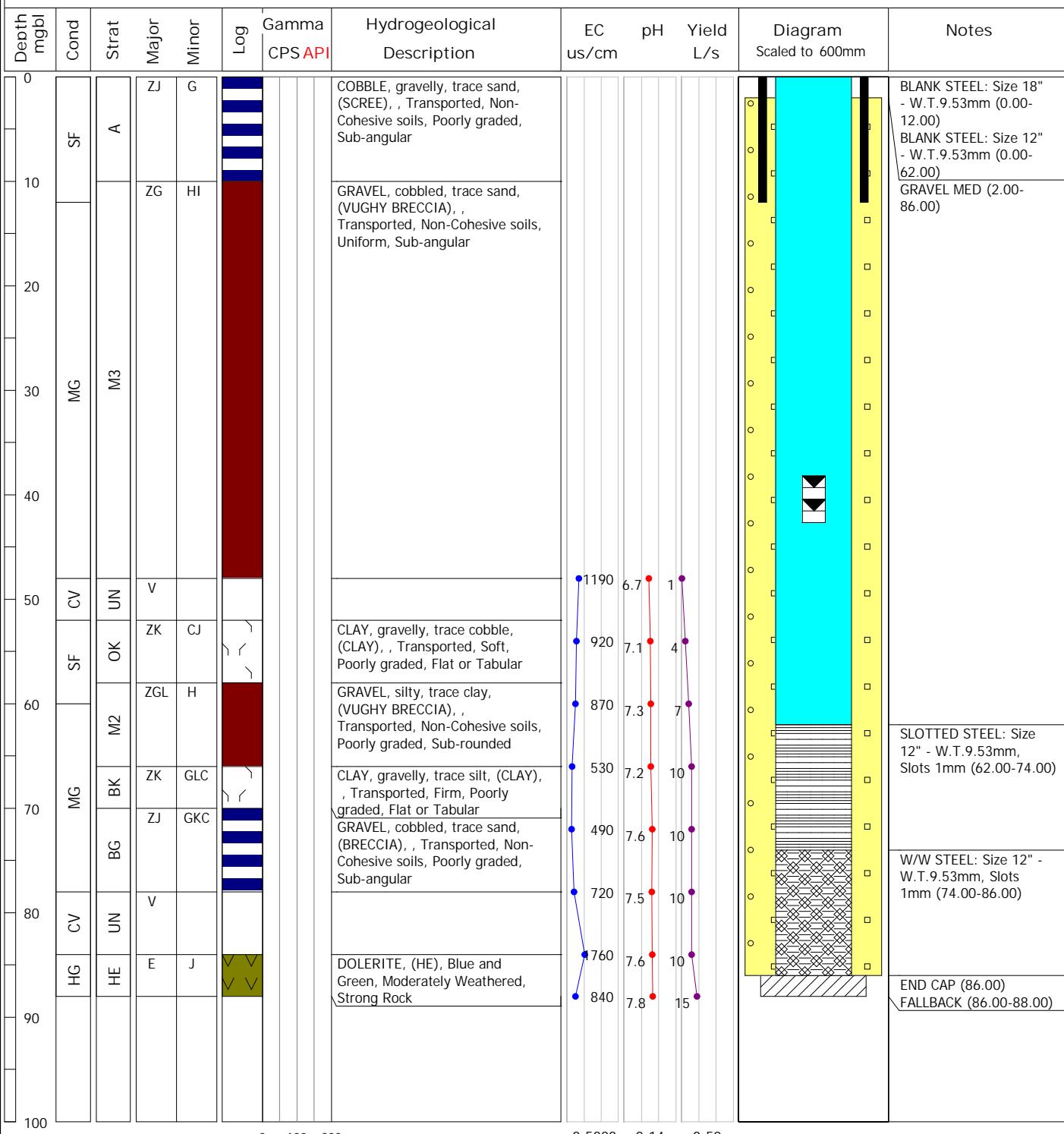
TOC RL: 534.02 (Stickup 0.39m) (drilled) SWL: 42.35 MBTOC (18 Feb 22) Dev: Y: 6.0 hour(s) Final pH: 7.7  
 TOC RL: 534.02 (Stickup 0.39m) (current) Is Live: Y (-) Date: 15 Feb 2022 Final EC: 765.00



# BHPIO - Hydrogeology Log

BHP

TOC RL: 533.13 (Stickup 0.30m) (drilled) SWL: 39.29 MBTOC (17 Mar 22) Dev: Y: 6.0 hour(s) Final pH: 7.6  
 TOC RL: 533.13 (Stickup 0.30m) (current) Is Live: Y (-) Date: 15 Mar 2022 Final EC: 796.00

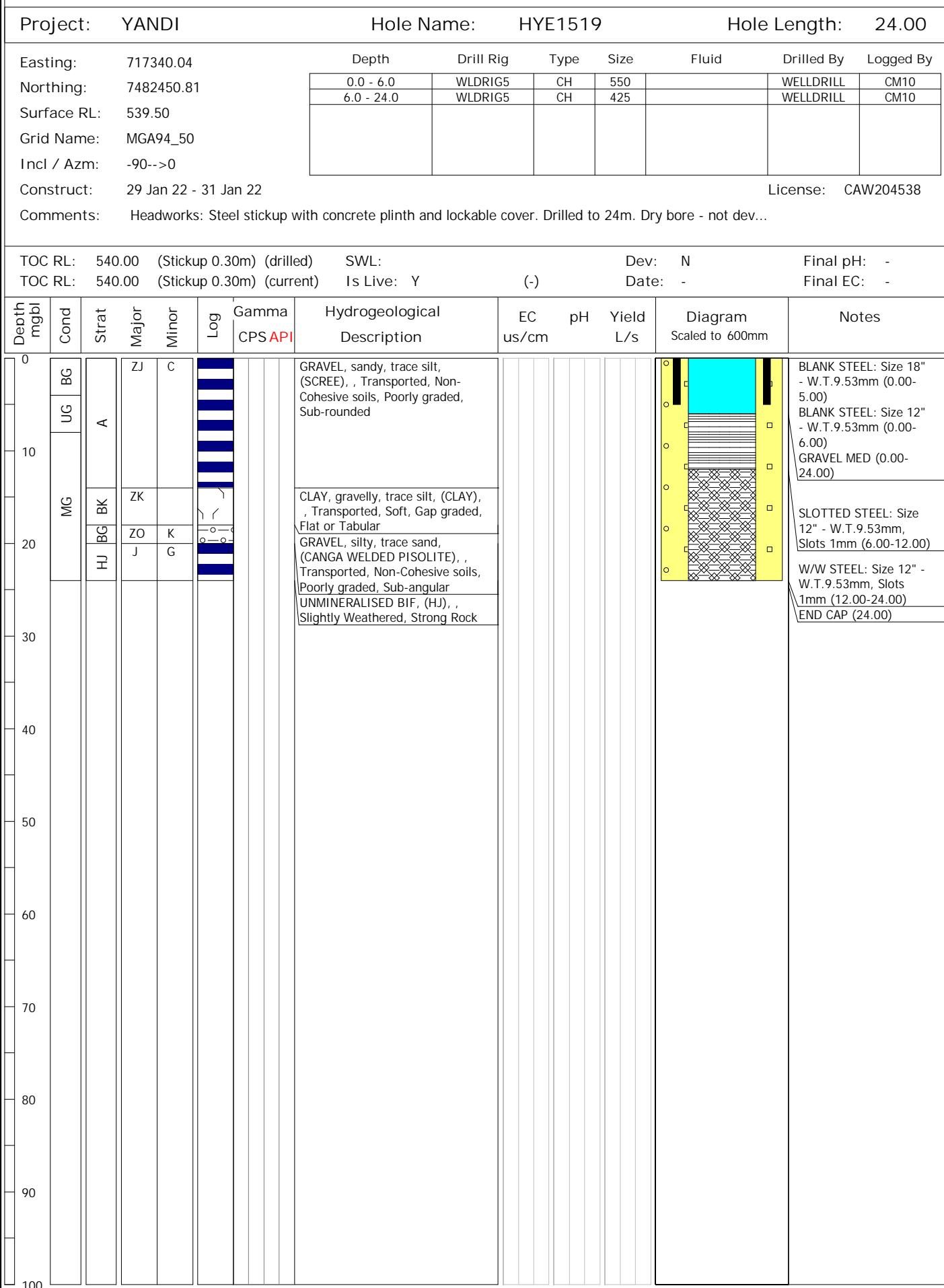


# BHPIO - Hydrogeology Log

BHP

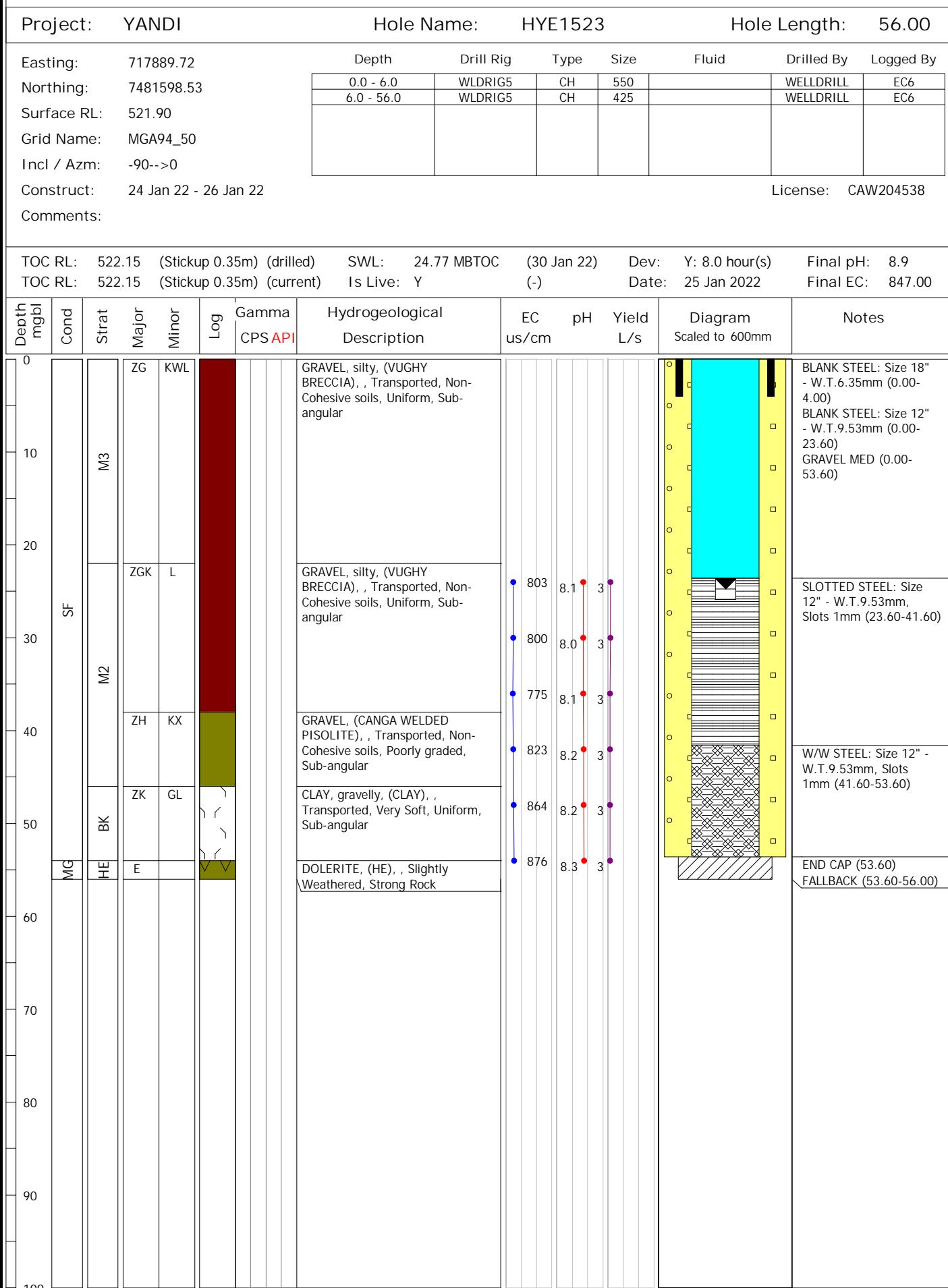
# BHPIO - Hydrogeology Log

**BHP**



# BHPIO - Hydrogeology Log

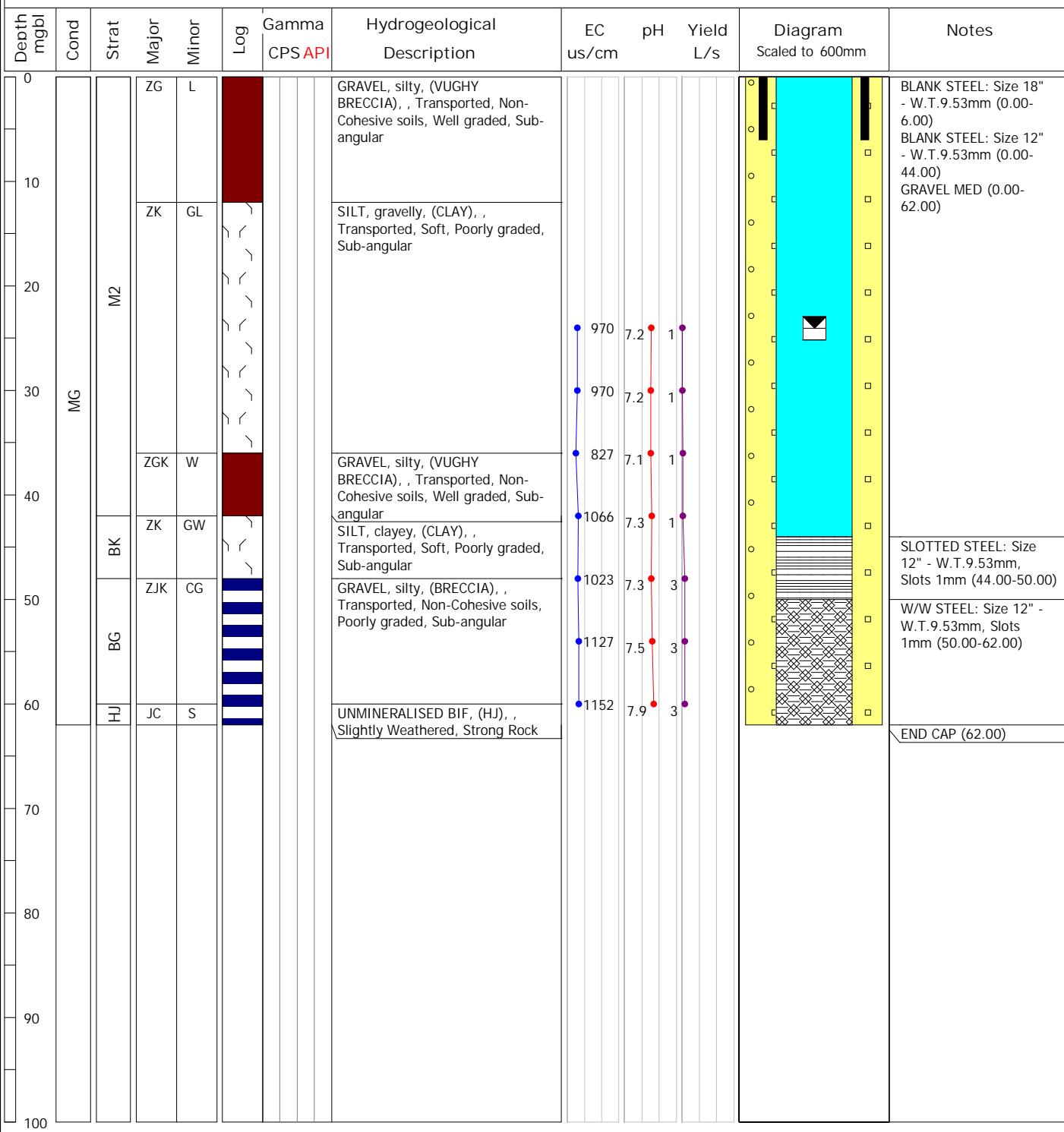
**BHP**



## BHPIO - Hydrogeology Log

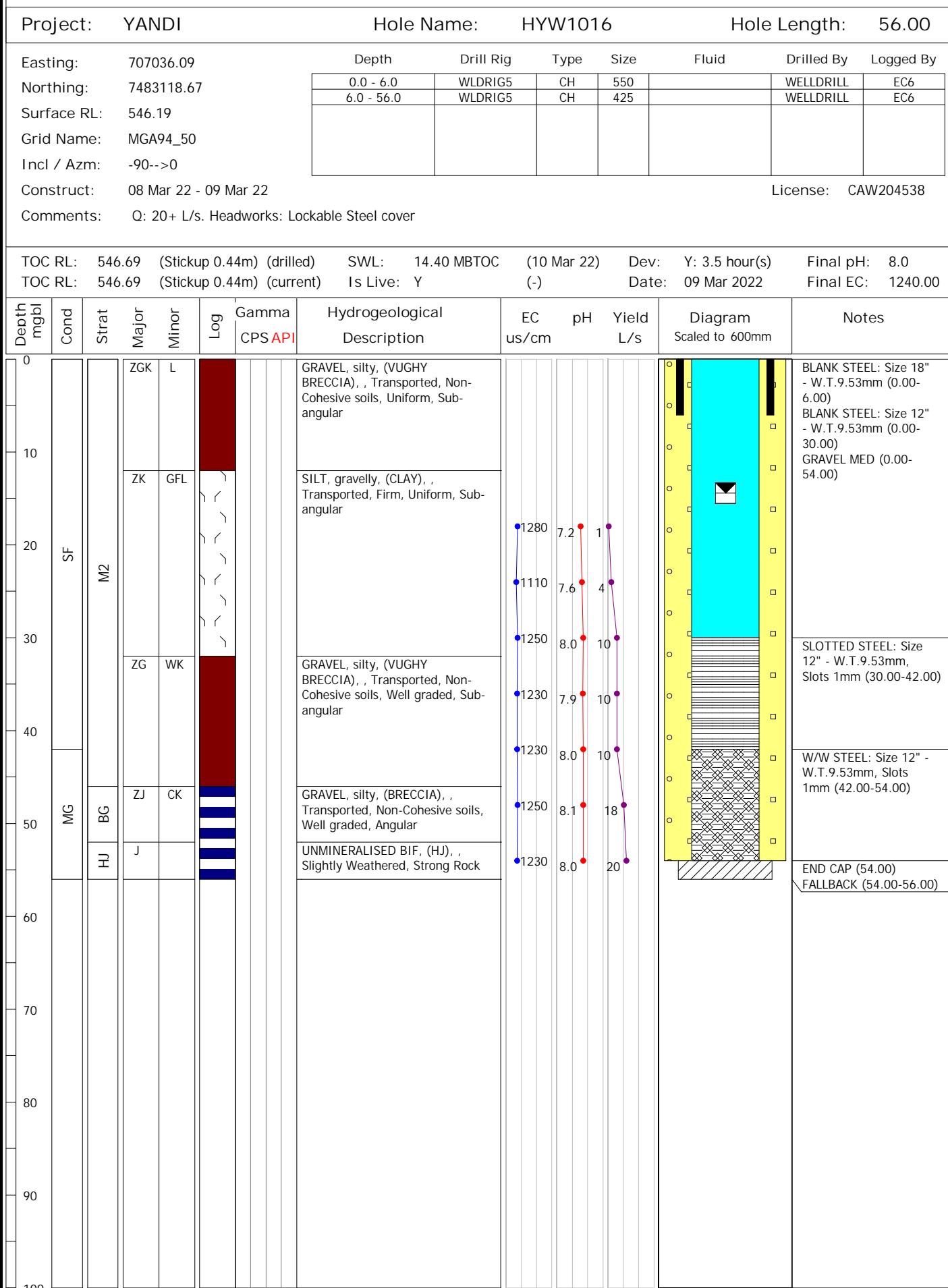
BHP

TOC RL: 552.59 (Stickup 0.43m) (drilled) SWL: 24.03 MBTOC (07 Mar 22) Dev: Y: 0.0 hour(s) Final pH: 8.2  
 TOC RL: 552.59 (Stickup 0.43m) (current) Is Live: Y (-) Date: 06 Mar 2022 Final EC: 1182.00



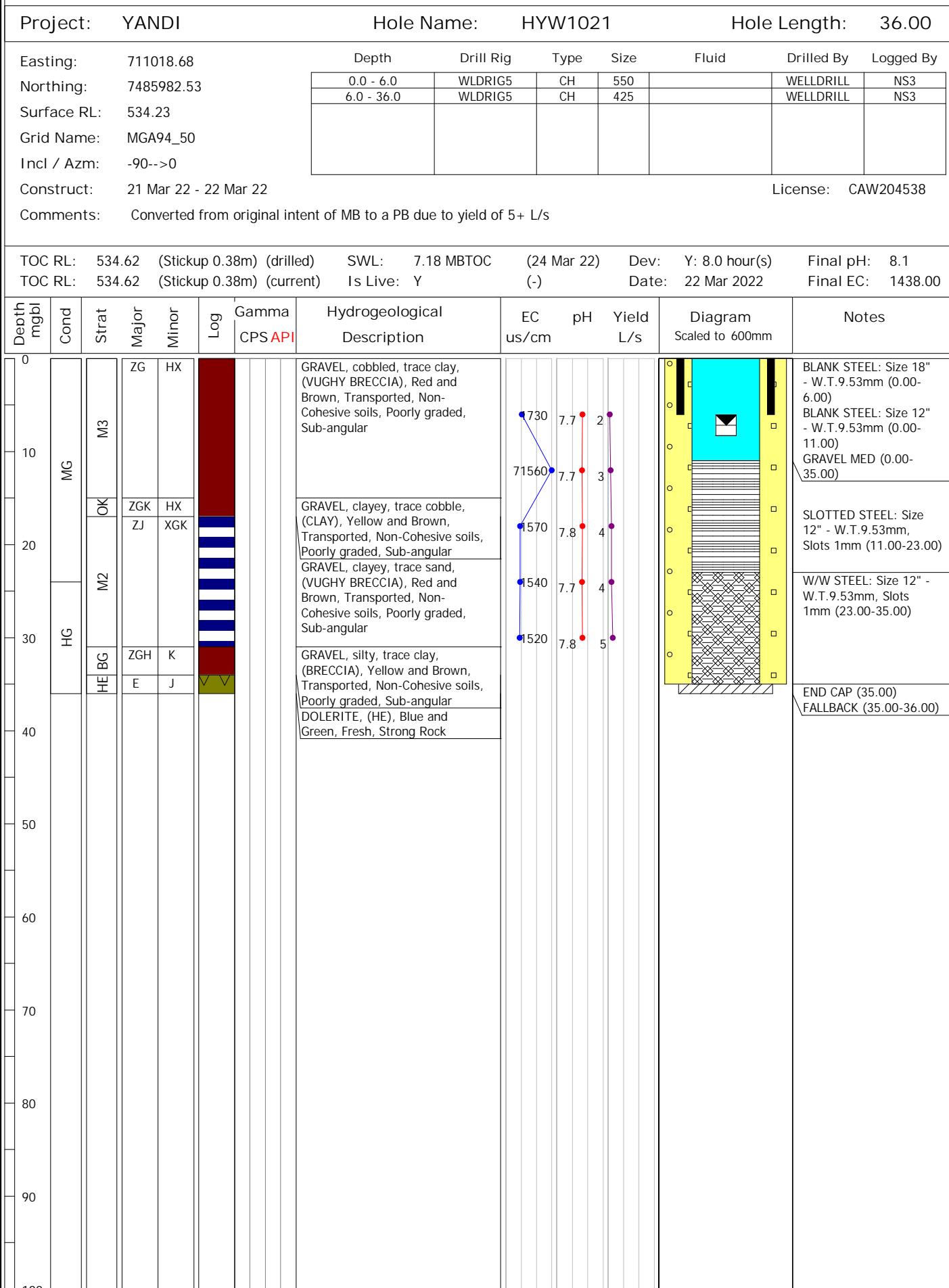
# BHPIO - Hydrogeology Log

**BHP**



# BHPIO - Hydrogeology Log

**BHP**



# BHPIO - Hydrogeology Log

**BHP**

