

Airservices Australia

Gold Coast Airport Preliminary Site Investigation

October 2016

Executive summary

Airservices Australia (Airservices) engaged GHD Pty Ltd to conduct a Preliminary Site Investigation (PSI) at the Gold Coast Airport (GCA) with particular regard to the potential for contamination from per- and poly-fluorinated alkyl substances (PFAS).

Based on the review of available site history information, site inspection and site interviews, the following potential sources of PFAS have been identified:

- Areas in which Aviation Rescue Fire Fighting ARFF operate or have historically operated including:
 - The Fire Training Ground.
 - The Main Fire Station and surrounding area.
 - Fire station workshop.
 - The old fire station.
 - 'Crash remote' fire training in isolated areas of the site.
- Incidents that may have included the discharge of foam including:
 - A fuel leak at the end of the apron in 1996.
 - A helicopter crash in 2009 on the boundary with the Tugun Bypass.
 - A single light plane crash in approximately 1984 near the aircraft hangar.
- Other possible sources:
 - Tugun bypass tunnel fire suppression system.
 - Tugun and Boyd Street landfills and the Sewage Treatment Plant (STP).
 - Former airport landfills.
 - Queensland Fire and Rescue Service Coolangatta Bilinga Fire Station.
 - Irrigation of vegetated areas of the site with the fire trucks.
 - Sediments and/or groundwater in the existing and former surface water drainage channels (possible secondary source).

The desktop review identified the following potential sensitive receptors:

- Site workers.
- Nearby residents using spear pumps.
- Consumers of seafood from the down gradient surface water receiving environment of the Pacific Ocean and Cobaki Broadwater.
- Recreational users of the Pacific Ocean (in the vicinity of the stormwater outfall) and Cobaki Broadwater.
- Flora and fauna in the hydraulically down-gradient marine surface water receiving environment of the Pacific Ocean and Cobaki Broadwater.
- Terrestrial fauna consuming impacted plant material.

Based on the data reviewed in this study and the CSM, the following summary is made:

• The primary source (use of PFAS containing AFFF) no longer exists. Secondary sources include residual soil and groundwater contamination.

- Soil results reported PFAS concentrations below the adopted human health and ecological guidelines, indicating that in the areas sampled, soils do not present an unacceptable risk to human health and ecological receptors.
- Groundwater results at the source of PFAS impacts including the fire training ground and the former fire station reported PFAS concentrations above the ecological guidelines that have the potential to be toxic to aquatic organisms as wells as exceeding the HISL and enHealth drinking water guidelines.
- Groundwater and surface water down gradient of the identified secondary sources and or other possible sources reported PFAS concentrations above the HISL and enHealth drinking water guidelines.
- Surface water samples from Cobaki Broadwater reported PFAS concentrations below the laboratory limit of reporting, however it is noted that the HISL for consumption of fish is lower than the laboratory limit of reporting.

This report should be read in accordance with the limitations set out in Section 10.

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1. Introduction

Airservices Australia (Airservices) engaged GHD Pty Ltd (GHD) to conduct a Preliminary Site Investigation (PSI) at the Gold Coast Airport (GCA) with particular regard to the potential for contamination from per- and poly-fluorinated alkyl substances (PFASs).

1.1 Background

Aqueous film-forming foam (AFFF) has been used for fire-fighting purposes around Australia for decades. On airports, AFFF has been used at fuel depots, hangars and for operational and fire training purposes.

AFFF has not been used in the provision of aviation rescue and fire-fighting (ARFF) services by Airservices since 2010 but continues to be used around fuel depots, hangars etc, at many airports. AFFF products historically used on airport sites contained PFAS. Depending on the type of AFFF used, the principal PFAS constituents could have included perfluorooctane sulfonate (PFOS), perfluorooctanoic acid (PFOA) and fluorotelomers such as 6:2 fluorotelomer sulfonate (6:2FtS) and 8:2 fluorotelomer sulfonate (8:2FtS).

PFAS are non-biodegradable chemicals that have not only contaminated the sites at which AFFF was employed but also the assets used to apply it. These PFAS are highly persistent in the environment, can bioaccumulate and can be harmful to animal and human health (US EPA 2014).

1.2 **Objectives**

The objective of this PSI was to identify where there is potential for PFAS contamination to be present at the GCA as a result of previous activities by ARFF and other AFFF users. A preliminary and targeted soil, groundwater and surface water sampling program was undertaken to validate and further investigate the desktop findings of the PSI.

The report also seeks to identify potential sensitive receptors and stakeholders that may be impacted by possible PFAS contamination arising from activities (both historic and current) utilising AFFF at GCA.

1.3 Scope

The scope of work for the PSI included:

- Review of historical aerial photographs to gain an understanding of site development over time and identify potential areas where AFFF may have been used.
- Review of current certificates of title and key lessees to identify site activities that may have included the use of AFFF.
- Review of published data on geology, hydrology and hydrogeology to gain an understanding of site conditions and identify sensitive receptors.
- Search of the groundwater bore database to understand beneficial uses for groundwater in the area.
- Review of historical reports provided by Airservices to provide some background to previous investigations and site conditions.
- A detailed site inspection to gain an understanding of site condition and inspect areas where there is potential for AFFF to have been used.

- Interviews with personnel who have an understanding of current and historical site activities to identify areas where AFFF may have been used.
- Preliminary and targeted soil, groundwater and surface water sampling program.
- Development of a Conceptual Site Model (CSM) demonstrating potential source, pathway, receptor linkages.
- Conclusions.

2. Data quality objectives

The Data Quality Objective (DQO) process was applied to the preliminary investigation as described below, to ensure that data collection activities were appropriate and achieved the stated objectives. The DQO steps have been addressed as follows.

Table 1 Data quality objectives

Step			
Step 1: State the problem.	Where was AFFF historically used on the Airport site?		
	Do possible source, pathway, receptor linkages present an unacceptable risk?		
Step 2: Identify the decision.	To address the problem set out in Step 1, the following decisions are required to achieve the task objective and to identify data gaps and additional information that may be required:		
	 What activities have occurred at the site which may have used AFFF (PFAS containing foam)? 		
	Where was AFFF stored on site?		
	 What sensitive receptors are present at and surrounding the site? 		
Step 3: Identify inputs to the decision.	 To inform the decisions and identify key data gaps and needs, the following information is considered necessary: Review of site conditions Review of available history information Interviews with site personnel Detailed site inspection 		
	Development of a Conceptual Site Model.		
Step 4: Define the study boundaries.	The Gold Coast Airport property boundaries.		
Step 5: Develop a decision rule.	The key decision rules are:		
	Are there areas of the site, outside the known fire station, former, and current fire training grounds, where PFAS may be present and does this present a potential unacceptable risk?		
	• If NO – further investigations can be targeted in these known areas.		
	 If YES – more extensive investigations may be required. 		
Step 6: Specify limits on decision error	There is potential for anecdotal information to not always be accurate or to be limited in nature, and it is also difficult to assess site activities from historical aerial photographs based on poor resolution. Where possible any possible sources of PFAS contamination will be cross checked through multiple lines of evidence.		

Step	
	The two decision errors that exist include:
	False positive – an area identified as potentially containing PFAS does not.
	 False negative – Areas containing PFAS are not identified.
	These can be managed through the implementation of a sampling program to confirm the PSI findings.
Step 7: Optimise the design for	The CSM design will be optimised through:
obtaining data.	Identification of potential PFAS sources from existing information and investigations conducted by others.
	• A preliminary and high level review of the likely hydraulic characteristics of the upper aquifer to estimate the groundwater flow direction and seepage velocities at various locations of the site.
	A review of the surface water pathways across and leaving the site.

3. Site information

3.1 Site location

The GCA straddles the border of Queensland and New South Wales and is located less than 1 km from the Pacific Ocean and Cobaki Broadwater.

The site location is outlined in Figure 1 in Appendix A and location details are provided in Table 2.

Table 2 Site identifi	cation
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Street Address	Eastern Avenue, Bilinga, Queensland
Site Area	Queensland 128.54 ha New South Wales 270.5 ha
Title Identifiers	Queensland Lot 1 RP225692 Lot 222 RP839951 Lot 5 RP839952 New South Wales Lot 100 DP1120061 Lot 1 DP582467
Parish	Queensland Tallebudgera New South Wales Terranora
Local Government Area	Queensland City of Gold Coast New South Wales Tweed Shire Council
Current Land Use	Airport and associated commercial enterprises
Land Use Zoning	Queensland 90 – Special purpose 56 – Sportsground, racecourse, airfield 53 – Commonwealth New South Wales SP1 – Special activities - Airport

The current operating lease holder for the GCA is Gold Coast Airport Pty Ltd (GCAPL) with portions of the site sub-leased to several other entities including Airservices. The current properties within GCA and relevant lessees are summarised in Table 3 and current certificates of title are provided in Appendix B. The lessees identified are those that are considered to have a major presence on site and/or the potential to undertake activities that could cause contamination. Others are also included on the certificate of title which are not identified here based on their lesser relevance to this investigation.

Table 3 Certificate of title lessee summary			
Lot	Owner	Lessee	
Queensland			
Lot 222 RP839951	Commonwealth of Australia	Queensland Airports Limited	
Lot 5	Commonwealth of Australia	Hertz Australia Pty Ltd	
RP839952		Ascot car and ute rentals Australia	
		Queensland Airports Limited	
		Gold Coast Airport Pty Limited	
		Southern Cross University	
Lot 1 RP	Federal Airports	Airservices Australia	
225692	Corporation	Careflight Queensland Limited	
		Queensland Airports Limited	
		Seair Aviation Pty Ltd	
		Coolangatta Airport Auto Affair Car Wash Centre Pty Ltd	
		Gold Coast Airport Limited	
		Helicopter Association of Australia Pty Ltd	
		Southern Cross University	
		Spotless Services Australia Limited	
		Gold Coast Air Terminal Services Pty Ltd	
		Air Gold Coast Pty Ltd	
		Oceania Aviation Services Pty Ltd	
		Australian Air Express Pty Ltd	
		Gold Coast Hangars Pty Ltd	
		Virgin Blue Airlines Pty Ltd	
		Jetpoint Pty Ltd	
New South W	ales		
Lot 1 on	Commonwealth of Australia	Queensland Airports Limited	
DP582467		Gold Coast Airport Limited	
		Airservices Australia	

Table 3 Certificate of title lessee summary

Lot	Owner	Lessee
Lot 100 on DP1120061	Commonwealth of Australia	Queensland Airports Limited

3.2 Site description

A site inspection was completed by GHD (accompanied by Airservices) on 8 and 9 June 2016. A summary of the findings are provided below and site photographs are included in Appendix C.

Key site features are outlined on Figure 1 in Appendix A. They included:

- Runway.
- Terminal.
- Southern Cross University (SCU).
- Australian Federal Police (AFP).
- Aircraft hangars.
- Commercial precinct.
- Joint User Hydrant Installation (JUHI).
- Former JUHI and former fire station (FFS).
- ARFF workshop.
- Main Fire station (MFS).
- Fire training ground (FTG).
- Surface water drainage channels.

The areas surrounding the major infrastructure on the site are characterised by grass and a series of surface water drainage channels. Portions of remnant native vegetation are located in the south eastern and western portions of the site adjacent to the Pacific Highway / Tugun Bypass and Cobaki Broadwater.

Runway

The GCA includes one major runway, that runs in a north west to south east direction. There is also a minor runway (for smaller craft) which runs in a north to south direction. There are also a series of taxiways to the east of the major runway that support the runway. The runway apron is also located on the eastern side of the runway in the central portion of the site, directly adjacent to the terminal building.

Terminal

The terminal is located on the eastern portion of the site and includes both domestic and international terminals. Terminal short term parking is located to the east of the terminal and long term parking and car hire to the south east of the terminal. There is also some additional car hire services to the north east of the terminal, on the eastern side of Eastern Avenue. The terminal and car parking areas are characterised by hardstands with some garden beds on the perimeter of the car park, near the site entrance.

A number of freight facilities are located directly to the north east of the terminal.

Southern Cross University

Southern Cross University (SCU), Gold Coast Campus is located on the south eastern portion of the site. The campus includes car parking and two multi-story buildings, with a third currently under construction. There is a water body in the southern portion of the SCU lease area which is hydraulically connected to the airport surface water drainage system. It is understood that this water body will be filled as part of proposed expansion of the university for car parking facilities.

Scrapings from the recent resurfacing of the runway are stockpiled to the west of the university, adjacent to the stormwater drain. It is understood that GCAPL have completed laboratory analysis of this material (including PFAS) and that it has been assessed as suitable for reuse on the site.

Australian Federal Police

An Australian Federal Police (AFP) building is located between the SCU and airport terminal. This area was not inspected as part of the site reconnaissance though it is understood that this is an administration building.

Aircraft hangars

A series of aircraft hangars are located in the north eastern portion of the site. The hangars are leased by light aircraft and helicopter operators. Although a detailed inspection of this area was not undertaken, it is understood that the hangars do not contain stormwater collection or sullage tanks (based on discussion with GCA personnel). Firefighting equipment within the hangars is understood to be limited to handheld fire extinguishers. Old fire extinguishers were noted in the hangers at the time of the inspection that may contain AFFF.

The hangars and associated apron are characterised by sealed surfaces with small garden beds and grassed footpaths on the north eastern side, adjacent to Eastern Avenue.

During the site inspection it was noted that spray painting was being undertaken on the apron at one location.

Commercial precinct

A commercial centre is located to the east of the terminal, which is located on airport land. The commercial area includes the Queensland Airports offices, a service station and a number of food and beverage outlets.

There is a large grassed stormwater drain on the northern eastern perimeter of the site, adjacent to the Gold Coast Highway and some garden beds surrounding the commercial buildings. The remainder of the site is characterised by sealed surfaces.

Joint User Hydrant Installation (JUHI)

The new JUHI is located to the east of the fire station. A wetland area was reclaimed for the construction of the facility. It is understood that the JUHI contains a foam fire management system which includes 'fluorosurfactant-containing protein based' foams (FFFP).

Former JUHI and former fire station (FFS)

The former JUHI and FFS are located north east of the Regular Public Transport (RPT) Apron. All infrastructure has been removed from both facilities. The FFS building footprint and road ways are visible and the former JUHI is characterised by bare earth. GCAPL indicated that hydrocarbon remediation of the former JUHI has been undertaken.

Fire station workshop

The ARFF Workshop is located outside the security fence at the airport (landside), adjacent to the former fire station on Eastern Avenue. Anecdotal information indicates that the workshop has been located here since commencement of fire services at the airport. This area includes a shed and sealed concrete surfaces.

Main Fire Station (MFS)

The current MFS is located adjacent to the control tower, which is directly north of the runway apron. The MFS includes a one storey building, fire truck garage, hardstand and AST bunded area.

The fire truck garage is surrounded by hard stand which drains to a surface water collection system. Operation of the vehicle wash down hose triggers the surface water collection system to open. The system includes a collection trench and triple interceptor trap. All water from the hardstand that passes through the treatment system is discharged to sewer. The hose drying rack is located on a portion of the hardstand separate from the vehicle wash down. Water from the hose drying rack discharges directly to stormwater and does not pass through the treatment system used for vehicle wash down.

The north eastern portion of the hardstand includes two bunded areas for the storage of materials including a diesel AST. The bunds are connected via a valve operated underground drainage line that discharges to stormwater.

The MFS is surrounded by grass and open surface water drainage channels directly to the north, east and west.

Fire training ground (FTG)

The FTG contains the following:

- A hardstand with replica airplane.
- Smoke hut (a two storey brick building).
- A shipping container that have been converted to a fire behaviour training aide.
- Bunded kerosene tank.
- Waste water treatment system.
- Two cars and a small aircraft.

The bunded area contains a waste water collection system, which includes two tanks and a separator. All waste water from the bund is contained in the treatment system and discharged to sewer. The area immediately outside the bunded area is characterised by exposed soil with some grass.

The FTG is surrounded by trees to the north, south and east and a roadway and fence line to the west. There is a small surface water body directly north of the FTG, which appeared to be an expression of groundwater.

Surface water drainage channels

There is a series of surface water drainage channels that transect the site. These are considered to be expressions of groundwater. The main drainage channel is located adjacent to the runway and runs in north east to south west direction. There is also a series of minor open surface water drainage channels on the western side of the runway which divert surface water into the Cobaki Broadwater to the west. Further detail on these are provided in Section 4.3 and outlined in Figure 1 Appendix A.

3.3 Surrounding land uses

Land uses immediately surrounding the airport are summarised as follows and outlined in Figure 1 in Appendix A:

- **North** Betty Diamond Sporting Complex (former Boyd Street landfill) followed by medium density residential development.
- **South** Tugun Bypass, Tweed Heads Pony Club and medium density residential development.
- **East** Gold Coast Highway followed by medium and high density residential development, with some commercial development (retail) and the Pacific Ocean. There are also a number of residential dwellings on the north eastern boundary of the airport on Adina Avenue.
- West Tugun Bypass, followed by the Cobaki Environmental Precinct and the Cobaki Broadwater to the south west and the Desalination Plant and closed Tugun Landfill and Sewage Treatment Plan (STP) to the north west.

3.4 Key stakeholders

The following key stakeholders have been identified at the site:

- Site lessees.
- Nearby residents to the east.
- City of Gold Coast as owner of the Tugun Landfill and Betty Diamond parkland (former Boyd Street landfill) located to the north and north west.
- South East Queensland Water (SEQ Water) as owner and operators of the Tugun desalination plant located to the north west.
- Coolangatta-Bilinga, Queensland Fire and Rescue Service
- Commercial and recreational fisherman operating in Cobaki Broadwater.

4. Site conditions

4.1 Topography

The GCA is located on a coastal plain with generally flat topography and low elevation (less than 5 metres above Australian Height Datum - mAHD). The majority of the site has been built up compared to the natural ground level to establish a relatively consistent, flat site.

4.2 Geology

4.2.1 Regional geology

Regional geology is identified as Pleistocene-aged beach ridges characterised by sand and shelly sand (Queensland Digital Dataset, 2006).

The Queensland Government Minesonlinemap (<u>https://minesonlinemaps.business.qld.gov.au/</u>) Map Sheet 9541, MURWILLUMBAH (1968-1972: F Olgers, P Flood (BMR), A D Robertson (GSQ), 1998; L C Cranfield (GSQ)), indicated that the surface soil geology is comprised of gravel, sand, silt and man-made deposits generally associated with landfilling and levelling. A geological map is included in Appendix D.

4.2.2 Soil profile

Bore logs from previous reports indicated soils at the site are characterised by white and yellow sands and dark brown peaty sands in areas close to wetlands (GHD, 2008). Fill of varying thicknesses has also been identified in areas close to the terminal and other infrastructure. These observations are consistent with the published geological maps.

4.3 Hydrology

A major open surface water drainage channel is located on the eastern side of the runway, which is referred to as Coolangatta Creek. The drain runs parallel to the runway in a general north-south direction and directs water into series of stormwater retention basins south of the terminal building and adjacent to Southern Cross University. One of these basins will be infilled as part of future development at SCU. In high rainfall events surface water discharges through an open drainage channel from these wetlands into the Pacific Ocean. The drain is possibly an expression of groundwater.

There is also a series of minor open surface water drainage channels on the western side of the runway which divert surface water into the Cobaki Broadwater to the west.

Anecdotal information suggests that during high tides, salt water encroaches up to the southern surface water drain, adjacent to the runway apron on the GCA.

Stormwater from the runway and taxiways is directed into the stormwater drainage channels. Stormwater from the remainder of the site is diverted to Stormwater Quality Improvement Devices (SQIDs).

The remainder of the GCA comprises unsealed, grassed areas or bushland. Given the high permeability of the natural geology at the GCA, surface water in these areas is likely to infiltrate through the soil profile into the underlying shallow groundwater. Surface water runoff into the surface water drains can be expected in high intensity or prolonged rainfall events.

4.4 Hydrogeology

A search of the Department of Natural Resources and Mines 2015, *Groundwater Database – Bore Reports*, Queensland State Government, Brisbane, identified numerous bores within 1 km of the site. These were all associated with the Tugun Landfill and Desalination Plant location directly to the north west. The bores were all located within the shallow unconfined aquifer, characterised by sands and extended to a maximum depth of between 5 and 6 m below ground level (mbgl).

A search of the NSW Department of Primary Industries, registered bore database (2009), identified a number of groundwater monitoring bores on the south western portion of the airport (within NSW) and private bores throughout the residential and commercial development to the south and south east of the airport (within NSW). The closest of these was a private bore at the Border Park Raceway, located approximately 300 m from the southern boundary of the site. Dewatering bores were also registered, associated with the Tugun Bypass tunnel.

It is important to note that unregistered and private bores may also exist. The site inspection noted that a number of residents on Adina Avenue (which borders the northern portion of the GCA) displayed signs indicating they had spear pumps. Given the presence of shallow, fresh groundwater on the coastal fringes on the Gold Coast, residential spear pumps are very common.

Groundwater bore data and search results are provided in Appendix D.

Previous groundwater investigations undertaken at the GCA have identified groundwater within 1 m of the ground surface, with groundwater noted at the ground surface in remnant vegetation areas on the GCA. Open surface water drains that transect the GCA are also considered to be expressions of groundwater. Information provided by GCAPL indicated that groundwater at the GCA is at an elevation of approximately 4 mAHD and flows towards both the Pacific Ocean (northeast-wards) and Cobaki Broadwater (southwest-wards) suggesting a groundwater divide through the GCA. It is likely that the Pacific Ocean and Cobaki Broadwater are receiving environments of the groundwater and surface water leaving the GCA.

The extent of saltwater intrusion and tidal influence is largely not understood.

5. Site history

5.1 Aerial photographs

A review of historical aerial photographs between 1947 and 2015 was completed. A summary of the key findings is outlined in Table 4 and a copy of the photographs is provided in Appendix E.

Table 4	Historical aerial photograph summary
Date	Description
1947	There is visual evidence of three small runways, one of which is consistent with the current minor runway for small aircraft. The remainder of the site was characterised by uncleared bushland and wetland areas.
	An area of cleared land was also visible in the area of the former airport landfills.
	There was also some low density residential development along the coastline.
1955	The current runway alignment was visible, with one runway in a south east to north west direction. A roadway and cleared area were present where the existing terminal is located. A formalised drainage line had been constructed in a portion of the wetland that runs parallel to the ocean.
	There were a number of clearings and access tracks also visible across the site. None of these clearings appeared to align with the location of the current fire training ground or the former airport landfills.
	There was an increase in residential development along the coast line.
1963	Some small buildings were visible in the existing terminal area, which may also include the fire station, although this cannot be determined based on the resolution of the photograph. There appeared to be further clearing of vegetation surrounding the runway and a wide spread clearing running parallel to the shoreline in the southern portion of the site.
	The area around the existing fire training area was cleared of vegetation and there were a number of tracks that surrounded the area. The current pond was visible directly to the north of the fire training ground.
	There was an increase in residential development along the coast line and buildings were also visible on Adina Avenue, directly adjacent to the airport. Some cleared land was also visible to the north of the site in the location of the former Boyd Street landfill.
1971	A large amount of land clearing had occurred on the site since the 1963 aerial photograph. This included wide spread clearing in the area of the former airport landfills western side of the site. A runway expansion to the south was visible and a number of taxi ways around the terminal (consistent with the current location) had been constructed. There were also additional buildings within the terminal area and the former fire station building and workshop were visible.
	Some more formalised open surface water drainage channels had also been constructed on the southern portion of the site, one of which discharged to Cobaki Broadwater. Some of the current stormwater drains that run parallel to the runway were also visible.

Table 4 Historical aerial photograph summary

Date	Description
	The majority of the land to the north, east, south and west of the fire training area had been cleared and there were more tracks surrounding the fire training area.
	There was further development along the coast line and within Adina Avenue. The waste water treatment plant ponds and Tugun landfill were also visible to the west and Boyd Street landfill to the north.
1980	It appeared that filling had occurred in the location of the existing terminal building and the current stormwater drains that run parallel to the runway were visible.
	No other major changes to the site were noted. There was evidence of ongoing landfilling to the west in Tugun landfill and north in Boyd Street landfill.
1985	In the 1985 historical aerial imagery, several upgrades at the airport are noted. A new terminal building has been built at the south-east of the main runway. Between the runway and the terminal are taxi runways and an open drainage channel running almost parallel to the runway.
	Further clearing of land was visible in the western portion of the site adjacent to Cobaki Broadwater.
	Structures and what appear to be soil stockpiles are visible in the fire training ground. The area where the current fire station is located had been cleared.
	The former fire station was visible, as was the Queensland Fire and Rescue Service (QFRS) building.
	Landfill appeared to have continued to the west in the Tugun landfill and sports field were visible to the north in the Boyd Street landfill.
1992	More filling and formalising of open drainage channels had occurred in the northern portion of the site. The apron had also expanded to the north. Further clearing of land was visible in the western portion of the site adjacent to Cobaki Broadwater.
	The current fire station building was also visible.
	One portion of the vegetation adjacent to Cobaki Broadwater has been cleared and two cells are visible. This is consistent with the area that is currently characterised by sparse vegetation.
2003	Clearing and filling of the site appeared to have ceased and vegetation appeared to be establishing in the western, southern and south eastern portions of the site. The terminal building had expanded and additional buildings were visible in the aircraft hangar area.
	The existing bunded training pad could be seen at the fire training ground.
2007	Further re-vegetation of the site was visible and further filling had been undertaken to the north of the current fire station area. The former fire station building was also gone and the area was characterised by vacant land. The terminal carpark had expanded to the east and earthworks associated with the construction of SCU were visible.

Date	Description
	The Tugun bypass tunnel and desalination plant, to the west of the site were also being constructed.
	The existing smoke hut was visible at the fire training ground.
2015	Further re-vegetation of the site was visible. Two buildings were visible at SCU as is the AFP building. The new JUHI was visible in the area to the east of the fire training ground. The open drainage channel discharging to Cobaki Broadwater was no longer visible.

5.2 **Previous reports**

A number of reports were provided by Airservices for review. These are outlined below with a summary of the key points. These historical investigations (excluding the AECOM 2011 investigation) were undertaken at the FTG (the drill ground) which is a known PFAS source and is likely to be the area most heavily impacted by PFASs due to the volume of AFFF used during historical training.

Parsons Brinkerhoff, 2006

Soil and groundwater assessment, ARFF Fire Training Area, Coolangatta Airport, Tugun, Qld, Parsons Brinckerhoff, 21 July 2006

- Wastewater (comprising oily water generated from fire fighting training using kerosene and jet fuel) overflowed from the wastewater separator during treatment, resulting in hydrocarbon impact to the fire training ground.
- The investigation completed by Parsons Brinkerhoff estimated that an area of 150 m³ had been impacted. These impacts extended to the water table.
- The analysis suite used for soil characterisation was limited to Total Petroleum Hydrocarbons.

Parsons Brinkerhoff, 2007

Remediation and Validation Report, Fire Training Area, Gold Coast Airport, Coolangatta, Queensland, Parsons Brinkerhoff, November 2007

- Impacted soil from the waste water release in 2006 was excavated and placed on site in a bunded lined area.
- Soil was land farmed monthly using a backhoe.
- Four soil validation samples were collected from below the land farm pad following removal.
- Some localised dewatering was also completed within the soil excavation as part of remediation. This included some recirculation, aeration and pumping to sewer. Hydrogen peroxide was also introduced to assist with aeration at one point.
- The groundwater aeration pond leaked, and therefore use of the ponds ceased.
- Analysis was limited to hydrocarbons.

GHD, 2008

Preliminary Site Contamination Assessment, Coolangatta ARFF Drill Ground, Gold Coast Airport, GHD Pty Ltd, August 2008

- The fire training ground is used to light kerosene fires and extinguish them using AFFF.
- Waste water from the fire training ground is passed through a separator on site before discharge to sewer.
- There is evidence of 'over spray' where foam extends outside the bunded area.
- The fire training area includes two kerosene ASTs (1,500L), three waste water USTs and rainwater tank.
- There is also a dis-used triple interceptor trap.
- Sources of contamination immediately surrounding the fire training area were identified as:
 - Landfill site for airport waste south east of the fire training area.
 - Sand extraction for runway extension
 - South west corner of runway uncontrolled fill
 - Control tower and fire station uncontrolled fill for development
- Impacted soil from the waste water leak (PB 2006) was landfarmed on site and then reinstated around the USTs.
- Training in the fire training area can occur up to three times a week.
- Airservices are the only organisation who have used the training ground.
- AFFF 3M Light Water was used at the site for approximately 20 years.
- AFFF has reportedly been used in the fire training area and in areas where Airservices is required for emergencies.
- Training also historically occurred in the vegetated areas along the drainage line.
- The training ground was established in the 1930s.
- The waste water from the 2006 spill would also have included AFFF.

AECOM, 2011

Limited Wastewater, Surface Water and Sediment Quality Assessment – Gold Coast Airport, Aviation Rescue and Fire Fighting (ARFF) Operations, AECOM, 16 March 2011

- Included surface water and sediment investigation in the following areas:
 - ARFF Fire Station PFOS (<0.02 to 26.4 μg/L) and PFOA (<0.02 to 6.58 μg/L)
 - ARFF Fire Drill Training Ground PFOS (3.44 to 14.3 $\mu g/L)$ and PFOA (0.5 to 19.9 $\mu g/L)$
 - Drainage lines within the site PFOS (0.02 to 2.27 $\mu g/L)$ and PFOA (0.02 to 0.09 $\mu g/L)$
 - Sediments in drainage channels PFOS (<0.0005 mg/kg to 4.78 mg/kg) and PFOA (,0.0005 mg/kg to 0.0228 mg/kg)
- Fire training equipment is cleaned at the fire station.
- Waste water is 'pre-treated' in holding tanks through a CPU (Coalescing Plate Separator) before being released to Coolangatta Creek (open drainage channel on the site). Sometimes the CPU is bypassed and water goes directly to Coolangatta Creek and the

wetland to the east of the Fire Station. The hose drying rack also drains directly into Coolangatta Creek.

• Fire trucks are periodically sent off site to the mechanical workshop. No cleaning is reportedly completed here, but there is draining infrastructure in place which should be assessed.

Parsons Brinkerhoff, 2014

Groundwater Monitoring and Reporting – ARFF Drill Ground, Gold Coast Airport, Parsons Brinckerhoff, Letter dated 15 January 2014

- Groundwater sampling was conducted in 2013 at the fire training ground at monitoring wells BH6, BH7, BH9, BH12 and BH13.
- The analytical suite included TPH, BTEX, PAHs and PFOS, PFOA and 6:2 FTS.
- PFOS concentrations ranged from 12.6 to 2,280 µg/L and PFOA from 1.0 to 51.3 µg/L.
- The report also includes a summary of historical groundwater monitoring for hydrocarbons (TPH) from a number of monitoring wells in the fire training area (BH01, BH07, BH08, BH12 and BH13) between 1999 and 2011.
- PFOS, PFOA and 6:2 Fts was also included in one historical monitoring round in 2011.

Parsons Brinkerhoff, 2015

Groundwater Monitoring and Reporting – ARFF Training Ground, Gold Coast Airport, Parsons Brinckerhoff, Letter dated 1 May 2015

- Groundwater sampling was conducted in 2015 at the fire training ground at monitoring wells BH6, BH7, BH9, BH12 and BH13.
- The analytical suite included TPH, BTEX, PAHs and PFOS, PFOA and 6:2 FTS.
- PFOS concentrations ranged from 17.9 17.9 to 527 µg/L and PFOA concentrations ranged from 2.23 to 37.1 µg/L.
- The report contains discussion of the groundwater results and trends in historical monitoring data.

A copy of this report is provided in Appendix G.

5.3 Operational responses system outputs

Airservices provided GHD with a copy of the ARFF operational response system (ORS) outputs for Gold Coast Airport. The ORS is used to document incidents and includes details of materials used, vehicles involved and actions taken. The recorded incidents and summary of the ORS outputs is provided in Table 5. A copy of the ORS records is provided in Appendix H.

Incident date	Incident location and description	Materials used	Actions taken
15 December 1999 (Incident Report 124)	Uncontrolled fire at Boyd Street landfill	14,000 L water 100 L foam ¹	Assist Queensland Fire and Rescue Service (QFRS) to extinguish the fire at the rubbish tip at Boyd Street, Tugun.

Table 5 ORS output summary

Incident date	Incident location and description	Materials used	Actions taken
17 July 2000 (Incident No. 161)	Vessel fire at Gold Coast Marina Coomera	1,350 L foam ¹	Delivered foam to incident site to assist QFRS to put out the fire of a large vessel.
26 August 2001 (Incident No. 231)	Taxi vehicle on fire at the Ansett Terminal entrance	9 kg dry chemical powder 400 L water 12 L foam ¹	ARFF extinguished the fire from the engine compartment of a taxi vehicle. The road way was washed down and debris from car removed.
15 September 2002 (Incident No. 311)	Fire at the Tugun landfill	50,000 L water ¹ 140 L foam	ARFF assisted QRFS in combating the fire at the Tugun Landfill.
2 July 2009 (Incident No, 1320)	Helicopter crash to the west of Runway 32	320 L water 20 L foam ²	ARFF attended crash site (300 m to the west of Runway 32) and deployed one foam line due to aviation gas leak from aircraft wreckage and applied a foam blanket to the area.

¹ – Based on Airservices foam use dates, foam used is likely to be 3M Lightwater

² – Based on Airservices foam use dates, foam is likely to be Ansulite

5.4 Interviews

Site interviews were conducted on the 8 and 9 June 2016 with the following personnel:

- Norbert Benton Environment Manager Gold Coast Airport
- Greg Hopgood Project Environment Coordinator Gold Coast Airport
- Peter Franks Fire Station Manager Airservices Australia

A summary of the key findings from the assessment are listed in Section 5.4.1 and 5.4.2. A transcript of the interviews is provided in Appendix F.

5.4.1 Gold Coast Airport Environmental Manager

Historically soil, groundwater and surface water investigations which included consideration of PFAS have been limited. More recently GCAPL have commissioned soil and groundwater investigations which included consideration of PFAS associated with the development of the Instrument Landing System (ILS) and Project LIFT (terminal and apron expansion) and a preliminary site investigation for the whole airport site. These reports were in draft at the time of the site interview, but GCAPL discussed the key findings of the investigations, which identified a number of possible sources of PFAS including:

- Fuel spill in 1996 at the end of the fuel line (end of apron).
- Helicopter crash in 2009.
- Light plane crash in mid-1980's (1984).
- Irrigation of the grass at the end of the runway (to facilitate establishment).

- Foam may also have been used in the Airport Emergency Plan conducted every two years. Although this cannot be recalled in the past 10 years.
- Tugun bypass tunnel.
- Queensland Fire and Rescue Service.
- Former airport landfills, located on the western boundary. GCAPL indicated that all waste in these landfills was removed from the site and relocated as part of the Tugun Bypass development.
- Anecdotal information from a site worker with over 50 years on the site indicated to GCAPL that 'crash remote' training occurred in a number of locations across the airport. The date time of these operations was unknown.

A Lockheed Lodestar also crashed at the site in March 1949, however, this was prior to the use of AFFF and is therefore not considered a possible source of PFAS.

Nothing else is noted on the register which only goes back to 2007.

Bulk earthworks associated with development of the airport typically included a large amount of importation of fill as well as large amounts of fill sourced from borrow pits on the site. It is also noted that Airservices water trucks were used to water establishing vegetation. GCAPL identified an area on the southern perimeter of the site where this occurred in 2007, but this practice is likely to be more wide spread.

There is no record of on-site surface water drains ever being de-silted. Vegetation is periodically cleared from the drains and stockpiled adjacent to the drain. During earthworks, water from surface water drains has been used for dust suppression and irrigation across the site.

Rainwater is harvested from the terminal building, AFP and SCU and stored in underground storage tanks for use in toilets and urinals at the site.

The new JUHI includes fluorosurfactant-containing protein based foam (FFFP).

5.4.2 Airservices Australia Fire Station Manager

Peter Franks, the ARFF Fire Station Manager noted that Airservices has an incident log that goes back to the 1990s detailing how much foam was discharged at each incident. During the interview, Peter Franks recalled the following incidents:

- A helicopter crash in 2009 where foam was discharged.
- A head on mid-air collision in 1988 the crash site was outside the airport grounds in a remote location. While ARFF attended the scene it was managed by NSW Fire and Police and foam was not discharged.
- There was a fuel spill near the terminal in 1996, though there was no incident log recorded. Practice was typically to flood fuel spills with water and wash them into the surface water drainage system. Peter considered it possible that water was put on the fuel spill and that there would have been residual PFAS in the truck water tank. It was common practice to spike the water tank with a dose of foam directly into the water tank. However, by the 1990s, this process had ceased due to technological improvements in foam induction methods in the trucks.
- Peter also noted that the hydraulic fluid used in aircraft (Skydrol) contains PFAS. There may have been hydraulic fluid spills in the area of the fuel spill for many years that potentially contributed to the PFAS detections observed by GCAPL.

Historically, AFFF was delivered to the site in plastic 44 gallon drums where it was transferred into an on-site AST. It is considered likely that many of the empty drums were then transported

by Airservices staff to the local Tugun and Boyd Street landfill for disposal (though this was not confirmed). There were no formal records of AFFF storage, and no AFFF is stored by ARFF at the GCA now.

Peter indicated that 99% of fire training was undertaken at the FTG. It was confirmed that 'crash remote' training was also undertaken at isolated locations around the airport which would have included the discharge of foam. The location of the 'crash remote' training would not have been far from the MFS or FTG. Since the training ground was formally constructed (in the late 1990s) 'crash remote' training has been close to it in the southern portion of the GCA.

In addition, there was historically a daily foam test and a six monthly valve and foam consistency test which was completed on each vehicle. These former daily discharges were typically done in the area surrounding the fire station, while the latter discharges occurred in the grassed area to the east of the FTG.

Training at the FTG occurs approximately once every shift. Foam was always used in training until 2010, when training changed to water only releases. There are no records of the volumes of foam used during these exercises. The FTG is also used by the Queensland and NSW fire services approximately every three to six months. The bunded area at the training ground includes a waste water collection system that discharges to sewer.

Fire hoses are flushed at the FTG and general wash down of dirt from hoses and vehicles is completed at the fire station on the hardstand containing a waste water collection system.

5.5 Summary of site history

The site historical review indicates that the airport commenced operation prior to 1947, but major development appeared to have occurred from the 1950s onwards. Parts of the site appeared to have been progressively cleared and filled from the 1960s as the airport expanded. Land clearing and filling appeared to have slowed in the late 1990s, early 2000s and vegetation appeared to have re-established on the west, south and south eastern portions of the site.

GCAPL indicated that the airport historically disposed of waste materials on the site in three small landfills on the western side. It is unknown when landfilling in the area commenced and the historical aerial photographs do not provide any clear information on these. GCA indicated that all waste was removed from these landfills and relocated off-site as part of the construction of the Tugun Bypass. Council operated landfills are also located directly to the north and west. To the west, the Tugun Landfill operated from approximately the 1970s to 2010s. The Boyd Street landfill, to the north operated between the 1960s and 1980s.

Firefighting services have been present at the GCA since commencement of the airport. Airservices was established in 1995. The fire station was originally located on the eastern perimeter of the site adjacent to and north of the former JUHI site and the terminal building; the ARFF workshop is located opposite, landside and across the road. These buildings are present (based on historical aerial photographs) in the 1960s. The current fire station was constructed in 1992 and the former fire station was demolished some years later in late 2008 and the JUHI in early 2013.

Fire training has been undertaken at the current fire training ground location since fire services operated at the site. It is noted that clearing in this area is not visible until the 1960 historical aerial photographs. It is reported that approximately 99% of fire training is undertaken here. Historically, remote access training, involving the discharge of foam was also undertaken in isolated locations of the GCA in close proximity to the MFS and FTG. In addition, there was historically a daily foam test and 6 monthly valve and foam consistency test which was completed on each vehicle. These discharges were typically done in the area surrounding the fire station and the grassed area east of the FTG.

The FTG, current and former fire stations and possibly the fire station workshop are all considered potential sources of PFAS contamination due to the activities that have occurred here and the likely storage of AFFF.

There have been a number of incidents at the site which may have also resulted in discharge for foam including:

- A fuel leak at the end of the runway in 1996.
- A helicopter crash in 2009 on the western boundary.
- A single light plane crash in approximately 1984 near the aircraft hangar.
- 'crash remote' fire training in 44 gallon drums in isolated areas of the site.

The following other possible sources of PFAS contamination have also been identified at the site and in the immediate surrounding area:

- Tugun bypass tunnel fire suppression system understood to use AFFF and has reportedly had at least one accidental discharge to the capture sumps.
- Tugun and Boyd Street landfills records of waste disposal are not available, but PFAScontaining wastes including carpets and spent drums of foam concentrate are likely.
- QFRS Coolangatta Bilinga Fire Station Established in 1976. QFRS changed to fluorine-free foam in 2003.
- Irrigation of some areas of the site by the fire trucks (under instruction from GCAPL) to assist with establishment of vegetation, with the possibility of residual foam being present in the water released.

These are outlined in Figure 2 in Appendix A.

6. Preliminary and targeted sampling

6.1 Scope of work

Based on the outcomes of the PSI, a Sample Analysis and Quality Plan (SAQP) was developed for the investigation (GHD reference: 31/34071/252132).

The SAQP was prepared so that the field investigations and analyses were undertaken in a way that enabled the collection and reporting of reliable data on which to base any further soil, groundwater and surface water monitoring programs for specific areas of the site.

The historical investigations summarised in Section 5.2 were focused on the FTG which is one of the primary sources of PFASs at the GCA. The Preliminary Sampling program was designed to investigate potential migration pathways from the FTG and potential impacts at down gradient sensitive receptors (though did include limited additional sample collection at the FTG).

The GHD SAQP described drilling methods, sampling equipment, well development strategy, sample collection protocols, sample processing, field and laboratory sample analysis, equipment decontamination and quality-assurance and quality-control (QA / QC) procedures.

The scope of work undertaken, methodology adopted and results of the sampling program are provided in a Preliminary Sampling report (GHD, 2016a).

6.2 Results summary

The investigations completed as part of this scope of works reported the highest groundwater PFAS concentrations at groundwater wells at the FTG and the former fire station. PFOS results at these locations exceeded the ecological screening criteria for aquatic organisms. Groundwater sample locations on the south eastern portion of the site and western perimeter exceeded the adopted human health screening levels and the enHealth drinking water guidelines.

Surface water samples in the drainage channels downstream of the fire station and in the pond adjacent to the FTG also reported PFOS concentrations above the adopted human health screening levels for consumption of fish, but were below the adopted ecological screening values for aquatic organisms and the eHealth guideline for recreational waters. Surface water results from the Cobaki Broadwater reported PFAS and PFOA concentrations below the laboratory limit of reporting.

Full details of the scope of work undertaken, methodology and results are provided in the Preliminary Sampling report (GHD, 2016a).

7. Conceptual site model

Based on our understanding of the contamination issues and site setting a conceptual site model (CSM) has been generated as a basis for assessing the risk posed by any potential *source -> pathway -> receptor* linkages (or pollutant linkages).

The CSM assumes a commercial/industrial land use scenario consistent with the sites current use as an airport. A representation of the CSM using two cross-sections is included as Figure 3a and Figure 3b and CSM Pathways are shown in Figure 4 in Appendix A. A representation is also included in Chart 1.

7.1 Sources

The focus of this assessment is on the potential sources of PFAS on the GCA which are identified as the following:

- The FTG routine discharge of foam in this area from 1980 to 2010.
- The MFS and surrounding area wash down of vehicles and hoses, drainage associated with the bunded areas that contained foam, the daily and six-monthly foam discharges adjacent to the current AFFF fire station from 1992 to 2010.
- Fire station workshop.
- The old fire station adjacent to the old JUHI activities consistent with those identified at the current fire station, with the use for AFFF from 1980 to 1992.
- Discharge of foam associated with a fuel leak at the end of the apron in 1996.
- Discharge of foam associated with a helicopter crash in 2009 on the boundary with the Tugun Bypass.
- Discharge of foam associated with a single light plane crash in approximately 1984 near the aircraft hangar.
- Discharge of foam as 'crash remote' fire training in 44 gallon drums in isolated areas of the site from 1980 to 2010.
- Tugun bypass tunnel fire suppression system.
- Tugun and Boyd Street landfills.
- Sewage Treatment Plant adjacent to the Tugun Landfill.
- Former airport landfills
- Queensland Fire and Rescue Service (QFRS) Coolangatta Bilinga Fire Station.
- Irrigation of vegetated areas of the site with the fire trucks.
- Sediments and/or groundwater in the existing and former surface water drainage channels (possible secondary source).

The preliminary sampling program confirmed the following sources of PFAS at the site:

- FTG
- Current fire station
- Former fire station

This does not preclude the presence of the other potential sources of PFAS identified.

7.2 Pathways

7.2.1 Contaminant transport mechanisms

The key mechanisms for contaminant transport at the site have been identified as:

- Surface water overland flow lateral overland flow and migration of contaminants via stormwater during rain events, causing re-deposition of contaminants on other areas of the GCA or off-site. There is the potential for migration of contaminated surface water / storm water from the source in open drainage channels.
- *Groundwater advection/dispersion* horizontal and vertical migration of contaminants from the GCA soils into the underlying aquifer and through groundwater to the point of surface water discharge or via uptake in spear pumps on nearby residential properties.

7.2.2 Potential exposure mechanisms

Based on the identified receptors and the release and fate and transport characteristics of the contaminants of potential concern, contaminant uptake pathways through which receptors may become exposed to contamination include ingestion and dermal absorption.

 Ingestion exposure pathway - Ingestion of contaminants by site workers could occur during site works which will involve excavation and handling of site soils, stormwater, or groundwater. This is not considered to be of a concern for indoor site workers. Ingestion could also occur for nearby residents using spear pumps via direct contact or use of water for food production (vegetable gardens, chickens etc).

Terrestrial and aquatic fauna may ingest contaminants potentially migrating off-site and discharging to the down gradient surface water receiving environment including the Pacific Ocean and Cobaki Broadwater.

- Dermal exposure pathway Exposure may occur via sorption through biological membranes such as skin, based on animal studies. While this has not been confirmed for humans and despite PFOS having a low skin permeability constant, the exposure pathway may be complete as illustrated on the CSM.
- Inhalation exposure pathway PFAS are not considered to be volatile so inhalation is not considered to be a viable exposure route.

7.3 Receptors

The site is located in a highly modified commercial/industrial site setting. The following are the key potential human health and ecological contamination receptors considered to be relevant in the context of the site's setting:

- Site workers whose activities may result in exposure to site soils, surface water and groundwater.
- Nearby residents using spear pumps.
- Consumers of seafood from the down gradient surface water receiving environment of the Pacific Ocean and Cobaki Broadwater who may ingest contaminants.
- Recreational users of the Pacific Ocean and Cobaki Broadwater that may ingest contaminants or have dermal exposure to contaminants.
- Flora and fauna in the hydraulically down-gradient marine surface water receiving environment of the Pacific Ocean and Cobaki Broadwater.

• Terrestrial flora and fauna; fauna through consumption of impacted plant or animal matter (e.g. grasses and worms), which may in turn impact their predators.

7.4 Potential source-pathway receptor linkages

The CSM has identified a number of potential source-pathway-receptor pollutant linkages which are highlighted in Table 6. These are discussed below in the context of the GCA's setting.

Table 6 PFAS contamination - potential pollutant linkages

Potential pollutant linkages	Key exposure routes and risks			
Potential human health risks				
Health risks to site workers who may come into contact with contaminated site media	Day to day activities are not likely to expose site personnel to these media. However, it remains a possibility where workers are involved with excavation and handling of contaminated soil, surface water or groundwater. It is expected that this can be managed through good hygiene practices and task-specific management plans.			
Health risks to nearby residents who are exposed to potentially contaminated groundwater through spear pumps.	The main risk to human health is considered to be through consumption of extracted water and consumption of food produce irrigated by the extracted water. Consumption of impacted drinking water as well as vegetables, fruit or poultry irrigated with water contaminated by PFAS from a spear pump may lead to bioaccumulation of PFAS in humans. Dermal exposure has not been identified as a dominant exposure pathway for PFAS.			
Health risks to consumers of contaminated seafood arising from migration of contaminants through surface water and groundwater to the Pacific Ocean and Cobaki Broadwater and bioaccumulation of contaminants in biota.	As PFAS are highly persistent and have a high propensity to bio- accumulate through the food-chain, the potential for human exposure to PFAS via consumption of contaminated seafood is an issue that needs further investigation.			
Migration of contaminants through surface water and groundwater to the Pacific Ocean and Cobaki Broadwater resulting in human health impacts to recreational users of the Pacific Ocean and Cobaki Broadwater.	The main risk is through incidental ingestion of water. Dermal exposure has not been identified as a dominant exposure pathway for PFAS.			
Potential ecological risks				
Impacts to the off-site marine ecosystem (flora and fauna) of the Pacific Ocean and Cobaki Broadwater from migration of contaminants through surface water and groundwater	There is the potential for PFAS contaminated surface water and groundwater to discharge to the adjacent marine ecosystem where marine biota (invertebrates and macrofauna) may be exposed. Predation of species can lead to a wider distribution of PFAS in the marine environment due to bioaccumulation.			

Potential pollutant linkages

Key exposure routes and risks

Terrestrial ecology – take up of PFAS in plants and subsequent consumption by fauna plus impact to invertebrates via impacted soil There is potential for prey species to ingest impacted flora or soil and then be predated by larger animals e.g. eagles, snakes, foxes.



-----> Possible source-pathway-receptor

There is no source-pathway-receptor linkage identified that would have the potential to impact the receptor.

There exists a potential source-pathway-receptor linkage

8. Conclusions

8.1 Conclusions

Based on the review of available site history information, site inspection and site interviews, the following potential sources of PFAS have been identified:

- The FTG routine discharge of foam in this area from 1980 to 2010.
- The MFS and surrounding area wash down of vehicles and hoses, drainage associated with the bunded areas that contained foam, the daily and six-monthly foam discharges adjacent to the current ARFF fire station from 1992 to 2010.
- Fire station workshop.
- The old fire station adjacent to the old JUHI activities consistent with those identified at the current fire station, with the use for AFFF from 1980 to 1992.
- Discharge of foam associated with a fuel leak at the end of the apron in 1996.
- Discharge of foam associated with a helicopter crash in 2009 on the boundary with the Tugun Bypass.
- Discharge of foam associated with a single light plane crash in approximately 1984 near the aircraft hangar.
- Discharge of foam as 'crash remote' fire training in 44 gallon drums in isolated areas of the site from 1980 to 2010.
- Tugun bypass tunnel fire suppression system.
- Tugun and Boyd Street landfill.
- Sewage Treatment Plan adjacent to the Tugun Landfill.
- Former airport landfills
- Queensland Fire and Rescue Service Coolangatta Bilinga Fire Station.
- Irrigation of vegetated areas of the site with the fire trucks.
- Sediments and/or groundwater in the existing and former surface water drainage channels (possible secondary source.

The following potential sensitive receptors have been identified:

- Site workers whose activities may result in exposure to site soils, surface water and groundwater.
- Nearby residents using spear pumps.
- Consumers of seafood from the down gradient surface water receiving environment of the Pacific Ocean and Cobaki Broadwater who may ingest contaminants.
- Recreational users of the Pacific Ocean (in the vicinity of the stormwater outfall) and Cobaki Broadwater that may ingest contaminants or have dermal exposure to contaminants.
- Flora and fauna in the hydraulically down-gradient marine surface water receiving environment of the Pacific Ocean and Cobaki Broadwater.
- Terrestrial fauna consuming impacted plant material e.g. grasses. This in turn may impact their predators.

8.2 Summary of preliminary sampling program

Based on the data reviewed in this study and the CSM, the following presents a summary of the findings:

- The primary source (use of PFAS containing AFFF) no longer exists. Secondary sources include residual soil and groundwater contamination.
- Soil results reported PFAS concentrations below the adopted human health and ecological guidelines, indicating that in the areas sampled, soils do not present an unacceptable risk to human health and ecological receptors.
- Groundwater results at the source of PFAS impacts including the fire training ground and the former fire station reported PFAS concentrations above the ecological guidelines that have the potential to be toxic to aquatic organisms as wells as exceeding the HISL and enHealth drinking water guidelines.
- Groundwater and surface water down gradient of the identified sources and or other possible sources reported PFAS concentrations above the HISL and enHealth drinking water guidelines.
- Surface water samples from Cobaki Broadwater reported PFAS concentrations below the laboratory limit of reporting, however it is noted that the HISL for consumption of fish is lower than the laboratory limit of reporting.

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10. Limitations

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

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Appendices

Appendix A - Figures

Figure 1	Site location
Figure 2	Possible PFAS impact areas
Figure 3a	Conceptual site model, Section A
Figure 3b	Conceptual site model, Section B
Figure 4	Conceptual site model pathways



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Appendix B – Certificates of Title

Queensland Government	
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QVAS Property Details Report

16/02/2010 11:52

Page: of:

New local government areas were created following the declaration of the results of the local government elections held on 15 March 2008. The new local governments are recognised by the valuation business but local government data, including property records, cannot be formally transferred to the new local governments until all effective valuations in the new local government have a common date of valuation. The conversion for da purposes is scheduled to progressively occur from May 2008. THE INFORMATION CONTAINED IN THIS REPORT INCORPORATES DATA OBTAINED FROM EXTERNAL & INTERNAL SOURCES OF THIS DEPARTMENT. WHILST SOME VERIFICATION OCCURS AT THE TIME OF PROCESSING, THE DEPARTMENT IS UNABLE TO GUARANTEE THE ACCURACY OF SUCH INFORMATION.

WHILST SOME VERIFICATION OCCURS AT THE TIME OF PROCESSING, THE DEPARTMENT IS UNABLE TO GUARANTEE THE ACCURACY OF SUCH INFORMATION. THEREFORE, ANY PERSON PURCHASING THIS REPORT SHOULD CONDUCT THEIR OWN INVESTIGATION & ANALYSIS OF THE INFORMATION AND DETERMINE ITS SUITABILITY FOR THEIR PURPOSE. INFORMATION DERIVED FROM THIS REPORT IS NOT TO BE USED FOR DIRECT MARKETING PURPOSES.

Property Status: Active

	District:	GOLD COAST	
-	Officer	COSTICOLD COAST	

LG/Div: 3430/01	GOLD COAST CITY (GOLD COAST)	Property. ID: 25002371	WTR: 27666	Previous Ret: 25002370
Property Name: Property Addr: COOLAN	GATTA RD, BILINGA QLD 4225			
· ·	WEALTH OF AUSTRALIA			
Service Addr: Others: N				
	692 & L222 RP839951 & L5 RP839952:P	AR TALLEBUDGERA		· · · · · · · · · · · · · · · · · · ·
Area/Vol: 128.54 H/			•	۰ ۰
	SPECIAL PURPOSES (GOLD COAST)			
Primary Land Use: 56	SPORTSGROUND, RACECOURSE, AIF		Land Use: 53 COMMON	WEALTH (SECONDARY USE ONLY)
Property Type: NON	-VALUED Propert	y Tenure: FREEHOLD		·

VALUATION INFORMATION

GENERAL PROPERTY INF	ORMATION		 · · ·	
Sale Date: Subleased: N	Sale Price: \$0	Sale Type: NONE		
	•			•

Number of Records Printed: 1

End of Report





cadastral pattern is accurately reflected, the Registrar General cannot guarantee the information provided. For all ACTIVITY PRIOR to SEPT 2002 you must refer to the RGs Charting and Reference Maps.

Pepartment of Lands Reliable from the ground up Coundstrain Records Enquiry TKepON Requested Parcel : Lot 102 DP 1120061 Identified Parcel : Lot 102 DP 1120061 Locality : TWEED HEADS WEST LGA : TWEED Parish : TERRANORA County : ROUS DP518902 Status Surv/Comp Purpose DP518902 EDP266190 REGISTERED COMPILATION EASEMENT DP535537 DP266190 REGISTERED COMPILATION EASEMENT DP536537 DP726654 LOT 1 DP535537 DP726654 Lot(s): 710 Image: Explore the structure of
Status Surv/Comp Purpose DP518902 Lot(s): 21 DP266190 REGISTERED COMPILATION EASEMENT DP535537 Lot(s): 1 Image: CA118368 - LOT 1 DP535537 DP726654 DP726654 Lot(s): 710 Image: CA118368 - LOT 1 DP535537 DP726654 DP726654 Lot(s): 710 Image: CA118368 - LOT 1 DP535537 DP726654 DP726654 Lot(s): 710 Image: CA118368 - LOT 1 DP535537 DP726654 DP726654 Lot(s): 710 Image: CA118368 - LOT 1 DP535537 DP726654 Image: CA118368 - LOT 1 DP535537 DP726654 Lot(s): 710 Image: CA118368 - LOT 1 DP535537 DP726654 Image: CA118368 - LOT 1 DP535537 DP755740 Lot(s): 54, 55, 228 Image: CA118368 - LOT 1 DP535537 Image: CA118368 - LOT 1 DP726654 Image: CA118368 - LOT 1 DP726654 Lot(s): 54, 55, 228 Image: CA118368 - LOT 1 DP53582 REGISTERED SURVEY EASEMENT Lot(s): 58, 321 Image: CA118368 - LOT 1 DP53882 REGISTERED SURVEY ROADS ACT, 1993 DP837715 DP837715 Image: CA118368
DP518902 Lot(s): 21 IREGISTEREDCOMPILATIONEASEMENTDP535537 Lot(s): 1 I
Lot(s): 21REGISTEREDCOMPILATIONEASEMENTDP535537DP535537Lot(s): 1Image: CA118368 - LOT 1 DP535537DP726654Lot(s): 710Image: Image: I
Image: Weight of the system REGISTERED COMPILATION EASEMENT DP535537 Lot(s): 1 Image: Weight of the system Image: Weight of the system Image: Weight of the system DP726654 Lot(s): 710 Image: Weight of the system Image: Weight of the system Image: Weight of the system DP726654 Lot(s): 710 Image: Weight of the system Image: Weight of the system Image: Weight of the system DP755740 Image: Weight of the system EASEMENT Image: Weight of the system Image: Weight of the system Lot(s): 54, 55, 228 Image: Weight of the system EASEMENT Image: Weight of the system Image: Weight of the system Lot(s): 58, 321 Image: Weight of the system SURVEY EASEMENT Lot(s): 58, 321 Image: Weight of the system Image: Weight of the system Image: Weight of the system DP837715 Image: Weight of the system SURVEY ROADS ACT, 1993
DP535537 Lot(s): 1 CA118368 - LOT 1 DP535537 DP726654 Lot(s): 710 EX SUR 2004/27 - DP1075400. PART OF NORTH-WESTERN BOUNDARY OF LOT 710 DP726654. (NSW/QLD BORDER) DP755740 Lot(s): 54, 55, 228 DP1051024 REGISTERED SURVEY EASEMENT Lot(s): 58, 321 PD1093882 REGISTERED SURVEY ROADS ACT, 1993 DP837715
Lot(s): 1
DP726654 Lot(s): 710 ₩ EX SUR 2004/27 - DP1075400. PART OF NORTH-WESTERN BOUNDARY OF LOT 710 DP726654. (NSW/QLD BORDER) DP755740 Lot(s): 54, 55, 228 ④ DP1051024 REGISTERED SURVEY EASEMENT Lot(s): 58, 321 ∅ DP1093882 REGISTERED SURVEY ROADS ACT, 1993 DP837715
Lot(s): 710
DP755740 Lot(s): 54, 55, 228 DP1051024 REGISTERED SURVEY EASEMENT Lot(s): 58, 321 P1093882 REGISTERED SURVEY ROADS ACT, 1993 DP837715
Lot(s): 54, 55, 228 Image: Book of the second state of the second
Image: Book of the second state of the second st
DP1093882 REGISTERED SURVEY ROADS ACT, 1993 DP837715
DP837715
Lot(s): 3
DP1017336 REGISTERED SURVEY SUBDIVISION
DP1092051 Lot(s): 2
一
P NSW GAZ 31-03-2006 Folio : 1741
Acquired for the Purposes of the Roads Act, 1993 LOT 2 DP1092051
DP1093704
Lot(s): 670 Image: 670 Big DP755740 HISTORICAL COMPILATION CROWN ADMIN-NO.
DP1093882
PDP1143758 REGISTERED SURVEY SURVEY INFORMATION ONLY アレント・ション・ション・ション・ション・ション・ション・ション・ション・ション・ション
Reservation Of Crown Land Reserve No.
1011248 AND GAZ. 17.2.2006 FOL. 841 - ALSO SEE GAZ. 10.2.2006 FOL. 771
NSW GAZ 26-05-2006 Folio : 3204 Acquired for the Purposes of the Roads Act, 1993
LOTS 4-8 DP1093882
DP1094312
Lot(s): 666 I DP610969 HISTORICAL COMPILATION SUBDIVISION
DP1120061
Lot(s): 100, 101, 102 Image: 100, 100, 100 Image: 100, 100, 100, 100 Image: 100, 100, 100, 100 Image: 100, 100, 100, 100 Image:
t(s): 7307
✓ ₱ DP1119883 REGISTERED COMPILATION CROWN LAND CONVERSION DP1120989
Lot(s): 7300
DP1143758 REGISTERED SURVEY SURVEY INFORMATION ONLY
P NSW GAZ 10-02-2006 Folio:771 Reservation Of Crown Land Reserve No.
1011248 AND GAZ. 17.2.2006 FOL. 841 - ALSO SEE GAZ. 10.2.2006 FOL. 771
DP1127593
Lot(s): 105, 107, 108 B DP226067 HISTORICAL SURVEY ROAD OR MOTORWAY
Lot(s): 103, 104
Operation Operation B DP8655 HISTORICAL SURVEY UNRESEARCHED
SP77115
DP1094312 REGISTERED SURVEY REDEFINITION
SP77153
DP755740 HISTORICAL COMPILATION CROWN ADMIN NO. Image: DP1093704 DECISTERED SUBVEY DEDESINITION
P1093704 REGISTERED SURVEY REDEFINITION Road
Polygon Id(s): 105186877 2019 PA82135 (LOTS 4-8 DP1093882)

PA82135 (LOTS 4-8 DP1093882)

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Contract of Lands	<u>Cadastral I</u>	<u>Records Enqui</u>
Reliable from the ground up	Requested Parcel : Lo	ot 102 DP 112006
Locality : TWEED HEADS WEST	LGA : TWEED	Parish : T

Cadastral Records Enquiry Report uested Parcel : Lot 102 DP 1120061 Identified Parcel : Lot 102 DP 1120061

Locality : TWEED HEADS WEST LGA : TWEED		Parish : TERI	RANORA County : ROUS
· · · · · · · · · · · · · · · · · · ·	Status	Surv/Comp	Purpose
Polygon ld(s): 105561283			
🖗 DP1143758	REGISTERED	SURVEY	SURVEY INFORMATION ONLY
🖗 🛛 NSW GAZ	26-05-20	006	Folio : 3204
	rposes of the Roads Act,199 882	13	
Water Feature Polygon_Id(s): 160260553			
NSW GAZ Acquired for Counc LOT 1 DP1104678	29-02-20 il Purposes	008	Folio : 1394

G Department of Lands

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Cadastral Records Enquiry Report

Reliable from the ground up	Requested Parcel : Lot 102 I	DP 1120061 Identified	Parcel : Lot 102 DP 1120061
Locality : TWEED HEADS WEST	LGA : TWEED	Parish : TERRANORA	County : ROUS
Plan	Surv/Comp	Purpose	
DP92695	COMPILATION	DEPARTMEN	TAL
DP226067	SURVEY	ROAD OR MO	TORWAY
DP518902	SURVEY	SUBDIVISION	
DP535537	SURVEY	RESUMPTION	I OR ACQUISITION
DP582467	SURVEY	OLD SYSTEM	CONVERSION
DP615054	SURVEY	SUBDIVISION	
DP726654	COMPILATION	CROWN FOLI	O CREATION
DP755740	COMPILATION	CROWN ADM	IN NO.
DP803197	SURVEY	SUBDIVISION	
DP812023	SURVEY	SUBDIVISION	
DP825038	SURVEY	SUBDIVISION	
DP834646	SURVEY	SUBDIVISION	
DP837715	SURVEY	SUBDIVISION	
DP855362	SURVEY	SUBDIVISION	
DP860569	SURVEY	SUBDIVISION	
DP1058619	COMPILATION	DEPARTMEN	TAL
DP1092051	SURVEY	ROADS ACT,	1993
DP1093704	SURVEY	REDEFINITIO	N
DP1093882	SURVEY	ROADS ACT,	1993
DP1094312	SURVEY	REDEFINITIO	N
DP1113328	COMPILATION	DEPARTMEN	ΓAL
1113336	COMPILATION	DEPARTMEN	ΓAL
-5P1113622	COMPILATION	DEPARTMEN	TAL
DP1113872	COMPILATION	DEPARTMEN	TAL
DP1113873	COMPILATION	DEPARTMEN	TAL AND
DP1113881	COMPILATION	DEPARTMEN	
DP1120061	SURVEY	ROADS ACT,	1993
DP1120987	COMPILATION		CONVERSION
DP1120989	COMPILATION		CONVERSION
DP1127593	SURVEY	ROADS ACT,	
SP32100	COMPILATION	STRATA PLAN	
SP35574	COMPILATION	STRATA PLAN	
SP41028	COMPILATION	STRATA PLAN	
SP41154	COMPILATION	STRATA PLAN	
SP42079	COMPILATION	STRATA PLAN	
SP43809	COMPILATION	STRATA PLAN	
SP44469	COMPILATION	STRATA PLAN	
SP44854	COMPILATION	STRATA PLAN	
SP47097	COMPILATION	STRATA PLAN	
SP48196	COMPILATION	STRATA PLAN	
SP48761	COMPILATION	STRATA PLAN	
SP49808	COMPILATION	STRATA PLAN	
SP53129	COMPILATION	STRATA PLAN	
SP53925	COMPILATION	STRATA PLAN	
SP58390	COMPILATION	STRATA PLAN	
77115	COMPILATION	STRATA PLAN	
SP77153	COMPILATION	STRATA PLAN	4

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PLAN FORM 2 (A2)

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WARNING: CREASING OR FOLDING WILL LEAD TO REJECTION









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/Sts: 9C

/Rev:26-Nov-2007

<u>p</u>u 1120061

R163159 /Doc:DP 266276857 /Src:(



Req:R163159	/Doc:DP	1120061	Ρ	/Rev:26-Nov-2007	/Sts:SC.OK	/Prt:22-Feb-201
R eg:2662768 5	ōAL <u>∕</u> S ≠se €	§:5 of 6				

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DEPOSITED PLAN ADM	NISTRATION SHEET Sheet 1 of 2 sheet(s)	
SIGNATURES, SEALS and STATEMENTS of intention to dedicate public roads, to create public reserves, drainage reserves, easements, restrictions on the use of land or positive covenants.	DP1120061	
LOT 101 IS REQUIRED FOR FREEWAY UNDER SECTION 48 OF THE ROADS ACT 1993.	Registered: 22.11.2007 * Title System: TORRENS	
LOT 102 IS TO BE ACQUIRED BY THE	Purpose: ROADS ACT 1993	
ROADS AND TRAFFIC AUTHORITY FOR ROAD PURPOSES.	PLAN OF LAND TO BE ACQUIRED FOR THE PURPOSES OF THE ROADS ACT, 1993	
ACCESS WILL BE RESTRICTED ACROSS THE BOUNDARIES OF LOT 101 MARKED A-B-C-D-E AND F-G-H-J-K-L-M.		
	LGA: TWEED SHIRE	
	Locality: TWEED HEADS WEST	
	Parish: TERRANORA	
	County: ROUS	ļ
Use PLAN FORM 6A	Surveying Regulation, 2006	
for additional certificates, signatures, seals and statements	of B & P SURVEYS, PO BOX 327	
Crown Lands NSW/Western Lands Office Approval	a surveyor registered under the Surveying Act, 2002, certify that the survey represented in this plan is accurate, has been made in accordance with the Surveying Regulation, 2006 and was completed	
shown herein have been given Signature:	on:12-09-2007 The survey relates toPart Lot 100 and Lots 101, 102 and Connections	
File Number	(specify the land actually surveyed or specify any land shown in the plan that is not the subject of the survey)	
Subdivision Certificate I certify that the provisions of s.109J of the Environmental Planning and Assessment Act 1979 have been satisfied in relation to:	PLAN FORM 6A s, signatures, seals and statements Western Lands Office Approvations is 1080 of the Environmental Planofig and been addidied in relation to: store addidied in relation to: store addidied in relation to: store addidied in relation to: store addidied in relation to: been addidied in relation to: store addidied in relation to: been addidied in the preparation of survey/compiletton provide addidied in the preparation of survey/compiletton DP 10920812 DP 10920822 DP 3053872 DP 854835	
the proposed	Tvpe: Urban/ Rural	
	DP 1092051	
* Authorised Person/General Manager/Accredited Certifier		l
Consent Authority: Date of Endorsement: Accreditation nat	DP 854935	
Subdivision Certificate no: File no:		
*Delete whichever is inapplicable.	SURVEYOR'S REFERENCE: [15315 / 162//C	

RTA FILE: 10/438.11077 RTA PLAN: 0010 438 SS 4046

Req: R163159 /Doc: DP 1120061 P /Rev: 26-Nov-2007 /Sts: SC. OK /Prt: 22-Feb-201-- R

DEPOSITED PLAN ADN	MINISTRATION SHEET	Sheet 2 of 2 sheet(s	3)
PLAN OF LAND TO BE ACQUIRED FOR THE PURPOSES OF THE ROADS ACT, 1993	DP1	120061	*
	Registered:	22.11.2007	*
ubdivision Certificate No:	Date of Endorsement:		
THIS PLAN IS EXEMPT FROM SUBDIVISION CERTIFICATION PURSUANT TO A DECISION BETWEEN DUAP, RTA AND LPI NSW - SEE 1997 M6 (Item 2) LAND IN THIS PLAN COMPRISES ONLY ROAD OR ROAD AND RESIDUE CULTORY BUILDER 23/10/2007 (Authorised Officer, RTA NSW)			
APPROVED:			
MARADonal			
MANAGER PROPERTY SERVICE			
NORTHERN REGION OPERATIONS SERVICES			

SURVEYOR'S REFERENCE: T15315 / 16277C



cadastral pattern is accurately reflected, the Registrar General cannot guarantee the information provided. For all ACTIVITY PRIOR to SEPT 2002 you must refer to the RGs Charting and Reference Maps.

Bepartment of Lands		<u>ecords Enquiry Repo</u>	
Reliable from the ground up	Requested Parcel : Lot		ntified Parcel : Lot 101 DP 1120061
Locality : TWEED HEADS WES	T LGA : TWEED	Parish : TERRANOR Surv/Comp	A County : ROUS Purpose
	Status	Survicomp	Fulfose
DP518902 Lot(s): 21			
DP266190	REGISTERED	COMPILATION	EASEMENT
DP535537			
Lot(s): 1 CA118368 - LOT 1 DP	535537		
DP726654			
Lot(s): 710			
DP755740	1075400. PART OF NORTH	WESTERN BOUNDART OF	LOT 710 DP726654. (NSW/QLD BORDER)
Lot(s): 54, 55			
DP1051024	REGISTERED	SURVEY	EASEMENT
Lot(s): 58, 321 DP1093882	REGISTERED	SURVEY	ROADS ACT, 1993
DP837715			
Lot(s): 3	REGISTERED	SURVEY	SUBDIVISION
DP1011625		SORVET	SOBDIVISION
Lot(s): 1	LICTORICAL		
DP607299 1092051	HISTORICAL	SURVEY	OLD SYSTEM CONVERSION
Lot(s): 2			
PA82104 - LOT 2 DP1			
P NSW GAZ Acquired for the Purpo	31-03-2006 ses of the Roads Act, 1993		Folio : 1741
LOT 2 DP1092051	,		
DP1093704 Lot(s): 670			
DP755740	HISTORICAL	COMPILATION	CROWN ADMIN NO.
DP1093882			
Lot(s): 4, 5, 6, 7 BP1143758	REGISTERED	SURVEY	SURVEY INFORMATION ONLY
🖗 NSW GAZ	10-02-2006	OUTVET	Folio : 771
Reservation Of Crown		EE GAZ. 10.2.2006 FOL. 771	
₩ NSW GAZ	26-05-2006 FOL: 041 - ALSO 3	EE GAZ. 10.2.2000 POL. 771	Folio : 3204
Acquired for the Purpo	ses of the Roads Act, 1993		
LOTS 4-8 DP1093882 DP1094312			
Lot(s): 666			
DP610969	HISTORICAL	COMPILATION	SUBDIVISION
DP1102377 t(s): 7			
DP856966	HISTORICAL	SURVEY	SUBDIVISION
DP1114577			
Lot(s): 7	HISTORICAL	SURVEY	SUBDIVISION
DP1120061			
Lot(s): 100, 101, 102 DP535537	HISTORICAL	SURVEY	RESUMPTION OR ACQUISITION
DP1120987	HIGTORIONE	SURVET	RESOMETION OR ACQUISITION
Lot(s): 7307			
P1120989	REGISTERED	COMPILATION	CROWN LAND CONVERSION
Lot(s): 7300			
P1143758	REGISTERED	SURVEY	SURVEY INFORMATION ONLY
Reservation Of Crown 3	10-02-2006 Land Reserve No.		Folio : 771
		EE GAZ, 10.2.2006 FOL. 771	
DP1121137			
Lot(s): 9	HISTORICAL	SURVEY	SUBDIVISION
DP1102377	REGISTERED	SURVEY	SUBDIVISION

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Cadastral Records Enquiry Report

Department of Lands Reliable from the ground up Reguested Parcel : Lot 101 DP 1120061 Identified Parcel : Lot 101 DP 1120061

Locality : TWEED HEADS WEST	LGA · TWEED	Parish : TERRANORA	County : ROUS
	Status	Surv/Comp	Purpose
DB1127602			•
DP1127593 Lot(s): 105, 106, 107, 108			
E01(5): 105, 106, 107, 108	HISTORICAL	SURVEY	ROAD OR MOTORWAY
Lot(s): <u>10</u> 3, 104			
DP8655	HISTORICAL	SURVEY	UNRESEARCHED
SP47806			
DP266190 SP60680	REGISTERED	COMPILATION	EASEMENT
BP866281	HISTORICAL	SURVEY	SUBDIVISIÓN
SP62509		OUT CE	CODDITION ON
DP866281	HISTORICAL	SURVEY	SUBDIVISION
SP63667			
DP866281	HISTORICAL	SURVEY	SUBDIVISION
SP67145			
DP790029	HISTORICAL	SURVEY	SUBDIVISION
SP77115	HISTORICAL	COMPILATION	CROWN ADMIN NO.
DP1094312	REGISTERED	SURVEY	REDEFINITION
SP77153	REGISTERED	SURVET	REDEFINISION
DP755740	HISTORICAL	COMPILATION	CROWN ADMIN NO.
@ DP1093704	REGISTERED	SURVEY	REDEFINITION
SP80033			
🖳 DP822879	HISTORICAL	COMPILATION	CROWN FOLIO CREATION
📴 DP856966	HISTORICAL	SURVEY	SUBDIVISION
🖳 DP1102377	REGISTERED	SURVEY	SUBDIVISION
DP1121137	REGISTERED	SURVEY	SUBDIVISION
SP80305			
📮 DP866281	HISTORICAL	SURVEY	SUBDIVISION
Road Polygon Id(s): 105186877			
PA82135 (LOTS 4-8 DF	21093882)		
Polygon Id(s): 105561283			
P1143758	RÉGISTERED	SURVEY	SURVEY INFORMATION ONLY
👼 NSW GAZ	26-05-2006	F	olio : 3204
Acquired for the Purpos LOTS 4-8 DP1093882	es of the Roads Act, 1993		
Water Feature			
Polygon Id(s): 160260553		_	
Manual Market State Acquired for Council Pu	29-02-2008	F	olio : 1394
Acquired for Council Pu LOT 1 DP1104678	ilhoses		

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Cadastral Records Enquiry Report

Decality : TWEED HEADS WEST LGA : TWEED Parish : TE Van SurV/Comp 0P23726 SURVEY PP362641 SURVEY PP36265 COMPILATION PP26327 SURVEY PP26407 SURVEY PP264379 SURVEY PP244200 SURVEY PP248420 SURVEY PP248420 SURVEY PP24824 SURVEY PP261249 SURVEY PP261249 SURVEY PP261249 SURVEY PP26247 SURVEY PP261249 SURVEY PP261249 SURVEY PP261249 SURVEY PP26247 SURVEY PP26247 SURVEY PP261249 SURVEY PP261249 SURVEY PP553804 SURVEY PP553837 SURVEY PP563833 SURVEY PP563834 SURVEY PP716290 SURVEY PP716291 SURVEY	RRANORA County : ROUS
P22241 SURVEY P280600 SURVEY P226007 SURVEY P2243479 SURVEY P2243479 SURVEY P2248648 SURVEY P2248024 SURVEY P228023 SURVEY P228024 SURVEY P2802417 SURVEY P282827 SURVEY P261280 SURVEY P516902 SURVEY P552837 SURVEY P5658304 SURVEY P5665303 SURVEY P566564 SURVEY P5716288 SURVEY P716289 SURVEY P716280 SURVEY P7256740 COMPILATION P7575740 COMPILATION P780129 SURVEY P780129 SURVEY P7801620 SURVEY P830466 <th>Purpose</th>	Purpose
P22241 SURVEY P280600 SURVEY P226007 SURVEY P2243479 SURVEY P2243479 SURVEY P2248648 SURVEY P2248024 SURVEY P228023 SURVEY P228024 SURVEY P2802417 SURVEY P282827 SURVEY P261280 SURVEY P516902 SURVEY P552837 SURVEY P5658304 SURVEY P5665303 SURVEY P566564 SURVEY P5716288 SURVEY P716289 SURVEY P716280 SURVEY P7256740 COMPILATION P7575740 COMPILATION P780129 SURVEY P780129 SURVEY P7801620 SURVEY P830466 <td>UNRESEARCHED</td>	UNRESEARCHED
bp:00000 SURVEY DP926907 SURVEY DP226007 SURVEY DP244200 SURVEY DP244220 SURVEY DP244924 SURVEY DP248924 SURVEY DP249242 SURVEY DP249242 SURVEY DP24924 SURVEY DP261250 SURVEY DP261290 SURVEY DP261290 SURVEY DP261290 SURVEY DP261290 SURVEY DP518902 SURVEY DP553537 SURVEY DP5582467 SURVEY DP5682467 SURVEY DP5682467 SURVEY DP5682467 SURVEY DP603333 SURVEY DP716280 SURVEY DP716280 SURVEY DP716281 SURVEY DP716292 SURVEY DP726654 COMPILATION DP774945 COMPILATION DP7890023 SURVEY DP801161	
DP22605 COMPILATION DP226067 SURVEY DP226067 SURVEY DP243479 SURVEY DP24848 SURVEY DP24848 SURVEY DP261249 SURVEY DP261249 SURVEY DP2612120 SURVEY DP2612120 SURVEY DP26217 SURVEY DP262417 SURVEY DP518902 SURVEY DP528971 COMPILATION DP5538537 SURVEY DP569304 SURVEY DP568304 SURVEY DP568304 SURVEY DP568305 COMPILATION DP716280 SURVEY DP716280 SURVEY DP716290 SURVEY DP756540 COMPILATION DP756541 COMPILATION DP756542 COMPILATION DP756543 COMPILATION DP756540 COMPILATION DP756541 SURVEY DP780129 SURVEY	UNRESEARCHED
DP228067 SURVEY DP24420 SURVEY DP24420 SURVEY DP248924 SURVEY DP248924 SURVEY DP259282 SURVEY DP261250 SURVEY DP261290 SURVEY DP26120 SURVEY DP261230 SURVEY DP261240 SURVEY DP261290 SURVEY DP529304 SURVEY DP558357 SURVEY DP5682467 SURVEY DP5682467 SURVEY DP5682467 SURVEY DP5682467 SURVEY DP5682467 SURVEY DP61025 COMPILATION DP716289 SURVEY DP716280 SURVEY DP716281 SURVEY DP726654 COMPILATION DP785912 COMPILATION DP786912 COMPILATION DP786912 COMPILATION DP786912 SURVEY DP80161 SURVEY <	UNRESEARCHED
DP244279 SURVEY DP244200 SURVEY DP244280 SURVEY DP246488 SURVEY DP25922 SURVEY DP261260 SURVEY DP261270 SURVEY DP261280 SURVEY DP261240 SURVEY DP262417 SURVEY DP262417 SURVEY DP26292871 COMPILATION DP558900 SURVEY DP569304 SURVEY DP569304 SURVEY DP5683054 SURVEY DP588564 SURVEY DP588564 SURVEY DP716280 SURVEY DP716280 SURVEY DP716290 SURVEY DP75740 COMPILATION DP7789022 SURVEY DP789023 SURVEY DP789023 SURVEY DP803197 SURVEY DP819023 SURVEY DP825036 SURVEY DP825038 SURVEY DP825038 </td <td>DEPARTMENTAL</td>	DEPARTMENTAL
DP244220 SURVEY DP244920 SURVEY DP244924 SURVEY DP261249 SURVEY DP261249 SURVEY DP261249 SURVEY DP261240 SURVEY DP261240 SURVEY DP261240 SURVEY DP261240 SURVEY DP518902 SURVEY DP5589304 SURVEY DP5682867 SURVEY DP5682867 SURVEY DP5682867 SURVEY DP5682867 SURVEY DP5682867 SURVEY DP5682867 SURVEY DP716280 SURVEY DP716280 SURVEY DP716280 SURVEY DP716281 SURVEY DP716282 SURVEY DP716283 SURVEY DP716284 COMPILATION DP775740 COMPILATION DP7788912 COMPILATION DP7801161 SURVEY DP801061 SURVEY <t< td=""><td>ROAD OR MOTORWAY</td></t<>	ROAD OR MOTORWAY
DP246488 SURVEY DP246488 SURVEY DP2464824 SURVEY DP259282 SURVEY DP261250 SURVEY DP2612149 SURVEY DP261210 SURVEY DP262417 SURVEY DP518902 SURVEY DP553957 SURVEY DP563904 SURVEY DP563905 COMPILATION DP716280 SURVEY DP716280 SURVEY DP726654 COMPILATION DP726654 COMPILATION DP726654 COMPILATION DP78912 COMPILATION DP78912 COMPILATION DP78912 SURVEY DP801161 SURVEY DP80203 SURVEY	SUBDIVISION
P248924 SURVEY P259282 SURVEY P261249 SURVEY P261249 SURVEY P261240 SURVEY P2612417 SURVEY P261240 SURVEY P2612417 SURVEY P261240 SURVEY P518902 SURVEY P5589304 SURVEY P5589367 SURVEY P5682467 SURVEY P5682467 SURVEY P568364 SURVEY P615054 SURVEY P615055 COMPILATION P61628 SURVEY P6716280 SURVEY P7716281 SURVEY P7716292 SURVEY P7716293 SURVEY P775740 COMPILATION P775741 COMPILATION P7789022 SURVEY P780123 SURVEY P8603197 SURVEY P881023 SURVEY P881023 SURVEY P881024	SUBDIVISION
P248924 SURVEY P259282 SURVEY P261249 SURVEY P261249 SURVEY P261240 SURVEY P2612417 SURVEY P261240 SURVEY P2612417 SURVEY P261240 SURVEY P518902 SURVEY P5589304 SURVEY P5589367 SURVEY P5682467 SURVEY P5682467 SURVEY P568364 SURVEY P615054 SURVEY P615055 COMPILATION P61628 SURVEY P6716280 SURVEY P7716281 SURVEY P7716292 SURVEY P7716293 SURVEY P775740 COMPILATION P775741 COMPILATION P7789022 SURVEY P780123 SURVEY P8603197 SURVEY P881023 SURVEY P881023 SURVEY P881024	SUBDIVISION
P259282 SURVEY P261280 SURVEY P261280 SURVEY P261280 SURVEY P261280 SURVEY P261280 SURVEY P261290 SURVEY P518902 SURVEY P553537 SURVEY P553537 SURVEY P558564 SURVEY P568564 SURVEY P61054 SURVEY P617055 COMPILATION P716280 SURVEY P716281 SURVEY P716292 SURVEY P775740 COMPILATION P7758912 COMPILATION P774945 COMPILATION P774945 COMPILATION P780029 SURVEY P881023 SURVEY P8801161 SURVEY P88023 SURVEY P881023 SURVEY P8837715 SURVEY P8837715 SURVEY P863785 COMPILATION P865866	SUBDIVISION
DP261249 SURVEY DP261260 SURVEY DP262417 SURVEY DP518902 SURVEY DP518902 SURVEY DP529871 COMPILATION DP5539304 SURVEY DP5639304 SURVEY DP5639304 SURVEY DP5839304 SURVEY DP5839304 SURVEY DP5639304 SURVEY DP5639304 SURVEY DP5639304 SURVEY DP5639304 SURVEY DP5639304 SURVEY DP603333 SURVEY DP716285 SURVEY DP716286 SURVEY DP716291 SURVEY DP726654 COMPILATION DP7789029 SURVEY DP7890121 COMPILATION DP7789023 SURVEY DP803197 SURVEY DP819023 SURVEY DP819023 SURVEY DP842123 SURVEY DP8421037 SURVEY	SUBDIVISION
DP261250 SURVEY DP262417 SURVEY DP518902 SURVEY DP518902 SURVEY DP5282871 COMPILATION DP535537 SURVEY DP535537 SURVEY DP582467 SURVEY DP5835537 SURVEY DP583564 SURVEY DP5835537 SURVEY DP5835537 SURVEY DP5835537 SURVEY DP5835333 SURVEY P615054 SURVEY P617055 COMPILATION DP716280 SURVEY DP716291 SURVEY DP726654 COMPILATION DP728654 COMPILATION DP7286912 COMPILATION DP774945 COMPILATION DP788912 COMPILATION DP788912 COMPILATION DP7880161 SURVEY DP801161 SURVEY DP81023 SURVEY DP828025 SURVEY DP828025 SURVEY <td>SUBDIVISION</td>	SUBDIVISION
DP262417 SURVEY DP412404 SURVEY DP518902 SURVEY DP528871 COMPILATION DP535537 SURVEY DP569304 SURVEY DP568304 SURVEY DP588564 SURVEY DP588564 SURVEY P613033 SURVEY P615054 SURVEY P617065 COMPILATION DP716288 SURVEY DP716290 SURVEY DP716291 SURVEY DP716292 SURVEY DP726654 COMPILATION DP778912 COMPILATION DP778912 COMPILATION DP788912 COMPILATION DP788912 SURVEY DP801161 SURVEY DP803197 SURVEY DP81023 SURVEY DP825038 SURVEY DP825038 SURVEY DP842023 SURVEY DP842023 SURVEY DP8421037 SURVEY	SUBDIVISION
DP412404 SURVEY DP518002 SURVEY DP518071 COMPLATION DP538537 SURVEY DP5682667 SURVEY DP603333 SURVEY DP716280 SURVEY DP716289 SURVEY DP716291 SURVEY DP7265740 COMPILATION DP755740 COMPILATION DP780029 SURVEY DP801161 SURVEY DP801161 SURVEY DP812023 SURVEY DP828025 SURVEY DP828025 SURVEY DP828025 SURVEY DP828025 SURVEY DP828025 SURVEY DP828066 SURVEY <t< td=""><td></td></t<>	
DP518902 SURVEY DP528971 COMPILATION DP529871 SURVEY DP538537 SURVEY DP588564 SURVEY DP588564 SURVEY DP588564 SURVEY DP588564 SURVEY DP588564 SURVEY DP588564 SURVEY DP516283 SURVEY DP716288 SURVEY DP716290 SURVEY DP716291 SURVEY DP726654 COMPILATION DP755740 COMPILATION DP789012 COMPILATION DP789029 SURVEY DP7890161 SURVEY DP803197 SURVEY DP810023 SURVEY DP810023 SURVEY DP837715 SURVEY DP8480056 SURVEY DP8480056 SURVEY DP8480056 SURVEY DP8480107 SURVEY DP848018 SURVEY DP841037 SURVEY <	SUBDIVISION
DP529871 COMPILATION DP539537 SURVEY DP569304 SURVEY DP5882467 SURVEY DP588364 SURVEY DP58333 SURVEY DP58333 SURVEY DP603333 SURVEY DP615054 SURVEY DP716289 SURVEY DP716290 SURVEY DP716291 SURVEY DP716292 SURVEY DP716291 SURVEY DP716292 SURVEY DP716291 SURVEY DP716292 SURVEY DP7265740 COMPILATION DP778912 COMPILATION DP789029 SURVEY DP801161 SURVEY DP81023 SURVEY DP825038 SURVEY DP834646	UNRESEARCHED
DP535537 SURVEY DP5632637 SURVEY DP568267 SURVEY DP568267 SURVEY DP563333 SURVEY DP563267 SURVEY DP563353 SURVEY DP563267 SURVEY DP563263 SURVEY DP562664 COMPILATION DP716290 SURVEY DP716291 SURVEY DP726654 COMPILATION DP774945 COMPILATION DP768912 COMPILATION DP788912 COMPILATION DP780029 SURVEY DP801161 SURVEY DP80161 SURVEY DP8023 SURVEY DP825038 SURVEY DP842025 SURVEY DP8451037 SURVEY DP845202 SURVEY DP845362 SURVEY DP8451037 SURVEY DP8451037 SURVEY DP8451037 SURVEY DP8451037 SURVEY	· SUBDIVISION
DP569304 SURVEY DP58864 SURVEY DP603333 SURVEY P615064 SURVEY P617065 COMPILATION DP716288 SURVEY DP716289 SURVEY DP716290 SURVEY DP716291 SURVEY DP76655 COMPILATION DP716291 SURVEY DP716292 SURVEY DP755740 COMPILATION DP755740 COMPILATION DP758812 COMPILATION DP780029 SURVEY DP801161 SURVEY DP803197 SURVEY DP8023 SURVEY DP81023 SURVEY DP828025 SURVEY DP841037 SURVEY DP841037 SURVEY DP842023 SURVEY DP84203 SURVEY DP842046 SURVEY DP84203 SURVEY DP841037 SURVEY DP842123 SURVEY DP8453	SUBDIVISION
DP569304 SURVEY DP588564 SURVEY DP5085654 SURVEY DP5085654 SURVEY DP5085654 SURVEY DP5085654 SURVEY DP5085654 SURVEY DP516286 SURVEY DP716288 SURVEY DP716290 SURVEY DP716291 SURVEY DP726654 COMPILATION DP755740 COMPILATION DP755740 COMPILATION DP780029 SURVEY DP7801161 SURVEY DP801161 SURVEY DP801397 SURVEY DP8023 SURVEY DP81023 SURVEY DP828025 SURVEY DP841037 SURVEY DP841037 SURVEY DP842023 SURVEY DP842025 SURVEY DP842025 SURVEY DP842025 SURVEY DP842025 SURVEY DP84203 SURVEY DP841	RESUMPTION OR ACQUISITION
DP582467 SURVEY DP588564 SURVEY DP588564 SURVEY DP503333 SURVEY P615054 SURVEY P617065 COMPILATION DP716288 SURVEY DP716289 SURVEY DP716290 SURVEY DP716291 SURVEY DP726654 COMPILATION DP755740 COMPILATION DP748912 COMPILATION DP780029 SURVEY DP801161 SURVEY DP803197 SURVEY DP81023 SURVEY DP825038 SURVEY DP825038 SURVEY DP825038 SURVEY DP825038 SURVEY DP825038 SURVEY DP8424123 SURVEY DP842625 SURVEY DP842625 SURVEY DP842637 SURVEY DP842638 SURVEY DP842628 SURVEY DP842628 SURVEY DP86	SUBDIVISION
DP588564 SURVEY DP588564 SURVEY P6130333 SURVEY P613054 SURVEY P617055 COMPILATION DP716288 SURVEY DP716290 SURVEY DP716291 SURVEY DP7656740 COMPILATION DP756740 COMPILATION DP756740 COMPILATION DP789912 COMPILATION DP7890161 SURVEY DP803197 SURVEY DP81023 SURVEY DP81023 SURVEY DP826025 SURVEY DP828025 SURVEY DP828025 SURVEY DP841037 SURVEY DP841037 SURVEY DP842123 SURVEY DP845066 SURVEY DP8628025 SURVEY DP86281 SURVEY DP86281 SURVEY DP866281 SURVEY DP866375 COMPILATION DP101625 SURVEY	OLD SYSTEM CONVERSION
DP603333 SURVEY P615054 SURVEY P617065 COMPILATION DP716288 SURVEY DP716290 SURVEY DP716291 SURVEY DP72654 COMPILATION DP736291 SURVEY DP736292 SURVEY DP736293 SURVEY DP736540 COMPILATION DP7565740 COMPILATION DP7568912 COMPILATION DP788912 COMPILATION DP780029 SURVEY DP801161 SURVEY DP803197 SURVEY DP810023 SURVEY DP825038 SURVEY DP826038 SURVEY DP834646 SURVEY DP841037 SURVEY DP85562 SURVEY DP85562 SURVEY DP85666 SURVEY DP85666 SURVEY DP8666375 COMPILATION DP1011625 SURVEY DP1083821 SURVEY	SUBDIVISION
P615054 SURVEY P617065 COMPILATION P617065 COMPILATION DP716288 SURVEY DP716290 SURVEY DP716291 SURVEY DP716292 SURVEY DP726654 COMPILATION DP75740 COMPILATION DP788912 COMPILATION DP788912 COMPILATION DP780029 SURVEY DP801161 SURVEY DP803197 SURVEY DP812023 SURVEY DP812023 SURVEY DP828025 SURVEY DP828025 SURVEY DP837715 SURVEY DP841037 SURVEY DP842023 SURVEY DP845066 SURVEY DP85066 SURVEY DP85066 SURVEY DP866281 SURVEY DP866281 SURVEY DP866281 SURVEY DP866689 SURVEY DP1044319 SURVEY <	SUBDIVISION
PF617065 COMPILATION DP716288 SURVEY DP716290 SURVEY DP716291 SURVEY DP716292 SURVEY DP716293 SURVEY DP716294 SURVEY DP716295 SURVEY DP716296 COMPILATION DP755740 COMPILATION DP788912 COMPILATION DP7801161 SURVEY DP801161 SURVEY DP801161 SURVEY DP80123 SURVEY DP81023 SURVEY DP828025 SURVEY DP828025 SURVEY DP834066 SURVEY DP841037 SURVEY DP842023 SURVEY DP83666 SURVEY DP842025 SURVEY DP842025 SURVEY DP842123 SURVEY DP845066 SURVEY DP856966 SURVEY DP866375 COMPILATION DP104319 SURVEY <td< td=""><td></td></td<>	
DP716288 SURVEY DP716289 SURVEY DP716290 SURVEY DP716291 SURVEY DP716292 SURVEY DP716292 SURVEY DP716292 SURVEY DP765740 COMPILATION DP7788912 COMPILATION DP788912 COMPILATION DP780029 SURVEY DP801161 SURVEY DP803197 SURVEY DP812023 SURVEY DP812023 SURVEY DP825038 SURVEY DP825038 SURVEY DP825038 SURVEY DP834646 SURVEY DP842025 SURVEY DP841037 SURVEY DP841037 SURVEY DP855362 SURVEY DP855362 SURVEY DP8666375 COMPILATION DP1058619 COMPILATION DP1058619 COMPILATION DP10304 SURVEY DP1030304 SURVEY	SUBDIVISION
DP716289 SURVEY DP716290 SURVEY DP716291 SURVEY DP716292 SURVEY DP726654 COMPILATION DP774945 COMPILATION DP788912 COMPILATION DP789029 SURVEY DP801161 SURVEY DP801161 SURVEY DP801161 SURVEY DP801161 SURVEY DP8023 SURVEY DP812023 SURVEY DP825038 SURVEY DP825038 SURVEY DP825038 SURVEY DP834646 SURVEY DP842123 SURVEY DP842123 SURVEY DP855362 SURVEY DP855362 SURVEY DP86668 SURVEY DP86669 SURVEY DP866619 COMPILATION DP1058619 COMPILATION DP109304 SURVEY DP1093882 SURVEY DP1093882 COMPILATION	SUBDIVISION
DP716290 SURVEY DP716291 SURVEY DP716292 SURVEY DP726654 COMPILATION DP755740 COMPILATION DP788912 COMPILATION DP789029 SURVEY DP801161 SURVEY DP801161 SURVEY DP812023 SURVEY DP812023 SURVEY DP825038 SURVEY DP825038 SURVEY DP834646 SURVEY DP834646 SURVEY DP842023 SURVEY DP8355362 SURVEY DP842123 SURVEY DP842123 SURVEY DP856966 SURVEY DP866281 SURVEY DP866281 SURVEY DP866281 SURVEY DP101625 SURVEY DP1058619 COMPILATION DP1093704 SURVEY DP103882 SURVEY DP103882 SURVEY DP1113328 COMPILATION	SUBDIVISION
DP716291 SURVEY DP716292 SURVEY DP726654 COMPILATION DP755740 COMPILATION DP7788912 COMPILATION DP789029 SURVEY DP801161 SURVEY DP803197 SURVEY DP803197 SURVEY DP803197 SURVEY DP803197 SURVEY DP803303 SURVEY DP810023 SURVEY DP825038 SURVEY DP825038 SURVEY DP837715 SURVEY DP841037 SURVEY DP842123 SURVEY DP850966 SURVEY DP850966 SURVEY DP866281 SURVEY DP866281 SURVEY DP1056619 COMPILATION DP105619 COMPILATION DP1092051 SURVEY DP1093704 SURVEY DP1093705 SURVEY DP1093704 SURVEY DP1113328 COMPILATION <t< td=""><td>SUBDIVISION</td></t<>	SUBDIVISION
DP716292 SURVEY DP726654 COMPILATION DP755740 COMPILATION DP774945 COMPILATION DP788912 COMPILATION DP789029 SURVEY DP803197 SURVEY DP801161 SURVEY DP803197 SURVEY DP812023 SURVEY DP812023 SURVEY DP828025 SURVEY DP834646 SURVEY DP837715 SURVEY DP841037 SURVEY DP842123 SURVEY DP85666 SURVEY DP85666 SURVEY DP856666 SURVEY DP866675 COMPILATION DP10158619 COMPILATION DP1058619 COMPILATION DP1092051 SURVEY DP1093822 SURVEY DP1093822 SURVEY DP109382 SURVEY DP109382 SURVEY DP1113326 COMPILATION DP1113873 COMPILATION	SUBDIVISION
DP716292 SURVEY DP726654 COMPILATION DP755740 COMPILATION DP774945 COMPILATION DP788912 COMPILATION DP789029 SURVEY DP803197 SURVEY DP801161 SURVEY DP803197 SURVEY DP812023 SURVEY DP812023 SURVEY DP828025 SURVEY DP828025 SURVEY DP834646 SURVEY DP837715 SURVEY DP842123 SURVEY DP85566 SURVEY DP85666 SURVEY DP85666 SURVEY DP865696 SURVEY DP8656975 COMPILATION DP101625 SURVEY DP1058619 COMPILATION DP1092051 SURVEY DP1093822 SURVEY DP1093882 SURVEY DP1093882 COMPILATION DP1113326 COMPILATION DP1113873 COMPILATION	SUBDIVISION
DP726654 COMPILATION DP755740 COMPILATION DP774945 COMPILATION DP788912 COMPILATION DP780029 SURVEY DP801161 SURVEY DP801203 SURVEY DP812023 SURVEY DP812023 SURVEY DP825038 SURVEY DP828025 SURVEY DP83715 SURVEY DP841037 SURVEY DP845066 SURVEY DP855362 SURVEY DP855362 SURVEY DP8666375 COMPILATION DP1011625 SURVEY DP8666375 COMPILATION DP1092051 SURVEY DP1092051 SURVEY DP1093704 SURVEY DP1093882 SURVEY DP109377 SURVEY DP109377 SURVEY DP109377 SURVEY DP1113328 COMPILATION DP1113873 COMPILATION DP1113881 COMPILATION	SUBDIVISION
DP755740 COMPILATION DP778945 COMPILATION DP788912 COMPILATION DP780029 SURVEY DP803197 SURVEY DP803197 SURVEY DP81023 SURVEY DP819023 SURVEY DP825038 SURVEY DP825038 SURVEY DP834646 SURVEY DP834646 SURVEY DP837715 SURVEY DP842025 SURVEY DP842123 SURVEY DP842123 SURVEY DP842123 SURVEY DP855362 SURVEY DP8666375 COMPILATION DP1011625 SURVEY DP8666375 COMPILATION DP109304 SURVEY DP109382 SURVEY DP109382 SURVEY DP109377 SURVEY DP109377 SURVEY DP109377 SURVEY DP109377 SURVEY DP1113328 COMPILATION	CROWN FOLIO CREATION
DP774945 COMPILATION DP788912 COMPILATION DP801161 SURVEY DP803197 SURVEY DP803197 SURVEY DP812023 SURVEY DP812023 SURVEY DP812023 SURVEY DP812023 SURVEY DP825038 SURVEY DP828025 SURVEY DP834646 SURVEY DP834715 SURVEY DP842123 SURVEY DP856966 SURVEY DP856966 SURVEY DP866281 SURVEY DP866281 SURVEY DP1058619 COMPILATION DP1058619 COMPILATION DP1092051 SURVEY DP1093704 SURVEY DP1093705 SURVEY DP1093704 SURVEY DP10377 SURVEY DP1113328 COMPILATION DP1113336 COMPILATION DP1113873 COMPILATION DP1113881 COMPILATION	CROWN ADMIN NO.
DP788912 COMPILATION DP780029 SURVEY DP801161 SURVEY DP803197 SURVEY DP812023 SURVEY DP812023 SURVEY DP825038 SURVEY DP825038 SURVEY DP825038 SURVEY DP825038 SURVEY DP825038 SURVEY DP834646 SURVEY DP834646 SURVEY DP834646 SURVEY DP835052 SURVEY DP842123 SURVEY DP845362 SURVEY DP856966 SURVEY DP866281 SURVEY DP866281 SURVEY DP1058619 COMPILATION DP1084319 SURVEY DP1093704 SURVEY DP109382 SURVEY DP1093862 SURVEY DP109377 SURVEY DP1113328 COMPILATION DP1113336 COMPILATION DP1113873 COMPILATION	SUBDIVISION
DP790029 SURVEY DP801161 SURVEY DP803197 SURVEY DP812023 SURVEY DP819023 SURVEY DP825038 SURVEY DP828025 SURVEY DP834646 SURVEY DP837715 SURVEY DP841037 SURVEY DP842123 SURVEY DP845562 SURVEY DP845562 SURVEY DP856966 SURVEY DP866281 SURVEY DP866375 COMPILATION DP10186619 COMPILATION DP1058619 SURVEY DP1092051 SURVEY DP103882 SURVEY DP103882 SURVEY DP10377 SURVEY DP1113328 COMPILATION DP1113328 COMPILATION DP1113873 COMPILATION DP1113873 COMPILATION DP1113873 COMPILATION DP1113881 COMPILATION	
DP801161 SURVEY DP803197 SURVEY DP812023 SURVEY DP819023 SURVEY DP825038 SURVEY DP828025 SURVEY DP834646 SURVEY DP837715 SURVEY DP842123 SURVEY DP842123 SURVEY DP85666 SURVEY DP85666 SURVEY DP8666281 SURVEY DP866375 COMPILATION DP101625 SURVEY DP1058619 COMPILATION DP1092051 SURVEY DP1093704 SURVEY DP1093882 SURVEY DP1093882 SURVEY DP1093882 COMPILATION DP1113328 COMPILATION DP1113873 COMPILATION DP1113873 COMPILATION DP1113873 COMPILATION DP1113871 COMPILATION DP1113873 COMPILATION DP1113871 COMPILATION DP1113881 CO	SUBDIVISION
DP803197 SURVEY DP812023 SURVEY DP819023 SURVEY DP820038 SURVEY DP828025 SURVEY DP838025 SURVEY DP838025 SURVEY DP837715 SURVEY DP841037 SURVEY DP842123 SURVEY DP85362 SURVEY DP856966 SURVEY DP866281 SURVEY DP866281 SURVEY DP1011625 SURVEY DP1058619 COMPILATION DP1092051 SURVEY DP109304 SURVEY DP1093882 SURVEY DP1093882 SURVEY DP1113328 COMPILATION DP1113328 COMPILATION DP1113873 COMPILATION DP1113873 COMPILATION DP1113873 COMPILATION DP1113871 COMPILATION DP1113873 COMPILATION DP1113871 COMPILATION DP1114577 COMPILA	SUBDIVISION
DP812023 SURVEY DP819023 SURVEY DP825038 SURVEY DP828025 SURVEY DP828025 SURVEY DP828025 SURVEY DP837715 SURVEY DP841037 SURVEY DP841037 SURVEY DP842123 SURVEY DP845562 SURVEY DP8556966 SURVEY DP865862 SURVEY DP866375 COMPILATION DP1058619 COMPILATION DP1058619 SURVEY DP1084319 SURVEY DP1093704 SURVEY DP1093704 SURVEY DP109377 SURVEY DP111328 COMPILATION DP1113328 COMPILATION DP1113328 COMPILATION DP1113873 COMPILATION DP1113873 COMPILATION DP1113871 COMPILATION DP1113881 COMPILATION	SUBDIVISION
DP819023 SURVEY DP825038 SURVEY DP828025 SURVEY DP834646 SURVEY DP834646 SURVEY DP837715 SURVEY DP841037 SURVEY DP842123 SURVEY DP85562 SURVEY DP855626 SURVEY DP856966 SURVEY DP866281 SURVEY DP866375 COMPILATION DP1058619 SURVEY DP1058619 SURVEY DP1058619 SURVEY DP1092051 SURVEY DP1093704 SURVEY DP109377 SURVEY DP109377 SURVEY DP109377 SURVEY DP1113328 COMPILATION DP1113373 COMPILATION DP1113873 COMPILATION DP1113873 COMPILATION DP1113881 COMPILATION DP1114577 COMPILATION	SUBDIVISION
DP825038 SURVEY DP828025 SURVEY DP834646 SURVEY DP837715 SURVEY DP841037 SURVEY DP842123 SURVEY DP85362 SURVEY DP855362 SURVEY DP855966 SURVEY DP866281 SURVEY DP866281 SURVEY DP1011625 SURVEY DP1058619 COMPILATION DP1092051 SURVEY DP1093704 SURVEY DP1093777 SURVEY DP1093776 SURVEY DP1113328 COMPILATION DP1113328 COMPILATION DP1113328 COMPILATION DP1113328 COMPILATION DP1113872 COMPILATION DP1113873 COMPILATION DP1113873 COMPILATION DP1113881 COMPILATION DP1113881 COMPILATION DP1114577 COMPILATION	SUBDIVISION
DP828025 SURVEY DP834646 SURVEY DP837715 SURVEY DP841037 SURVEY DP842123 SURVEY DP855362 SURVEY DP856966 SURVEY DP86698 SURVEY DP86681 SURVEY DP866375 COMPILATION DP101625 SURVEY DP1058619 COMPILATION DP1092051 SURVEY DP1093704 SURVEY DP1093777 SURVEY DP101328 COMPILATION DP1113328 COMPILATION DP1113328 COMPILATION DP1113328 COMPILATION DP1113328 COMPILATION DP1113328 COMPILATION DP1113872 COMPILATION DP1113873 COMPILATION DP1113873 COMPILATION DP1113881 COMPILATION DP1114577 COMPILATION	SUBDIVISION
DP828025 SURVEY DP834646 SURVEY DP837715 SURVEY DP841037 SURVEY DP842123 SURVEY DP855362 SURVEY DP856966 SURVEY DP86698 SURVEY DP86681 SURVEY DP866375 COMPILATION DP101625 SURVEY DP1058619 COMPILATION DP1092051 SURVEY DP1093704 SURVEY DP1093777 SURVEY DP101328 COMPILATION DP1113328 COMPILATION DP1113328 COMPILATION DP1113328 COMPILATION DP1113328 COMPILATION DP1113328 COMPILATION DP1113872 COMPILATION DP1113873 COMPILATION DP1113873 COMPILATION DP1113881 COMPILATION DP1114577 COMPILATION	SUBDIVISION
DP834646 SURVEY DP837715 SURVEY DP841037 SURVEY DP842123 SURVEY DP85562 SURVEY DP856966 SURVEY DP866281 SURVEY DP866375 COMPILATION DP101625 SURVEY DP1058619 COMPILATION DP1058619 SURVEY DP1058619 COMPILATION DP1092051 SURVEY DP1092051 SURVEY DP1093882 SURVEY DP1093774 SURVEY DP109377 SURVEY DP1113328 COMPILATION DP1113328 COMPILATION DP1113328 COMPILATION DP1113328 COMPILATION DP1113873 COMPILATION DP1113881 COMPILATION DP1113881 COMPILATION DP1114577 COMPILATION	SUBDIVISION
DP837715 SURVEY DP841037 SURVEY DP842123 SURVEY DP855362 SURVEY DP856966 SURVEY DP866281 SURVEY DP866375 COMPILATION DP101625 SURVEY DP1058619 COMPILATION DP1058619 COMPILATION DP1058619 SURVEY DP1084319 SURVEY DP1092051 SURVEY DP1093704 SURVEY DP1093882 SURVEY DP109377 SURVEY DP1113326 COMPILATION DP1113336 COMPILATION DP1113336 COMPILATION DP1113872 COMPILATION DP1113881 COMPILATION DP1113881 COMPILATION DP1114577 COMPILATION	SUBDIVISION
DP841037 SURVEY DP842123 SURVEY DP855362 SURVEY DP856966 SURVEY DP866281 SURVEY DP866375 COMPILATION DP1011625 SURVEY DP10184319 SURVEY DP1092051 SURVEY DP1093704 SURVEY DP1093882 SURVEY DP109377 SURVEY DP1113326 COMPILATION DP1113326 COMPILATION DP1113873 COMPILATION DP1113881 COMPILATION DP1114577 COMPILATION	SUBDIVISION
DP842123 SURVEY DP855362 SURVEY DP856966 SURVEY DP866869 SURVEY DP866281 SURVEY DP866375 COMPILATION DP1011625 SURVEY DP1058619 COMPILATION DP1092051 SURVEY DP1093704 SURVEY DP1093882 SURVEY DP109377 SURVEY DP101377 SURVEY DP1113326 COMPILATION DP1113336 COMPILATION DP1113873 COMPILATION DP1113873 COMPILATION DP1113881 COMPILATION DP1114577 COMPILATION	SUBDIVISION
DP855362 SURVEY DP856966 SURVEY DP866281 SURVEY DP866281 SURVEY DP866375 COMPILATION DP101625 SURVEY DP1058619 COMPILATION DP1058619 SURVEY DP1092051 SURVEY DP1093704 SURVEY DP1093882 SURVEY DP109377 SURVEY DP1103377 SURVEY DP1113328 COMPILATION DP111336 COMPILATION DP1113872 COMPILATION DP1113873 COMPILATION DP1113881 COMPILATION DP1113877 COMPILATION	
P856966 SURVEY 860569 SURVEY 9866281 SURVEY 09866375 COMPILATION 0P1011625 SURVEY 0P1058619 COMPILATION 0P1092051 SURVEY 0P1093704 SURVEY 0P109382 SURVEY 0P109377 SURVEY 0P1103377 SURVEY 0P1113328 COMPILATION 0P1113326 COMPILATION 0P1113373 COMPILATION 0P1113871 COMPILATION 0P1113881 COMPILATION 0P1114577 COMPILATION	SUBDIVISION
860569 SURVEY 0P866281 SURVEY 0P866375 COMPILATION 0P1011625 SURVEY 0P1058619 COMPILATION 0P1092051 SURVEY 0P1093704 SURVEY 0P109382 SURVEY 0P109377 SURVEY 0P1102377 SURVEY 0P111328 COMPILATION 0P111336 COMPILATION 0P1113872 COMPILATION 0P1113873 COMPILATION 0P1113881 COMPILATION 0P1113871 COMPILATION 0P1113871 COMPILATION	SUBDIVISION
SURVEY DP866281 SURVEY DP866375 COMPILATION DP1011625 SURVEY DP1058619 COMPILATION DP1084319 SURVEY DP1092051 SURVEY DP1093882 SURVEY DP109312 SURVEY DP1103377 SURVEY DP1113328 COMPILATION DP1113366 COMPILATION DP1113872 COMPILATION DP1113873 COMPILATION DP1113881 COMPILATION DP1113881 COMPILATION DP1114577 COMPILATION	SUBDIVISION
DP866375 COMPILATION DP1011625 SURVEY DP1058619 COMPILATION DP1084319 SURVEY DP1092051 SURVEY DP1093704 SURVEY DP1093882 SURVEY DP1094312 SURVEY DP109377 SURVEY DP1102377 SURVEY DP1113328 COMPILATION DP1113328 COMPILATION DP1113872 COMPILATION DP1113872 COMPILATION DP1113873 COMPILATION DP1113881 COMPILATION DP1114577 COMPILATION	SUBDIVISION
DP866375 COMPILATION DP1011625 SURVEY DP1058619 COMPILATION DP1084319 SURVEY DP1092051 SURVEY DP1093704 SURVEY DP1093882 SURVEY DP1094312 SURVEY DP109377 SURVEY DP1102377 SURVEY DP1113328 COMPILATION DP1113328 COMPILATION DP1113872 COMPILATION DP1113872 COMPILATION DP1113873 COMPILATION DP1113881 COMPILATION DP1114577 COMPILATION	SUBDIVISION
DP1011625 SURVEY DP1058619 COMPILATION DP1084319 SURVEY DP1092051 SURVEY DP1093704 SURVEY DP1093882 SURVEY DP1094312 SURVEY DP101377 SURVEY DP1113328 COMPILATION DP1113336 COMPILATION DP1113622 COMPILATION DP1113873 COMPILATION DP1113881 COMPILATION DP1113871 COMPILATION DP1113871 COMPILATION	CONSOLIDATION
OP1058619 COMPILATION OP1084319 SURVEY OP1092051 SURVEY OP1093704 SURVEY OP1093882 SURVEY OP1094312 SURVEY OP10102377 SURVEY OP1113328 COMPILATION OP1113336 COMPILATION OP1113872 COMPILATION OP1113873 COMPILATION OP1113881 COMPILATION OP1114577 COMPILATION	SUBDIVISION
DP1084319 SURVEY DP1092051 SURVEY DP1093704 SURVEY DP1093882 SURVEY DP1094312 SURVEY DP109377 SURVEY DP1113328 COMPILATION DP111336 COMPILATION DP1113872 COMPILATION DP1113873 COMPILATION DP1113881 COMPILATION DP1113873 COMPILATION DP1113871 COMPILATION	DEPARTMENTAL
OP1092051 SURVEY OP1093704 SURVEY OP1093882 SURVEY OP1094312 SURVEY OP109377 SURVEY OP1113328 COMPILATION OP111336 COMPILATION OP1113872 COMPILATION OP1113873 COMPILATION OP1113881 COMPILATION OP1113877 COMPILATION	ROADS ACT, 1993
OP1093704 SURVEY OP1093882 SURVEY OP1094312 SURVEY OP109377 SURVEY OP1113328 COMPILATION OP111336 COMPILATION OP1113622 COMPILATION OP1113872 COMPILATION OP1113873 COMPILATION OP1113881 COMPILATION OP1114577 COMPILATION	ROADS ACT, 1993
DP1093882 SURVEY DP1094312 SURVEY DP1094312 SURVEY DP1102377 SURVEY DP1113328 COMPILATION DP1113336 COMPILATION DP1113622 COMPILATION DP1113872 COMPILATION DP1113873 COMPILATION DP1113881 COMPILATION DP1114577 COMPILATION	
OP1094312 SURVEY OP102377 SURVEY OP1113328 COMPILATION OP1113336 COMPILATION OP1113622 COMPILATION OP1113872 COMPILATION OP1113873 COMPILATION OP1113881 COMPILATION OP1114577 COMPILATION	REDEFINITION
OP1102377 SURVEY OP1113328 COMPILATION OP1113336 COMPILATION OP1113622 COMPILATION OP1113872 COMPILATION OP1113873 COMPILATION OP1113881 COMPILATION OP1114577 COMPILATION	ROADS ACT, 1993
OP1113328 COMPILATION OP1113336 COMPILATION OP1113622 COMPILATION OP1113872 COMPILATION OP1113873 COMPILATION OP1113881 COMPILATION OP1114577 COMPILATION	REDEFINITION
OP1113336 COMPILATION OP1113622 COMPILATION OP1113872 COMPILATION OP1113873 COMPILATION OP1113881 COMPILATION OP1113877 COMPILATION	SUBDIVISION
OP1113622 COMPILATION OP1113872 COMPILATION OP1113873 COMPILATION OP1113881 COMPILATION OP1113881 COMPILATION OP1114577 COMPILATION	DEPARTMENTAL
OP1113622 COMPILATION OP1113872 COMPILATION OP1113873 COMPILATION OP1113881 COMPILATION OP1113881 COMPILATION OP1114577 COMPILATION	DEPARTMENTAL
OP1113872 COMPILATION OP1113873 COMPILATION OP1113881 COMPILATION OP1114577 COMPILATION	DEPARTMENTAL
DP1113873COMPILATIONDP1113881COMPILATIONDP1114577COMPILATION	DEPARTMENTAL
DP1113881 COMPILATION DP1114577 COMPILATION	DEPARTMENTAL
OP1114577 COMPILATION	DEPARTMENTAL
OP1120061 SURVEY	CONSOLIDATION
	ROADS ACT, 1993
DP1120987 COMPILATION	CROWN LAND CONVERSION
COMPILATION	CROWN LAND CONVERSION
OP1121137 SURVEY	SUBDIVISION
DP1127593 SURVEY	ROADS ACT, 1993
SP127593 SORVET	STRATA PLAN

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Cadastral Records Enquiry Report

Locality : TWEED HEADS	WEST LGA : TWEED	Parish : TERRANORA County : ROUS
Plan	Surv/Comp	Purpose
2014160	COMPILATION	STRATA PLAN
SP14160	COMPILATION	STRATA PLAN
SP15972	COMPILATION	STRATA PLAN
SP15973	COMPILATION	STRATA PLAN
SP15974		STRATA PLAN
SP16260	COMPILATION	STRATA PLAN
SP16276	COMPILATION	STRATA PLAN
SP16693	COMPILATION	
SP17274	COMPILATION	STRATA PLAN
SP18206	COMPILATION	STRATA PLAN
SP18314	COMPILATION	STRATA PLAN
SP18383	COMPILATION	STRATA PLAN
SP18510	COMPILATION	STRATA PLAN
SP18532	COMPILATION	STRATA PLAN
SP18542	COMPILATION	STRATA PLAN
SP19142	COMPILATION	STRATA PLAN
SP19148	COMPILATION	STRATA PLAN
SP19363	COMPILATION	STRATA PLAN
SP19365	COMPILATION	STRATA PLAN
SP19492	COMPILATION	STRATA PLAN
SP19564	COMPILATION	STRATA PLAN
SP19799	COMPILATION	STRATA PLAN
P19826	COMPILATION	STRATA PLAN
JA19852	COMPILATION	STRATA PLAN
SP19930	COMPILATION	STRATA PLAN
SP20022	COMPILATION	STRATA PLAN
SP20040	COMPILATION	STRATA PLAN
SP20124	COMPILATION	STRATA PLAN
SP20207	COMPILATION	STRATA PLAN
SP20389	COMPILATION	STRATA PLAN
SP20446	COMPILATION	STRATA PLAN
SP20485	COMPILATION	STRATA PLAN
SP21130	COMPILATION	STRATA PLAN
SP21465	COMPILATION	STRATA PLAN
SP21708	COMPILATION	STRATA PLAN
SP21874	COMPILATION	STRATA PLAN
SP21875	COMPILATION	STRATA PLAN
SP21964	COMPILATION	STRATA PLAN
SP30613	COMPILATION	STRATA PLAN
SP30637	COMPILATION	STRATA PLAN
SP31689	COMPILATION	STRATA PLAN
SP31897	COMPILATION	STRATA PLAN
SP31992	COMPILATION	STRATA PLAN
SP32028	COMPILATION	STRATA PLAN
SP32100	COMPILATION	STRATA PLAN
SP32113	COMPILATION	STRATA PLAN
32203	COMPILATION	STRATA PLAN
SP32289	COMPILATION	STRATA PLAN
SP32794	COMPILATION	STRATA PLAN
SP33714	COMPILATION	STRATA PLAN
SP35574	COMPILATION	STRATA PLAN
SP35809	COMPILATION	STRATA PLAN
SP36263	COMPILATION	STRATA PLAN
SP36298	COMPILATION	STRATA PLAN
SP37030	COMPILATION	STRATA PLAN
SP37876	COMPLETION	STRATA PLAN
SP37923	COMPLATION	STRATA PLAN
SP38152	COMPLATION	STRATA PLAN
SP30152 SP41028	COMPILATION	STRATA PLAN
SP41028 SP41154	COMPILATION	STRATA PLAN
	COMPILATION	STRATA PLAN
SP42079	COMPILATION	STRATA PLAN STRATA PLAN
SP43809		STRATA PLAN
SP44089	COMPILATION	
SP44469	COMPILATION	STRATA PLAN
SP44800	COMPILATION	STRATA PLAN
SP44854	COMPILATION	STRATA PLAN
SP47097	COMPILATION	STRATA PLAN
SP47806	COMPILATION	STRATA PLAN
SP48196	COMPILATION	STRATA PLAN
SP48761	COMPILATION	STRATA PLAN

Cadastral Records Enquiry Report

Department of Lands Reflable from the greand up Reflable from the greand up ć 💝 Identified Parcel : Lot 101 DP 1120061 WEAT LOA Barlah - TERRANODA <u>.</u> -----....

EST LGA : TWEED	Parish : TERRANORA	County : ROUS
Surv/Comp	Purpose	
COMPILATION	STRATA PLAN	
	Surv/Comp COMPILATION COMPILATION COMPILATION COMPILATION COMPILATION COMPILATION COMPILATION COMPILATION COMPILATION COMPILATION COMPILATION COMPILATION COMPILATION	Surv/CompPurposeCOMPILATIONSTRATA PLANCOMPILATIONSTRATA PLAN

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cadastral pattern is accurately reflected, the Registrar General cannot guarantee the information provided. For all ACTIVITY PRIOR to SEPT 2002 you must refer to the RGs Charting and Reference Maps. Department of Lands

Cadastral Records Enquiry Report

💔 Dep	partment of Lands		coras Enquiry Rej		
•	Reliable from the ground up	Requested Parcel : Lot			ed Parcel : Lot 1 DP 582467
Locality	: TWEED HEADS WEST		Parish : TERRANO		County : ROUS
		Status	Surv/Comp		Purpose
DP31369					
Lot(s): 50					
	DP268339	REGISTERED	COMPILATION	I	EASEMENT
DP51890					
Lot(s): 21	DP266190	REGISTERED	COMPILATION	1	EASEMENT
DP10920		REGIOTERED			
Lot(s): 2					
	PA82104 - LOT 2 DP10	92051			
		31-03-2006		Foli	o : 1741
	Acquired for the Purpos LOT 2 DP1092051	es of the Roads Act, 1993			
DP10937					1
Lot(s): 67					
	DP755740	HISTORICAL	COMPILATION	(CROWN ADMIN NO.
DP10943	12				
Lot(s): 66					
	DP610969	HISTORICAL	COMPILATION	;	SUBDIVISION
DP11023	11				
	DP856966	HISTORICAL	SURVEY	:	SUBDIVISION
DP11200			••••		
Lot(s): 10					
	DP535537	HISTORICAL	SURVEY	I	RESUMPTION OR ACQUISITION
DP11211	37				. • •
Lot(s): 9	DP856966	HISTORICAL	SURVEY		SUBDIVISION
	DP1102377	REGISTERED	SURVEY		SUBDIVISION
DP11275			ODITIE	•	
Lot(s): 10		•			· · · · · · · · · · · · · · · · · · ·
8	DP226067	HISTORICAL	SURVEY	I	ROAD OR MOTORWAY
Lot(s): 10		· ···	A	_	
	DP8655	HISTORICAL	SURVEY	I	JNRESEARCHED
SP47806	DP266190	REGISTERED	COMPILATION		EASEMENT
SP77115	DF 200190	REGISTERED	COMPLATION		LASEMENT
	DP755740	HISTORICAL	COMPILATION	(CROWN ADMIN NO.
ē	DP1094312	REGISTERED	SURVEY	I	REDEFINITION
SP77153					
	DP755740	HISTORICAL	COMPILATION	(CRÓWN ADMIN NO.
	DP1093704	REGISTERED	SURVEY	I	
P80033	00000070	LICTODICAL			
-	DP822879	HISTORICAL HISTORICAL			CROWN FOLIO CREATION SUBDIVISION
	DP856966 DP1102377	REGISTERED	SURVEY		SUBDIVISION
	DP1121137	REGISTERED	SURVEY SURVEY		SUBDIVISION
Intersectio		NEGIOTENED	JUNVET	,	
	d(s): 105158652				
, cryger i	NSW GAZ	19-12-2003		Folic	b : 11467
_	TRANSFER OF CROW	N ROAD TO TWEED SHIRE	COUNCIL		
Road	1/) 405050-00				
Polygon le	d(s): 105659423 NSW GAZ	19-12-2003		Folie	o : 11467
3		N ROAD TO TWEED SHIRE	COUNCIL	COR	עדווגע

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Department of Lands

Cadastral Records Enquiry Report

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Pepartment of Lands Refluble from the ground up	Requested Parcel : Lot	DP 582467 Ide	ntified Parcel : Lot 1 DP 582467
Locality : TWEED HEADS WES	T LGA : TWEED	Parish : TERRANOR	A County : ROUS
Plan	Surv/Comp	Purpo	ose
DP31368	SURVEY	UNRE	SEARCHED
DP31369	SURVEY	UNRE	SEARCHED
DP226067	SURVEY	ROAD	OR MOTORWAY
DP259282	SURVEY	SUBD	IVISION
DP262417	SURVEY	SUBD	IVISION
DP518902	SURVEY	SUBD	IVISION
DP542273	SURVEY		IVISION
DP582467	SURVEY		SYSTEM CONVERSION
DP603333	SURVEY		IVISION
DP615054	SURVEY		IVISION
DP755740	COMPILATION		VN ADMIN NO.
DP803197	SURVEY		IVISION
DP825038	SURVEY		IVISION
DP828025	SURVEY		IVISION
DP856966	SURVEY		IVISION
DP866375	COMPILATION		SOLIDATION
DP1092051	SURVEY		DS ACT, 1993
DP1093704	SURVEY		FINITION
DP1094312	SURVEY		FINITION
DP1102377	SURVEY		
DP1113873	COMPILATION		
P1120061	SURVEY		DS ACT, 1993
P1121137	SURVEY		NVISION
DP1127593			DS ACT, 1993 TA PLAN
SP16693			TAPLAN
SP18383 SP19852	COMPILATION COMPILATION		TAPLAN
SP19930	COMPILATION		TAPLAN
SP20207	COMPILATION		TAPLAN
SP20485	COMPILATION		TAPLAN
SP21130	COMPILATION		TA PLAN
SP21875	COMPILATION		TAPLAN
SP30378	COMPILATION		TA PLAN
SP31784	COMPILATION		TAPLAN
SP32100	COMPILATION		TAPLAN
SP35574	COMPILATION		TAPLAN
SP36263	COMPILATION		TA PLAN
SP38152	COMPILATION		TAPLAN
SP44854	COMPILATION		TAPLAN
SP47806	COMPILATION		TA PLAN
SP77115	COMPILATION		TA PLAN
SP77153	COMPILATION	-	TA PLAN
SP80033	COMPILATION		TA PLAN

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Cadastral Records Enguiry Report

Department of participant server in a part of the part	• All Donortmont of Loudo	Cadastral Re	cords Enguiry Repor	t			
Status Surv/Gomp Purpose DP31369 DC05149 B DC23339 REGISTERED COMPILATION EASEMENT DP31369 DC283390 REGISTERED COMPILATION EASEMENT DP31351 DC283190 REGISTERED COMPILATION EASEMENT DP30537 DC283190 REGISTERED COMPILATION EASEMENT DP305370 DC28054 DC28054 DC38052 DC38052 Lol(s): 710 DP1051024 REGISTERED SURVEY EASEMENT Lol(s): 4, 35 DC1017336 REGISTERED SURVEY ROADS ACT, 1993 DP33713 DP1017336 REGISTERED SURVEY SUBDIVISION PH011825 DP1017336 REGISTERED SURVEY SUBDIVISION PH011825 DP1092031 SI-03-2006 Folio: 1741 Lol(s): 2 DP10920301 DP1092031 SI-03-2006 Folio: 1741 Lol(s): 6 DP1143758 REGISTERED SURVEY SURVEY INFORMATION ONLY DP1093021 DP1143758 R	Department of Lands Reliable from the ground up						
DP31369 E0 (5: 49, 50, 50) REGISTERED COMPILATION EASEMENT DP518602 Lock: 49, 50 REGISTERED COMPILATION EASEMENT DP518602 Lock: 51 P268537 P278654 Lock: 51 DP726854 CA118568 - LOT 1 DP535537 P2726854 (NSW/GLD BORDER) DP726854 EASEMENT Lock: 51 EASEMENT Lock: 51 TO P1075400, PART OF NORTH-WESTERN BOUNDARY OF LOT 710 DP726854. (NSW/GLD BORDER) DP726854 DP1051024 REGISTERED SURVEY EASEMENT Lock: 51 DP1051024 REGISTERED SURVEY SUBDIVISION P1017336 REGISTERED SURVEY SUBDIVISION P1017336 P01017336 REGISTERED SURVEY SUBDIVISION P1017336 P01017336 REGISTERED SURVEY SUBDIVISION P1017336 P10107336 REGISTERED SURVEY SUBDIVISION P1017336 P1033704 Lock: 30 P1004332 Folio: 1741 P1017336 Lock: 30 P1042051 P10422005 Folio: 1741 P101741 Lock: 40, 50, 71 HISTORICAL<	Locality : TWEED HEADS WEST	LGA : TWEED	Parish : TERRANORA	County : ROUS			
Laf(s): 49 :00 PDF38332 Laf(s): 71 PC 26150 PDF38337 Laf(s): 1 PC 26150 PDF38337 PDF3834 Laf(s): 1 PDF38337 PDF3845 Laf(s): 1 PDF3845 Laf(s): 1 PDF3845 Laf(s): 3 PDF37715 PDF3771		Status	Surv/Comp	Purpose			
© © © CAMPILATION EASEMENT DP518902 REGISTERED COMPILATION EASEMENT Lof(s): 1 CAT18368 - LOT 1 DP535537 DP57863 DP728634 CAT18368 - LOT 1 DP535537 DP728634 Lof(s): 1 CAT18368 - LOT 1 DP535537 DP728634 Lof(s): 1 EA SUR 200427 - DP1075400. PART OF NORTH-WESTERN BOUNDARY OF LOT 710 DP728694. (NSWICLD BORDER) DP738743 Lof(s): 3 DP103382 Lof(s): 3 DP103388 REGISTERED SURVEY DP103736 REGISTERED SURVEY SUBDIVISION P01017336 REGISTERED SURVEY SUBDIVISION P01017336 REGISTERED SURVEY SUBDIVISION P01017336 REGISTERED SURVEY SUBDIVISION P01032051 SURVEY SUBDIVISION CONVERSION DP1032051 SURVEY SUBDIVISION CONVERSION DP1032051 ID022005 Folio: 1741 COMPILATION DP1032051 ID0242005 Folio: 1741 COMPILATION ONLY DP1032051 <td>DP31369</td> <td></td> <td></td> <td></td>	DP31369						
DP5 8602 Lol(s): 2 COMPILATION EASEMENT Lol(s): 1 CA118368 - LOT 1 DP535537 COMPILATION EASEMENT Lol(s): 1 CA118368 - LOT 1 DP535537 COMPILATION EASEMENT Lol(s): 1 CA118368 - LOT 1 DP535537 COMPILATION CA118368 - LOT 1 DP526644. (NSW/CLD BORDER) DP755740 EX SUR 2004/27 - DP1075400. PART OF NORTH-WESTERN BOUNDARY OF LOT 710 DP726654. (NSW/CLD BORDER) COMPILATION Lol(s): 3 Si 321 EX SUR 2004/27 - DP1075400. PART OF NORTH-WESTERN BOUNDARY OF LOT 710 DP726654. (NSW/CLD BORDER) Lol(s): 3 B DP1051024 REGISTERED SURVEY EASEMENT Lol(s): 3 DP1093051 REGISTERED SURVEY SUBDIVISION P101017336 REGISTERED SURVEY OLD SYSTEM CONVERSION P102051 MSW GAZ 31-03-2006 Folio: 1741 Lol(s): 4, 5, 6, 7 SURVEY SURVEY SURVEY INFORMATION ONLY P1030304 Folio: 204 Acquise dott P1030382 Folio: 771 Reservation Of Crown Land Reserve NO. 1011284 AD GAZ, 17.22006 FOL 241 - ALSO SEE GAZ. 10.2.2006 FOL: 771 SUBDIVISION P11030382 Fol		DECIGTEDED		EAO ENENT			
Lo(s): 2 P726654 CA118368 - LOT 1 DF335537 P726654 Lo(s): 710 ■ CA118368 - LOT 1 DF335537 P726554 Lo(s): 54, 55 ■ DP1051024 ■ DP105105 ■ DP105105		REGISTERED	COMPILATION	EASEMENT			
DP358577 Lof(s): 1 CAT18368 - LOT 1 DP535537 DP726854 Lof(s): 710 W EX SUR 2004/27 - DP1075400. PART OF NORTH-WESTERN BOUNDARY OF LOT 710 DP726604. (NSW/GLD BORDER) DP758740 Lof(s): 58, 55 D D1051024 REGISTERED SURVEY EASEMENT Lof(s): 58, 321 DP1057024 REGISTERED SURVEY ROADS ACT, 1993 DP1017336 REGISTERED SURVEY SUBDIVISION P1011625 - Lof(s): 1 - DP1092051 SURVEY SUBDIVISION P101822 - - DP1092051 - - Lof(s): 2 - - DP1092051 - - Lof(s): 4: 6: 670 - - Lof(s): 4: 6: 771 - - DP1092082 - - D							
Lot(s): 1 Cot113368 - LOT 1 DP535537 DP726654. (NSW/QLD BORDER) P755740 Cot(s): 710 Cot(s): 710 Cot(s): 740 Cot(s): 740 Cot(s)		REGISTERED	COMPILATION	EASEMENT			
CA118388 - LOT 1 DP535337 P726854 Lol(s) 710 PE EX SUR 2004/27 - DP1075400, PART OF NORTH-WESTERN BOUNDARY OF LOT 710 DP726654. (NSW/QLD BORDER) DP1051024 REGISTERED SURVEY EASEMENT Lol(s) 54, 55 DP1093882 REGISTERED SURVEY ROADS ACT, 1993 DP377151 Image: Survey SUBDIVISION DP107338 REGISTERED SURVEY SUBDIVISION DP107374 DP107338 REGISTERED SURVEY SUBDIVISION DP1082051 Image: Survey SUBDIVISION Image: Survey OLD SYSTEM CONVERSION DP1082051 Image: Survey OLD SYSTEM CONVERSION Image: Survey SUBDIVISION DP1083074 Lol(s) 67 NSW GAZ 31-03-2006 Folio: 1741 Lol(s) 67 MSW GAZ 1HSTORICAL COMPILATION CROWN ADMIN NO. DP1083074 Lol(s) 45, 6, 7 SURVEY SURVEY INFORMATION ONLY P1083774 Lol(s) 45, 7 SURVEY SURVEY INFORMATION ONLY P1084324 SURVEY SURVEY INFORMATION ONLY </td <td></td> <td></td> <td></td> <td></td>							
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DP1120061 Lot(s): 100, 101, 102 Image: DP535537 HISTORICAL SURVEY RESUMPTION OR ACQUISITION DP1120987 Lot(s): 7307 Image: DP1119883 REGISTERED COMPILATION CROWN LAND CONVERSION DP1120989 Lot(s): 7300 Image: DP1143758 REGISTERED SURVEY SURVEY INFORMATION ONLY Image: PP1143758 REGISTERED SURVEY SURVEY INFORMATION ONLY Image: PP1143758 REGISTERED SURVEY Folio : 771 Image: Reservation Of Crown Land Reserve No. Folio : 771	-						
Lot(s): 100, 101, 102 © DP535537 HISTORICAL SURVEY RESUMPTION OR ACQUISITION DP1120987 Lot(s): 7307 © DP1119883 REGISTERED COMPILATION CROWN LAND CONVERSION DP1120989 Lot(s): 7300 © DP1143758 REGISTERED SURVEY SURVEY INFORMATION ONLY © NSW GAZ 10-02-2006 Folio : 771 Reservation Of Crown Land Reserve No.	—	HISTORICAL	SURVEY	SUBDIVISION			
Image: Constraint of the servet ion of Crown Land Reserve No. HISTORICAL SURVEY RESUMPTION OR ACQUISITION DP1120987 Lot(s): 7307 COMPILATION CROWN LAND CONVERSION DP1120989 Complexities the servet ion of Crown Land Reserve No. SURVEY SURVEY INFORMATION ONLY Image: Provide the servet ion of Crown Land Reserve No. 10-02-2006 Folio : 771							
DP1120987 Lot(s): 7307		HISTORICAL	SURVEY	RESUMPTION OR ACQUISITION			
Image: Point State of Complexity Point State of Complexity Complexity Complexity Image: Point State of Complexity Point State of Complexity Point State of Complexity Point State of Complexity Image: Point State of Complexity Point State of Complexity Point State of Complexity Point State of Complexity Image: Point State of Complexity Point State of Complexity Point State of Complexity Point State of Complexity Image: Point State of Complexity Point State of Complexity Point State of Complexity Point State of Complexity Image: Point State of Complexity Point State of Complexity Point State of Complexity Point State of Complexity Image: Point State of Complexity Point State of Complexity Point State of Complexity Point State of Complexity Image: Point State of Complexity Point State of Complexity Point State of Complexity Point State of Complexity Image: Point State of Complexity Point State of Complexity Point State of Complexity Point State of Complexity Image: Point State of Complexity Point State of Complexity Point State of Complexity Point State of Complexity Image: Point State of Complexity Point State of Complexity Point State of Complexity Point State of Complexity Image: Point State of Complexity Point State of Complexity Point State of C	DP1120987						
DP1120989 Lot(s): 7300 PDP1143758 REGISTERED SURVEY SURVEY INFORMATION ONLY NSW GAZ 10-02-2006 Folio : 771 Reservation Of Crown Land Reserve No.	· · · · · · · · · · · · · · · · · · ·	REGISTERED					
Lot(s): 7300 PDP1143758 REGISTERED SURVEY SURVEY INFORMATION ONLY NSW GAZ 10-02-2006 Folio : 771 Reservation Of Crown Land Reserve No.							
NSW GAZ 10-02-2006 Folio : 771 Reservation Of Crown Land Reserve No.	Lot(s): 7300						
Reservation Of Crown Land Reserve No.				-			
1011248 AND GAZ. 17.2.2006 FOL. 841 - ALSO SEE GAZ. 10.2.2006 FOL. 771			,				
	1011248 AND GAZ. 17	.2.2006 FOL. 841 - ALSO SE	E GAZ. 10.2.2006 FOL. 771				

Department of Lands

Cadastral Records Enquiry Report

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able from the ground up Requested Parcel : Lot 100 DP 1120061 Identified Parcel : Lot 100 DP 1120061

Reliable from the ground up			Identified Parcel: Lot 100 DP 1120061
Locality : TWEED HEADS WE		Parish : TERRA	
	Status	Surv/Comp	Purpose
DP1121137			
Lot(s): 9			
DP856966	HISTORICAL	SURVEY	SUBDIVISION
DP1102377	REGISTERED	SURVEY	SUBDIVISION
DP1127593 Lot(s): 105, 106, 107, 108			
B DP226067	HISTORICAL	SURVEY	ROAD OR MOTORWAY
Lot(s): 103, 104			
DP8655	HISTORICAL	SURVEY	UNRESEARCHED
SP47806			
🖳 DP266190	REGISTERED	COMPILATION	EASEMENT
SP60680	LICTODICAL		
@ DP866281	HISTORICAL	SURVEY	SUBDIVISION
SP62509	HISTORICAL	SURVEY	SUBDIVISION
SP63667	THOTORICAL	JOINET	305514131614
(2) DP866281	HISTORICAL	SURVEY	SUBDIVISION
SP67145		••••	
🖾 DP790029	HISTORICAL	SURVEY	SUBDIVISION
P77115			
DP755740	HISTORICAL	COMPILATION	CROWN ADMIN NO.
DP1094312	REGISTERED	SURVEY	REDEFINITION
SP77153			
DP755740	HISTORICAL		
DP1093704	REGISTERED	SURVEY	REDEFINITION
SP80033	HISTORICAL	COMPILATION	CROWN FOLIO CREATION
P856966	HISTORICAL	SURVEY	SUBDIVISION
DP1102377	REGISTERED	SURVEY	SUBDIVISION
DP1121137	REGISTERED	SURVEY	SUBDIVISION
SP80305		001111	
🦉 DP866281	HISTORICAL	SURVEY	SUBDIVISION
Intersection			
Polygon Id(s): 105158652			
	19-12-20		Folio : 11467
	WN ROAD TO TWEED SH		
Road Polygon Id(s): 105186877			
PA82135 (LOTS 4-8	DP1093882)		
Polygon Id(s): 105561283	,		
👝 🍈 👼 DP1143758	REGISTERED	SURVEY	SURVEY INFORMATION ONLY
🖉 🕅 NSW GAZ	26-05-20		Folio : 3204
LOTS 4-8 DP109388	oses of the Roads Act,1993	3	
Polygon Id(s): 105659423	-		
NSW GAZ	19-12-20	03	Folio : 11467
TRANSFER OF CRO	WN ROAD TO TWEED SH		
Water Feature			
Polygon id(s): 160260553	<u> </u>	<u></u>	E-R- + 1304
MSW GAZ	29-02-20 Purposes	08	Folio : 1394
LOT 1 DP1104678	i ulhoses		
22. 1 2. 1.0.070			



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Cadastral Records Enquiry Report

Ite from the ground up Requested Parcel : Lot 100 DP 1120061 Identified Parcel : Lot 100 DP 1120061

Locality : TWEED HEADS WEST LGA : TWEED		Parish : TERRANOR	A County : ROUS
Plan	Surv/Comp	Purpo	ose
DP25241	SURVEY		SEARCHED
DP30600	SURVEY		SEARCHED
DP31368	SURVEY		SEARCHED
DP31369	SURVEY		
DP92695 DP226067	COMPILATION SURVEY		RTMENTAL OR MOTORWAY
DP243479	SURVEY		DIVISION
DP244220	SURVEY		VISION
DP246488	SURVEY		IVISION
DP246854	SURVEY		IVISION
DP248924	SURVEY	SUBD	IVISION
DP249155	SURVEY		NVISION
DP251298	SURVEY		DIVISION
DP253826	SURVEY		DIVISION
DP253915	SURVEY		IVISION
DP259282 DP261249	SURVEY SURVEY		DIVISION DIVISION
DP261250	SURVEY		DIVISION
DP262417	SURVEY		DIVISION
DP412404	SURVEY		SEARCHED
DP518902	SURVEY		IVISION
P529871	COMPILATION		IVISION
DP535537	SURVEY	-	IMPTION OR ACQUISITION
DP542273	SURVEY		DIVISION
DP569304	SURVEY		DIVISION
DP582467	SURVEY		
DP588564 DP603333	SURVEY SURVEY		DIVISION DIVISION
DP615054	SURVEY		DIVISION
DP617065	COMPILATION		IVISION
DP716288	SURVEY	SUBD	IVISION
DP716289	SURVEY	SUBD	DIVISION
DP716290	SURVEY		DIVISION
DP716291	SURVEY		VISION
DP716292	SURVEY		
DP726654 DP755740	COMPILATION COMPILATION		VN FOLIO CREATION VN ADMIN NO.
DP774945	COMPILATION		DIVISION
DP788912	COMPILATION		IVISION
DP790029	SURVEY		IVISION
DP801161	SURVEY		IVISION
DP803197	SURVEY	SUBD	IVISION
DP812023	SURVEY		DIVISION
DP819023	SURVEY		IVISION
P825038	SURVEY		DIVISION
P828025 DP834646	SURVEY SURVEY		DIVISION DIVISION
DP834646 DP837715	SURVEY		IVISION
DP841037	SURVEY		IVISION
DP842123	SURVEY		IVISION
DP855362	SURVEY	_	IVISION
DP856966	SURVEY	—	DIVISION
DP860569	SURVEY		DIVISION
DP866281			
DP866375	COMPILATION SURVEY		
DP1011625 DP1058619	COMPILATION		NVISION RTMENTAL
DP1084319	SURVEY		DS ACT, 1993
DP1092051	SURVEY		DS ACT, 1993
DP1093704	SURVEY		FINITION
DP1093882	SURVEY	ROAD	DS ACT, 1993
DP1094312	SURVEY		FINITION
DP1102377	SURVEY		IVISION
DP1113328	COMPILATION		RTMENTAL
DP1113336			RTMENTAL
DP1113622			
DP1113872 DP1113873	COMPILATION COMPILATION		RTMENTAL RTMENTAL
DP1113873 DP1113881	COMPILATION	-	RTMENTAL

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Cadastral Records Enquiry Report

Reliable from the groun		00 DP 1120061 Identified	I.Parcel : Lot 100 DP 1120061	
Locality : TWEED HEADS WEST LGA : TWEED		Parish : TERRANORA	County : ROUS	
Plan	Surv/Comp	Purpose	<u> </u>	
DP1114577	COMPILATION	CONSOLIDA	CONSOLIDATION	
DP1120061	SURVEY	ROADS ACT	ROADS ACT, 1993	
DP1120987	COMPILATION	CROWN LAND CONVERSION		
DP1120989	COMPILATION	CROWN LAND CONVERSION		
DP1121137	SURVEY	SUBDIVISION		

DP1121137	SURVEY	SUBDIVISION
DP1127593	SURVEY	ROADS ACT, 1993
SP12774	COMPILATION	STRATA PLAN
SP13748	COMPILATION	STRATA PLAN
SP13806	COMPILATION	STRATA PLAN
SP14160	COMPILATION	STRATA PLAN
SP15419	COMPILATION	STRATA PLAN
SP15972	COMPILATION	STRATA PLAN
SP15973	COMPILATION	STRATA PLAN
SP15974	COMPILATION	STRATA PLAN
SP16017	COMPILATION COMPILATION	STRATA PLAN STRATA PLAN
SP16260 SP16276		STRATA PLAN
SP16693	COMPILATION COMPILATION	STRATA PLAN
SP16747	COMPILATION	STRATA PLAN
SP17164	COMPILATION	STRATA PLAN
_SP17274	COMPILATION	STRATA PLAN
P17863	COMPILATION	STRATA PLAN
-5P18044	COMPILATION	STRATA PLAN
SP18176	COMPILATION	STRATA PLAN
SP18206	COMPILATION	STRATA PLAN
SP18314	COMPILATION	STRATA PLAN
SP18383	COMPILATION	STRATA PLAN
SP18510	COMPILATION	STRATA PLAN
SP18532	COMPILATION	STRATA PLAN
SP18542	COMPILATION	STRATA PLAN
SP19114	COMPILATION	STRATA PLAN
SP19142	COMPILATION	STRATA PLAN
SP19148	COMPILATION	STRATA PLAN
SP19363	COMPILATION	STRATA PLAN
SP19365	COMPILATION	STRATA PLAN
SP19492	COMPILATION	STRATA PLAN
SP19564	COMPILATION	STRATA PLAN
SP19799	COMPILATION	STRATA PLAN
SP19826	COMPILATION	STRATA PLAN
SP19852	COMPILATION	STRATA PLAN
SP19930	COMPILATION	STRATA PLAN
SP20005	COMPILATION	STRATA PLAN
SP20022	COMPILATION	STRATA PLAN
SP20040	COMPILATION COMPILATION	STRATA PLAN STRATA PLAN
P20207	COMPILATION	STRATA PLAN
SP20389	COMPILATION	STRATA PLAN
SP20446	COMPILATION	STRATA PLAN
SP20485	COMPILATION	STRATA PLAN
SP21130	COMPILATION	STRATA PLAN
SP21465	COMPILATION	STRATA PLAN
SP21708	COMPILATION	STRATA PLAN
SP21874	COMPILATION	STRATA PLAN
SP21875	COMPILATION	STRATA PLAN
SP21964	COMPILATION	STRATA PLAN
SP30378	COMPILATION	STRATA PLAN
SP30613	COMPILATION	STRATA PLAN
SP30637	COMPILATION	STRATA PLAN
SP31689	COMPILATION	STRATA PLAN
SP31784	COMPILATION	STRATA PLAN
SP31897	COMPILATION	STRATA PLAN
SP31992	COMPILATION	STRATA PLAN
SP32028	COMPILATION	STRATA PLAN
SP32085	COMPILATION	STRATA PLAN
SP32100	COMPILATION	STRATA PLAN
SP32113	COMPILATION	STRATA PLAN
SP32203	COMPILATION	STRATA PLAN
SP32289		STRATA PLAN
SP32794	COMPILATION	STRATA PLAN



Department of L Reliable from the g	diius	Cadastral Records Enquiry Report Reguested Parcel : Lot 100 DP 1120061 Identified Parcel : Lot 100 DP 112	
Locality : TWEED HEAD		Parish : TERRANORA	County : ROUS
Plan	Surv/Comp	Purpose	
SP33714	COMPILATION	STRATA PLAN	
SP35574	COMPILATION	STRATA PLAN	
SP35809	COMPILATION	STRATA PLAN	
SP36263	COMPILATION	STRATA PLAN	
SP36298	COMPILATION	STRATA PLAN	
SP37030	COMPILATION	STRATA PLAN	
SP37876	COMPILATION	STRATA PLAN	
SP37923	COMPILATION	STRATA PLAN	
SP38152	COMPILATION	STRATA PLAN	
SP41028	COMPILATION	STRATA PLAN	
SP41154	COMPILATION	STRATA PLAN	
SP42079	COMPLIATION	STRATA PLAN	
SP43809	COMPILATION	STRATA PLAN	
SP44089	COMPILATION	STRATA PLAN	
SP44469	COMPILATION	STRATA PLAN	
SP44800	COMPILATION	STRATA PLAN	
SP44854	COMPILATION	STRATA PLAN	
SP47097	COMPILATION	STRATA PLAN	
SP47806	COMPLETION	STRATA PLAN	
SP48196	COMPLETION	STRATA PLAN	
SP48761	COMPLATION	STRATA PLAN	
P49532	COMPLATION		
5P49808		STRATA PLAN	
SP50367	COMPILATION	STRATA PLAN	
	COMPILATION	STRATA PLAN	
SP51452	COMPILATION	STRATA PLAN	
SP53129	COMPILATION	STRATA PLAN	
SP53925	COMPILATION	STRATA PLAN	
SP58390	COMPILATION	STRATA PLAN	
SP60680	COMPILATION	STRATA PLAN	
SP62509	COMPILATION	STRATA PLAN	
SP63667	COMPILATION	STRATA PLAN	
SP67145	COMPILATION	STRATA PLAN	
SP77115	COMPILATION	STRATA PLAN	
SP77153	COMPILATION	STRATA PLAN	
SP80033	COMPILATION	STRATA PLAN	
SP80305	COMPILATION	STRATA PLAN	
ENVIRONMENT AND RESOURCE MANAGEMENT, QUEENSLAND

Request No: 8609498 Search Date: 17/02/2010 10:41

Title Reference: 18265246 Date Created: 07/02/1992

Previous Title: 14507118 15255211

REGISTERED OWNER

Dealing No: 703121067 19/01/1999

COMMONWEALTH OF AUSTRALIA

ESTATE AND LAND

Estate in Fee Simple

LOT 222 REGISTERED PLAN 839951 County of WARD Parish of TALLEBUDGERA Local Government: GOLD COAST

EASEMENTS, ENCUMBRANCES AND INTERESTS

- 1. Rights and interests reserved to the Commonwealth by Conveyance No. 601285567 (K828645Y) (Lot 222 on RP 839951)
- 2. EASEMENT No 601285565 (K133792H) 20/12/1989 BENEFITING THE LAND OVER LOTS 43 TO 46 ON RP32012 AND LOTS 13 TO 15 ON RP32013
- 3. LEASE No 703150372 03/02/1999 at 14:42 QUEENSLAND AIRPORTS LIMITED A.C.N. 077 200 821
- 4. MORTGAGE No 703222327 12/03/1999 at 16:00 NATIONAL AUSTRALIA BANK LIMITED A.C.N. 004 044 937 over LEASE: 703150372
- 5. TRANSFER No 706709956 18/06/2003 at 11:16 MORTGAGE: 703222327 WESTPAC ADMINISTRATION PTY LIMITED A.B.N. 67 008 617 203
- 6. TRANSFER No 709444068 16/03/2006 at 15:07 MORTGAGE: 703222327 CBA CORPORATE SERVICES (NSW) PTY LIMITED A.B.N. 25 072 765 434
- 7. CHANGE OF NAME No 711164572 09/11/2007 at 09:18 LEASE: 703150372 GOLD COAST AIRPORT PTY LIMITED A.C.N. 077 200 821

ADMINISTRATIVE ADVICES - NIL UNREGISTERED DEALINGS - NIL

CERTIFICATE OF TITLE ISSUED - No

ENVIRONMENT AND RESOURCE MANAGEMENT, QUEENSLAND

Request No: 8609498 Search Date: 17/02/2010 10:41

Title Reference: 18265246 Date Created: 07/02/1992

Caution - Charges do not necessarily appear in order of priority

** End of Current Title Search **

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ENVIRONMENT AND RESOURCE MANAGEMENT, QUEENSLAND

Request No: 8609498 Search Date: 17/02/2010 10:41

Title Reference: 18287103 Date Created: 17/03/1992

Previous Title: 14505240 14515067 16367240

18074094

REGISTERED OWNER

Dealing No: 703121067 19/01/1999

COMMONWEALTH OF AUSTRALIA

ESTATE AND LAND

Estate in Fee Simple

LOT 5 REGISTERED PLAN 839952 County of WARD Parish of TALLEBUDGERA Local Government: GOLD COAST

EASEMENTS, ENCUMBRANCES AND INTERESTS

- 1. Rights and interests reserved to the Crown by Conveyance No. 601285567 (K828645Y) (POR 87) (Lot 263 on CP WD5115)
- 2. EASEMENT NO 601285565 (K133792H) 20/12/1989 BENEFITING PART OF THE LAND OVER LOTS 43 TO 46 ON RP32012 AND LOTS 13 TO 15 ON RP32013
- 3. EASEMENT IN GROSS NO 601999459 (K567185X) 05/03/1991 BURDENING THE LAND TO COUNCIL OF THE CITY OF GOLD COAST OVER EASEMENT C ON CP WD6509 AND EASEMENT D ON RP215291
- 4. LEASE NO 702577849 24/03/1998 at 13:46 HERTZ AUSTRALIA PTY LTD A.C.N. 004 407 087 OF PART OF THE LAND AS SHOWN IN SKETCH (SITE 403)
- 5. AMENDMENT OF LEASE NO 711690194 02/06/2008 at 10:09 LEASE: 702577849 TERM: 01/10/1996 TO 30/09/2016 OPTION NIL
- 6. LEASE NO 703150372 03/02/1999 at 14:42 QUEENSLAND AIRPORTS LIMITED A.C.N. 077 200 821
- 7. MORTGAGE No 703222327 12/03/1999 at 16:00 NATIONAL AUSTRALIA BANK LIMITED A.C.N. 004 044 937 over LEASE: 703150372
- 8. TRANSFER No 709444068 16/03/2006 at 15:07 MORTGAGE: 703222327 CBA CORPORATE SERVICES (NSW) PTY LIMITED A.B.N. 25 072 765 434

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ENVIRONMENT AND RESOURCE MANAGEMENT, QUEENSLAND

Request No: 8609498 · Search Date: 17/02/2010 10:41

Title Reference: 18287103 Date Created: 17/03/1992

EASEMENTS, ENCUMBRANCES AND INTERESTS

- 9. SUB LEASE No 704537998 17/01/2001 at 11:04
 LEASE: 703150372
 W.T.H. PTY LTD A.C.N. 000 165 855
 OF LEASE I ON SP132451
- 10. AMENDMENT OF LEASE NO 711559459 08/04/2008 at 10:10 SUB LEASE: 704537998 TERM: 05/06/2000 TO 30/09/2016 OPTION NIL
- 11. SUB LEASE No 704553894 25/01/2001 at 11:03 LEASE: 703150372 JONDAY HOLDINGS PTY LTD A.C.N. 011 049 531 OF LEASE H ON SP113425
- 12. SUB LEASE NO 704563536 01/02/2001 at 09:37 LEASE: 703150372 LUCENT TECHNOLOGIES AUSTRALIA PTY LIMITED A.C.N. 002 326 687

OVER LEASE C ON SP132455

- 13. TRANSFER No 705824314 26/07/2002 at 08:54 SUB LEASE: 704563536 SUB LEASE: 704565076 SUB LEASE: 704565079 HUTCHISON 3G AUSTRALIA PTY LIMITED A.C.N. 096 304 620
- 14. SUB LEASE NO 709595684 16/05/2006 at 11:08
 SUB LEASE: 704563536
 H3GA PROPERTIES (NO. 3) PTY LIMITED A.C.N. 117 230 574
 OF LEASE C ON SP132455
 TERM: 01/12/2005 TO 03/05/2010 OPTION NIL
- 15. SUB LEASE NO 704565076 01/02/2001 at 14:25 LEASE: 703150372 LUCENT TECHNOLOGIES AUSTRALIA PTY LIMITED A.C.N. 002 326 678

OVER LEASE C ON SP132455

- 16. SUB LEASE No 709595713 16/05/2006 at 11:10 SUB LEASE: 704565076 H3GA PROPERTIES (NO. 3) PTY LIMITED A.C.N. 117 230 574 OF LEASE C ON SP132455 TERM: 05/05/2010 TO 03/05/2015 OPTION NIL
- 17. SUB LEASE NO 704565079 01/02/2001 at 14:25 LEASE: 703150372 LUCENT TECHNOLOGIES AUSTRALIA PTY LIMITED A.C.N. 002 326 687

OVER LEASE C ON SP132455

CURRENT IIIICE DEANNOIL ENVIRONMENT AND RESOURCE MANAGEMENT, QUEENSLAND Request No: 8609498				
	Date: 17/02/2010 10:41	Title Reference: Date Created:		
EASEMEN	TS, ENCUMBRANCES AND INTERESTS	•		
18.	SUB LEASE NO 709595715 16/05/2006 at 11 SUB LEASE: 704565079 H3GA PROPERTIES (NO. 3) PTY LIMITED A.C. OF LEASE C ON SP132455 TERM: 05/05/2015 TO 03/05/2020 OPTION NI	N. 117 230 574		
19.	SUB LEASE NO 704586438 13/02/2001 at 10 LEASE: 703150372 TRAZBOARD PTY LTD A.C.N. 002 456 984 TR	:06	•	
	UNDER INSTRUMENT NO: 704586438. OVER LEASE A ON SP132455.		Ň	
20.	SUB LEASE No 707452347 06/02/2004 at 12 LEASE: 703150372 ASCOT CAR AND UTE RENTALS AUSTRALIA PTY 309 OVER LEASE J ON SP132452			
21.	SUB LEASE NO 708014282 31/08/2004 at 09 LEASE: 703150372 HERTZ AUSTRALIA PTY LTD A.C.N. 004 407 0 OF LEASE X ON SP160631			
	AMENDMENT OF LEASE NO 711690190 02/06/2 SUB LEASE: 708014282 TERM: 01/01/2004 TO 30/09/2016 OPTION NI			
23.	CHANGE OF NAME NO 711164572 09/11/2007 LEASE: 703150372 GOLD COAST AIRPORT PTY LIMITED A.C.N. 07			
24.	SUB LEASE No 711467844 29/02/2008 at 12 LEASE: 703150372 HERTZ AUSTRALIA PTY LTD A.C.N. 004 407 0 OF LEASE Z ON SP172329 TERM: 01/05/2005 TO 30/09/2006 OPTION 10	87		
25.	AMENDMENT OF LEASE No 711661574 21/05/2 SUB LEASE: 711467844 TERM: 01/05/2005 TO 30/09/2016 OPTION NI	••		
26.	SUB LEASE No 711954334 30/09/2008 at 13 LEASE: 703150372 SOUTHERN CROSS UNIVERSITY OF PART OF THE LAND (LEASES SCUA AND SCUI TERM: 01/03/2008 TO 25/05/2047 OPTION 48	B)		

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ENVIRONMENT AND RESOURCE MANAGEMENT, QUEENSLAND

Request No: 8609498 Search Date: 17/02/2010 10:41

Title Reference: 18287103 Date Created: 17/03/1992

RASEMENTS, ENCUMBRANCES AND INTERESTS

27. SUB LEASE NO 712925496 10/12/2009 at 10:35 LEASE: 703150372 TRAZBOARD PTY LTD A.C.N. 002 456 984 TRUSTEE UNDER INSTRUMENT 712925496 OF LEASE Y ON SP182235 TERM: 19/04/2005 TO 18/04/2010 OPTION 5 YEARS

ADMINISTRATIVE ADVICES - NIL UNREGISTERED DEALINGS - NIL

CERTIFICATE OF TITLE ISSUED - NO

Caution - Charges do not necessarily appear in order of priority

** End of Current Title Search **

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ENVIRONMENT AND RESOURCE MANAGEMENT, QUEENSLAND

Request No: 8609498 Search Date: 17/02/2010 10:41

Title Reference: 17457085 Date Created: 29/01/1990

Previous Title: 11719166 12118003 12840149 13220152

13220153

REGISTERED OWNER

Dealing No: 703121067 19/01/1999

COMMONWEALTH OF AUSTRALIA

ESTATE AND LAND

Estate in Fee Simple

LOT 1 REGISTERED PLAN 225692 County of WARD Parish of TALLEBUDGERA Local Government: GOLD COAST

EASEMENTS, ENCUMBRANCES AND INTERESTS

1. Rights and interests reserved to the Commonwealth by Conveyance No. 602364686 (10176) (POR 144) Conveyance No. 602364687 (9957) (POR 84) (POR 85) (POR 86) Conveyance No. 602364688 (B232406) (POR 49) Conveyance No. 602364689 (G888133) (POR 63)

- 2. EASEMENT NO 601285565 (K133792H) 20/12/1989 BENEFITING THE LAND OVER LOTS 43 TO 46 ON RP32012 AND LOTS 13 TO 15 ON RP32013
- 3. EASEMENT IN GROSS No 601999459 (K567185X) 05/03/1991 BURDENING THE LAND TO COUNCIL OF THE CITY OF GOLD COAST OVER EASEMENT A ON RP205436
- 4. LEASE No 602364682 (L746204E) 30/11/1993 OF PART OF THE LAND TO ANWAY PTY LTD ORIGINAL TERM: COMMENCING 01 DEC 1989 TERMINATING 30 NOV 2009 OR OPTIONS AS MAY BE STATED
- 5. TRANSFER NO 704541486 18/01/2001 at 15:58 LEASE: 602364682 (L746204E) LEISA RENEE CLARK
- 6. AMENDMENT No 704702385 12/04/2001 at 10:35 LEASE: 602364682 (L746204E)

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ENVIRONMENT AND RESOURCE MANAGEMENT, QUEENSLAND

Request No: 8609498 Search Date: 17/02/2010 10:41

Title Reference: 17457085 Date Created: 29/01/1990

- 7. LEASE NO 702482286 02/02/1998 at 11:39 AIRSERVICES AUSTRALIA of part of the land as shown in sketch plan
- 8. LEASE No 702500558 11/02/1998 at 10:08 AIRSERVICES AUSTRALIA OF PART OF THE LAND AS SHOWN IN SKETCH
- 9. LEASE NO 702784976 14/07/1998 at 10:56 SHERWELL HOLDINGS PTY LTD A.C.N. 005 651 525 OVER PART OF THE LAND
- 10. TRANSFER No 705890296 22/08/2002 at 09:00 LEASE: 702784976 CAREFLIGHT QUEENSLAND LIMITED A.C.N. 010 316 462
- 11. LEASE NO 703150372 03/02/1999 at 14:42 QUEENSLAND AIRPORTS LIMITED A.C.N. 077 200 821
- 12. MORTGAGE NO 703222327 12/03/1999 at 16:00 NATIONAL AUSTRALIA BANK LIMITED A.C.N. 004 044 937 Over LEASE: 703150372
- 13. TRANSFER No 709444068 16/03/2006 at 15:07
 MORTGAGE: 703222327
 CBA CORPORATE SERVICES (NSW) PTY LIMITED A.B.N. 25 072 765
 434
- 14. SUB LEASE NO 705160267 02/11/2001 at 10:26 LEASE: 703150372 DUTY FREE STORES GOLD COAST PTY LTD A.C.N. 093 569 263 OF PARTS OF THE GROUND FLOOR
- 15. SUB LEASE NO 705166348 06/11/2001 at 10:26 LEASE: 703150372 SEAIR AVAITION PTY LTD A.C.N. 079 973 827 TRUSTEE UNDER INSTRUMENT 705166348 OF LEASE M ON SP136954
- 16. SUB LEASE No 705192134 16/11/2001 at 09:27 LEASE: 703150372 THL COOLANGATTA PTY LTD A.C.N. 091 486 645 OF LEASE K ON SP132454 PRODUCED 09/10/2001 RECORDED ON 10/10/2001 TO IDENTIFY SUB LEASE 705101120 PRODUCED 09/10/2001
- 17. SUB LEASE NO 705444695 04/03/2002 at 14:18 SUB LEASE: 705192134 SUPERCHOOK PTY LTD A.C.N. 094 638 249 OF PART OF THE GROUND FLOOR

ENVIRONMENT AND RESOURCE MANAGEMENT, QUEENSLAND

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Title Reference: 17457085

Date Created: 29/01/1990

- 18. AMENDMENT OF LEASE NO 711417456 12/02/2008 at 12:38 SUB LEASE: 705444695 TERM: 21/02/2001 TO 20/02/2011 OPTION 5 YEARS
- 19. TRANSFER No 711680873 28/05/2008 at 13:36 SUB LEASE: 705444695 SKYAN PTY LTD A.C.N. 129 943 666
- 20. SUB LEASE NO 705448476 05/03/2002 at 14:35 SUB LEASE: 705192134 SUBWAY REALTY PTY LTD A.C.N. 009 277 374 PART OF THE GROUND FLOOR
- 21. AMENDMENT OF LEASE No 709762898 11/07/2006 at 15:00 SUB LEASE: 705448476 TERM: 07/06/2001 TO 06/06/2011 OPTION 5 YEARS
- 22. SUB LEASE No 705448508 05/03/2002 at 14:37 SUB LEASE: 705192134 COOLANGATTA AIRPORT AUTO AFFAIR CAR WASH CENTRE PTY LTD A.C.N. 092 908 239 PART OF THE GROUND FLOOR
- 23. AMENDMENT No 707314691 18/12/2003 at 13:23 SUB LEASE: 705448508
- 24. AMENDMENT No 706138683 21/11/2002 at 15:57 SUB LEASE: 705192134
- 25. SUB LEASE No 706363848 17/02/2003 at 15:20 SUB LEASE: 705192134 GOLD COAST AIRPORT LIMITED A.C.N. 077 200 821 OF PART OF THE FIRST FLOOR
- 26. SUB LEASE No 708366777 17/01/2005 at 12:02 SUB LEASE: 705192134 GAME SHOW PROMOTIONS (AUSTRALIA) PTY LTD A.C.N. 101 197 200 OF PART OF THE GROUND FLOOR (TENANCY F8) TERM: 15/11/2004 TO 31/03/2008 OPTION 5 YEARS
- 27. TRANSFER No 709639316 30/05/2006 at 15:51 SUB LEASE: 708366777 QUEENSLAND AIRPORTS LIMITED A.C.N. 077 200 821
- 28. SUB LEASE NO 708589686 18/04/2005 at 12:26 SUB LEASE: 705192134 JAMES ROBERT KAY PART OF THE GROUND FLOOR OF THE BUILDING
- 29. TRANSFER No 709911673 06/09/2006 at 08:45 SUB LEASE: 708589686 TENUTO PTY LTD A.B.N. 50 010 365 189

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Title Reference: 17457085 Date Created: 29/01/1990

- 30. SUB LEASE NO 708744374 17/06/2005 at 12:20 SUB LEASE: 705192134 OCEAN & EARTH AUSTRALIA PTY LIMITED A.C.N. 056 504 191 PART OF THE GROUND FLOOR
- 31. TRANSFER No 708838952 21/07/2005 at 10:17 SUB LEASE: 705192134 C & P PROPERTIES (QLD) PTY LTD A.C.N. 112 576 299 TRUSTEE 1/2 UNDER INSTRUMENT 708838952 C & P PROPERTIES (QLD) PTY LTD A.C.N. 112 576 299 TRUSTEE 1/2 UNDER INSTRUMENT 708838952
- 32. MORTGAGE No 708839026 21/07/2005 at 10:20 PERPETUAL TRUSTEE COMPANY LIMITED A.B.N. 42 000 001 007 over SUB LEASE: 705192134
- 33. SUB LEASE NO 709133146 14/11/2005 at 13:26 SUB LEASE: 705192134 ANNEDAN HOLDINGS PTY LTD A.C.N. 115 436 336 OF PART OF THE GROUND FLOOR TERM: 01/06/2005 TO 31/05/2008 OPTION 3 X 3 YEARS
- 34. SUB LEASE No 709447346 17/03/2006 at 13:49 SUB LEASE: 705192134 MANORBROCK PTY LTD A.C.N. 099 965 214 OF PART OF THE GROUND FLOOR OF A BUILDING (TENANCY B8) TERM: 23/09/2005 TO 22/09/2008 OPTION 3 YEARS
- 35. AMENDMENT OF LEASE NO 711732826 19/06/2008 at 11:51 SUB LEASE: 709447346 TERM: 23/09/2005 TO 22/09/2009 OPTION NIL
- 36. SUB LEASE NO 709447379 17/03/2006 at 13:53
 SUB LEASE: 705192134
 DUTY FREE STORES GOLD COAST PTY LTD A.C.N. 093 569 263
 OF PART OF THE GROUND FLOOR OF A BUILDING (TENANCY F13, F14 AND F15)
 TERM: 14/11/2005 TO 13/09/2008 OPTION 2 YEARS
- 37. SUB LEASE NO 709504170 07/04/2006 at 14:12 SUB LEASE: 705192134 BRIDGET GRAY OF PART OF THE GROUND FLOOR OF A BUILDING (TENANCY B7) TERM: 15/01/2006 TO 14/01/2009 OPTION 5 YEARS
- 38. TRANSFER No 710790643 06/07/2007 at 14:10 SUB LEASE: 709504170 MANAGEMENT STRATEGIES PTY LTD A.C.N. 115 054 441

ENVIRONMENT AND RESOURCE MANAGEMENT, QUEENSLAND

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Title Reference: 17457085 Date Created: 29/01/1990

- 39. SUB LEASE No 709513450 11/04/2006 at 15:46 SUB LEASE: 705192134 EAST COAST COMMUNITY CARE INCORPORATED A.R.B.N. 108 970 529 OF PART OF THE GROUND FLOOR (LEASE B4/B6) TERM: 15/01/2006 TO 14/01/2007 OPTION 1 YEAR
- 40. SUB LEASE No 709531410 20/04/2006 at 13:33
 SUB LEASE: 705192134
 HELICOPTER ASSOCIATION OF AUSTRALASIA PTY LTD A.C.N. 002 579 580
 OF PART OF THE GROUND FLOOR OF THE BUILDING (TENANCY D13)
 TERM: 04/04/2006 TO 03/04/2009 OPTION 3 YEARS
- 41. SUB LEASE NO 709723995 28/06/2006 at 13:51 SUB LEASE: 705192134 T & T BUILDING (PRESTIGE) PTY LTD A.C.N. 110 353 181 OF PART OF THE GROUND FLOOR (TENANCY F16) TERM: 17/06/2006 TO 12/01/2008 OPTION 5 YEARS
- 42. SUB LEASE No 710165564 07/12/2006 at 14:40 SUB LEASE: 705192134 COMMONWEALTH OF AUSTRALIA OF PART OF THE GROUND FLOOR (SUBLEASE F10 AND F17) TERM: 03/04/2006 TO 02/04/2008 OFTION 1 YEAR
- 43. SUB LEASE No 710790545 06/07/2007 at 13:51 SUB LEASE: 705192134 KEYTE REALTY PTY LTD A.C.N. 111 068 421 OF PART OF THE GROUND FLOOR (TENANCY F1) TERM: 01/06/2007 TO 31/05/2008 OPTION 3 YEARS
- 44. AMENDMENT OF LEASE No 711756593 27/06/2008 at 13:33 SUB LEASE: 710790545 TERM: 01/06/2007 TO 30/05/2011 OPTION NIL
- 45. SUB LEASE NO 711406065 07/02/2008 at 14:01 SUB LEASE: 705192134 EAST COAST COMMUNITY CARE INCORPORATED A.R.B.N. 108 970 529 OF PART OF THE GROUND FLOOR (TENANCY B3 & B5) TERM: 01/09/2007 TO 14/01/2009 OPTION 3 YEARS
- 46. SUB LEASE NO 711471126 03/03/2008 at 12:21
 SUB LEASE: 705192134
 GLOBAL EDGE GROUP PTY LTD A.C.N. 086 732 809
 OF PART OF THE GROUND FLOOR (TENANCY D10)
 TERM: 01/03/2008 TO 28/02/2010 OPTION 2 YEARS
- 47. SUB LEASE NO 712050784 17/11/2008 at 12:17 SUB LEASE: 705192134 ANGELA SMITH OF PART OF THE GROUND FLOOR (TENANCY F6 AND F7) TERM: 01/01/2008 TO 31/12/2010 OPTION 3 YEARS

ENVIRONMENT AND RESOURCE MANAGEMENT, QUEENSLAND

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Title Reference: 17457085 Date Created: 29/01/1990

- 48. SUB LEASE NO 712146668 07/01/2009 at 12:49 SUB LEASE: 705192134 SOUTHERN CROSS UNIVERSITY OF PART OF THE GROUND FLOOR (LEASE F11/12) TERM: 01/03/2008 TO 28/02/2009 OPTION 1 YEAR
- 49. SUB LEASE NO 712442436 29/05/2009 at 12:18 SUB LEASE: 705192134 ABORIGINAL AND TORRES STRAIT ISLANDERS CORPORATION FOR WELFARE, RESOURCE AND HOUSING OF PART OF THE GROUND FLOOR (TENANCY F5 AND F9) TERM: 12/05/2008 TO 11/05/2011 OPTION 3 YEARS
- 50. AMENDMENT OF LEASE NO 712433311 26/05/2009 at 12:33 SUB LEASE: 712442436 TERM: 12/05/2008 TO 11/05/2013 OPTION 5 YEARS
- 51. SUB LEASE NO 712687476 26/08/2009 at 13:01 SUB LEASE: 705192134 FRED KARL AZZARELLO OF PART OF THE GROUND FLOOR - TENANCY E1 OF PART OF THE FIRST FLOOR - TENANCY E4 TERM: 01/06/2008 TO 06/01/2018 OPTION 10 YEARS
- 52. SUB LEASE NO 712687486 26/08/2009 at 13:04 SUB LEASE: 705192134 AIRPORT TAVERN GOLD COAST PTY LTD A.C.N. 127 618 231 PART OF THE GROUND FLOOR TENANCIES D2, E, E2, E7, F2, F3, F4 PART OF THE FIRST FLOOR - TENANCY E3 TERM: 06/12/2007 TO 05/12/2011 OPTION 10 YEARS
- 53. SUB LEASE NO 713039843 05/02/2010 at 13:30 SUB LEASE: 705192134 QUEENSLAND AIRPORTS LIMITED A.C.N. 104 121 824 OF PART OF THE FIRST FLOOR - TENANCY F19 & F21 TERM: 07/08/2007 TO 15/07/2011 OPTION 10 YEARS
- 54. SUB LEASE NO 713039848 05/02/2010 at 13:30 SUB LEASE: 705192134 QUEENSLAND AIRPORTS LIMITED A.C.N. 104 121 824 OF PART OF THE FIRST FLOOR - TENANCY F20 TERM: 01/05/2008 TO 15/07/2011 OPTION 10 YEARS
- 55. SUB LEASE NO 705319555 10/01/2002 at 15:30 LEASE: 703150372 HOPE'S BUS SERVICE PTY LTD A.C.N. 001 854 771 OF PART OF THE GROUND FLOOR
- 56. MORTGAGE No 709887866 29/08/2006 at 08:53 COMMONWEALTH BANK OF AUSTRALIA A.B.N. 48 123 123 124 over SUB LEASE: 705319555

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- 57. SUB LEASE No 706297284 23/01/2003 at 08:48 LEASE: 703150372 COMMONWEALTH OF AUSTRALIA OVER LEASE N ON SP136959
- 58. SUB LEASE NO 707194372 14/11/2003 at 10:04 LEASE: 703150372 SPOTLESS SERVICES AUSTRALIA LIMITED A.C.N. 005 309 320 OF PART OF THE GROUND FLOOR
- 59. SUB LEASE NO 707446586 05/02/2004 at 09:40 LEASE: 703150372 SUNDOWN PASTORAL COMPANY PTY LTD A.C.N. 000 334 190 OVER LEASE Q ON SP144103
- 60. SUB LEASE NO 707448151 05/02/2004 at 13:13 LEASE: 703150372 GOLD COAST AIR TERMINAL SERVICES FTY LTD A.C.N. 066 991 259 OVER LEASE R ON SP153201
- 61. SUB LEASE NO 707463521 11/02/2004 at 09:19 LEASE: 703150372 AIR GOLD COAST PTY LTD A.C.N. 010 792 800 OVER LEASE W ON SP160630
- 62. SUB LEASE NO 707674631 28/04/2004 at 09:59
 LEASE: 703150372
 OCEANIA AVIATION SERVICES PTY LTD A.C.N. 072 468 163
 OCEANIA AVIATION MAINTENANCE PTY LTD A.C.N. 099 868 916
 JOINT TENANTS
 OF LEASE P ON SP144103
 TERM: 04/12/2002 TO 03/12/2022 OPTION NIL
- 63. MORTGAGE NO 712398162 11/05/2009 at 14:25 WESTFAC BANKING CORPORATION A.B.N. 33 007 457 141 over SUB LEASE: 707674631 AGAINST THE INTEREST OF OCEANIA AVIATION SERVICES PTY LTD A.C.N. 072 468 163
- 64. TRANSFER NO 712712186 07/09/2009 at 14:34 SUB LEASE: 707674631 OCEANIA AVIATION SERVICES FTY LTD A.C.N. 072 768 163
- 65. SUB LEASE NO 707743695 24/05/2004 at 10:09 LEASE: 703150372 AUSTRALIAN AIR EXPRESS PTY LTD A.C.N. 054 307 336 LEASE AAE ON SP160636

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- 66. SUB LEASE No 707750720 26/05/2004 at 09:50 LEASE: 703150372 GOLD COAST HANGERS PTY LTD A.C.N. 103 791 480 LEASE S ON SP157946
- 67. SUB LEASE NO 708586575 15/04/2005 at 12:34 LEASE: 703150372 VIRGIN BLUE AIRLINES PTY LTD A.C.N. 090 670 965 PART OF THE GROUND FLOOR
- 68. SUB LEASE NO 708603758 22/04/2005 at 09:58 LEASE: 703150372 JETPOINT PTY LTD A.C.N. 086 471 132 OF LEASE JETP ON SP113421 AND LEASE Z ON SP172328 TERM: 01/01/2005 30/06/2008 OPTION NIL
- 69. SUB LEASE NO 708829430 18/07/2005 at 12:09 LEASE: 703150372 OCEANIA AVIATION SERVICES PTY LTD A.C.N. 072 468 163 OF PART OF THE GROUND FLOOR
- 70. SUB LEASE NO 709124227 10/11/2005 at 10:58 LEASE: 703150372 COMMONWEALTH OF AUSTRALIA PART OF THE GROUND FLOOR
- 71. CHANGE OF NAME No 711164572 09/11/2007 at 09:18 LEASE: 703150372 GOLD COAST AIRPORT PTY LIMITED A.C.N. 077 200 821
- 72. SUB LEASE NO 703955021 24/03/2000 at 11:29 LEASE: 702839463 RAYMOND JOHN BATTISTELLA OF PART OF THE GROUND FLOOR
- 73. SUB LEASE NO 704537886 17/01/2001 at 10:39 LEASE: 702839463 ANTHONY PERCY RANDALL TENANT IN COMMON 1/2 PATRICIA ANN RANDALL TENANT IN COMMON 1/2 OF PART OF THE GROUND FLOOR
- 74. SUB LEASE NO 704568475 02/02/2001 at 16:31 LEASE: 702839463 ASIA PACIFIC MANAGEMENT CONSULTANTS (QLD) PTY LTD A.C.N. 063 876 273 OF PART OF THE GROUND FLOOR
- 75. TRANSFER NO 705624099 16/05/2002 at 11:03 SUB LEASE: 704568475 AYMEYE PTY LTD A.C.N. 003 308 521

ENVIRONMENT AND RESOURCE MANAGEMENT, QUEENSLAND

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Title Reference: 17457085 Date Created: 29/01/1990

EASEMENTS, ENCUMBRANCES AND INTERESTS

- 76. SUB LEASE NO 705763230 03/07/2002 at 09:27 LEASE: 702839463 JAYLINNO PTY LTD A.C.N. 010 456 194 OF PART OF THE GROUND FLOOR
- 77. MORTGAGE NO 705890306 22/08/2002 at 09:02 WESTPAC BANKING CORPORATION A.B.N. 33 007 457 141
- 78. SUB LEASE No 706154898 28/11/2002 at 10:22 LEASE: 702839463 MAXWELL JAMES BALDWIN OF PART OF THE GROUND FLOOR
- 79. SUB LEASE No 706444043 17/03/2003 at 15:15 LEASE: 702839463 GRAEME JOHN BURKE OF PART OF THE GROUND FLOOR
- 80. LEASE No 711783572 10/07/2008 at 12:20
 KOVS PTY LTD A.C.N. 001 879 732
 OF PART OF THE GROUND FLOOR OF A BUILDING (TENANCY D11)
 TERM: 01/07/2008 TO 30/06/2009 OPTION 3 YEARS

ADMINISTRATIVE ADVICES - NIL UNREGISTERED DEALINGS - NIL

CERTIFICATE OF TITLE ISSUED - No

Corrections have occurred - Refer to Historical Search

Caution - Charges do not necessarily appear in order of priority

** End of Current Title Search **

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FOLIO: 1/582467

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SEARCH DATE	TIME	EDITION NO	DATE
22/2/2010	12:59 PM	4	2/5/2008

LAND

LOT 1 IN DEPOSITED PLAN 582467 AT TWEED HEADS LOCAL GOVERNMENT AREA TWEED PARISH OF TERRANORA COUNTY OF ROUS TITLE DIAGRAM DP582467

FIRST SCHEDULE

COMMONWEALTH OF AUSTRALIA

(R 5065093)

SECOND SCHEDULE (2 NOTIFICATIONS)

 1 5340961 LEASE TO QUEENSLAND AIRPORTS LIMITED EXPIRES: 28/5/2048. OPTION OF RENEWAL: 49 YEARS.
 5340962 MORTGAGE OF LEASE 5340961 TO NATIONAL AUSTRALIA BANK LIMITED
 9630525 TRANSFER OF MORTGAGE 5340962 MORTGAGEE NOW WESTPAC ADMINISTRATION PTY LIMITED
 AC917294 CHANGE OF NAME AFFECTING LEASE 5340961 LESSEE NOW GOLD COAST AIRPORT PTY LIMITED
 AC917295 VARIATION OF MORTGAGE 5340962
 AC917296 TRANSFER OF MORTGAGE 5340962 MORTGAGEE NOW CBA CORPORATE SERVICES (NSW) PTY LIMITED
 2 AD927845 THIS EDITION ISSUED PURSUANT TO S.111 REAL PROPERTY ACT, 1900

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NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

266276857

PRINTED ON 22/2/2010

Provided on 22/02/2010 11:59 AM

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Any entries preceded by an asterisk do not appear on the current edition of the Certificate of Title. Warning: the information appearing under notations has not been formally recorded in the Register.

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 100/1120061

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SEARCH DATE	TIME	EDITION NO	DATE
22/2/2010	12:59 PM [/]	1	30/5/2008

LAND

- - - -LOT 100 IN DEPOSITED PLAN 1120061 AT TWEED HEADS WEST LOCAL GOVERNMENT AREA TWEED PARISH OF TERRANORA COUNTY OF ROUS TITLE DIAGRAM DP1120061

FIRST SCHEDULE

COMMONWEALTH OF AUSTRALIA

SECOND SCHEDULE (9 NOTIFICATIONS) -----1 THE LAND ABOVE DESCRIBED IS LIMITED IN STRATUM IN THE MANNER DESCRIBED IN DP1120061 2 N319843 COVENANT AS REGARDS THE PART FORMERLY IN LOT 2 IN DP227199 3 2247659 LEASE TO AIRSERVICES AUSTRALIA OF PART BEING LOTS 1, 2 & 3 IN DP854935. EXPIRES 30/6/2034. 5340961 CONCURRENT LEASE 4 5340961 LEASE TO QUEENSLAND AIRPORTS LIMITED EXPIRES: 28/5/2048. OPTION OF RENEWAL: 49 YEARS. MORTGAGE OF LEASE 5340961 TO NATIONAL AUSTRALIA 5340962 BANK LIMITED 9630525 TRANSFER OF MORTGAGE 5340962 MORTGAGEE NOW WESTPAC ADMINISTRATION PTY LIMITED AC917269 CHANGE OF NAME AFFECTING LEASE 5340961 LESSEE NOW GOLD COAST AIRPORT PTY LIMITED AC917270 VARIATION OF MORTGAGE 5340962 AC917271 TRANSFER OF MORTGAGE 5340962 MORTGAGEE NOW CBA CORPORATE SERVICES (NSW) PTY LIMITED 5 AD962626 EASEMENT FOR ACCESS VARIABLE WIDTH APPURTENANT TO THE LAND ABOVE DESCRIBED AFFECTING THE PART SHOWN DESIGNATED (AA) IN THE TITLE DIAGRAM AD962626 EASEMENT FOR SUPPORT VARIABLE WIDTH AFFECTING THE 6 PART SHOWN DESIGNATED (BB) IN THE TITLE DIAGRAM 7 AD962626 EASEMENT FOR SUPPORT VARIABLE WIDTH AFFECTING THE PART SHOWN DESIGNATED (DD) IN PLAN WITH AD962626 AD962626 EASEMENT FOR SUPPORT VARIABLE WIDTH APPURTENANT TO 8 THE LAND ABOVE DESCRIBED AFFECTING THE PART SHOWN DESIGNATED (DD) IN PLAN WITH AD962626 9 AD962626 EASEMENT TO DRAIN WATER VARIABLE WIDTH AFFECTING THE END OF PAGE 1 - CONTINUED OVER 266276857 PRINTED ON 22/2/2010

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH FOLIO: 100/1120061 PAGE 2 SECOND SCHEDULE (9 NOTIFICATIONS) (CONTINUED) PART SHOWN DESIGNATED (CC) IN DP1120061 NOTATIONS UNREGISTERED DEALINGS: NIL *** END OF SEARCH ***

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266276857

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Appendix C – Site photographs

Plate 1 – Former Fire station area in foreground and existing fire station workshop in the background
Plate 2 – Former JUHI
Plate 3 – Location of 1996 fuel leak
Plate 4 – Possible location of 2009 helicopter crash



Gold Coast Airport – Site inspection photographs 8 and 9 June 2016



Appendix D – Geological mapping and Groundwater data search results



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145 Ann Street Brisbane QLD 4000 T 61 7 3316 3000 F 61 7 3316 3333 E bnemail@ghd.com W www.ghd.com

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Data source: Google Earth: imagery (May 2015, extracted March 2016). Created : jvc



AIR PHOTO IMAGERY IS LPI ADS40 Captured in September 2009 Minimum Elevation Contour Interval 2 metres; Maximum is 10 metres

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1:25,000 GOLD COAST AIRPORT GROUNDWATER



C:\41\20219\GIS\Projects\SCA_June08\00_Cns_Fig2_Geology.mxd 201 Charlotte Street Brisbane QLD 4000 Australia T 617 3316 © 2008. While GHD has taken care to ensure the accuracy of this product, GHD and NRW make no representations or warranties about its accuracy, completeness or suitability for any particular purpose. GHD and NRW care accept tability of any kind (whether in contract, tot or otherwise) for any expresses, losses, damages and/or costs (including indirect or onsequential damage) which are or may be incurred as a result of the product being inaccurate, incomplete or unsuitable in any way and for any reacons. 201 Charlotte Street Brisbane QLD 4000 Australia T 61 7 3316 3000 F 61 7 3316 3333 E bnemail@ghd.com.au W www.ghd.com.au

Data source: Dept NRW, DCDB and Geology, Nov 2007 :-:

Appendix E – Historical aerial photographs



1947 Historical Aerial

145 Ann Street Brisbane QLD 4000 T 61 7 3316 3000 F 61 7 3316 3333 E bnemail@ghd.com W www.ghd.com

H:\Projects\31\34071\GIS Brisbane by jvc\maps\31-34071-201_Cgt1947aerial_revA.mxd

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1955 Historical Aerial

Figure B 145 Ann Street Brisbane QLD 4000 T 61 7 3316 3000 F 61 7 3316 3333 E bnemail@ghd.com W www.ghd.com

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Appendix F – Interview transcripts

Interview with Peter Franks – Airservices Fire Station – 9 June 2016

Peter Franks – Airservices Australia

Craig Barnes – Airservices Australia

Imogen Bird - GHD

1 – Are you aware of any PFAS investigations and testing that have been undertaken across the wider Airport?

No

2. Is there an incident log that detailed where actual fires and fuel spills have been attended that require the use of firefighting foams.

There is an incident log that goes back to the late 1990s. The log will outline how much foam was discharged at an incident. It is noted that foam is not typically discharged unless required.

- Helicopter crash in 2009 foam was discharged
- early or mid 1980s two light aircraft crash. The exact location of this crash needs to be confirmed. Peter assumed it was within the bushland in a remote, difficult to access location.
- Peter has no recollection of foam discharge associated with a fuel leakage near the terminal in 1996.

3. If there is not an inventory, can you recall any fires or fuel spills at the airport? Dates?

As above.

4. Is there an inventory of AFFF storage within the airport?

No.

The AFFF was delivered in plastic 44 gallon drums and dispensed into an on site AST.

The drums were historically disposed of to the local Tugun landfill by ARFF staff.

5. Are you aware of any AFFF use outside of the Airport but within the general vicinity?

- Tugun bypass tunnel
- Queensland Fire and Rescue Service
- The new JUHI includes protein based foam.

6. Is there any AFFF still stored within the Airport? If so, where and for what purpose?

Not aware of any

7. Has training involving AFFF (e.g extinguishers, AEP exercises) been undertaken in areas outside the current fire station and/or training ground?

Yes.

99% of the training occurs in the fire training ground. This area was bunded in the 1980s or early 1990s. Prior to this the area was characterised by unsealed ground.

A number of possible 'crash remote' sites were highlighted in the bush around the fire training ground of old fire station site. Peter indicated that these locations were more likely to be in bushland in close proximity to ARFF operations.

AEP is conducted at the training ground no knowledge of foam discharged as part of these operations.

8. What is the age of the current fire station and fire training ground? What was the previous use of these sites?

Current fire station constructed in the 1992, previous location adjacent to the former fuel depot. The former fire station was likely to be there since the 1960s. The old fire station was demolished between 2005 and 2007.

9. When AFFF was used in training, how often and for how long did this occur?

Training occurs at the training ground at least once per shift. During development training it may be more often.

There are no records of the volumes of foam used during these exercise. Foam was always used in training until 2010. Since 2010 all training is undertaken with water and foam only used once a year.

NSW Fire Service and QFRS also undertake training at the ARFF training ground. This occurs every 3-6 months. Foam is not used as part of these operations.

10. When AFFF was used in training, what volumes were used and what was the methodology for wash down of waste and equipment?

Hoses are flushed at the training ground, they are cleaned at the fire station to remove dirt and placed on the hose drying rack. Water from the wash down at the fire station goes into a contained treatment system that is disposed to sewer. Runoff from the drying rack drains to stormwater.

Foam used in the training ground is allowed to dissipate. Sometimes it will be blown around the fire training area up to approximately 100 metres away.

A daily test which includes the release of foam from each truck was undertaken in the area around the fire station.

Every 6 months valve and foam consistency testing was also undertaken in the area around the fire station.

11. How widely was the AFFF dispersed aerially? Photos?

Outlined above

12. Was wash down of the fire fighting equipment restricted to the fire training areas?

Trucks and hoses are cleaned at the fire station. All water from wash down on the hardstand at the fire station is collected in a UST where some hydrocarbon separation occurs. The water then passes through a triple interceptor trap and then pumped to sewer.

It is noted that the bund where AFFF was stored at the fire station contains a drain, which drains to the diesel tank bund. This discharged to stormwater through a valve operated pipe.

Water in the bunded area at the fire training ground goes into two phase UST where some hydrocarbon separation occurs, it then goes through a triple interceptor trap and is pumped to sewer.

13. Where did the wash down water end up? Do any drawings discharge off-site and, if so where?

As above question

14. Has there been any significant bulk earth works (relevant to AFFF use) on the site that resulted in soil being relocated from one area of the airport to another?

Hydrocarbon impacted soil associated with the waste water leak at the fire training ground included excavation of soils and remediation, then re-instatement.

Peter confirmed that the fire trucks are used for irrigation of grass around the airport as requested by the airport.

15. Have any activities associated with the airport even been undertaken at the pony club to the south of the site which will be used for the ILS?

No

16. How were spent drums or excess product disposed of?

Spent drums were disposed of to the local Tugun landfill by ASA staff.

17. Does groundwater 'daylight' in areas of the site?

Yes, in all drains

18. What was the location of the ARFF sites?

Covered above.

19. Is stormwater harvested within the Airport and if so, for what purposes and where?

Stormwater is not harvested at the fire station.

There is a small tank on the environment shed at the training ground, which is used to clean the separator filters.

20. Is groundwater abstracted within the Airport and if so, for what purposes and where?

No.

21. What activities have occurred in the cleared area directly to the west of the fire training ground.

NA.

Interview with Gold Coast Airport – 8 June 2016

Norbert Benton – Gold Coast Airport Greg Hopgood – Gold Coast Airport Craig Barnes – Airservices Australia Imogen Bird - GHD

1 – Are you aware of any PFAS investigations and testing that have been undertaken across the wider Airport?

GCA provided a figure of previous elevated PFAS results identified in isolated groundwater and soil sample locations. Based on this it appears that previous investigation were limited in extent and scope.

More recently

- Environmental Earth Science undertook a PSI and SAQP as part of the Project LIFT and ILS.
- AECOM then undertook soil and groundwater investigations. This information is in draft and is not available at this stage. However, the groundwater PFAS contamination contour was sighted and a groundwater contour figure provided.
- Jacobs recently completed a PSI and risk assessment this has also not been finalised, but a copy of the key PFAS sources identified in the report was discussed.

2. Is there an incident log that detailed where actual fires and fuel spills have been attended that require the use of firefighting foams.

Key fuel spill and firefight events include:

- Significant fuel spill in 1996 at the end of the fuel line
- Helicopter crash in 2009
- Light plane crash in mid-1980's
- Lockheed Loadstar 1945
- Nothing else is noted on the register which only goes back to 2007.
- ASA also helped irrigate the grass at the end of the runway to assist with establishment for a period of time
- Foam may also have been used in the Airport Emergency Plan conducted every two years.
 However, Norbert has no recollection of foam being used in the past 10 years.

3. If there is not an inventory, can you recall any fires or fuel spills at the airport? Dates?

As above.

4. Is there an inventory of AFFF storage within the airport?

There is a fuel tank register.

Not known to hold AFFF in any other areas apart for fire station.

Not known to be in the hangers, however it is not known if the hangers include fire extinguishers.

It is also noted that it is not known where the hanger lessees undertake fire training and if this has even been completed on the site in the past.

5. Are you aware of any AFFF use outside of the Airport but within the general vicinity?

Tugun bypass tunnel:

Fire and spill management as part of the Tugun bypass includes AFFF foam. Water captured within the tunnel drains to sumps at either end of the tunnel, which is then pumped to treatment ponds and discharged. In the event of an incident (including release of AFFF) and if contaminated material enters the sump, this is sucked out and disposed off site, this water is not passed through the typical stormwater management system. GCA indicated that there had been a release of 'concentrate' which may include residual impacts.

Queensland Fire and Rescue Service:

The fire station has been present for a long time.

(It was noted during the site visit that QFRS was undertaking an exercise on the ASA training area.)

6. Is there any AFFF still stored within the Airport? If so, where and for what purpose?

The new JUHI includes 10,000 L of FFP (protein based foam)

7. Has training involving AFFF (e.g extinguishers, AEP exercises) been undertaken in areas outside the current fire station and/or training ground?

It is noted that the fire station relocated in 1992. The workshop has remained in the same area. The previous GHD investigation of the training ground (GHD 2008) indicated that the fire training ground was always present in the current area.

GCA provided anecdotal evidence from a site worker (Dan Boyd) who had undertaken work on the site for a period of over 50 years. While he could not confirm the timing (likely to be before 1994), he indicated that fire training had been completed in a number of specific locations across the site in 44 gallon drums. The areas were provided on a map by GCA.

8. What is the age of the current fire station and fire training ground? What was the previous use of these sites?

Current fire station constructed in the 1990s (1992), previous location adjacent to the former fuel depot. Prior to this the area was swamp land.

9. When AFFF was used in training, how often and for how long did this occur?

There was a requirement to test every truck (4 trucks) every day from 1978 to 2010¹.

10. When AFFF was used in training, what volumes were used and what was the methodology for wash down of waste and equipment?

There was no licencing around 'dark smoke agreement', which allowed dark smoke as part of training exercises. As part of this agreement a form was completed that outlined the volume of foam discharged. This register goes back to 1997¹.

11. How widely was the AFFF dispersed aerially? Photos?

NA

¹ Although this was the answer provided during the interview, it should be noted that it is not entirely relevant to the question.

12. Was wash down of the fire fighting equipment restricted to the fire training areas?

NA

13. Where did the wash down water end up? Do any drawings discharge off-site and, if so where?

NA

14. Has there been any significant bulk earth works (relevant to AFFF use) on the site that resulted in soil being relocated from one area of the airport to another?

- There were three former landfills located on the southern side of the Tugun bypass. This material was removed and disposed of to a licensed landfill as part of the bypass development.

- Material from the construction of the bypass was stockpiled on site, some near SCU.

- The 2006/2007 runway expansion the ground surface was stripped and this material was used in other areas of the site.

- Soil was imported to fill in the wetland for construction of the new fuel depot.

- There was some soil remediation for hydrocarbons associated with the old fuel depot.

- Soil scraped as part of the taxiway extension and stockpiled on site. This material has been characterised, including PFAS analysis.

- SCU drilling materials are stockpiled on the site and will be characterised.

- Drain silting has not been undertaken at the site, at least in the past 10 years.

15. Have any activities associated with the airport even been undertaken at the pony club to the south of the site which will be used for the ILS?

No

16. How were spent drums or excess product disposed of?

NA

17. Does groundwater 'daylight' in areas of the site?

Yes, in most but not all drains

18. What was the location of the ARFF sites?

Covered above.

19. Is stormwater harvested within the Airport and if so, for what purposes and where?

Rain water is harvested from roof tops and stored in underground tanks at the terminal, AFP and SCU. It is used for flushing toilets and urinals. May have also been used for irrigation.

20. Is groundwater abstracted within the Airport and if so, for what purposes and where?

Water from the stormwater drains, which includes groundwater has been used for dust suppression and irrigation as part of some previous construction activities.

21. What activities have occurred in the cleared area directly to the west of the fire training ground.

ASA instrumentation only.

Appendix G – Groundwater Monitoring Report



Parsons Brinckerhoff Australia Pty Limited

ABN 80 078 004 798

1 May 2015

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Certified to ISO 9001, ISO 14001, OHSAS 18001

Our ref: 2171302F-CLM-LTR001A Airservices ARFF GME

Your ref: 4500008810 / 10

By email darrel.spence@airservicesaustralia.com

Dear Darrel

Groundwater Monitoring and Reporting - ARFF Training Ground, Gold Coast Airport

1. Introduction

Parsons Brinckerhoff Australia (Parsons Brinckerhoff) is pleased to provide this letter report to Airservices Australia (Airservices) summarising the April 2015 groundwater monitoring event (GME) undertaken at the Aviation Rescue and Fire Fighting (ARFF) fire training ground, Gold Coast Airport, Bilinga, QLD (the site). The site location is shown on Figure 1, Attachment A.

ARFF is a division of Airservices Australia that conducts training exercises on site. Training exercises involve lighting controlled fires and then putting them out using water and surfactants. Kerosene is generally the fuel used to generate the controlled fire. Historically, aqueous film forming foams (AFFF), including Perfluorooctanesulfonic acid (PFOS), Perfluorooctanoic acid (PFOA) and fluorotelomer sulfonate (6:2 FtS) were used to suppress the fires during training exercises.

Training exercises are undertaken on a purpose-built training facility comprised of a sunken, bunded concrete slab surrounded by a concrete skirt to prevent discharges of fluids to ground during training activities. Parsons Brinckerhoff understands that any excess fluid runoff from the concrete slab drains into a series of temporary holding tanks, into an oil/water separator, then into another temporary holding tank prior to discharge to sewer (through a trade waste permit).

2. Background

2.1 Oil/water separator release

In July 2006 the oil/water separator overflowed at the site, releasing an unknown volume of petroleum hydrocarbons into the receiving environment. It is understood that the release comprised mostly A1 Jet fuel. The release occurred due to the oil/water separator pump being switched from automatic to manual, resulting in the pump not turning on when the oil/water separator reached its maximum volume.



Parsons Brinckerhoff initially collected soil samples to delineate the extent of the affected area. Laboratory analytical results indicated concentrations of petroleum hydrocarbons were present in soil above the adopted soil assessment criteria. An investigation into groundwater contamination was also undertaken; laboratory analytical results indicated concentrations of petroleum hydrocarbons were also present in groundwater above the adopted groundwater assessment criteria, prompting the development of a remediation strategy.

2.2 Remediation of soil and groundwater

Remediation of soil and groundwater to remove petroleum related compounds was undertaken in 2007. Impacted soils were remediated by onsite land-farming of impacted soil. A pump and treat system was installed on site to treat impacted groundwater. The pump and treat system incorporated enhanced biodegradation and oxidation processes.

2.3 PFOS and PFOA

Laboratory analysis of groundwater samples for PFOS and PFOA was added to the sampling program in 2011, due to concerns relating to the historical use of these chemicals on site for training purposes, and the potential risks to human health and the environment posed by PFOS and PFOA.

The properties of PFOS and PFOA are summarised below:

- PFOS and PFOA are man-made chemicals comprising a carbon chain surrounded by fluorine atoms with an acid group at the end of the chain. They are also known as C8 perflurocarbons (PFCs), because molecule contains eight carbon atoms. PFCs have unique surfactant properties; they repel oil, grease and water. PFOS and PFOA are not naturally found in the environment. PFOS and PFOA are not volatile (ATSDR, 2009).
- PFOS and PFOA are resistant to biodegradation, photo-oxidation, direct photolysis and hydrolysis. They
 breakdown very slowly in air and are not known to breakdown in soil or water. They may undergo longrange transport and bio-accumulate within the food chain (ATSDR, 2009).

Products containing PFOS were known to cause detrimental impacts to the environment and a ban on the manufacture of PFOS was imposed in early 2000. In April 2003, the National Industrial Chemical Notification and Assessment Scheme (NICNAS) issued a PFOS alert and advised that AFFF products containing PFOS should not be used for training purposes.

PFOS and PFOA are listed on the Safe Work Australia, Hazardous Substances Information System (HSIS) as hazardous substances due to risks to human health.

3. Scope of works

The scope of works for the April 2015 GME comprised the following tasks:

- Preparation of a health, environment and safety plan (HESP) to protect human health and the environment during site works.
- Purging of groundwater monitoring wells using bailers and measurement of groundwater physiochemical parameters using a water quality meter.

PARSONS BRINCKERHOFF

- Collection of groundwater samples from five monitoring wells for laboratory analysis for the following contaminants typically associated with fire training activities:
 - ▶ Total petroleum hydrocarbons (TPH C₆-C₃₆)
 - Benzene, toluene, ethyl benzene, xylenes (BTEX)
 - Polycyclic aromatic hydrocarbons (PAHs)
 - Methylene blue active substances (MBAS) (indicator of anionic surfactants)
 - PFOS, PFOA and 6:2 FtS.
- Preparation of this letter report summarising the works undertaken, methodology used, and analytical results, with findings and recommendations.

4. Methodology

Five existing groundwater monitoring wells (BH6, BH7, BH9, BH12 and BH13) were sampled on 2 April 2015 using the methodology summarised in Table 4.1. The approximate locations of the groundwater monitoring wells are shown on Figure 2, Attachment A.

Activity	Details
Well Gauging	Monitoring wells were gauged using an oil/water interface probe (IP) prior to purging and sampling.
Sampling method	Dedicated disposable polyethylene bailers were used to collect groundwater samples. The 2013 NEPM which was finalised in April 2013 stipulates that use of low flow sampling is required for volatiles (i.e. TPH and BTEX). However due to the amount of water within the monitoring wells (less than 1m of water column), groundwater had to be sampled with bailers.
Well Purging	Wells were purged of five bore volumes, or until groundwater quality indicators stabilised after a minimum of three bore volumes were removed, or until the well was purged dry, whichever occurred first. Groundwater quality indicators were measured after removal of each bore volume.
Decontamination Procedure	All non-disposable sampling equipment (e.g. IP) was triple washed. The triple washing technique comprised washing equipment with water, scrubbing with phosphate free detergent (Decon 90) and potable water, followed by a final rinse with deionised water.
Sample Preservation	Samples were collected in laboratory supplied and appropriately preserved sample containers. Samples were stored on ice in a cooler while on-site and during transit to the laboratory. All samples were delivered and analysed within appropriate holding times.

Table 4.1 Groundwater assessment methodology

5. Groundwater assessment criteria

Assessing the concentrations of contaminants of concern requires appropriate assessment criteria. The site is located on airport property and the primary environmental legislation applicable for the site is:

 Airport (Environment Protection) Regulation 1997 – Accepted limit for Fresh Water, Water pollution accepted limits Schedule 2. Section 1.03 Table — accepted limits of contamination ("the Airport Regulation guidelines") Assessment criteria for TPH and BTEX are provided in the Airport Regulation guidelines and are presented for two categories:

- acceptable limits for fresh water
- acceptable limits for marine water.

Electrical conductivity measured during the GME ranged from 101 μ S/cm (BH7) to 352 μ S/cm (BH12) suggesting fresh water; as such, the assessment criteria for fresh water were adopted.

Where criteria are not available in the Airport Regulation guidelines for a contaminant of concern, the following guidelines have been referenced:

- National Environmental Protection Council (2013), National Environmental Protection (Assessment of Site Contamination) Measure (NEPM), Groundwater Investigation Levels (GILs), Fresh Waters (A).
- Minnesota Department of Health (MDH) (2008) Chronic Health Risk Limits (HRLs) for PFOS and PFOA in drinking water.

A summary of the adopted assessment criteria is provided in Table 5.1.

Analyte	Airport Regulations (1997) Freshwater (µg/L)	MDH (2008) HRLs (µg/L)	NEPC (2013) Freshwater GILs (μg/L)
TPH C ₆ -C ₉	150	NR	NR
TPH C ₁₀ -C ₃₆	600	NR	NR
Benzene	300	NR	NR
Toluene	300	NR	NR
Ethyl benzene	140	NR	NR
Xylene (o)	NC	NR	350
Xylene (p)	NC	NR	200
Total PAH	3	NR	NR
MBAS	NC	NC	NC
PFOS	NC	0.3	NR
PFOA	NC	0.3	NR
6:2 FtS	NC	NC	NC

Table 5.1 Groundwater assessment criteria

(1) 'NC' No investigation criteria available

(2) 'NR' Indicates guideline not referenced for a particular analyte as criteria already adopted from the Airport Regulations (1997).

6. Investigation results

6.1 Groundwater physiochemical measurements

Groundwater levels measured in April 2015 had increased by 600 mm to 1100 mm compared to groundwater levels measured in the September 2014 event which is reflective of the heavy rain events that occurred prior

to sampling. Groundwater levels on site have historically fluctuated. Historical depths to groundwater are included with the groundwater analytical results in Table 1, Attachment B.

Groundwater physiochemical measurements, recorded during the GME, are summarised in Table 6.1.

 Table 6.1
 Summary of groundwater conditions

Condition	Comments
Depth to Groundwater	 Standing water levels ranged between 0.191 meters below top-of-casing (mBTOC) (BH12) and 1.296 mBTOC (BH13). No light non-aqueous phase liquids (LNAPLs) were encountered.
Groundwater Occurrence	 No light for aqueous phase liquids (EVALES) were encodinered. Based on historical bore log data collected during well installation, it is considered that the shallow aquifer occurs within the natural sand at the site and is assumed to be recharged through infiltration of rainwater. The site is considered to be tidally influenced given its proximity to Cobaki Broadwater and the Coral Sea, and the groundwater level fluctuations observed for each monitoring event.
Hydraulic Conductivity	 Based on the sandy soil types encountered, the hydraulic conductivity of the underlying aquifer is expected to range from 1 x 10⁰ to 1 x10⁻⁵ cm/s (Freeze and Cherry, 1979).
Groundwater quality	 Electrical conductivity ranged from 101 µS/cm (BH7) to 352 µS/cm (BH12) indicating the groundwater is, based on salinity, potentially suitable for potable uses. The recorded electrical conductivity is considerably less than what had been recorded in the previous GME indicating potential rainwater infiltration. pH ranged from 3.45 (BH6) to 6.36 (BH12) indicating that the groundwater is acidic. Dissolved oxygen ranged between 3.22 parts per million (ppm) (BH12) to 5.25 ppm (BH6) indicating low to moderate dissolved oxygen concentrations. Redox potential ranged between – 110 mV (BH12) and 181 mV (BH9) indicating strongly to moderately reducing conditions. Temperature ranged from 23.1 °C (BH7) to 27.3 °C (BH12).

6.2 Groundwater analytical results

6.2.1 Summary of groundwater analytical results

The number of primary samples collected, analytes tested for, minimum/maximum analyte concentrations and those samples that exceeded the adopted investigation levels are summarised in Table 6.2.



No. of primary samples	Analyte	Min. Conc. (µg/L)	Max. Conc. (µg/L)	Sample locations exceeding investigation levels
Hydrocarbons				
5	TPH C ₆ -C ₉	<20	30	None
5	TPH C ₁₀ -C ₃₆	<50	420	None
5	BTEX	<1	19	None
5	Total PAHs	<0.5	<0.5	None
Surfactants				
5	PFOS	17.9	527	BH6, BH7, BH9, BH12, BH13
5	PFOA	2.23	37.1	BH6, BH7, BH9, BH12, BH13
5	6:2 FtS	<0.1	<0.1	No assessment criteria
5	MBAS	<2	3	No assessment criteria

Table 6.2 Summary of groundwater analytical results

A summary of historical and current groundwater analytical results is included as Table 1, Attachment B. Copies of laboratory analytical certificates are included in Attachment C.

6.2.2 Discussion of groundwater analytical results

6.2.2.1 TPH

- The concentration of TPH C₆-C₉ detected was below the laboratory practical quantification limit (PQL), which is below the adopted assessment criteria, in all monitoring wells with the exception of BH7 during the April 2015 GME.
- In the previous GME, the concentration of TPH C₆-C₉ was below the laboratory PQL (which is below the adopted assessment criteria).
- The concentration of TPH C₆-C₉ has remained below PQLs in 4 of the 5 monitoring wells with 1 monitoring well (i.e. BH7) increasing since the previous GME.
- The concentration of TPH C₁₀-C₃₆ detected in all monitoring wells was below the adopted assessment criteria
- In the previous GME, the concentrations of TPH C₁₀-C₃₆ detected in monitoring wells BH9 and BH12 exceeded the adopted assessment criteria.
- The concentration of TPH C₁₀-C₃₆ has decreased or remained below PQLs in monitoring wells BH9, BH12 and BH13, and increased in monitoring wells BH6 and BH7 since the previous GME.

6.2.2.2 BTEX

- In the April 2015 GME, toluene was detected in monitoring well BH7, however the concentration detected was below the adopted assessment criteria.
- In the previous GME the various BTEX compounds detected were below the laboratory practical quantification limits (PQLs), which were below the adopted assessment criteria, in all monitoring wells.



 The concentration of BTEX has increased in BH7 with the remaining 4 monitoring wells reporting below PQLs in all monitoring wells since the previous GME.

6.2.2.3 PAHs

- The concentration of PAHs was below the laboratory practical quantification limit (PQL) for all monitoring wells, which is below the adopted assessment criteria, in all monitoring wells for the April 2015 GME.
- In the previous GME, the concentrations of PAHs detected in monitoring wells BH12 and BH13 exceeded the adopted assessment criteria.
- The concentration of PAHs has decreased in monitoring well BH12 since the previous GME.

6.2.2.4 PFOS and PFOA

- The concentrations of PFOS and PFOA detected in all monitoring wells exceeded the adopted assessment criteria. The concentrations of PFOS and PFOA have exceeded the adopted assessment criteria in all previous GMEs.
- The detected concentrations of PFOS and PFOA decreased in monitoring wells BH9 and BH12 since the previous GME. The detected concentrations of PFOS and PFOA increased in monitoring wells BH6, BH7 and BH13 since the previous GME.

6.2.2.5 6:2 FtS

There is no assessment criterion with which to assess the concentration of 6:2 FtS.

The concentration of 6:2 FtS was below the laboratory PQL in all monitoring wells.

6.2.2.6 MBAS - anionic surfactant concentrations

MBAS is colorimetric analytical test method that uses methyl blue to detect the presence of anionic surfactants. This test covers a broad range of anionic surfactants (including, but not limited to, PFOS and PFOA), however the detection limit is relatively high compared to other analytical test methods. There is no assessment criterion with which to assess the concentration of MBAS.

- MBAS concentrations have decreased in monitoring wells BH6, BH9 and BH12 since the previous GME.
- The MBAS concentration in monitoring wells BH7 and BH13 has remained below the laboratory PQL for the two most recent GMEs.

7. Quality Assurance and Quality Controls

In accordance with AS4482.1-2005, quality assurance and quality control (QA/QC) samples were collected. Quality assurance sampling is detailed below:

Blind Duplicates – Blind duplicate samples were collected at a rate of one for every 20 samples collected. Blind duplicates are used to identify variation in analyte concentration between samples collected from the same sampling point and/or the repeatability of the laboratory analysis. The samples were submitted to the same laboratory for analysis. One blind duplicate was collected and submitted for analysis for this investigation.

- Split Duplicates Split duplicate samples were collected at a rate of one for every 20 samples collected. Split duplicates are used to provide a check on the analytical proficiency of the laboratories. The samples were submitted to a separate laboratory for analysis. One split duplicate was collected and submitted for analysis for this investigation.
- Rinsate Blanks Rinsate blanks are collected at a rate of one for each day of sampling. Rinsate blanks are used to provide confirmation cross-contamination of samples from sampling equipment has not occurred. One rinsate blank was collected and submitted for analysis for this investigation.
- **Trip Blanks** Trip blanks are collected at a rate of one for each group of samples shipped. Trip blanks are used to identify and estimate the amount of contamination introduced during the transport and storage of samples from the time of sampling to the time of analysis. One trip blank was prepared and submitted for analysis for this investigation.

Samples were given unique identification numbers containing the sample location and the date and time the sample was collected. All samples were recorded on the chain-of-custody (CoC) form at the time of sampling. The CoC form remained with the samples at all times during storage and transport to the laboratory. Samples were stored and transported on ice within insulated coolers with appropriate packaging to prevent breakage of the sample containers. Internal laboratory QA/QC procedures are provided within the laboratory reports. Table 7.1 provides a summary of the QA/QC data validation.

Data quality indicator	Completed	Comments
Precision	1	
Laboratory matrix duplicate RPDs within acceptable limits	Yes	Laboratory matrix RPDs were acceptable limits.
Blind duplicate and split duplicate RPDs within acceptable limits	Yes	All blind duplicate and split duplicate RPDs were below 50% with the exception of split duplicate for TPH C_{15} - C_{28} , See Table 2, Attachment B. As reported the split duplicate result for TPH C_{15} - C_{28} is blow the adopted assessment criteria and as such it is considered not to affect the outcome of the GME.
Accuracy		
Laboratory control spike sample recoveries reported within prescribed limits	Yes	Laboratory control spike sample recoveries were reported with prescribed limits
Matrix spike sample results reported within prescribed limits	Yes	All matrix spike sample results were reported within prescribed limits, however matrix spike recovery was not determined for. Perfluorinated Compounds within sample BH6, as the background level was greater than or equal to 4x spike level.
Surrogate spike sample results reported within prescribed limits	Yes	Surrogate spike sample results were reported within prescribed limits.
Laboratory method blanks reported within prescribed limits	Yes	Laboratory method blanks were reported within prescribed limits
All analyses NATA accredited	Yes	All analysis was undertaken by a NATA accredited laboratory.
Representativeness		
Samples delivered to laboratory within sample holding times, chilled and with correct	Yes	All samples were compliant with requirements of the testing laboratories. The samples for MBAS were extracted outside the holding time. However, there is no adopted assessment

Table 7.1 QA/QC data validation



Data quality indicator	Completed	Comments
preservative		criteria to assess against and as such this will not affect the outcome of the GME.
Required number of field duplicates and sample blanks taken	Yes	The correct number of sample duplicates and sample blanks were collected and analysed.
Sample blanks reported results below detection limits	Yes	All sample blanks reported concentrations below laboratory detection limits
Samples collected in accordance with regulatory and Parsons Brinckerhoff procedures	Yes	Refer to the methodology section of this report.
Comparability		
PQLs below the adopted assessment criteria	Yes	Laboratory PQL's were below the Airport (Environment Protection) Regulations 1997.
Qualified sampler	Yes	Samples collected by a suitably qualified and trained environmental scientist.
Completeness		
All laboratory data reviewed and presented in this report (i.e. COCs, SRNs, COAs and QCRs)	Yes	All laboratory data represented in this report has been reviewed.
All sample results reported	Yes	Refer to result summary Table 1, Attachment B.
Sample blanks data reported	Yes	Refer to result summary Table 2, Attachment B.
Relative percent differences (RPDs) calculated	Yes	Refer to result summary Table 2, Attachment B.
NATA stamp on reports	Yes	All laboratory reports have a NATA stamp.

Parsons Brinckerhoff considers the sample collection, documentation; handling, storage and transportation procedures used in this investigation are of an acceptable standard. The analytical results provided by the laboratories (ALS and Envirolab) are deemed reliable based on the results of field and laboratory QA/QC samples which demonstrated an adequate level of precision and accuracy.

The analytical data reported is considered acceptable for the purpose of this report.

8. Duty to notify

With respect to the duty to notify, refer to the previous GME reports.

9. Summary and Conclusions

The following summary and conclusions are based on the findings of this GME:

Detected concentrations of TPH C₆-C₉ are below the level of detection for all monitoring wells with the exception of BH7 which only marginally exceeded the detection limit since the previous GME. There were no exceedences of the adopted assessment criteria for TPH C₆-C_{9.}

- Detected concentrations of BTEX are below the level of detection for all monitoring wells with the
 exception of toluene in BH7 since the previous GME. There were no exceedences of the adopted
 assessment criteria for BTEX.
- The concentration of TPH C₁₀-C₃₆ has decreased or remained below PQLs in monitoring wells BH9, BH12 and BH13, and increased in monitoring wells BH6 and BH7 since the previous GME. There were no exceedences of the adopted assessment criteria.
- The detected concentrations of PFOS and PFOA decreased in monitoring wells BH9 and BH12 since the previous GME. The detected concentrations of PFOS and PFOA increased in monitoring wells BH6, BH7 and BH13 since the previous GME. The concentrations PFOS and PFOA detected in all monitoring wells exceeded the adopted assessment criteria.
- The concentration of MBAS decreased and 6:2 FtS was below the detection limit in all monitoring wells.
- Detected concentrations of PAHs have decreased in monitoring well BH12 since the previous GME. The concentration of PAHs detected in all monitoring wells were below the detection limit which in turn are below the adopted assessment criteria.
- Concentrations of TRH C₁₀-C₃₆, PFOS, PFOA and PAHs are higher in monitoring wells located to the west of the fire training ground (BH9 and BH12) than they are in monitoring wells located to the east of the fire training ground (BH6, BH7 and BH13).
- Elevated concentrations of PFOS and PFOA, above the adopted assessment criteria, are present in all
 monitoring wells and the extent of which has not been delineated in any direction.
- Groundwater flow direction and tidal influences on the area have not been determined.
- Ongoing use of the site for fire training may be affecting the configuration and migration rate of the dissolved phase contaminant plume.
- The rain events that occurred prior to the GME may have influenced the contaminant concentrations as a result of the infiltration process.

10. Recommendations

Parsons Brinckerhoff recommends the following:

- Additional monitoring wells should be installed to delineate the extent of PFOS and PFOA impacts in the groundwater underlying the site.
- Six-monthly GMEs should be continued, to provide further information regarding the trends of PFOS PFOA, TPH C₁₀-C₃₆ and PAHs concentrations.
- Surface water and sediment samples should be collected from the drainage ditch to the east of the site and assessed for PFOS/PFOA.
- The top-of-casing elevation (mAHD) and location (easting and northing) of monitoring wells at the site should be surveyed by a licensed surveyor so the groundwater flow direction can be determined.

Given that the PFOS and PFOA impacts identified in monitoring wells have not been delineated, Parsons Brinckerhoff recommends undertaking further works to identify the extent of the impact.



Yours sincerely

Michelleham

Michelle Pham Senior nvironmental Scientist Contaminated Land Management

Encl: Attachment A - Figures Attachment B - Groundwater results and QA/QC results summary tables Attachment C - Laboratory analytical certificates

11. References

- Airport (Environment Protection) Regulation 1997.
- ATSDR (2009), Draft Toxicological Profile for Perfluroalkyls, Agency for Toxic Substances and Disease Registry, May 2009.
- Department of Environment and Heritage Protection (EHP), August 2014, Guideline: Contaminated Land Professionals.
- EHP, July 2014, Contaminated Land Assessment Guideline.
- Environment Canada (2006) Ecological Screening Assessment Report on Perflurooctane Sulfonate, Its Salts and Its Precursors that Contain the C8F17SO2 or C8F17SO3, or C8F17SO2N Moiety.
- Minnesota Department of Health (2008) Health Risk Limits for Perfl uorochemicals, Report to Minnesota Legislature 2008, Final Report
- National Environment Protection Council (NEPC) National Environment Protection (Assessment of Site Contamination) Measure (NEPM), Schedule B (1) Guideline on the Investigation Levels for Soil and Groundwater, Amendment Measure 2013 (No. 1).
- Safe Work Australia, Hazardous Substances Information System (HSIS). (Available <u>www.hsis.safeworkaustralia.gov.au</u>, accessed 20 October 2014).
- U.S. Department of Health and Public Services, Agency for Toxic Substances and Disease Registry, Draft Toxicological profile for Perfluoroalkyls, May 2009. (Available <u>www.atsdr.cdc.gov</u>, accessed 20 October 2014).
- 3M (1999). The science of organic fluorochemistry. 3M Company, February 5, 1999.



12. Statement of limitations

12.1 Scope of services

This environmental site assessment report (the report) has been prepared in accordance with the scope of services set out in the contract, or as otherwise agreed, between the client and Parsons Brinckerhoff (scope of services). In some circumstances the scope of services may have been limited by a range of factors such as time, budget, access and/or site disturbance constraints.

12.2 Reliance on data

In preparing the report, Parsons Brinckerhoff has relied upon data, surveys, analyses, designs, plans and other information provided by the client and other individuals and organisations, most of which are referred to in the report (the data). Except as otherwise stated in the report, Parsons Brinckerhoff has not verified the accuracy or completeness of the data. To the extent that the statements, opinions, facts, information, conclusions and/or recommendations in the report (conclusions) are based in whole or part on the data, those conclusions are contingent upon the accuracy and completeness of the data. Parsons Brinckerhoff will not be liable in relation to incorrect conclusions should any data, information or condition be incorrect or have been concealed, withheld, misrepresented or otherwise not fully disclosed to Parsons Brinckerhoff.

12.3 Environmental conclusions

In accordance with the scope of services, Parsons Brinckerhoff has relied upon the data and has conducted environmental field monitoring and/or testing in the preparation of the report. The nature and extent of monitoring and/or testing conducted is described in the report.

On all sites, varying degrees of non-uniformity of the vertical and horizontal soil or groundwater conditions are encountered. Hence no monitoring, common testing or sampling technique can eliminate the possibility that monitoring or testing results/samples are not totally representative of soil and/or groundwater conditions encountered. The conclusions are based upon the data and the environmental field monitoring and/or testing and are therefore merely indicative of the environmental condition of the site at the time of preparing the report, including the presence or otherwise of contaminants or emissions.

Also, it should be recognised that site conditions, including the extent and concentration of contaminants, can change with time.

Within the limitations imposed by the scope of services, the monitoring, testing, sampling and preparation of this report have been undertaken and performed in a professional manner, in accordance with generally accepted practices and using a degree of skill and care ordinarily exercised by reputable environmental consultants under similar circumstances. No other warranty, expressed or implied, is made.

12.4 Report for benefit of client

The report has been prepared for the benefit of the client and no other party. Parsons Brinckerhoff assumes no responsibility and will not be liable to any other person or organisation for or in relation to any matter dealt with or conclusions expressed in the report, or for any loss or damage suffered by any other person or organisation arising from matters dealt with or conclusions expressed in the report (including without limitation matters arising from any negligent act or omission of Parsons Brinckerhoff or for any loss or damage suffered by any other party relying upon the matters dealt with or conclusions expressed in the report). Other parties should not rely upon the report or the accuracy or completeness of any conclusions and should make their own enquiries and obtain independent advice in relation to such matters.



12.5 Other limitations

Parsons Brinckerhoff will not be liable to update or revise the report to take into account any events or emergent circumstances or facts occurring or becoming apparent after the date of the report.

The scope of services did not include any assessment of the title to or ownership of the properties, buildings and structures referred to in the report nor the application or interpretation of laws in the jurisdiction in which those properties, buildings and structures are located.

Attachment A

Figures

PARSONS BRINCKERHOFF







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Figure 2. Groundwater Monitoring Well Locations

Attachment B

Groundwater results and QA/QC results summary tables

PARSONS BRINCKERHOFF

Table 1: Summary of historical and current data

Groundwater monitoring event

Fire Training Grounds, Gold Coast Airport, QLD Current GME Date: 2 April 2015

Project No. 2171302F

	An	alytes			Total Pet	roleum Hydr	ocarbons			BT	EX		PAHs	Γ	Surfa	ctants	
Sample ID	Date Sampled	Casing Height (mAGL)	Depth to groundwater (mBTOC)	С6-С9 (µg/L)	C10-C14 (µg/L)	C15- C28 (µg/L)	C29-C36 (µg/L)	С10-С36 (µg/L)	Benzene (µg/L)	Toluene (μg/L)	Ethyl benzene (µg/L)	Total Xylene (µg/L)	Total PAHs (µg/L)	PFOS (µg/L)	PFOA (μg/L)	MBAS (µg/L)	6:2 FtS (µg/L)
Airport (Il Protectio	n) Regulations	150		No Criteria		600	300	300	140	No criteria	3	No criteria	No criteria	No criteria	No criteria
Mir	nessota Depar	tment of H	ealth 2008	NR		NR		NR	NR	NR	NR	NR	NR	0.3	0.3	NR	NR
BH06 BH6 BH6 BH6 BH6 BH6 BH6 BH6 BH6	13/01/2009 5/01/2011 14/07/2011 20/01/2012 17/07/2012 10/12/2012 2/08/2013 12/12/2013 5/09/2014	0.13	0.690 0.543 0.840 0.555 0.464 1.175 0.645 1.358 1.079	<20 <20 <40 <20 <20 <20 <20 <20 <20 <20	<50 <50 <50 <50 <50 <50 <50 200 <50	<100 <100 <100 110 <100 110 320 <100	<50 <50 <100 <50 <50 <50 <50 80 <50	<200 <200 <250 <200 110 <200 110 600 <50	- - - <1 <1 <1 <1 <1 <1 <1	- - - <2 <2 <2 <2 <2 <2 <2 <2 <2	- - - - - - - - - - - - - - - - - - -	- - - <2 <2 <2 <2 <2 <2 <2 <2	- - - - <0.5 - <0.5 <0.5 <0.5	6.99 VB 13.9 18.2 13.6 24.5 12.6 5.2	0.81 VB 1.1 1.72 0.9 3.35 3.16 0.40	- - - 2,500 <100 <100 <100 500	- - - - - - - - - - - - - - - - - - -
BH6 BH7 BH7 BH7 BH7 BH7 BH7	2/04/2015 19/09/1999 9/02/2000 6/07/2000 14/10/2003 15/10/2005		0.278 - - - - Well dry, no sam	<20 - - - 26 ple could be c	<50 860 80 186 60	160 44,600 4,350 303 767	110 17,900 1,910 - 578	270 63,360 6,340 489 1,405	<1 - - - -	<2 - - - -	<2 - - - -	<2 - - - -	<0.5 - - - -	38.8 - - - -	2.23 - - -	3 - - - -	<1.0 - - - -
BH7 BH7 BH7 BH7 BH7 BH7 BH7 BH7 BH7 BH7	24/03/2006 7/07/2006 3/05/2007 11/12/2007 19/06/2008 13/07/2009 11/02/2010 11/02/2010 11/02/2010 14/07/2011 20/01/2012 17/07/2012 10/12/2013 12/12/2013 5/09/2014 2/04/2015	0.13	0.830 0.930 0.920 0.990 0.655 0.720 0.890 0.790 0.890 0.645 0.595 1.185 0.710 1.455 1.046 0.449	 <20 <5 <20 <20	 <20 <20 <55 <40 <40 <50 	<100 <20 <100 <100 <100 <50 <100 <100 <100 <100	<100 <20 <100 <100 <50 200 <100 <50 <50 70 <50 <50 <50 60	<220 <60 55 <240 <200 <200 340 <200 200 200 100 70 <200 50 <50 450 160	- - - - - - - - - - - - - - - - - - -								
BH9 BH9 BH9 BH9 BH9 BH9 BH9 BH9 BH9	5/01/2011 14/07/2011 20/01/2012 17/07/2012 12/12/2012 2/08/2013 12/12/2013 5/09/2014 2/04/2015	-0.012	0.539 0.970 0.645 1.380 0.745 1.500 1.357 0.276	<20 <20 <20 <20 <20 <20 <20 <20 <20 <20	<50 <50 <50 <50 <50 <50 <50 330 <50	<100 <100 <100 <100 <100 <100 <100 360 <100	<50 <100 <50 <50 <50 <50 <50 <50 <50 <50	<200 <250 <200 <200 <200 <200 <50 690 <50		- - <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	- - <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	- - 2 2 2 2 2 2 2 2 2 2 2 2 2 2	- - - <0.5 <0.5 <0.5 <0.5 <0.5	399 23.4 94.5 379 24.2 335 31.8 526 196	12.7 3.03 8.7 2.78 2.79 5.71 1.34 9.08 4.50	- - 500 <100 600 100 1,300 1	- <0.1 <0.01 <0.1 <0.1 0.5 <1.0
BH12 BH12 BH12 BH12 BH12 BH12 BH12 BH12	11/10/2005 24/03/2006 7/07/2006 3/05/2007 11/12/2007 19/06/2008 13/01/2009 13/07/2009 11/02/2010 5/10/2010 5/01/2011 20/01/2012 17/07/2012 10/12/2012 2/08/2013 12/12/2013 5/09/2014 2/04/2015	-0.07	$\begin{array}{c} 1.320\\ 2.500\\ 2.100\\ 1.350\\ 1.080\\ 0.580\\ 0.580\\ 0.680\\ 1.165\\ 0.470\\ 0.448\\ 0.890\\ 0.555\\ 0.362\\ 1.290\\ 0.656\\ 1.410\\ 1.286\\ 0.191\\ 1.670\end{array}$	<20 <20 <5 <20 130 77 40 30 20 30 <20 20 40 50 60 20 <20 <20 20	200 380 250 370 610 500 1,140 360 590 320 500 200 220 530 440 640 690 280 130 240	168 294 297 193 290 380 500 600 220 970 200 220 360 400 410 1,150 550 240	<100 <20 <100 <100 <100 80 70 <50 <50 <50 <50 <50 <50 <50 <50 <50 <5	368 674 547 563 900 880 1,720 930 1,190 540 1,650 440 440 440 890 840 1,050 1,930 920 420	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - 2,200 2,200 - 1,700 1,600 1	- - - - - - - - - - - - - - - - - - -						
BH13 BH13 BH13 BH13 BH13 BH13 BH13 BH13	11/10/2005 24/03/2006 3/10/2006 3/05/2007 11/12/2007 19/06/2008 13/01/2009 13/07/2009 11/02/2010 5/10/2010 5/01/2011 14/07/2011 17/07/2012 10/12/2012 2/08/2013 12/12/2013	0.74	1.670 1.000 1.420 1.250 1.330 0.945 1.070 1.020 1.290 1.410 1.546 1.840 1.557 1.490 2.220 1.467 2.385	220 90 50 <20 22 50 100 50 <20 <20 <20 <20 <20 200 <20 320	340 140 340 <20 <40 120 250 <50 440 <50 440 <50 220 230 100 4,880	129 <100 <100 <100 <100 <100 <100 <100 <10	<100 <100 <100 <100 <100 <50 <50 <50 <50 <50 <50 <50 <50 <50 <	469 140 340 <220 <240 220 250 <200 2 50 <200 1,010 <250 <200 4 20 230 230 7,640	- - - - - - - - - - - - - 1 - 18	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - 25 10 <2 38	- - - - - - - - - - - - - - 131 3 186	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - 200 200 <100 200	- - - - - - - - - - - - - - - - - - -

BH13	12/12/2013	2.385	320	4,880	2,610	150	7,640	18	<2	38	186	12.9	26.1	1.89	200	<0.1
BH13	5/09/2014	2.075	<20	130	280	140	550	<1	<2	<2	<2	<0.5	14.7	1.5	<200	<0.1
BH13	2/04/2015	1.296	<20	<50	120	80	200	<1	<2	<2	<2	<0.5	17.9	37.1	<2.0	<1.0

Notes

All units are in ug/L

mAGL metres above ground level mBTOC metres below top of groundwater well casing

Results Items shaded and bold exceed Airport (Environmental Protection) Regulations 1997, Schedule 2 Freshwater **Results** Items shaded and bold exceed Minnesota Department of Health, 2008

- VB Indicates sample vessel broken
- Indicates not analysed -
- NR Not referenced

Attachment C

Laboratory analytical certificates



CERTIFICATE OF ANALYSIS

Work Order	EB1516017	Page	: 1 of 6
Client	: WSP ENVIRONMENTAL PTY LTD	Laboratory	Environmental Division Brisbane
Contact	: MR IVAN NERALIC	Contact	: Jodie Hancock
Address	: 1 GARDNER CLOSE	Address	: 2 Byth Street Stafford QLD Australia 4053
	MILTON QLD, AUSTRALIA 4064		
E-mail	: ivan.neralic@wspgroup.com	E-mail	: Jodie.Hancock@alsenviro.com
Telephone	: +61 3368 6600	Telephone	: +61 7 3552 8654
Facsimile	: +61 07 33674399	Facsimile	: +61-7-3243 7218
Project	: Airservices GME Gold Coast Airport	QC Level	: NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Order number	: 2171302E	Date Samples Received	: 02-Apr-2015 16:15
C-O-C number	:	Date Analysis Commenced	: 07-Apr-2015
Sampler	: MICHAEL AITKEN	Issue Date	: 13-Apr-2015 12:42
Site	:		
		No. of samples received	: 8
Quote number	:	No. of samples analysed	: 8

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Signatories NATA Accredited Laboratory 825 This document has been electronically signed by the authorized signatories indicated below. Electronic signing has been carried out in compliance with procedures specified in 21 CFR Part 11. Accredited for compliance with ΝΑΤΑ ISO/IEC 17025. Signatories Position Accreditation Category Alex Rossi **Organic Chemist** Sydney Organics Andrew Epps Senior Inorganic Chemist Brisbane Inorganics WORLD RECOGNISED Senior Organic Chemist Matt Frost **Brisbane Organics** ACCREDITATION 2IC Organic Instrument Chemist **Brisbane Organics** Ryan Story



General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society. LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

- ø = ALS is not NATA accredited for these tests.
- EP050 (Anionic Surfactants as MBAS): Samples BH7; BH13 were diluted due to matrix interference. LOR adjusted accordingly.
- EP231: Particular samples required dilution due to matrix interferences. LOR values have been adjusted accordingly.
- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero.
- PFOS and PFOA results are reported as an aggregate of linear and branched isomers.

Page : 3 of 6 Work Order : EB1516017 Client : WSP ENVIRONMENTAL PTY LTD Project : Airservices GME Gold Coast Airport



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)		Clie	ent sample ID	BH6	BH7	BH9	BH12	BH13
	Cl	ient samplii	ng date / time	[02-Apr-2015]	[02-Apr-2015]	[02-Apr-2015]	[02-Apr-2015]	[02-Apr-2015]
Compound	CAS Number	LOR	Unit	EB1516017-001	EB1516017-002	EB1516017-003	EB1516017-004	EB1516017-005
				Result	Result	Result	Result	Result
EP050: Anionic Surfactants as MBAS								
Anionic Surfactants as MBAS		0.1	mg/L	3.4	<2.0	0.6	0.9	<2.0
EP075(SIM)B: Polynuclear Aromatic H	vdrocarbons							
Naphthalene	91-20-3	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthylene	208-96-8	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthene	83-32-9	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Fluorene	86-73-7	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Phenanthrene	85-01-8	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Anthracene	120-12-7	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Fluoranthene	206-44-0	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Pyrene	129-00-0	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Benz(a)anthracene	56-55-3	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Chrysene	218-01-9	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(k)fluoranthene	207-08-9	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Dibenz(a.h)anthracene	53-70-3	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(g.h.i)perylene	191-24-2	1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Sum of polycyclic aromatic hydrocarbon	s	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ (zero)		0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
EP080/071: Total Petroleum Hydrocarb	oons							
C6 - C9 Fraction		20	µg/L	<20	30	<20	<20	<20
C10 - C14 Fraction		50	µg/L	<50	<50	<50	130	<50
C15 - C28 Fraction		100	µg/L	160	100	<100	240	120
C29 - C36 Fraction		50	µg/L	110	60	<50	50	80
C10 - C36 Fraction (sum)		50	µg/L	270	160	<50	420	200
EP080/071: Total Recoverable Hydroca	arbons - NEPM 201	3 Fractio	ns					
C6 - C10 Fraction	C6_C10	20	µg/L	<20	40	<20	<20	<20
C6 - C10 Fraction minus BTEX	C6_C10-BTEX	20	µg/L	<20	20	<20	<20	<20
(F1)								
>C10 - C16 Fraction	>C10_C16	100	µg/L	<100	<100	<100	200	<100
>C16 - C34 Fraction		100	µg/L	250	140	<100	220	170
>C34 - C40 Fraction		100	µg/L	<100	<100	<100	<100	<100
>C10 - C40 Fraction (sum)		100	µg/L	250	140	<100	420	170

Page	: 4 of 6
Work Order	: EB1516017
Client	: WSP ENVIRONMENTAL PTY LTD
Project	Airservices GME Gold Coast Airport



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)		Clie	ent sample ID	BH6	BH7	BH9	BH12	BH13
	Cli	ient sampli	ng date / time	[02-Apr-2015]	[02-Apr-2015]	[02-Apr-2015]	[02-Apr-2015]	[02-Apr-2015]
Compound	CAS Number	LOR	Unit	EB1516017-001	EB1516017-002	EB1516017-003	EB1516017-004	EB1516017-005
				Result	Result	Result	Result	Result
P080/071: Total Recoverable Hydroca	rbons - NEPM 201	3 Fractio	ns - Continued					
>C10 - C16 Fraction minus Naphthalene		100	μg/L	<100	<100	<100	200	<100
(F2)								
P080: BTEXN								
Benzene	71-43-2	1	µg/L	<1	<1	<1	<1	<1
Toluene	108-88-3	2	µg/L	<2	19	<2	<2	<2
Ethylbenzene	100-41-4	2	µg/L	<2	<2	<2	<2	<2
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	<2	<2	<2
ortho-Xylene	95-47-6	2	µg/L	<2	<2	<2	<2	<2
Total Xylenes	1330-20-7	2	µg/L	<2	<2	<2	<2	<2
Sum of BTEX		1	μg/L	<1	19	<1	<1	<1
Naphthalene	91-20-3	5	μg/L	<5	<5	<5	<5	<5
P231: Perfluorinated Compounds								
PFOS	1763-23-1	0.02	µg/L	38.8	23.4	196	527	17.9
PFOA	335-67-1	0.02	μg/L	2.23	3.57	4.50	15.0	37.1
6:2 Fluorotelomer sulfonate (6:2	27619-97-2	0.1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
FtS)								
8:2 Fluorotelomer sulfonate	39108-34-4	0.1	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
P075(SIM)S: Phenolic Compound Sur	rogates							
Phenol-d6	13127-88-3	1	%	26.6	26.5	27.2	27.5	27.0
2-Chlorophenol-D4	93951-73-6	1	%	62.6	68.4	68.1	67.7	67.3
2.4.6-Tribromophenol	118-79-6	1	%	87.1	94.8	90.5	99.5	99.3
P075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	1	%	63.2	68.0	72.5	77.4	72.8
Anthracene-d10	1719-06-8	1	%	75.5	79.6	81.4	84.6	83.2
4-Terphenyl-d14	1718-51-0	1	%	78.2	85.6	87.2	89.8	87.9
P080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	2	%	117	116	122	120	124
Toluene-D8	2037-26-5	2	%	94.5	93.0	92.6	94.7	89.0
4-Bromofluorobenzene	460-00-4	2	%	89.7	89.3	87.1	88.4	85.5
Page	5 of 6							
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Work Order	: EB1516017							
Client	: WSP ENVIRONMENTAL PTY LTD							
Project	 Airservices GME Gold Coast Airport 							



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)		Clie	ent sample ID	QC01a	QC02	QC03		
	Cli	ent sampli	ng date / time	[02-Apr-2015]	[02-Apr-2015]	[02-Apr-2015]		
Compound	CAS Number	LOR	Unit	EB1516017-006	EB1516017-007	EB1516017-008		
				Result	Result	Result	Result	Result
EP050: Anionic Surfactants as MBAS								
Anionic Surfactants as MBAS		0.1	mg/L	0.8				
EP075(SIM)B: Polynuclear Aromatic H	vdrocarbons							
Naphthalene	91-20-3	1	µg/L	<1.0	<1.0			
Acenaphthylene	208-96-8	1	µg/L	<1.0	<1.0			
Acenaphthene	83-32-9	1	µg/L	<1.0	<1.0			
Fluorene	86-73-7	1	µg/L	<1.0	<1.0			
Phenanthrene	85-01-8	1	µg/L	<1.0	<1.0			
Anthracene	120-12-7	1	µg/L	<1.0	<1.0			
Fluoranthene	206-44-0	1	µg/L	<1.0	<1.0			
Pyrene	129-00-0	1	µg/L	<1.0	<1.0			
Benz(a)anthracene	56-55-3	1	µg/L	<1.0	<1.0			
Chrysene	218-01-9	1	µg/L	<1.0	<1.0			
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1	µg/L	<1.0	<1.0			
Benzo(k)fluoranthene	207-08-9	1	µg/L	<1.0	<1.0			
Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	<0.5			
Indeno(1.2.3.cd)pyrene	193-39-5	1	µg/L	<1.0	<1.0			
Dibenz(a.h)anthracene	53-70-3	1	µg/L	<1.0	<1.0			
Benzo(g.h.i)perylene	191-24-2	1	µg/L	<1.0	<1.0			
^ Sum of polycyclic aromatic hydrocarbon	s	0.5	µg/L	<0.5	<0.5			
^ Benzo(a)pyrene TEQ (zero)		0.5	µg/L	<0.5	<0.5			
EP080/071: Total Petroleum Hydrocart	oons							
C6 - C9 Fraction		20	µg/L	<20	<20	<20		
C10 - C14 Fraction		50	µg/L	170	<50			
C15 - C28 Fraction		100	µg/L	290	<100			
C29 - C36 Fraction		50	µg/L	60	<50			
^ C10 - C36 Fraction (sum)		50	µg/L	520	<50			
EP080/071: Total Recoverable Hydroca	arbons - NEPM 201	3 Fractio	าร					
C6 - C10 Fraction	C6_C10	20	μg/L	<20	<20	<20		
[^] C6 - C10 Fraction minus BTEX	C6 C10-BTEX	20	μg/L	<20	<20	<20		
(F1)	-							
>C10 - C16 Fraction	>C10_C16	100	µg/L	260	<100			
>C16 - C34 Fraction		100	µg/L	270	<100			
>C34 - C40 Fraction		100	µg/L	<100	<100			
^ >C10 - C40 Fraction (sum)		100	µg/L	530	<100			

Page	: 6 of 6
Work Order	: EB1516017
Client	: WSP ENVIRONMENTAL PTY LTD
Project	Airservices GME Gold Coast Airport



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)	Client sample ID		QC01a	QC02	QC03			
	Client sampling date / time			[02-Apr-2015]	[02-Apr-2015]	[02-Apr-2015]		
Compound	CAS Number	LOR	Unit	EB1516017-006	EB1516017-007	EB1516017-008		
				Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydroca	arbons - NEPM 201	3 Fractio	ns - Continued					
^ >C10 - C16 Fraction minus Naphthalene		100	μg/L	260	<100			
(F2)								
EP080: BTEXN								
Benzene	71-43-2	1	µg/L	<1	<1	<1		
Toluene	108-88-3	2	µg/L	<2	<2	<2		
Ethylbenzene	100-41-4	2	µg/L	<2	<2	<2		
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	<2		
ortho-Xylene	95-47-6	2	µg/L	<2	<2	<2		
^ Total Xylenes	1330-20-7	2	µg/L	<2	<2	<2		
Sum of BTEX		1	µg/L	<1	<1	<1		
Naphthalene	91-20-3	5	µg/L	<5	<5	<5		
EP231: Perfluorinated Compounds								
PFOS	1763-23-1	0.02	μg/L					
PFOA	335-67-1	0.02	µg/L					
6:2 Fluorotelomer sulfonate (6:2	27619-97-2	0.1	µg/L					
FtS)								
8:2 Fluorotelomer sulfonate	39108-34-4	0.1	µg/L					
EP075(SIM)S: Phenolic Compound Su	rrogates							
Phenol-d6	13127-88-3	1	%	30.3	22.6			
2-Chlorophenol-D4	93951-73-6	1	%	74.2	62.0			
2.4.6-Tribromophenol	118-79-6	1	%	107	91.9			
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	1	%	79.2	65.7			
Anthracene-d10	1719-06-8	1	%	89.5	77.0			
4-Terphenyl-d14	1718-51-0	1	%	94.0	87.3			
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	2	%	97.2	104	101		
Toluene-D8	2037-26-5	2	%	81.8	95.5	94.5		
4-Bromofluorobenzene	460-00-4	2	%	96.5	100.0	97.2		



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

CERTIFICATE OF ANALYSIS

126267

Client: WSP Environment & Energy QLD 1 Gardner Cl Milton QLD 4064

Attention: Michael Aitken

Sample log in details:

Your Reference:	2171302E		
No. of samples:	1 Water		
Date samples received / completed instructions received	09/04/15	/	09/04/15

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data. Samples were analysed as received from the client. Results relate specifically to the samples as received. Results are reported on a dry weight basis for solids and on an as received basis for other matrices. *Please refer to the last page of this report for any comments relating to the results.*

Report Details:

 Date results requested by: / Issue Date:
 16/04/15
 / 16/04/15

 Date of Preliminary Report:
 Not Issued

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Tests not covered by NATA are denoted with *.

Results Approved By:

Jacinta/Hurst

Laboratory Manager



vTRH(C6-C10)/BTEXN in Water		
Our Reference:	UNITS	126267-1
Your Reference		QC01b
Date Sampled		02/04/2015
Type of sample		Water
Date extracted	-	09/04/2015
Date analysed	-	10/04/2015
TRHC6 - C9	µg/L	<10
TRHC6 - C10	µg/L	<10
TRHC6 - C10 less BTEX (F1)	µg/L	<10
Benzene	µg/L	<1
Toluene	µg/L	<1
Ethylbenzene	µg/L	<1
m+p-xylene	µg/L	<2
o-xylene	µg/L	<1
Naphthalene	µg/L	<1
Surrogate Dibromofluoromethane	%	108
Surrogate toluene-d8	%	94
Surrogate 4-BFB	%	97

svTRH (C10-C40) in Water		
Our Reference:	UNITS	126267-1
Your Reference		QC01b
Date Sampled		02/04/2015
Type of sample		Water
Date extracted	-	10/04/2015
Date analysed	-	10/04/2015
TRHC 10 - C14	μg/L	91
TRHC 15 - C28	µg/L	140
TRHC29 - C36	µg/L	<100
TRH>C10 - C16	µg/L	130
TRH>C10 - C16 less Naphthalene (F2)	µg/L	130
TRH>C16 - C34	μg/L	<100
TRH>C34 - C40	μg/L	<100
Surrogate o-Terphenyl	%	81

PAHs in Water		
Our Reference:	UNITS	126267-1
Your Reference		QC01b
Date Sampled		02/04/2015
Type of sample		Water
Date extracted	-	10/04/2015
Date analysed	-	10/04/2015
Naphthalene	µg/L	<1
Acenaphthylene	µg/L	<1
Acenaphthene	µg/L	<1
Fluorene	µg/L	<1
Phenanthrene	µg/L	<1
Anthracene	µg/L	<1
Fluoranthene	µg/L	<1
Pyrene	µg/L	<1
Benzo(a)anthracene	µg/L	<1
Chrysene	µg/L	<1
Benzo(b,j+k)fluoranthene	µg/L	<2
Benzo(a)pyrene	µg/L	<1
Indeno(1,2,3-c,d)pyrene	µg/L	<1
Dibenzo(a,h)anthracene	µg/L	<1
Benzo(g,h,i)perylene	µg/L	<1
Benzo(a)pyrene TEQ	µg/L	<5
Total +ve PAH's	µg/L	NIL(+)VE
Surrogate p-Terphenyl-d14	%	70

Miscellaneous Inorganics		
Our Reference:	UNITS	126267-1
Your Reference		QC01b
Date Sampled		02/04/2015
Type of sample		Water
Date prepared	-	16/04/2015
Date analysed	-	16/04/2015
M.B.A.S Methylene Blue Active Substances	mg/L	0.13

MethodID	Methodology Summary
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-013	Water samples are analysed directly by purge and trap GC-MS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-012 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Ext-044	Analysed by LabPoint NATA accreditation 11111.

QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate	Duplicate results	Spike Sm#	Spike %
vTRH(C6-C10)/BTEXNin	UNITS	FQL		Dial IK	Sm#	Base II Duplicate II %RPD	Spike Sill#	Recovery
Water								
Date extracted	-			09/04/2	[NT]	[NT]	LCS-W1	09/04/2015
				015				
Date analysed	-			10/04/2 015	[NT]	[NT]	LCS-W1	10/04/2015
TRHC6 - C9	µg/L	10	Org-016	<10	[NT]	[NT]	LCS-W1	112%
TRHC6 - C10	µg/L	10	Org-016	<10	[NT]	[NT]	LCS-W1	112%
Benzene	µg/L	1	Org-016	<1	[NT]	[NT]	LCS-W1	117%
Toluene	µg/L	1	Org-016	<1	[NT]	[NT]	LCS-W1	115%
Ethylbenzene	µg/L	1	Org-016	<1	[NT]	[NT]	LCS-W1	109%
m+p-xylene	µg/L	2	Org-016	~2	[NT]	[NT]	LCS-W1	109%
o-xylene	µg/L	1	Org-016	<1	[NT]	[NT]	LCS-W1	109%
Naphthalene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
<i>Surrogate</i> Dibromofluoromethane	%		Org-016	100	[NT]	[NT]	LCS-W1	99%
Surrogate toluene-d8	%		Org-016	96	[NT]	[NT]	LCS-W1	100%
Surrogate 4-BFB	%		Org-016	96	[NT]	[NT]	LCS-W1	96%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
svTRH (C10-C40) in Water						Base II Duplicate II %RPD		
Date extracted	-			10/04/2 015	126267-1	10/04/2015 10/04/2015	LCS-W1	10/04/2015
Date analysed	-			10/04/2 015	126267-1	10/04/2015 10/04/2015	LCS-W1	10/04/2015
TRHC 10 - C 14	µg/L	50	Org-003	<50	126267-1	91 120 RPD:27	LCS-W1	93%
TRHC 15 - C28	µg/L	100	Org-003	<100	126267-1	140 280 RPD:67	LCS-W1	85%
TRHC29 - C36	µg/L	100	Org-003	<100	126267-1	<100 <100	LCS-W1	81%
TRH>C10 - C16	µg/L	50	Org-003	<50	126267-1	130 170 RPD:27	LCS-W1	93%
TRH>C16 - C34	µg/L	100	Org-003	<100	126267-1	<100 220	LCS-W1	85%
TRH>C34 - C40	µg/L	100	Org-003	<100	126267-1	<100 <100	LCS-W1	81%
Surrogate o-Terphenyl	%		Org-003	75	126267-1	81 71 RPD:13	LCS-W1	96%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate	Duplicate results	Spike Sm#	Spike %
PAHs in Water					Sm#	Base II Duplicate II % RPD		Recovery
Date extracted	-			10/04/2 015	[NT]	[NT]	LCS-W1	10/04/2015
Date analysed	-			10/04/2 015	[NT]	[NT]	LCS-W1	10/04/2015
Naphthalene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	LCS-W1	71%
Acenaphthylene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	[NR]	[NR]
Acenaphthene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	[NR]	[NR]
Fluorene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	LCS-W1	70%
Phenanthrene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	LCS-W1	70%

		Clie	nt Referenc	e: 21	71302E			
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Water						Base II Duplicate II % RPD		
Anthracene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	[NR]	[NR]
Fluoranthene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	LCS-W1	71%
Pyrene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	LCS-W1	73%
Benzo(a)anthracene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	[NR]	[NR]
Chrysene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	LCS-W1	75%
Benzo(b,j+k) fluoranthene	µg/L	2	Org-012 subset	2	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	LCS-W1	93%
Indeno(1,2,3-c,d)pyrene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	[NR]	[NR]
<i>Surrogate p</i> -Terphenyl- d14	%		Org-012 subset	70	[NT]	[NT]	LCS-W1	91%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Miscellaneous Inorganics						Base II Duplicate II % RPD		
Date prepared	-			16/04/2 015	126267-1	16/04/2015 16/04/2015	126267-1	16/04/2015
Date analysed	-			16/04/2 015	126267-1	16/04/2015 16/04/2015	126267-1	16/04/2015
M.B.A.S Methylene Blue Active Substances	mg/L	0.1	Ext-044	<0.10	126267-1	0.13 0.14 RPD:7	126267-1	95%

Report Comments:

MBAS analysed by LabPoint. Report No.NAA15-0611.

Asbestos ID was analysed by Approved Identifier: Asbestos ID was authorised by Approved Signatory: Not applicable for this job Not applicable for this job

INS: Insufficient sample for this test NA: Test not required <: Less than PQL: Practical Quantitation Limit RPD: Relative Percent Difference >: Greater than NT: Not tested NA: Test not required LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples. **Duplicate**: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

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

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

Spikes for Physical and Aggregate Tests are not applicable.

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

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable. Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

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

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

Appendix H – ORS Records

		ARFF Incid	dent Detai	l Repor	t		
Air Services	Australia	COOL	COOLANGATTA			o: 124	
ARFF Inciden	t Details for	Mutual Aid	Call			15/12/1	999
Incident Site:	BOYD ST RUBB	ISH TIP TUGUN	N	umber of L	ives Saved:	0	
Origin of Call:	IC from MFB			Numbe	r of Deaths:	0	
Company:	QLD Emergency	Services		Number	r of Injuries:	0	
Est Damage Value:	\$0			Est Fa	cility Value:	\$0	
Incident Times	s (UTC)						
Call Time: 15/	12/1999 18:57:00	Arrival Time:	15/12/1999 19	:05:00	End Time:	15/12/1999 19:38:00)
Dispatch Time: 15/	12/1999 19:00:46	Control Time:	15/12/1999 19	15/12/1999 19:38:00 Return Time:		15/12/1999 19:52:46	6
Materials Use	d						
DCP Used:	0.00 kg			Foar	n Used:	100 litres	
WaterUsed:	14000 litres			Othe	er Used:		
Vehicles Invol	ved						
Vehicle Code ULFV 5	Quantity 1	Vehicle Code	Quantity	Vehicle C	Code	Quantity	
Staff in Attend	lance						
Team Leader:			FSM	И:			
Other Staff:							
Actions Taker	ı						

ARFF responded to a request for fire fighting assistancefrom QRFAat anuncontrolled fire at the Boyd St rubbish tipTugun. One vehicle wasdispatched which allowed ARFF to remain at Category 6 and cover allflights. A second vehicle was dispatched upon the return of the firstvehicle. The fire was eventually controlled and extinguished after heavyearth moving equipment was used to turn over the fire area.

		ARFF Incid	dent Detai	l Repoi	rt		
Air Services Australia COO			_ANGATTA Inciden			o:	161
ARFF Incident	Details for	Mutual Aid	Call				17/07/2000
Incident Site:	GOLD COAST	MARINA COOMERA.	N	umber of L	ives Saved:	0	
Origin of Call:				Numbe	r of Deaths:	0	
Company:	QLD Emergence	y Services		Numbe	r of Injuries:	0	
Est Damage Value:	\$0			Est Fa	cility Value:	\$0	
Incident Times	6 (UTC)						
Call Time: 17/0	7/2000 14:20:00	Arrival Time:	17/07/2000 15	:20:00	End Time:	17/07/2	000 22:00:00
Dispatch Time: 17/0	7/2000 14:40:00	Control Time:	17/07/2000 22	2:00:00	Return Time:	17/07/2	000 22:40:00
Materials Used	b						
DCP Used:	0.00 kg			Foar	n Used:	1350	litres
WaterUsed:	litres	5		Othe	er Used:		
Vehicles Involv	ved						
Vehicle Code ULFV 6	Quantity 1	Vehicle Code ULFV 5	Quantity 1	Vehicle (Code	Quantity	
Staff in Attend	ance						
Team Leader:			FSI	И:			
Other Staff:							
Actions Taken							

QFRA requested quantity of AFFF delivered to a large vessel fireDOcontacted staff and despatched a ULFV5 with two crew. 1000 I of AFFFwas delivered to incident site in GUV and TO vehicle. ARFF crew remainedat incident site an assisted QFRA in fire fighting operations.

		ARFF Incid	dent Detai	Report		
Air Services	Australia	COOLANGATTA			Incident No	o: 231
ARFF Inciden	t Details for	Fire Non-A	ircraft			26/08/2001
Incident Site:	ANSETT TERMIN	AL ROAD SIDE	N	umber of Lives	s Saved:	0
Origin of Call:	PABX			Number of	Deaths:	0
Company:				Number of	Injuries:	0
Est Damage Value:	\$0			Est Facilit	y Value:	\$0
Incident Time	s (UTC)					
Call Time: 26/	08/2001 04:41:00	Arrival Time:	26/08/2001 04	43:05 E	Ind Time:	26/08/2001 04:46:55
Dispatch Time: 26/08/2001 04:41:35		Control Time:	26/08/2001 04	46:55 F	Return Time:	26/08/2001 05:21:00
Materials Use	d					
DCP Used:	9.00 kg			Foam U	sed:	12 litres
WaterUsed:	400 litres			Other U	sed:	
Vehicles Invo	lved					
Vehicle Code ULFV 6	Quantity V 1	ehicle Code	Quantity	Vehicle Code	9	Quantity
Staff in Attend	lance					
Team Leader:			FSM	l:		
Other Staff:						
Actions Taker	า					

ARFF responded Ansett Terminal entrance where Yellow Cab No. T38-401 hadsmoke and flame issuing from the engine compartment. Fire attacked with 9kg DCP and hose reelfrom beneath before raising thebonnet and fully extinguishing the fire. Battery disconnected and LPGsystem turned off. Engine and LPG converter cooled with hose reel. Taxideemed safe and pushed away from the terminal entrance. Taxidriver arranged for a tow truck. Road way washed down and debris from car removed. QFRA responded and assisted in isolating gas cylinder. ARFF returned to station. Taxi owned by Professional Taxis 2/7 Hinde St Southport ph 0417 923 033driver Mark Williams 7/21 Alinjarra Drive Tugun Heights 0417 726 629.

		ARFF Incid	dent Detai	Report		
Air Services	Australia	COOLANGATTA			cident No:	311
ARFF Inciden	t Details for	Mutual Aid	Call			15/09/2002
Incident Site:	GOLD COAST CI	TY DUMP TUGUN	N	umber of Lives Sa	wed: ()
Origin of Call:	Fire Line			Number of Dea	aths: ()
Company:				Number of Inju	iries: ()
Est Damage Value:	\$0			Est Facility V	alue: ۹	60
Incident Time	s (UTC)					
Call Time: 15/	09/2002 03:58:00	Arrival Time:	15/09/2002 04	:05:00 End	Time:	15/09/2002 06:55:00
Dispatch Time: 15/	09/2002 04:00:00	Control Time:	15/09/2002 06:55:00 Return Time:		15/09/2002 07:01:00	
Materials Use	d					
DCP Used:	0.00 kg			Foam Used	:	140 litres
WaterUsed:	50000 litres			Other Used	: NIL	
Vehicles Invol	lved					
Vehicle Code ULFV 5	Quantity V 1	ehicle Code	Quantity	Vehicle Code		Quantity
Staff in Attend	lance					
Team Leader:			FSM	1:		
Other Staff:						
Actions Taker	า					

FIRE ASSISTANCE WITH THE QRFS IN COMBATING A RUBBISH DUMP FIRE.

		ARFF Incic	ient Detail	Repor	t		
Air Services /	Australia	COOLANGATTA		N I I I I I I I I I I I I I I I I I I I	Incident No:		1320
ARFF Incident	Details for	Aircraft - C	rash				02/07/2009
Incident Site:	West of Runwa	y 32 Undershoot area	N	umber of Li	ves Saved:	0	
Origin of Call:	Crash Alarm			Number	of Deaths:	1	
Company:	OTHER - Comp	oany unknown		Number	of Injuries:	0	
Est Damage Value:	\$250000			Est Fac	cility Value:	\$0	
Incident Times	s (UTC)						
Call Time: 02/0	07/2009 00:16:00	Arrival Time:	02/07/2009 00	:20:00	End Time:	02/07/20	009 05:59:00
Dispatch Time: 02/0	07/2009 00:17:00	Control Time:	02/07/2009 00	:50:00	Return Time:	02/07/20	009 06:12:00
Materials Use	d						
DCP Used:	0.00 kg			Foan	n Used:	20	litres
WaterUsed:	320 litres	6		Othe	r Used:		
Vehicles Invol	ved						
Vehicle Code Police	Quantity 1	Vehicle Code Ambulance	Quantity 1	Vehicle C MFB	ode	Quantity 1	
Airport Safety	1	ULFV 8	2	FSM Vehi	cle	1	
Aust Federal Police	1						
Staff in Attend	ance						
Team Leader: KA	LENDRA, Paul G	ì	FSM	I: EVA	NS, Rodney J		
Other Staff:							
FRANKS, Peter R		DAWSON, Steven J		JOHN	ISTONE, Jonath	ion	
ROSE, Warwick B		REEVES, Mark B		FISH	ER, William J		
POWELL, Matthew D							
Actions Taken							

A DEE Incident Detail Deport

Incident 02/07/2009 00:16 -ATC activated crash alarm with nil details initially to FCC. FCC contacted ATC to confirm helicopter crash in vicinity SW area of the aerodrome.

Dispatch 02/07/2009 00:17 -Tenders 2 and 4 dispatched to area west of Runway 32 undershoot. Exact location unknown but ATC advised area west of southern secondary wind indicator. Airport ground staff directed ARFF to location of crash site south of airport perimeter fence and north of Tugun By-pass in swampy medium closed forest.

Arrival 02/07/2009 00:20 - ARFF on scene with Tender 4 adjacent crash site 300 metres west of Runway 32 on a narrow outer perimeter road via Gate 11. Tender 2 positioned 100 meters to the rear of Tender4 due to access difficulties. ARFF deployed one FB10x foam line due to Avgas leak from aircraft wreckage and applied foam blanket to area. ARFF gained access to R22 and extricated pilot to roadway. Resuscitation attempts were undertaken by ARFF. Fire Commander advised FCC that ARFF at Category 0.

00:26 Emergency services arrived and Qld Ambulance Service and Queensland Fire & Rescue Service staff took over resuscitation of pilot with Careflight doctor in attendance. Australian Federal Police, New South Wales Police in attendance and secured the crash site. SFC Evans on scene.

Resuscitation attempts continued for approximately 30 minutes and failed to revive the casualty. ARFF searched area around crash site and confirmed with ATC aircraft POB (one on board). Foam blanket reapplied as required.

Control 02/07/2009 00:50 -ARFF control time and Tender 2 returned to station with Category 6 restoration.

Tender 4 remained on scene with Police until ASTB arrival.

Printed:

COOLANGATTA

Incident No:

0520 ATSB arrived on scene

End 02/07/2009 05:59 -ARFF end time. Tender 4 left incident site

Return 02/07/2009 06:12 -Tender 4 returned to station. Category 8 restoration.

Printed:

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