

# WATER MANAGEMENT PLAN

23-43 & 45 Tattersall Road, Kings Park

12 SEPTEMBER 2019





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# KINGS PARK METAL RECOVERY, PROCESSING AND RECYCLING FACILITY

## Water Management Plan

Sell & Parker Pty Ltd

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## REVISIONS

Rev. No	Rev. Date	Revision Description	Prepared By	Approved By	Signed
A	December 2016	New document	MH	CM	MH
B	March 2017	Respond to EPA comments	MH	CM	MH
C	June 2017	Respond to EPA & DP&E comments	MH	CM	MH
D	July 2017	Respond to EPA & DP&E comments	MH	CM	MH
E	August 2017	Respond to EPA & DP&E comments	MH	CM	MH
F	October 2017	Revised Plan and LEC S96 Approval	MH	CM	MH
G	March 2018	Revised Layout	MH	CM	MH
H	September 2019	Changes associated with MOD 3	FM, SF	HR	HR

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## GLOSSARY

Term	Definition
<b>Arcadis</b>	Arcadis Australia Pacific Pty Ltd
<b>BCC</b>	Blacktown City Council
<b>BEMS</b>	Blacktown Environment Management System
<b>CEMP</b>	Construction Environmental Management Plan
<b>DA</b>	Development Application
<b>DECC</b>	Department of Environment and Climate Change
<b>DPIE</b>	Department of Planning, Industry and Environment (from 1 July 2019)
<b>DP&amp;E</b>	(Former) Department of Planning and Environment
<b>ECS</b>	Emissions Collection System
<b>EIS</b>	Environmental Impact Statement
<b>EMP</b>	Environmental Management Plan
<b>EPA</b>	Environmental Protection Authority
<b>EPL</b>	Environment Protection Licence
<b>EP&amp;A Act</b>	<i>Environmental Planning and Assessment Act 1979</i>
<b>ERM</b>	Environmental Resources Management
<b>The Facility</b>	The Kings Park Metal Recovery, Processing and Recycling Facility
<b>GEM</b>	Group Environmental Manager
<b>GHRM</b>	Group Human Resources Manager
<b>GSM</b>	Group Safety Manager
<b>HP</b>	Higgins Planning
<b>KPI</b>	Key Performance Index
<b>LEC</b>	Land and Environment Court
<b>LMP</b>	Landscape Management Plan
<b>MOD</b>	Modification
<b>MOD 1</b>	The approved modifications to The Original Approval dated 6 July 2017
<b>MOD 2</b>	The approved modifications to The Original Approval and approved MOD 1 dated 26 February 2018

<b>Term</b>	<b>Definition</b>
<b>MOD 3</b>	The approved modifications to The Original Approval and approved MOD 3 dated 29 May 2019
<b>NATA</b>	National Association of Testing Authorities
<b>NEPC</b>	National Environmental Protection Council
<b>NEPM</b>	National Environmental Protection Measure
<b>NSW</b>	New South Wales
<b>OEMP</b>	Operational Environmental Management Plan
<b>The Original Approval</b>	The approved Environmental Impact Assessment for SSD 5041 dated 12 November 2015
<b>PIRMP</b>	Pollution Incident Response Management Plan
<b>POEO Act</b>	<i>Protection of the Environment Operations Act 1997</i>
<b>The Project</b>	The approved activities under SSD 5041 and MODs 1 - 3
<b>Renzo Tonin</b>	Renzo Tonin & Associates
<b>Sell &amp; Parker</b>	Sell and Parker Pty Ltd
<b>SSD</b>	State Significant Development
<b>The Site</b>	The Sell & Parker Premises at 23-43 and 45 Tattersall Road, Kings Park NSW
<b>WMP</b>	Water Management Plan
<b>WMS</b>	Water Management System
<b>WTS</b>	Water Treatment System

# 1 INTRODUCTION

## 1.1 Background

This Water Management Plan (WMP) has been prepared by Higgins Planning (HP) and updated by Arcadis Australia Pacific Pty Ltd (Arcadis) in collaboration with Sell and Parker Pty Ltd (Sell & Parker) for the Kings Park Metal Recovery, Processing and Recycling Facility (the Facility) at 23-43 and 45 Tattersall Road, Kings Park (the Site).

The Facility has been approved by the Department of Environment, Planning and Industry (DPIE) (formerly DP&E) under the State Significant Development (SSD) application No. 5041 dated 12 November 2015 (the Original Approval), including three associated modifications (the Project).

## 1.2 Purpose of this WMP

This WMP has been prepared on behalf of Sell & Parker in response to conditions A2 and B4 of the Project.

In particular, this WMP:

- Describes the water management of the Project including activities to be undertaken and relative timing;
- Provides specific mitigation measures and controls that can be applied on-site to avoid or minimise negative environmental impacts;
- Provides specific mechanisms for compliance with applicable policies, approvals, licences, permits, consultation agreements and legislation;
- Describes the air quality management related roles and responsibilities of personnel;
- States objectives and targets for issues which are important to the environmental performance of the Project; and
- Outlines a monitoring regime to check the adequacy of controls.

The purpose of this WMP is to provide detail on how Sell & Parker will manage potential water impacts from construction and operation of the Site.

This WMP details the water management procedures which also form part of the Operational Environment Management Plan (OEMP).

The structure of this WMP is based on DPIE's (formerly Department of Infrastructure Planning and Natural Resources) "Guideline for the Preparation of Environmental Management Plans" (2004), as well as the requirements of the Environmental Impact Statement (EIS) and supporting documents. The plan also considers the requirements of DPIE's Environmental Management plan, Post Approval Guidelines (2018).

This WMP has been prepared based on information from the Storm Water Management Plan prepared by ERM dated June 2015, and the revised ADW Johnson Stormwater Management Assessment Report. This forms part of Condition A2 in Schedule 2, Part A of the Original Approval and MODs 1 – 3, which states:

### *TERMS OF CONSENT*

A2. *The Applicant shall carry out the Development in accordance with the:*

- a) *EIS prepared by ERM dated July 2014;*

- b) *Response to Submissions report prepared by ERM dated 7 January 2015;*
- c) *Supplementary Response to Submissions prepared by Mecone dated 30 June 2015;*
- d) *Supplementary Response to Submissions prepared by Sell & Parker Pty Ltd dated 3 September 2015;*
- e) *Site layout plans and drawings (See Appendix A);*
- f) *Management and Mitigation Measures (see Appendix B);*
- g) *Modification Application SSD 5041 MOD 1 and accompanying document titled Statement of Environmental Effects 23-43 and 45 Tattersall Road, Kings Park dated August 2016 prepared by Higgins Planning, additional information from Higgins Planning dated 22 December 2016, further additional information from Allens and Linklaters dated 9 February 2017 and the Town Planning Report prepared by Ethos Consulting on 29 September 2017;*
- h) *Modification SSD 5041 MOD 2 and accompanying document titled Statement of Environmental Effects 23-43 and 45 Tattersall Road, Kings Park dated December 2017 prepared by Higgins Planning; and*
- i) *Modification Application SSD 5041 MOD 3 and accompanying document titled Section 4.55(1A) Application (SSD 5041 – Mod 3), 23-43 and 45 Tattersall Road, Kings Park dated 11 February 2019 and Response to Submissions dated 4 April 2019 prepared by Arcadis Australia Pacific Pty Ltd.*

In addition, Sell & Parker have had consultation meetings and discussions with both the Environment Protection Authority (EPA) and DPIE as required to assist with the preparation of this WMP.

### **1.3 Site Location and Context**

The Site is located in the mid-block of Tattersall Road, Kings Park and approximately 2.5 kilometres from the M7. This location is depicted in Figure 1. Kings Park is located within the Local Government Area (LGA) of Blacktown City Council (BCC), and is located approximately 41.2 kilometres from the Sydney Central Business District (CBD).





## **1.4 Site Description**

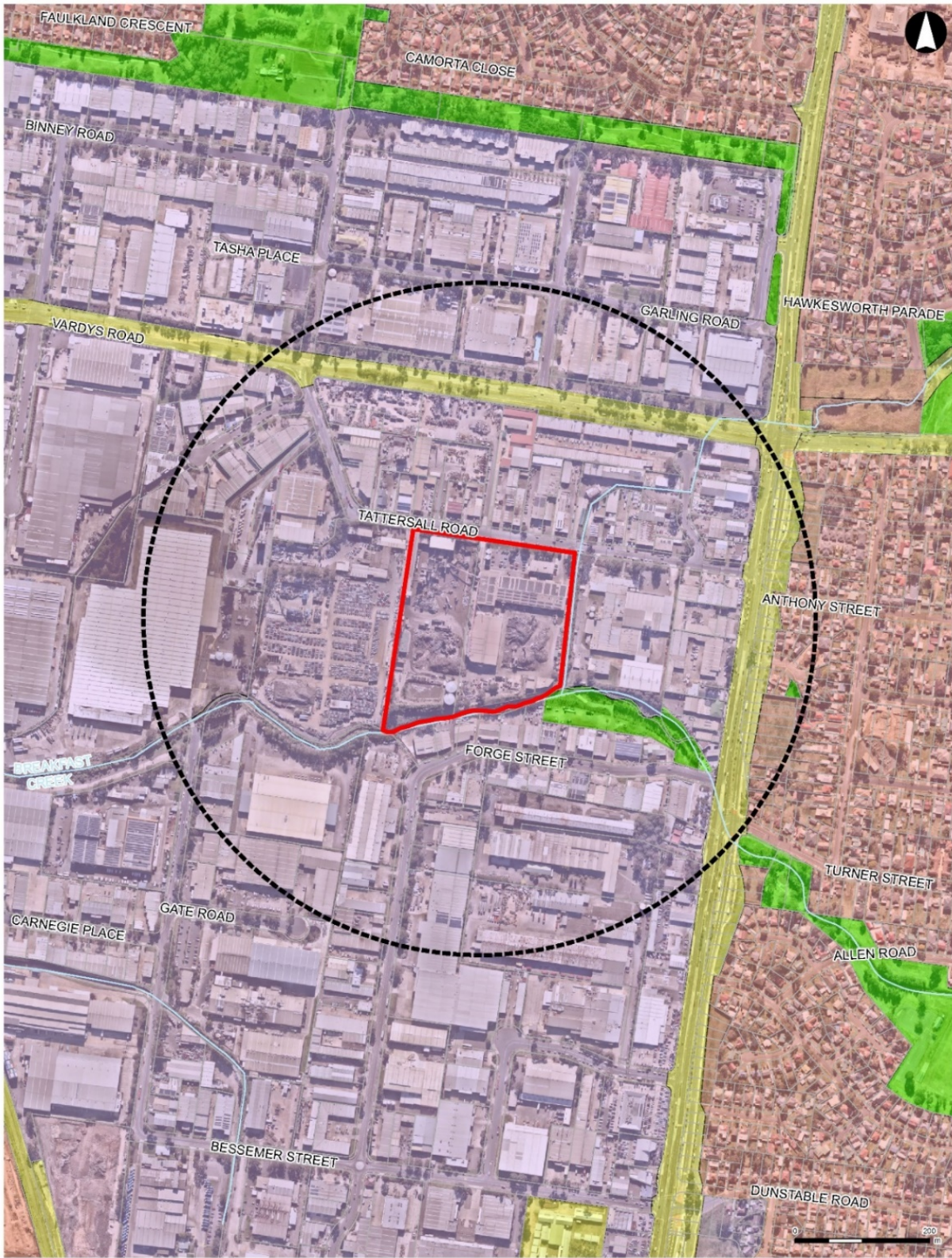
The Site is located on the southern side of Tattersall Road, Kings Park (see Figure 1). The Site has a legal description of Lot 2 in DP 550522 and Lot 5 in DP 7086. The Site is significantly lower than the level of Tattersall Road to the north and is relatively flat/level with a fall towards its rear boundary. The Site is largely cleared, with the exception of some trees and screening plants scattered across the perimeter front and rear boundaries.

The existing Facility is screened by mature trees along the Tattersall Road frontage of the land between the property boundary and the existing acoustic wall along the frontage of the portion of the site at 45 Tattersall Road. An open storm water drainage channel, Waller Creek, runs along the eastern boundary. Adjacent to the Site's southern boundary is Breakfast Creek.

## **1.5 Existing Environment and Sensitive Receptors**

The Facility is primarily surrounded by commercial and industrial land uses within a 500 metre radius. The exception to this is where residential land uses back on to Sunnyholt Road around 350 metres to the east of the site.

The nearest watercourse is located along the rear or southern boundary of the Site, known as Breakfast Creek. This is a modified urban waterway that flows through the industrial estate from east to west (refer to Figure 2 below).



**LEGEND**

- Site boundary
- 500m radius
- Cadastre
- Waterways
- Industrial/Commercial
- Residential
- Recreation
- Infrastructure

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Figure 2 Nearby sensitive receptors

For information on mitigation measures, monitoring, controls and exceedance management measures refer to Sections 6, 7, 8 and 9 of this WMP.

## 1.6 Scope

The scope of this WMP includes:

- An overview of the potential environmental impacts of the Facility;
- A description of the management measures to protect the environment;
- An overview of the Site operations (refer to the Site Layout Plan in Appendix A);
- Guidance on compliance with the relevant environmental legislation including the Environment Protection Licence (EPL) (copy at Appendix G) and Original Approval (copy at Appendix C);
- Provision of appropriate mitigation measures for the key environmental issues;
- Definitions of the roles and responsibilities of the construction and operational teams; and
- The basis for monitoring, reporting and maintaining compliance with regulatory requirements.

## 1.7 Environmental Management System Context

Figure 3 below describes the structure of the Environment Management System (EMS) for the Facility and how it relates to this NMP.



Figure 3 Structure of the EMS for the Facility

The EMS establishes management responses and frameworks for each management plan and its implementation at the Facility. The EMS sets the evaluation criteria which will ensure systems and processes are continually reviewed for continuous improvement at the Site

## 1.8 WMP Objectives and Outcomes

Table 1 below outlines the key objectives of this WMP.

Table 1: WMP Objectives and Outcomes

Objectives	Outcome
To ensure compliance with all applicable regulatory conditions for the Facility.	Compliance is achieved, maintained and verified through independent auditing.

Objectives	Outcome
To minimise non-compliances.	Improved environmental protection.
To implementation of agreed water management mitigation measures.	All agreed water management and mitigation measures are implemented and maintained.
To implement baseline water quality studies.	Create a standard to which variations over time can be measured against.
To use technology when it becomes available to ensure ongoing improvement and environmental protection.	Continuous improvement so compliance is met now and into the future.

## 1.9 Environmental Policy

Sell & Parker are committed to operating within the principles of continuous improvement and reducing the sites environmental footprint. This is outlined in the Sell & Parker Environment Policy, a copy of which is included at **Appendix B** and available on the Sell & Parker website, [www.sellparker.com.au](http://www.sellparker.com.au) under 'About us', 'links' and 'Environmental Reports'. All employees and contractors undergo an induction which includes familiarisation with the requirements of the Environment Policy.

Sell & Parker is committed to operating to the principles of continuous improvement and reducing the Site's environmental footprint. This is outlined in the Sell & Parker Environment Policy, a copy of which is included at **Appendix B** and available on the Sell & Parker website, [www.sellparker.com.au](http://www.sellparker.com.au) under links and Environmental Reports. All employees and contractors undergo an induction which includes familiarisation with the requirements of the Environment Policy.

The key aspects of the Sell & Parker Environment Policy are:

- Ensure all employees, contractors and associates have an understanding of this Policy, the Environment Management System (EMS), Stormwater Management Plan and Safe Working Procedures;
- Ensure all operations are undertaken in an environmentally responsible manner and in accordance with the relevant environmental legislation, regulations, statutory obligations and relevant voluntary codes of practice;
- Measure, monitor and report on environmental initiatives;
- Regularly review our business operations to identify and implement opportunities for improvement;
- Record, investigate and implement the appropriate corrective action for all environment incidents; and
- Periodically review and revise this Policy and Safe Working Procedures to maintain their relevance.

Sell & Parker is committed to complying with all of its legal obligations. Compliance to applicable regulatory requirements in regard to the operations at the Facility will be achieved through:

- Identifying and assessing statutory requirements that are directly applicable;
- Consulting with relevant government bodies and agencies;
- Internally communicating relevant statutory requirements;
- Providing relevant training;

- Monitoring and reviewing internally and via third parties the Sell & Parker environmental management system;
- Inspections by the Site, Group Safety and Group Environment Managers; and
- Updating EMP's where required should legislation change.

## 2 LEGAL AND CONSENT REQUIREMENTS

This section details the legislative requirements that relate to the site in terms of air water management.

### 2.1 Legislation

Legislation relevant to water management:

- National Construction Code (NCC) (Building Code of Australia BCA);
- *Protection of the Environment Operations Act 1997*;
- *Protection of the Environment Operations (General Regulation) 2009*;
- *Water Act 1912*;
- *Water Management Act 2000*;
- *Sydney Water Act 1994*; and
- *Sydney Water Regulation 2006*.

### 2.2 Consent Conditions

Table 2 below details the WMP Condition B4 and where in this document each component has been addressed:

Table 2: WMP Condition B4 summary and document reference

Consent Condition	Document Reference
<b>B4.</b> <i>Prior to the commencement of construction of the Development, the Applicant shall prepare a Water Management Plan to the satisfaction of the Secretary. The plan must:</i>	
<i>a) be prepared by a suitably qualified and experienced person(s) in consultation with the EPA;</i>	Sections 1.1 & 1.6
<i>b) include a detailed site water balance;</i>	Sections 7.1 & 8.4
<i>c) include details of water management, monitoring and incident response arrangements quality measures;</i>	Sections 6, 7, 8 & 9
<i>d) include the details of the:</i>	
<i>(i) Water Management System for the site (see Condition B6);</i>	Section 6.2
<i>(ii) Water Management System commissioning, including the time frames for each stage of commissioning (see Condition B6);</i>	Section 6.2.9 & 6.2.11
<i>(iii) Water Treatment Plant trial, if required (see Condition B8);</i>	Section 6.2.8
<i>(iv) Erosion and sediment controls (see Condition B9);</i>	Section 6.4



Consent Condition	Document Reference
(v) Bunding (see Condition B10);	Section 6.5
(vi) Flood management (see Condition B11); and	Sections 6.3 & 9.2
(vii) Clean water runoff areas that discharge direct to stormwater without treatment (i.e. carpark and roofs).	Section 6.1

## 2.3 Consent Conditions Compliance

The Original Approval (refer **Appendix C**) and MOD 1 (refer to **Appendix D**), provide details of all DPIE requirements for the Site's development. In **Table 3** below are the specific air quality control, mitigation and monitoring requirements. The table has a document reference column indicating where the requirement is specifically addressed in the plan and/or other documentation.

Table 3: Development Consent Water Conditions Compliance Table

Section	SSD 5041 Water Conditions	Document Reference
<b>B2</b>	A Section 73 Compliance Certificate under the <i>Sydney Water Act 1994</i> must be obtained from Sydney Water prior to the commencement of construction.	Section 2.7
<b>B3</b>	The development shall comply with section 120 of the POEO Act, which prohibits the pollution of waters, except as expressly provided in the EPL.	Sections 2.7
<b>B4</b>	Prior to the commencement of construction of the Development, the Applicant shall prepare a Water Management Plan to the satisfaction of the Secretary. The plan must;	This plan
<b>B4 a)</b>	Be prepared by a suitably qualified and experienced person(s) in consultation with the EPA;	Section 1.1 & 1.6
<b>B4 b)</b>	Include a detailed site water balance;	Sections 7.1 & 8.4
<b>B4 c)</b>	Include details of water management, monitoring and incident response arrangements quality measures;	Sections 6, 7, 8 & 9
<b>B4 d)</b>	Include the details of the;	
<b>B4 d) i)</b>	Water Management System for the site (see Condition B6);	Section 6.2
<b>B4 d) ii)</b>	Water Management System commissioning, including the time frames for each stage of commissioning (see Condition B6);	Section 6.2.9 & 6.2.11
<b>B4 d) iii)</b>	Water treatment plant trial, if required (see Condition B8);	Section 6.2.8
<b>B4 d) iv)</b>	Erosion and sediment controls (see Condition B8);	Section 6.4

Section	SSD 5041 Water Conditions	Document Reference
B4 d) vi)	Flood management (see Condition B11); and	Sections 6.3 & 9.2
B4 d) vii)	Clean water runoff areas that discharge direct to stormwater without treatment (i.e. carpark and roofs).	Section 6.1
B5	Carry out the Development in accordance with the WMP approved by the Secretary, (as revised and approved by the Secretary from time to time) unless otherwise agreed by the Secretary;	This plan
B6	Operate a Water Management System for the site. The system must:	
B6 a)	Be designed by a suitably qualified and experienced person(s) in consultation with the EPA;	Section 6.2.
B6 b)	Include a treatment system with primary, secondary and tertiary treatment components;	Section 6.2
B6 c)	Be consistent with the guidance in Managing Urban Stormwater – Soils and Construction Vol. 1 (Landcom, 2004);	Section 6.4
B6 d)	Divert clean surface water around operational areas of the site;	Section 6.1 & 7.4.3
B6 e)	Include water quality monitoring that can determine the performance of the water management system against EPL discharge limits;	Section 7.3
B6 f)	Include water reuse based on a risk assessment of environment and health impacts; and	Section 7.2 & Appendix I
B6 g)	Be commissioned in accordance with Condition B7.	Section 6.2
B7	The applicant shall commission the Water Management System prior to discharging any water from site. The commissioning must:	Section 6.2
B7 a)	Be completed within 2 years from the date of this consent, or within such other time agreed in writing by the Secretary;	Section 6.2.11
B7 b)	Be undertaken by a suitably qualified and experienced person(s) in consultation with the EPA;	Section 6.2
B7 c)	Include a program for acquiring baseline data of receiving waters and the establishment of site specific stormwater discharge criteria;	Section 6.2.10
B7 d)	Including testing of the performance of all components of the Water Management System, including the primary, secondary and tertiary treatment systems;	Section 6.2

Section	SSD 5041 Water Conditions	Document Reference
B7 e)	Identify and implement changes to the Water Management System that may be necessary to achieve compliance with the discharge criteria in the EPL; and	Section 6.2 & 7.3
B10	The Applicant shall store all chemicals, fuels and oils used on-site in appropriately bunded areas in accordance with the requirements of all relevant Australian Standards, and/or EPA's <i>Storing and handling liquids: Environmental Protection – Participants manual (DECC) 2007</i> .	Section 6.5
B11	The Applicant shall ensure that:	-
B11 a)	The finished floor level of any new building is a minimum of 0.5 metres above the 1 in 100 year Average Recurrence Interval flood level;	Section 6.3 & Appendix J
B11 b)	Any part of a new structure below the 1 in 100 year Average Recurrence Interval flood level is designed and constructed to be compatible with flooding; and	Section 6.3
B11 c)	Any perimeter fence or wall does not restrict or impede the flow of overland flow.	Section 6.3
C5	Ensure that the environmental management plans are prepared in accordance with relevant guidelines.	Section 2.5
C5 a)	Environment management plans have detailed baseline data.	Section 6.2.10
C5 b) i)	Environment management plans have a description of relevant statutory requirements.	Section 2
C5 b) ii)	Environment management plans (EMP's) include relevant limits or performance measures.	Sections 5 & 7.3
C5 b) iii)	EMP's include specific performance indicators that are proposed to judge the performance of the development.	Sections 5 & 8
C5 b) iv)	EMP's include the measures to be implemented to comply with statutory requirements, limits, performance measures or criteria.	Section 6
C5 c) i)	Monitoring program to report on the impacts and performance of the development.	Section 8
C5 c) ii)	Monitoring program to report on the effectiveness of management measures.	Sections 9.5 & 12
C5 c) iii)	Monitoring program for contingency to manage unpredicted impacts and their consequences.	Section 9

Section	SSD 5041 Water Conditions	Document Reference
C5 c) iv)	A program to investigate and implement ways to improve environmental performance of the development over time.	Sections 1.8 & 12
C5 d) i)	A protocol for managing and reporting incidents.	Section 9.2
C5 d) ii)	A protocol for managing and reporting complaints.	Section 10
C5 d) iii)	A protocol for managing and reporting non-compliances with statutory requirements.	Section 9
C5 d) iv)	A protocol for managing exceedance of the impact assessment criteria and/or performance criteria.	Section 9.1
C5 d) v)	A protocol for periodic review of the plan.	Section 12
C7	Incident reporting.	Section 9.2
C8	Provide regular reporting on the environmental performance of the development on its website, in accordance with the reporting requirements in any plans or programs approved in the consent.	Section 9.5
C9	Audits.	Section 11
C10	Within 3 months of commissioning the audit, submit a copy of the report to the secretary, together with responses to any recommendations contained in the audit report.	Section 11.2
C11	Annual review.	Section 12
C12	Revision of plans.	Sections 9.1 & 12

## 2.4 Licence

The Sell & Parker Facility operates under an Environment Protection Licence (EPL) issued by the Environment Protection Authority (EPA). This EPL 11555 has been varied to reflect the Original Approval and the changed operational conditions as part of the Project.

EPL 11555 is available on the EPA website and the Sell & Parker website, [www.sellparker.com.au](http://www.sellparker.com.au), under links and Environmental Reports. The licence is attached in **Appendix D**.

## 2.5 Standards and Guidelines

The main standards, policies and guidelines relevant for the development and operation of the Site include:

- National Environment Protection Council's (NEPC) – National Environment Protection Measure (NEPM) for Water Quality Gridlines;
- National water quality management strategy; Australian guidelines for water quality monitoring and reporting ANZECC 2000;
- Approved Methods for the Sampling and Analysis of Water Pollutants in New South Wales, DEC, March 2004;
- Managing Urban Stormwater – Soils and Construction Volume 1 (Landcom) 2004;
- *AS/NZS 5667.1:1998 Water quality – Sampling – Guidance on the design of sampling programs, sampling techniques and the preservation and handling of samples*;
- National water quality management strategy; Guidelines for groundwater protection in Australia ANZECC 2000;
- Storing and handling liquids: Environmental Protection – Participants manual (DECC) 2007;
- Guideline for the Preparation of Environmental Management Plans: Department of Infrastructure Planning and Natural Resources, 2004; and
- Environmental Management Plans – Post Approval Guidelines, Department of Planning and Environment, 2018.

## 2.6 Consultation Process

Sell & Parker is committed to meaningful stakeholder engagement and has worked in collaboration with relevant government agencies and local community to work through issues associated with site approvals and operations.

### 2.6.1 Internal

Discussions with directors, senior managers, key personnel and contractors have been conducted in the development of this WMP.

### 2.6.2 External

The following authorities have been consulted with in relation to requirements of this WMP;

- Department of Planning, Industry and Environment (DPIE) (formerly DP&E);
- Environment Protection Authority (EPA); and
- Blacktown City Council (BCC).

No issues have been raised by other government authorities.

### 2.6.3 Community

Feedback from the community was sought during the development application process for the Original Approval. This feedback was considered in the development of this WMP.

The process by which the community was consulted included:

- Community consultation meeting; and
- Mailbox drop.

Community feedback was made available on the DPIE's website.

Prior to the commencement of construction and during the construction process, letter box drops and informal meetings occurred with the closest neighbouring businesses along Tattersall Road.

### 3 ROLES AND RESPONSIBILITIES

The key positions and their environmental duties around water quality management are outlined in **Table 4** below.

Table 4: WMP Roles and Responsibilities

Company	Role	Responsibility
Sell & Parker	Directors	<ul style="list-style-type: none"> <li>• Ensure resources and funding is available to perform required tasks;</li> <li>• Ensure managers have required skills and training to fulfil required tasks;</li> <li>• Ensure managers are fulfilling required monitoring and reporting tasks.</li> </ul>
Sell & Parker	Site Manager	<ul style="list-style-type: none"> <li>• Ensure all site personnel have and maintain recommended training;</li> <li>• Ensure any non-conformances are investigated and where required reported.</li> </ul>
Sell & Parker	Legal	<ul style="list-style-type: none"> <li>• Ensure legislative updates are passed though and documents and licences are appropriately updated.</li> </ul>
Sell & Parker	Site Supervisors	<ul style="list-style-type: none"> <li>• Report any known or suspected issues.</li> </ul>
Sell & Parker	Group Safety Manger	<ul style="list-style-type: none"> <li>• Overall Site Safety;</li> <li>• Approve any safety matters that impact site operations;</li> <li>• Ensure there are site specific Safety Plans and Safe Work Method Statements; and</li> <li>• Ensure compliance with Sell &amp; Parker Contractor Management Systems.</li> </ul>
Sell & Parker	Group Environmental Manager	<ul style="list-style-type: none"> <li>• Overall site environmental activities;</li> <li>• Liaise with relevant authorities as required;</li> <li>• Ongoing development of EMP's and revision where required;</li> <li>• Review monitoring reports for compliance;</li> <li>• Brief contractors of environmental requirements for their activities;</li> <li>• Inspect works and when required do sampling;</li> <li>• Ensure monitoring is taking place;</li> <li>• Ensure reporting is taking place;</li> <li>• Where applicable, community consultation is fulfilled.</li> </ul>

Company	Role	Responsibility
Sell & Parker	Maintenance Manager	<ul style="list-style-type: none"> <li>• Ensure all plant and mobile plant is operating to specifications.</li> </ul>
Sell & Parker	All Personnel	<ul style="list-style-type: none"> <li>• Report any known or suspected issues;</li> <li>• Be aware of and minimise fugitive dust generation in their activities.</li> </ul>
Contractor	Site Manager	<ul style="list-style-type: none"> <li>• Fulfilment of applicable Sell &amp; Parker EMP requirements;</li> <li>• Reporting of any known or suspected issues;</li> <li>• Be aware of and where applicable, minimise resource usage in their activities; and</li> <li>• Follow all reasonable directions.</li> </ul>



## 4 TRAINING

All on site employees and contractors will undergo site induction and training which is a combination of Sell and Parkers Learning Management System (LMS), regular toolbox talks/chats, and other on the job training. Training will vary depending on specific duties performed but will include:

- Relevant legislation.
- Consent requirements.
- Licence requirements.
- Monitoring processes.
- Mitigation measures.
- Complaint process.

Training programs are designed by the Group Human Resources Manager (GHRM), Group Safety Manager (GSM) and the Group Environment Manager (GEM) and Legal. The Site Manager is responsible for ensuring training is undertaken, as outlined in Section 4 of this WMP.

## **5 OPERATIONAL CRITERIA**

There are no operational criteria set within SSD 5041 or EPL 11555. There will be no discharge of water to Breakfast Creek.

## 6 MITIGATION AND IMPLEMENTATION MEASURES

Measures that will be implemented to ensure all reasonable and feasible measures are employed to minimise poor water quality include:

### 6.1 Water Diversion Management

The Catchment Area Plan (**Appendix M**) details the clean and dirty areas of the site.

Roofed areas at 45 Tattersall Road direct the flow to storm water. All other site flows are diverted to the floc pit prior to being pumped into the retention basin.

The 23 Tattersall Road site is a mixture of clean and dirty water collection areas. Buildings and car parking areas are clean water areas and rainfall in these locations flow to Breakfast Creek. These areas are inspected regularly to maintain housekeeping standards.

Other zones including the 1400T shear area are classified as dirty water and therefore flows are diverted to the retention basin. The design for this diversion is detailed in the Site Drainage Plan (**Appendix H**) prepared by ADW Johnson. The proposed design includes a dirty water transfer buffer tank and a new rising main to the existing retention basin.

### 6.2 Water Management System

This section details the Water Management System (WMS) design. The development of the WMS has resulted in changes to the initial concept design of the Water Treatment System (WTS) in the Original Approval in order to achieve compliance requirements. The revised design no longer proposes controlled discharge to Breakfast Creek. Any site controlled discharge, other than stormwater flows, is proposed to exit through the Sydney Water trade waste system.

The proposed water treatment system design has been undertaken by ADW Johnson, and consultation with the EPA has occurred.

The proposed design of the WTS is illustrated below in Figure 4. Laboratory trials of different technologies were conducted to determine which are the most appropriate for site requirements to confidently meet Sydney Water trade waste discharge requirements. Successful laboratory trials may result in full scale trials being conducted of full plant or component parts, in all instances Sell & Parker will consult with the EPA.

For full details and modelling of the WMS please refer to the ADW Johnson Storm Water Management Report in **Appendix L**.

The design principle of the WTS is detailed in the below diagram.

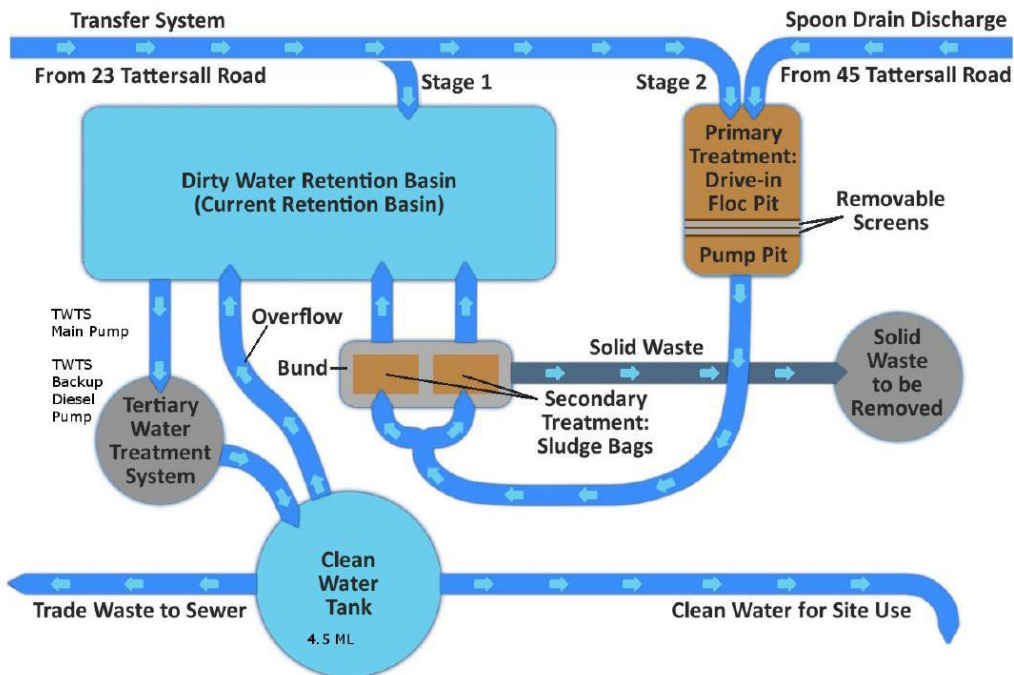


Figure 4: Water Treatment System Design - The detail plan of the Water Treatment System is shown in the Site Drainage Plan in Appendix H

## 6.2.1 Primary Treatment System – Floc Pit

Water from the 45 Tattersall Road site is gravity fed into the existing floc pit and the coarse gross pollutants drop out ready for collection. Floating materials are removed manually. The transfer pump operates from this pit.

The upgrade will involve the modification of the existing floc pit and road into a drive through two-part system that allows coarse gross pollutants to fall out in the first section and floating materials to be removed via replaceable screens. A hydrocarbon boom will be utilised as required. Water passing through the screens will go into the floc pump pit ready for automatic transfer to the secondary treatment system. The existing Floc-Pit will be re-utilised and is constructed of reinforced concrete and the location is detailed on the Site Drainage Plan in **Appendix H** and **Appendix L**.

## 6.2.2 Secondary Treatment System – Sludge Bags

- Water is pumped from the Primary Treatment System (pump pit) to the Secondary Treatment System which consists of sludge bags in a bunded area on the retention basin wall. The bund is 15m in length, 5m wide with a 30cm gutter and constructed from reinforced concrete. The location is detailed on the Site Drainage Plan in **Appendix H**. The bags will retain the majority of the sediment while filtered water will seep out into the bund and then gravity feed down a sluice pipe into the retention basin. The sludge bags will retain suspended solids likely being clay but potentially also metals and hydrocarbons.
- Sludge removal takes place as required
- The potential environmental risks of the solid waste to be removed from the proposed water treatment plan include
- The sludge material potentially containing metals and hydrocarbons which may give rise to a risk of contamination
- The steps to mitigate these risks include

- Where practicable remove materials before they reach the retention pond and sludge bags
- When a sludge bag is full it will be replaced
- The full sludge bag will be taken off line and allowed to dry on a concrete bunded area
- 
- The semi dried sludge is processed through the flocculation plant to recover metals
- The Treated Water flow from the Secondary Treatment System goes into the Retention Basin which then goes into the Tertiary Treatment System and is then pumped into the clean water tanks.

### **6.2.3 Tertiary Water Treatment System**

The Tertiary Water Treatment System (TWTS) will remove fine suspended particulate material. This system will be utilised to provide a water quality that meets the requirements for Sydney Water sewer discharge. The TWTS will be utilised as required before anticipated large rainfall events and during heavy rains to maximise available storage capacity and maximise discharge to sewer. This system will have two pumps, one being the main pump and the other being a secondary diesel pump as a back up in the event of the main pump failure.

### **6.2.4 Existing on site Retention basin**

The site retention design utilises the existing retention basin. A validation program to test retention basin integrity has been undertaken in consultation with the EPA and no issues have been identified. Sell and Parker will continue to undertake yearly validation sampling to ensure ongoing efficacy of the retention basin.

### **6.2.5 Tanks**

Treated water will be pumped from the retention basin into the Tertiary Treatment System. Tertiary treated water is stored in above ground tank/s. The water is utilised for site reuse and discharged to trade waste if and when required. In the event of a transfer failure or if required to improve retention basin water quality, overflow from the tank/s will be transferred back to the retention basin. The tank(s) size capacity, details and elevations are included in the ADW Johnson Storm Water Management report in **Appendix L**. The location of the tank(s) are included in the Site Drainage Plan in **Appendix H** and are not located in car parking areas.

### **6.2.6 Transfer System**

The dirty water transfer system from 23 Tattersall Road pumps directly into the primary water treatment pit.

### **6.2.7 Controlled discharge to sewer**

Discharge to sewer will occur in accordance with the Sydney Water Trade Waste Permit (Conditional Consent 39940) included in Appendix N.

The contingency measure to prevent waste water that does not meet the Sydney Water Trade waste water criteria from being discharged is the installation of a shut off valve. The valve can be activated such that no water can enter the trade waste system. This is detailed on the Site Drainage Plan in **Appendix H**.

Should there be an event where the discharge criteria is not met and the discharge of waste water to sewer is prevented by the activation of the shut off valve, the contingency protocol for the disposal of waste water will be:

- The shut off valve will have been activated
- The water is returned to the retention basin and sent back through the WTS again for treatment. At this stage, the continuous filling and emptying of the tanks is effectively a closed loop system with the activation of the shut off valve and will result in an equilibrium transfer with water being discharged from the tanks at the same rate it is being replenished.
- If the re-treated water meets the discharge criteria, it will be discharged to trade waste or utilised for on site processing requirements
- If the re-treated water does not meet the discharge criteria it will be removed via an appropriately licenced contractor for disposal at an appropriately licenced liquid waste facility.

The trade waste discharge will be via metered pipe from the clean water tank/s to the sewer discharge point. It will include a visual air gap backflow prevention connection from pipe discharge to the Sydney Water sewer connection.

The tank/s discharge valve will be automatically operated and allow control of the flowrate based on the inline flow meter. While capability will exist to install a pump, the head pressure shall be sufficient to allow discharge under gravity control.

Controlled Discharge to sewer will occur as required; i.e. in the event of a major storm event or rainfall in excess of the site holding capacity. It is to manage site capacity to address a 1:100 year, 72 hour rain fall event. The system will include an automated control valve at the discharge point and an automatic float switch in the tank(s). This will provide an automatic system to control the discharge rather than a manual system. This is detailed on the Site Drainage Plan in **Appendix H**.

No uncontrolled stormwater discharges off-site are permitted. In the unlikely event the design capacity of the retention systems are exceeded during intensive rainfall events, the rear yards will be utilised as capture basins to minimise off site discharge.

## **6.2.8 Water Treatment System Trialling**

Water Treatment System Trialling has already been carried out. The sample trial results are included in **Appendix N** and are acceptable to Sydney Water. Should further large scale trial work be required it will be conducted by suitably qualified and experienced persons in consultation with the EPA, if required. It is anticipated that such trials will be conducted off-site.

## **6.2.9 Water Treatment Commissioning**

The commissioning phase was undertaken in 2017. The commissioning was undertaken by a suitably qualified and experienced person(s) in consultation with the EPA. Components of the WMS, primary, secondary and tertiary, were tested in isolation and then in combination to determine the net affect they have on the retention basin water quality. Commissioning was undertaken in accordance with Condition B7 of the Original Approval and included off-site trials. The construction and commissioning of the WTS was conducted in consultation with Sydney Water in relation to the trade waste discharge license. Final approval of the trade waste discharge license was subject to sign off on the built system by Sydney Water.

## 6.2.10 Water Quality Sampling

Regular sampling of internal and external waters has been conducted to form a baseline study of water qualities. Water quality sampling is regularly undertaken on site to test the quality of water that is being reused in comparison to the established baseline data.

Note: The performance of the WMS against EPL discharge limits is not required as there is no EPA approval for discharge of waters.

## 6.3 Flood Management

The following actions have been taken to mitigate flooding on site:

- the finished floor level of any new building is a minimum of 0.5 metres above the 1 in 100 year Average Recurrence Interval flood level (**Appendix J**);
- any part of a new structure below the 1 in 100 year Average Recurrence Interval flood level will be designed and constructed to be compatible with flooding; and
- any perimeter fence or wall will not restrict or impeded the flow of overland flow.

## 6.4 Erosion and Sediment Measures

To mitigate against soil migration Sell & Parker have implemented an erosion and sediment measures on-site in accordance with *Managing Urban Stormwater – Soils and Construction Volume 1 (Landcom) 2004*.

Soil mitigation measures are detailed in the Construction Environment Management Plan (CEMP).

## 6.5 Bunding

Requirements for chemical storage on site are;

- all chemicals shall be stored in a containment device;
- all containment devices shall meet the requirements of *Storing and handling liquids: Environmental Protection – Participants manual (DECC) 2007*;
- the (GEM) will check all bunds visually during the monthly site inspection; and
- regular bund integrity tests shall be conducted.

## 6.6 Fire Water Tanks

The approved MOD 1 for this development includes a condition for a fire services system to be to the satisfaction for Fire and Rescue NSW (FRNSW). The approved FRNSW fire services design includes fire water tanks at the front of 23 Tattersall Road. These tanks are required for the fire system to service the buildings on the 23 Tattersall Road site. These tanks are indicated on the site plan in **Appendix A** but are not part of the site Water Treatment System.

## 7 CONTROL MEASURES

The WMS has been designed to fulfil the requirements of the EIS prepared by ERM dated June 2014, which is part of the Original Approval. It is designed to contain a rainfall event of ARI 1:100, 72 hour duration. Details are available in the ADW Johnson Storm Water Management Report in **Appendix L**.

### 7.1 Site Design Water Balance

The site has been designed on the ADW Johnson Storm Water Management Report. The design will segregate clean and dirty areas so water can be captured and diverted to maintain separation. Clean water from roofs and the front carpark drains to neighbouring waterways as storm water. Dirty water is captured in the retention basin. Retention basin water is processed for reuse; for details see Section 6.1. The site drainage will be constructed in accordance with the ADW Johnson Site Drainage Plan in **Appendix E**.

A detailed site water balance is included in the ADW Johnson Stormwater Management Report in **Appendix L**.

All recommendations from the AWD Johnson Storm Water Management Report have been adopted.

### 7.2 Water Reuse

The reuse of water has been assessed and reported by ERM in the document *45 Tattersall Road, Kings Park - Water Reuse Risk Assessment* of the 22nd March 2016 and is attached as **Appendix I**. It has been deemed suitable for reuse within the hammermill.

Site water reuse will undergo re-assessment when there is:

- a significant negative change in water quality test results against baseline data, or
- internal complaints about the water quality, or
- modifications to the water treatment system.

### 7.3 Water Quality Limits

Sell & Parker do not have a water discharge on their EPL. Dirty water is therefore retained on site and is not discharged to local waterways. Therefore, there are no water quality limits in place. With implementation of the new primary, secondary and tertiary treatment systems, discharge is to trade waste.

### 7.4 Engineering Controls

#### 7.4.1 Retention basin

The retention basin will remain unchanged from its current storage configuration. Additions to the storage capacity of the system will be done with above ground storage tanks.

Water capture and treatment prior to the retention basin has been upgraded to improve its sediment handling capabilities and to provide a final water quality suitable for sewer discharge. The front flocculation pit has been redesigned to facilitate easier cleaning and improve gross material retention. Water is being transferred from this pit to a sludge filtration system to remove the majority of suspended particulates. Cleaned water



returns to the retention basin. A tertiary treatment system has been installed to meet Sydney Water sewer discharge requirements. Details can be found in the ADW Johnson Stormwater Management Report in Appendix L.

### **7.4.2 Drains**

The car parks and driveway areas all have filtration systems installed to capture gross particles and hydrocarbons. These are inspected monthly by the GEM and replaced when necessary.

### **7.4.3 Roof Areas**

Discharge from the clean catchment will not be retained. Rainwater will be directed to neighbouring waterways at a rate determined by rainfall intensity.

### **7.4.4 Wheel Wash**

All ferrous and construction vehicles leaving site will exit via a wheel wash to minimise transportation of materials onto roadways.

Regular removal of captured sediment and regular replacement of wash water will improve the efficiency of the wheel wash.

Wash water will be directed through the dirty water catchment system.

## **7.5 Administrative Controls**

The following water management administrative controls are conducted on site. The GEM is responsible for ensuring they are maintained:

- product inspections;
- street sweeping;
- monthly site inspections; and
- enforcement of the WMP.

## 8 MONITORING MEASURES

### 8.1 Retention Basin

The GEM is responsible for inspecting the retention basin on a weekly basis. The checks are to monitor the physical state of the basin, the volume of water and to determine if there are any obvious water quality issues. The inspections will incorporate periodic pH testing and inspection of the treatment systems.

The GEM is responsible for undertaking testing of the retention basin water in accordance with the site specific monitoring requirements. The outcomes of monitoring will be recorded in the water analysis spreadsheet. This spreadsheet provides the baseline data for the retention basin water quality.

### 8.2 Breakfast Creek

Sell & Parker do not have an EPL discharge point into Breakfast Creek. The controlled discharge has been changed from the original concept of utilising local waterways to utilising trade waste.

### 8.3 Storm Water

The GEM is responsible for monitoring the effectiveness of all environmental measures in place to manage storm water quality. These measures are based on the ADW Johnson Stormwater Management Plan (**Appendix L**). This monitoring includes conducting a monthly inspection. Additional environmental monitoring will be undertaken if it is deemed required.

No uncontrolled stormwater discharges off-site will be permitted as per the EPL. In the unlikely event the design capacity of the retention system is exceeded during intensive rainfall events, the rear yards are utilised as capture basins to avoid off site discharge.

### 8.4 Operational Water Use Balance

A site water usage spreadsheet is utilised on site on a monthly basis to monitor water usages and validate operational usages. It is useful for monitoring the impact of changes to validate the actual effects against theorised outcomes. It is also useful for identifying unexpected changes which allows early intervention to occur.

This spreadsheet is centralised around the retention basin and its inputs and outputs. It is designed to give a quantifiable indication of water losses due to failures and operational inefficiencies. It is the GEM's responsibility to update this spreadsheet monthly. This spreadsheet is used to indicate potable water use that is a Key Performance Indicator (KPI) for site operations.

This spreadsheet is a site monitoring and issue identification tool. It is not designed to control the overall site water distribution system or the dirty versus clean water distribution.

### 8.5 Inspections

Each month there is a formal site inspection conducted by the GEM. The inspections, amongst other objectives, are designed to:

- Ensure all reasonable and feasible measures are employed to minimise water pollution;
- Ensure compliance with conditions of the consent;

- Ensure any construction works being carried out are in accordance with the Construction Environment Management Plan; and
- Ensure the development operations are being carried out in accordance to the WMP.

This is achieved by inspecting the areas included but not limited to the following:

- Road surfaces for quality and dirt loading;
- Wheel wash for operational condition and sediment accumulation;
- Landscaped areas for runoff zones;
- Operational areas for poor housekeeping practices
- Retention Basin for water quality; and
- Drains for filter condition.

Results of the inspections are recorded and kept on file.

## **8.6 Sampling**

Sampling of the retention basin will occur on the below basis

- Ph test on a weekly basis and
- Metal analysis as required
- As per Sydney Water requirements when discharging
- Groundwater – yearly

## 9 CRITERIA EXCEEDANCE PROTOCOL

The GEM checks the retention basin weekly. Observations that suggest there is an issue with the retention basin or the water quality will result in an examination being conducted.

Should there be a confirmed occurrence of an exceedance of a water quality goal then the below corrective actions are initiated.

### 9.1 Corrective Actions

When monitoring indicates that there has been a significant change in water quality, corrective actions shall be instigated. The corrective actions shall be the responsibility of GEM; it is their task to ensure:

- That the source/s of the exceedance are determined;
- That the issue is promptly addressed (works or measures may be carried outside of operational hours if required);
- Contingency measures, if required, shall be determined and put in place, such as;
  - disinfection of the water system;
  - deodorisation of a system or activity;
  - activity reduction; or
  - activity cessation.
- Directors are notified;
- If required, relevant regulating authorities will be notified;
- Where required operations are reduced or ceased as a result of the issue, legible records of the event shall be kept. These records are to include as a minimum;
  - date and time; and
  - activities reduced.
- Ceased operations shall not recommence until the issue has been resolved.

The GEM is responsible for:

- determining the source/s of the issue;
- improvement processes to mitigate against the issue reoccurring;
- logging the issue so it will be discussed in the yearly review;
- updating, where applicable, the relevant sections of the Blacktown Environment Management System (BEMS);
- providing feedback of the resolution process to a complainant, if applicable; and
- handling the event as per the exceedances process and the communication of the event as per the external audit process, when an exceedance is determined through an external audit.

### 9.2 Incident Management

All incidents and near misses are documented and recorded by the Group Safety Manager (GSM). All issues with an environmental aspect are recorded by the GEM in the environmental incident and near miss register. This data is presented during the yearly review. Negative trends will be investigated and root causes determined. Changes will be made to reduce determined root causes of incidents.

If an event or activity occurs that has, is likely to, or could potentially cause harm to the environment, whether that harm is on or off the premise, the emergency management procedure will be enacted as set out in Section 9.3 below.

### **9.3 Emergency Management**

Environmental emergencies will enact the Pollution Incident Response Management Plan (PIRMP). The PIRMP has been updated to reflect the expansion of the Facility. It is available on the Sell & Parker web site, [www.sellparker.com.au](http://www.sellparker.com.au) under links and Environmental Reports. If the PIRMP is enacted then the EPA and DPIE will be informed as will other regulatory authorities as outlined in the plan.

### **9.4 Investigations**

Environmental incidents and high potential near misses will be scrutinised by the GEM to determine if an investigation is warranted. All proven exceedances will be investigated. When a formal environmental investigation is to be conducted, the GEM will be the lead investigator. Investigations shall be conducted as per the established procedure.

### **9.5 Reporting and Publishing of Results**

All environmental statutory reporting will be conducted by the GEM in consultation with management. Information will be issued after formal approval from a director. All information is available on the Sell & Parker website [www.sellparker.com.au](http://www.sellparker.com.au), as per Condition 14 in the Original Approval.

## 10 COMPLAINTS

Complaints are handled as outlined in the complaints handling procedure and documented on the complaints handling form and recorded on the complaints handling register. The complaints register is available on the Sell & Parker website, [www.sellparker.com.au](http://www.sellparker.com.au).

Sell & Parker have a complaints phone number (02 8212 9561) as advertised next to the exit gate at 45 Tattersall Road. Complaints can also be registered through the Sell & Parker website [www.sellparker.com.au](http://www.sellparker.com.au), or by calling the facility at 23-45 Tattersall Road, Kings Park on 02 9621 2633.

If there are any specific water related complaints, they shall be investigated as per the critical exceedance protocol – Section 9.0.

## 11 AUDITS

### 11.1 Internal

Sell & Parker will conduct topic specific audits to validate that its systems are tracking and controlling environmental aspects that have a potential to cause non-conformances against its regulatory responsibilities. The GEM shall be responsible for audits.

### 11.2 External

Sell & Parker as per Condition C9 in the Original Approval, will conduct independent audits, conducted by a suitably qualified auditor, to assess the progress of the development against its consent conditions for the life of the consent. The auditor shall:

- be approved by the Secretary as per condition C9 (a) of the Original Approval;
- meet Condition C9 (b) of the consent; and
- audit against Conditions C9 (c), (d), (e) and (f) of the Original Approval.

The results of the audit will be presented to the Sell & Parker board and be available on the Sell & Parker website.

Within three (3) months of commissioning the audit, a copy of the report with Sell & Parker responses to any recommendations made will be provided to the Secretary.

## 12 WATER MANAGEMENT PLAN REVIEW

As per condition C12 of the Original Approval, a review of relevant sections of the BEMS will be instigated:

- when conducting an annual review;
- after an incident that results in regulator notification;
- when conducting an external third party audit; and
- when modifying the consent.

A yearly review of the development including the environmental performance of the operations shall be presented at a Board Meeting. Issues to be discussed in the meeting include, but are not limited to, the items listed in Condition C11 of the Original Approval.

As part of Sell & Parkers continuous improvement commitment, to ensure compliance now and in the future, the CEMP will be revised as required to incorporate measures, protocols or procedures to improve the environmental performance of the Facility.



## 13 REVIEW OF PLANS

As per Condition C13 of the Original Approval, the operation of the Facility will be “undertaken in accordance with all relevant updated and/or amended strategies, management plans and programs approved by the Secretary (or as revised and approved by the Secretary), unless otherwise agreed by the Secretary”.

Should a modification to the Original Approval be approved, the relevant management plan/s will be updated and sent to the Secretary for approval.

Rev. No	Rev. Date	Revision Description	Prepared By	Approved By	Signed
A	December 2016	New document	MH	CM	MH
B	March 2017	Respond to EPA comments	MH	CM	MH
C	June 2017	Respond to EPA & DP&E comments	MH	CM	MH
D	July 2017	Respond to EPA & DP&E comments	MH	CM	MH
E	August 2017	Respond to EPA & DP&E comments	MH	CM	MH
F	October 2017	Revised Plan and LEC S96 Approval	MH	CM	MH
G	March 2018	Revised Layout	MH	CM	MH
H	September 2019	Changes associated with MOD 3	FM, SF	HR	HR

## 14 REFERENCES

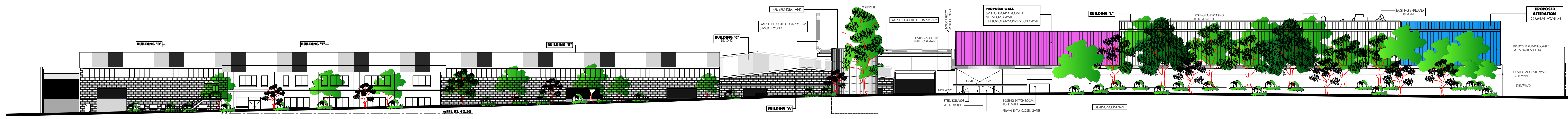
Kings Park Metal Recycling Development Consent November 2015

<https://majorprojects.affinitylive.com/public/3d00896d6ecd08883cd4e0f2afd6fcb1/02.%20Kings%20Park%20Metal%20Recycling%20Facility%20Consent%20Nov.pdf>

Soil and Water Management Environmental Impact Statement March 2014

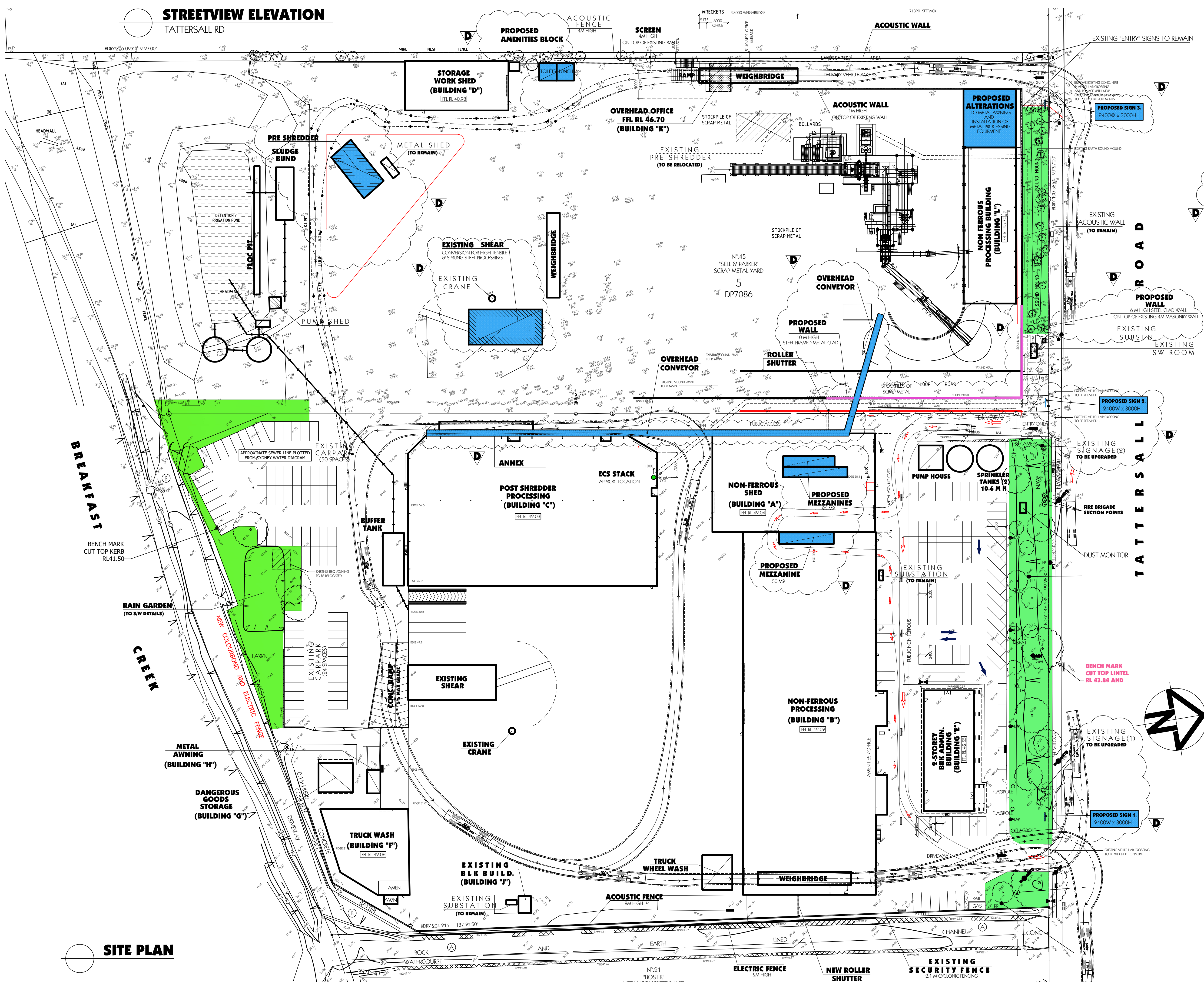
[https://majorprojects.affinitylive.com/public/620b60f71334d0c9867c856c22559b42/Annex%20J\\_Soil%20&%20Water%20Management.pdf](https://majorprojects.affinitylive.com/public/620b60f71334d0c9867c856c22559b42/Annex%20J_Soil%20&%20Water%20Management.pdf)

## APPENDIX A AMENDED SITE LAYOUT



**STREETVIEW ELEVATION**

TATTERSALL RD

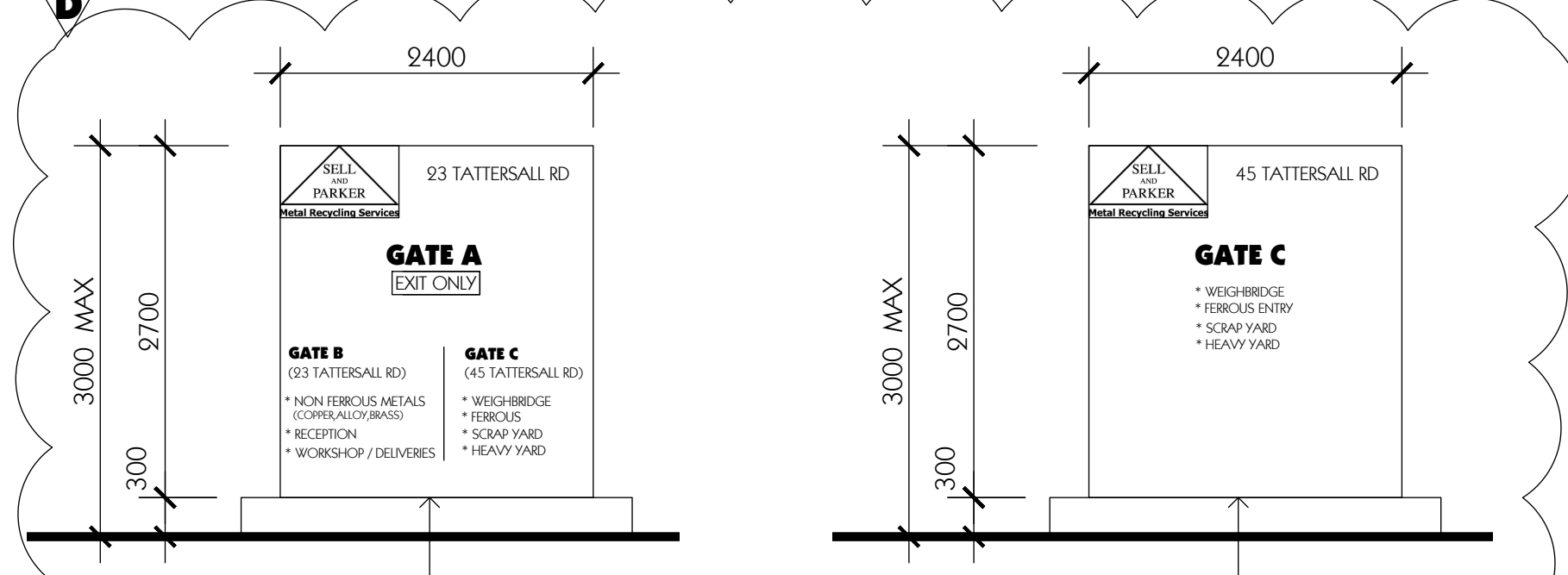


**LEGEND**

- EXISTING STRUCTURE TO REMAIN
- EXISTING STRUCTURE TO BE REMOVED
- PROPOSED ALTERATIONS & ADDITIONS
- EXISTING STRUCTURE TO BE FOR REUSE OR TO BE RELOCATED
- PROPOSED WALL EXTENSION
- LANDSCAPED AREAS TO REMAIN

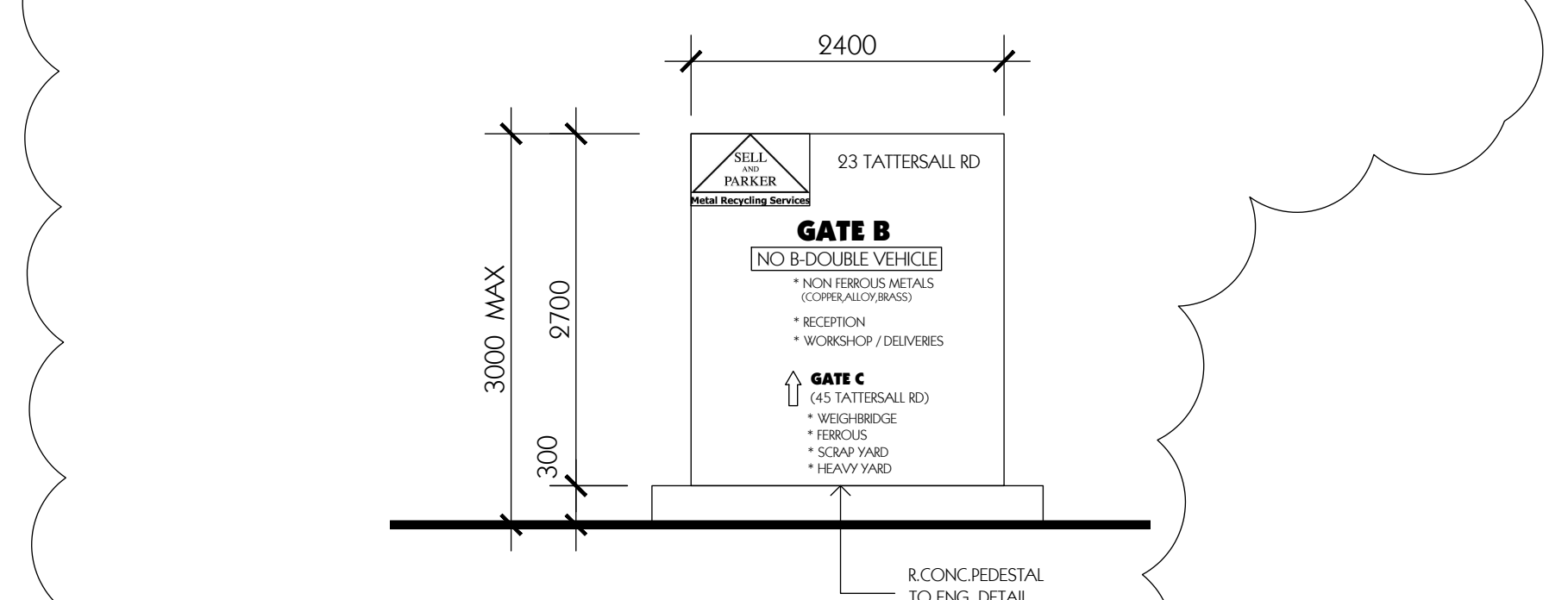
**DEVELOPMENT DATA**

SITE AREA	59 475 M2 approx.		
	FLOOR AREAS	OFFICE / AMEN	AWNING
BUILD "A"	1978 M2	194 M2	
BUILD "B"	3162 M2	488 M2	
BUILD "C"	2981 M2		106 M2
BUILD "D"	415 M2		
BUILD "E"	984 M2		
BUILD "F"	494 M2		
BUILD "G"	81 M2		
BUILD "H"	25 M2		
BUILD "I"	17 M2		
BUILD "K"	47 M2		
BUILD "L"	593 M2		
<b>TOTAL</b>	<b>10 077 M2</b>	<b>462 M2</b>	<b>106 M2</b>



**PROPOSED SIGN 1.**  
NB: INDICATIVE ONLY AND SUBJECT TO DETAILED DESIGN

**PROPOSED SIGN 3.**  
NB: INDICATIVE ONLY AND SUBJECT TO DETAILED DESIGN



**PROPOSED SIGN 2.**  
NB: INDICATIVE ONLY AND SUBJECT TO DETAILED DESIGN

**SITE PLAN**

Issue	By	Description	Date
A	CZ	SECTION 96	01/06/18
B	CZ	MODIFICATION APPLICATION 4.55	03/12/18
C	CZ	MODIFICATION APPLICATION 4.55	21/01/19
D	CZ	MODIFICATION APPLICATION 4.55	29/01/19

**GENERAL NOTES**

- All dimensions and floor areas are to be verified by the Builder prior to the commencement of any building work. Any discrepancies are to be brought to the attention of the designer.
- Levels shown are approximate unless accompanied by reduced levels.
- Figured dimensions must be taken in preference to scaling.
- All boundary clearances must be verified by the surveyor prior to the commencement of any building works.
- Where engineering drawings are required such must take preference to this drawing.
- Stormwater to be discharged to Council's requirements and AS 3500.3-1990.
- All services to be located and verified by the Builder with relevant authorities before any building work commences.

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**CONSULTANTS**

Date: NOVEMBER 2017  
Scale: 1:500 UNO  
Drawn: JLAIRA  
Checked: CZAPPIA  
Certified:

**ALGORRY ZAPPIA & ASSOCIATES PTY. LTD.**  
Consulting Civil & Structural Engineers & Building Designers

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Project: **PORPOSED ALTERATIONS TO EXISTING RECYCLING CENTRE**  
**LOT 2 DP550529 & LOT 5 DP7086, No 23 & 45 TATTERSALL RD, KINGS PARK**

Client: **SELL & PARKER METAL**

Title: **DEVELOPMENT APPLICATION SITE PLAN**

Activity Type: **DA**

Job No.: **2182-17**

Project No.: **P4144**

Sheet No.: **A101**

Issue: **D**

**APPENDIX B ENVIRONMENTAL POLICY**



**Metal Recycling Services**

**ENVIRONMENTAL POLICY**

This Policy applies to all Sell and Parker and associates entities (Sell and Parker) employees, contractors and visitors.

Sell and Parker are committed to achieving a clean and healthy environment by providing services, conducting operations and recycling material that will not cause harm to the environment.

Sell and Parker are committed to minimizing our environmental footprint in the course of our business operations.

Sell and Parker are committed to developing, implementing and maintaining an Environmental Management System (EMS) that complies with the requirements of international standard ISO 14001.

We will meet these commitments through the following objectives:

- Ensure all employees, contractors and associates have an understanding of this Policy, the EMS, Storm water Management Plan and Safe Working Procedures.
- Ensure all operations are undertaken in an environmentally responsible manner and in accordance with the relevant environmental legislation, regulations, statutory obligations and relevant voluntary codes of practice.
- Measure, monitor and report on environmental initiatives.
- Regularly review our business operations to identify and implement opportunities for improvement.
- Record, investigate and implement the appropriate corrective action for all environment incidents.
- Periodically review and revise this Policy and Safe Working Procedures to maintain their relevance.

Sell and Parker reserves the right to remove from the work site anyone who breaches these conditions. For employees any breach of this Policy will be considered serious and may result in disciplinary action, up to and including termination of employment, legal action could be taken against them and they could be exposing Sell and Parker to liability.

All Sell and Parker Managers are held accountable for ensuring this Policy is effectively implemented.

Responsibility for the application of this Policy lies with all Sell and Parker employees, contractors and visitors undertaking activities on behalf of Sell and Parker and within Sell and Parker control.

Luke Parker  
**Director**  
Sell and Parker Pty Ltd

Morgan Parker  
**Director**  
Sell and Parker Pty Ltd

<b>Doc #:</b> PM-P01	<b>Version:</b> 1.0	<b>Date:</b> 06/2014	<b>Review Date:</b> 06/2015
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## **APPENDIX C ORIGINAL APPROVAL**

# Development Consent

## Section 89E of the *Environmental Planning and Assessment Act 1979*

I grant consent to the development application referred to in Schedule 1, subject to the conditions in Schedule 2.

These conditions are required to:

- prevent, minimise, and/or offset adverse environmental impacts including economic and social impacts;
- set standards and performance measures for acceptable environmental performance;
- require regular monitoring and reporting; and
- provide for the ongoing environmental management of the development.

  
Daniel Keary  
**A/Executive Director**  
**Key Sites and Industry Assessments**

Sydney 12<sup>th</sup> NOVEMBER 2015

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### SCHEDULE 1

**Application No.:** SSD 5041

**Applicant:** Sell and Parker Pty Ltd

**Consent Authority:** Minister for Planning

**Land:** 23-43 and 45 Tattersall Road, Kings Park (Lot 2 DP 550522 and Lot 5 DP 7086)

**Development:** Increasing the processing capacity of the existing metal recycling facility, including reconfiguration and expansion of the facility into the adjoining site at 23-43 Tattersall Road, Kings Park.



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## DEFINITIONS

Act	<i>Environmental Planning and Assessment Act 1979</i>
Applicant	Sell and Parker Pty Ltd, or anyone else entitled to act on this consent
Construction	The demolition of buildings or works, the carrying out of works, including bulk earthworks, and erection of buildings and other infrastructure covered by this consent
Council	Blacktown City Council
Day	The period from 7 am to 6 pm on Monday to Saturday
Department	Department of Planning and Environment
Development	The development that is approved by this development consent and as generally described in Schedule 1
EIS	Environmental Impact Statement prepared by ERM dated July 2014
ENM	Excavated Natural Material
EPA	Environment Protection Authority
EPL	Environment Protection Licence under the <i>Protection of the Environment Operations Act 1997</i>
Evening	The period from 6 pm to 10 pm
Feasible	Feasible relates to engineering considerations and what is practical to build
Heavy vehicle	Any vehicle with a gross vehicle mass of 5 tonnes or more
Heritage Item	An item as defined under the <i>Heritage Act 1977</i> , and assessed as being of local, State and/ or National heritage significance, and/or an Aboriginal Object or Aboriginal Place as defined under the <i>National Parks and Wildlife Act 1974</i> .
Incident	A set of circumstances that: <ul style="list-style-type: none"><li>• causes or threatens to cause material harm to the environment; and/or</li><li>• breaches or exceeds the limits or performance measures/criteria in this consent</li></ul>
Material harm to the environment	Actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial
Mitigation	Activities associated with reducing the impacts of the development prior to or during those impacts occurring
Morning shoulder	The period from 6 am to 7 am on Monday to Saturday
OEH	Office of Environment and Heritage
Operation	The receipt or processing of waste
POEO Act	<i>Protection of the Environment Operations Act 1997</i>
Reasonable	Reasonable relates to the application of judgement in arriving at a decision, taking into account: mitigation benefits, cost of mitigation versus benefits provided, community views and the nature and extent of potential improvements
Regulation	<i>Environmental Planning and Assessment Regulation 2000</i>
Secretary	Secretary of the Department, or nominee
Site	Land referred to in Schedule 1
VENM	Virgin Excavated Natural Material

## SCHEDULE 2

### PART A ADMINISTRATIVE CONDITIONS

#### OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT

- A1. The Applicant shall implement all reasonable and feasible measures to prevent and/or minimise any harm to the environment that may result from the construction, operation or decommissioning of the Development.

#### TERMS OF CONSENT

- A2. The Applicant shall carry out the Development in accordance with the:
- EIS prepared by ERM dated July 2014;
  - Response to Submissions report prepared by ERM dated 7 January 2015;
  - Supplementary Response to Submissions prepared by Mecone dated 30 June 2015;
  - Supplementary Response to Submissions prepared by Sell and Parker Pty Ltd dated 3 September 2015;
  - Site layout plans and drawings (See Appendix A); and
  - Management and Mitigation Measures (see Appendix B).
- A3. If there is any inconsistency between the above documents, the most recent document shall prevail to the extent of the inconsistency. However, the conditions of this consent shall prevail to the extent of any inconsistency.
- A4. The Applicant shall comply with any reasonable requirement/s of the Secretary arising from the Department's assessment of:
- any reports, plans, strategies, programs or correspondence that are submitted in accordance with this consent; and
  - the implementation of any actions or measures contained in these reports, plans, strategies, programs or correspondence.

#### STATUTORY REQUIREMENTS

- A5. The Applicant shall ensure that all licences, permits, and approvals/consents are obtained as required by law and maintained as required throughout the life of the Development. No condition of this consent removes the obligation for the Applicant to obtain, renew or comply with such licences, permits or approvals/consents.

#### BUILDING CODE OF AUSTRALIA

- A6. The Applicant shall ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures are constructed in accordance with the relevant requirements of the *Building Code of Australia*.

#### LIMITS OF CONSENT

##### Waste limits

- A7. The Applicant shall not receive or process on the site more than 350,000 tonnes per calendar year of waste, subject to Condition A8.
- A8. Despite Condition A7, the Applicant shall not receive or process on the site more than 90,000 tonnes per calendar year of waste (on a weekly pro-rata basis) until:
- the Emissions Collection System for the hammer mill has been commissioned in accordance with Condition B20 and approved by the Secretary for operation; and
  - a Final Occupation Certificate has been issued for the Development.

A9. In deciding whether to grant approval to operate the Emissions Collection System for the hammer mill in accordance with Condition A8, the Secretary shall take into account the Commissioning Report submitted in accordance with Condition B21.

A10. The Applicant must record the amount of waste (in tonnes) received at the site on a daily basis.

**Waste type**

A11. The Applicant shall not cause, permit or allow any materials or waste generated outside the site to be received at the site for storage, treatment, processing, reprocessing, or disposal on the site, except as expressly permitted by an EPL.

**DEMOLITION**

A12. The Applicant shall ensure that all demolition work is carried out in accordance with *Australian Standard AS 2601:2001: The Demolition of Structures*, or its latest version.

**SURRENDER OF CONSENT**

A13. In order for the development of land to proceed in a coordinated and orderly manner and to avoid potential conflicts with this consent, the Applicant shall and in the manner prescribed by clause 97 of the Regulation, surrender the development consents described in Table 1 within 14 days of the issue of a Construction Certificate for the Development.

**Table 1 – Consents to be surrendered**

<b>Development Application No. DA-96-305</b>	
<b>Land description</b>	45 Tattersall Road, Kings Park
<b>Development Description</b>	Metal recycling facility on the southern portion of the site.
<b>Date</b>	27 November 1996
<b>Development Application No. 10204 of 2000</b>	
<b>Land description</b>	45 Tattersall Road, Kings Park
<b>Development Description</b>	Establishment of a hammermill and associated components and an approved handling capacity of 60,000 tpa on the northern portion of the site.
<b>Date</b>	11 May 2001

**STAGED SUBMISSION OF PLANS OR PROGRAMS**

A14. With the approval of the Secretary, the Applicant may:

- a) submit any strategy, plan or program required by this consent on a progressive basis; and/or
- b) combine any strategy, plan or program required by this consent.

A15. Until they are replaced by an equivalent strategy, plan or program approved under this consent, the Applicant shall continue to implement existing strategies, plans or programs for operations on site that have been approved by previous consents or approvals.

*Note:*

- *If the submission of any strategy, plan or program is to be staged, then the relevant strategy, plan or program must clearly describe the specific stage to which the strategy, plan or program applies, the relationship of this stage to any future stages and the trigger for updating the strategy, plan or program.*
- *There must be a clear relationship between the strategy, plan or programs that are to be combined.*

## **OPERATION OF PLANT AND EQUIPMENT**

- A16. The Applicant shall ensure that all plant and equipment used for the Development is:
- a) maintained in a proper and efficient condition; and
  - b) operated in a proper and efficient manner.

## **METEOROLOGICAL MONITORING**

- A17. Within 14 days of the issue of a Construction Certificate for the Development, the Applicant shall install a suitable meteorological station on the site that complies with the requirements in the latest version of the *Approved Methods for Sampling of Air Pollutants in New South Wales*. The Applicant shall operate the meteorological station for the life of the Development.

## **PROTECTION OF PUBLIC INFRASTRUCTURE**

- A18. The Applicant shall:
- a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the Development; and
  - b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the Development.

## **DISPUTE RESOLUTION**

- A19. In the event of a dispute between the Applicant and a public authority, in relation to an applicable requirement in this consent or relevant matter relating to the Development, either party may refer the matter to the Secretary for resolution. The Secretary's determination of any such dispute shall be final and binding on the parties.

## **PART B ENVIRONMENTAL PERFORMANCE**

### **WASTE MANAGEMENT**

- B1. Within 14 days of the issue of a Construction Certificate for the Development, the Applicant shall implement a Waste Monitoring Program for the Development. The program must:
- a) be prepared by a suitably qualified and experienced person(s);
  - b) include suitable provisions to monitor the:
    - (i) quantity, type and source of waste received on site; and
    - (ii) quantity, type and quality of the outputs produced on site.
  - c) ensure that:
    - (i) all waste that is controlled under a tracking system has the appropriate documentation prior to acceptance at the site; and
    - (ii) staff receive adequate training in order to be able to recognise and handle any hazardous or other prohibited waste including asbestos.

### **SOIL AND WATER**

#### **Compliance Certificate**

- B2. A Section 73 Compliance Certificate under the *Sydney Water Act 1994* must be obtained from Sydney Water prior to the commencement of construction.

#### **Pollution of waters**

- B3. The Development shall comply with section 120 of the POEO Act, which prohibits the pollution of waters, except as expressly provided in an EPL.

#### **Water Management Plan**

- B4. Prior to the commencement of construction of the Development, the Applicant shall prepare a Water Management Plan to the satisfaction of the Secretary. The plan must:
- a) be prepared by a suitably qualified and experienced person(s) in consultation with the EPA;
  - b) include a detailed site water balance;
  - c) include details of water management, monitoring and incident response arrangements;
  - d) include the details of the:
    - (i) Water Management System for the site (see Condition B6);
    - (ii) Water Management System commissioning, including the time frames for each stage of the commissioning (see Condition B7);
    - (iii) Water Treatment Plant Trial, if required (see Condition B8);
    - (iv) erosion and sediment controls (see Condition B9);
    - (v) bunding (see Condition B10);
    - (vi) flood management (see Condition B11); and
    - (vii) clean water runoff areas that discharge direct to stormwater without treatment (i.e. car parks and roofs).
- B5. The Applicant shall carry out the Development in accordance with the Water Management Plan approved by the Secretary (as revised and approved by the Secretary from time to time), unless otherwise agreed by the Secretary.

#### **Water Management System**

- B6. The Applicant shall operate a Water Management System for the site. The system must:
- a) be designed by a suitably qualified and experienced person(s) in consultation with the EPA;
  - b) include a treatment system with primary, secondary and tertiary treatment components;
  - c) be consistent with the guidance in *Managing Urban Stormwater - Soils and Construction Vol. 1* (Landcom, 2004);
  - d) divert clean surface water around operational areas of the site;
  - e) include water quality monitoring that can determine the performance of the water management system against the EPL discharge limits;
  - f) include water reuse based on a risk assessment of environment and human health impacts; and
  - g) be commissioned in accordance with Condition B7.

### **Water Management System commissioning**

- B7. The Applicant shall commission the Water Management System prior to discharging any water from the site. The commissioning must:
- be completed within 2 years from the date of this consent, or within such other time agreed in writing by the Secretary;
  - be undertaken by a suitability qualified and experienced person(s) in consultation with the EPA;
  - include a program for acquiring baseline data of receiving waters and the establishment of site specific stormwater discharge criteria in the EPL;
  - including testing of the performance of all components of the Water Management System, including the primary, secondary, and tertiary treatment systems;
  - identify and implement changes to the Water Management System that may be necessary to achieve compliance with the discharge criteria in the EPL; and
  - include off-site trials of treatment technologies if necessary.

### **Water Treatment Plant trial**

- B8. As part of commissioning the Water Management System, the Applicant may implement off-site trials of components of the Water Management System. Any trial must be conducted by a suitably qualified and experienced person(s) in consultation with the EPA.

### **Erosion and sediment control**

- B9. The Applicant shall implement erosion and sediment control measures on-site in accordance with *Managing Urban Stormwater: Soils and Construction Vol. 1* (Landcom, 2004).

### **Bunding**

- B10. The Applicant shall store all chemicals, fuels and oils used on-site in appropriately banded areas in accordance with the requirements of all relevant Australian Standards, and/or EPA's *Storing and Handling Liquids: Environmental Protection – Participant's Manual 2007*.

### **Flood management**

- B11. The Applicant shall ensure that:
- the finished floor level of any new building is a minimum of 0.5 metres above the 1 in 100 year Average Recurrence Interval flood level;
  - any part of a new structure below the 1 in 100 year Average Recurrence Interval flood level is designed and constructed to be compatible with flooding; and
  - any perimeter fence or wall does not restrict or impede the flow of overland flow.

### **Imported soil**

- B12. The Applicant shall:
- ensure that only VENM, or ENM, or other material approved in writing by the EPA is used as fill on the site;
  - keep accurate records of the volume and type of fill to be used; and
  - make these records available to the Department upon request.

### **Contamination**

- B13. Prior to commencing any excavation works, the Applicant shall:
- identify all potential contaminants that could be disturbed, mobilised and discharged to receiving waters;
  - detail the procedures for testing, classifying, handling, storing and disposing of contaminated water, soils and/or groundwater encountered in excavations, in particular during excavation of the stormwater detention basin; and
  - detail the measures for periodically testing surface water run-off that may accumulate in excavations, and the procedures for off-site disposal of contaminated water.
- B14. The Applicant shall provide a contamination report to the Department detailing any contamination investigation carried out in the immediate vicinity of the existing detention basin. This report shall be provided to the Department on completion of the works to upgrade the detention basin.

## **AIR QUALITY**

### **Odour**

B15. The Applicant shall ensure the Development does not cause or permit the emission of any offensive odour (as defined in the POEO Act).

### **Emissions limits**

B16. The Applicant shall ensure that emissions from the Development do not exceed the emission limits specified in the EPL.

### **Air Quality Management Plan**

B17. Prior to the commencement of construction of the Development, the Applicant shall prepare an Air Quality Management Plan to the satisfaction of the Secretary. The plan must:

- a) be prepared by a suitably qualified and experienced person(s) in consultation with the EPA;
- b) describe the measures that would be implemented to ensure:
  - (i) all reasonable and feasible measures are employed to minimise air emissions;
  - (ii) compliance with the relevant conditions of this consent;
  - (iii) contingency measures are deployed to minimise impacts should adverse air emissions occur or appear likely to occur;
- c) include well defined triggers for the deployment of construction and operational air quality measures;
- d) include well defined triggers for ceasing or partially ceasing operations on site during adverse air quality conditions;
- e) include an Air Quality Monitoring System to evaluate the performance of the Development commensurate with the system proposed in the Air Quality Assessment, prepared by ERM dated September 2015;
- f) include details of the location, frequency and duration of monitoring; and
- g) include a protocol to determine the occurrence of any exceedance of the criteria in the EPL should an exceedance occur.

B18. The Applicant shall carry out the Development in accordance with the Air Quality Management Plan approved by the Secretary (as revised and approved by the Secretary from time to time), unless otherwise agreed by the Secretary.

### **Air emissions mitigation**

B19. The Applicant shall:

- a) operate the Development so that air emissions are minimised during all meteorological conditions; and
- b) implement best management practice, including all reasonable and feasible air and odour emissions mitigation measures to minimise emissions from the Development, including but not limited to:
  - (i) installation of an Emissions Collection System servicing the hammer mill that is capable of achieving emission control performance equivalent to the system described in the Air Quality Assessment prepared by ERM dated September 2015;
  - (ii) operating one oxy-acetylene torch at a time;
  - (iii) operating the oxy-acetylene torch only between the hours of 9 am and 3 pm;
  - (iv) cutting any metal beam that is up to 100 millimetres thick with the shear, where possible;
  - (v) enclosure of all conveyors and conveyor transfer points;
  - (vi) dust suppression through the use of water sprays/misters;
  - (vii) sealing of on-site surfaces and regularly maintaining them to prevent dust re-entrainment from vehicle movements and other equipment use; and
  - (viii) installation of appropriate dust screens at the property boundaries.

### **Emissions Collection System commissioning**

B20. The Applicant shall commission the Emissions Collection System for the hammer mill. The commissioning must:

- a) be undertaken by a suitably qualified and experienced person(s) in consultation with the EPA;



- b) test the performance of the system against the performance parameters set out in the Air Quality Assessment prepared by ERM dated September 2015; and
- c) identify and implement any changes to the system that may be necessary to achieve environmental air quality performance commensurate with that set out in the Air Quality Assessment prepared by ERM dated September 2015.

### Commissioning Report

B21. The Applicant shall submit to the Secretary a Commissioning Report detailing the outcomes of the commissioning of the Emissions Collection System for the hammer mill.

### Construction emissions mitigation

- B22. During construction, the Applicant shall ensure that:
- a) all vehicles on site do not exceed a speed of 30 kilometres per hour;
  - b) all loaded construction vehicles entering or leaving the site have their loads covered; and
  - c) all construction vehicles leaving the site are cleaned of dirt, sand and other materials before they leave the site, to avoid tracking the materials on public roads.

### Stockpile management

B23. The Application shall manage stockpiles of scrap metal and processed material to ensure air emissions are minimised.

## EXPLOSION LIMITS

### Airblast overpressure

B24. The Applicant shall undertake all reasonable and feasible measures necessary to prevent explosions from occurring at the Premises.

B25. The Applicant shall ensure that the airblast overpressure level from any explosions on the premises does not exceed 120dB (Lin Peak) when measured at the boundary of the premises.

## NOISE AND VIBRATION

### Noise criteria

B26. The Applicant shall ensure that noise generated by the construction and/or operation of the Development does not exceed the noise criteria in Table 2.

**Table 2: Noise criteria (dB(A))**

Location	Noise criteria (dB(A))			
	Day	Evening	Morning Shoulder	
	L <sub>Aeq</sub> (15 minute)	L <sub>Aeq</sub> (15 minute)	L <sub>Aeq</sub> (15 minute)	L <sub>Aeq</sub> (1 minute)
<b>189 Sunnyholt Road</b>	46	46	46	58

### Noise compliance measurement

B27. Noise generated by the Development is to be measured in accordance with the relevant requirements and exemptions (including certain meteorological conditions) of the latest version of the *NSW Industrial Noise Policy*.

### Vibration criteria

B28. The Applicant shall ensure that vibration resulting from the Development does not exceed the continuous or impulsive vibration criteria in EPA's *Assessing Vibration: A Technical Guideline* (February 2006) at residential receivers.

### Noise Management Plan

B29. Prior to the commencement of construction of the Development, the Applicant shall prepare a Noise Management Plan to the satisfaction of the Secretary. The plan must:

- a) be prepared by a suitably qualified and experienced persons(s) in consultation with the EPA;
- b) describe the measures that would be implemented to ensure:
  - (i) all reasonable and feasible measures are employed to minimise noise impacts;

- (ii) the installation and maintenance of appropriate physical noise barriers;
  - (iii) air handling devices are designed and located to minimise noise impacts;
  - (iv) truck drivers are aware of suitable truck noise mitigation measures;
  - (v) contingency measures are deployed to minimise impacts should an exceedence of the criteria occur or appear likely to occur; and
  - (vi) compliance with the relevant conditions of this consent;
- c) include a Noise Monitoring Program to evaluate the performance of the Development; and
- d) include a protocol to determine the occurrence of an exceedence of the criteria in this consent should such an exceedence occur.

B30. The Applicant shall carry out the Development in accordance with the Noise Management Plan approved by the Secretary (as revised and approved by the Secretary from time to time), unless otherwise agreed by the Secretary.

### Construction and operation hours

B31. The Applicant shall comply with the construction and operation hours in Table 3 unless otherwise agreed to in writing by the Secretary.

**Table 3: Hours of Construction and Operation**

Activity		Day	Hours
Construction		Monday – Friday	7 am to 6 pm
		Saturday	8 am to 1 pm
		Sunday & Public Holidays	Nil
Operation	Oxy-acetylene torch cutting	Monday – Saturday	9 am to 3 pm
		Sunday & Public Holidays	Nil
	All other activities	Monday – Saturday	6 am to 9 pm
		Sunday & Public Holidays	Nil

B32. Despite condition B31, the delivery of material to the site may occur at any time, if that delivery is required by police or other authorities; and/or of there is an on-site emergency that poses an immediate danger to personnel or equipment; and/or the operation or personnel or equipment are endangered. In such circumstances, prior notification shall be provided to the EPA and affected residents as soon as possible, or within a reasonable period in the case of emergency.

### Noise mitigation

B33. The Applicant shall:

- a) implement best management practice, including all reasonable and feasible noise management and mitigation measures to prevent and minimise operational, low frequency and traffic noise generated by the Development;
- b) minimise the noise impacts of the Development during adverse meteorological conditions;
- c) maintain the effectiveness of any noise suppression equipment on plant at all times and ensure defective plant is not used operationally until fully repaired; and
- d) regularly assess noise monitoring data and relocate, modify and/or stop operations to ensure compliance with the noise criteria in this consent.

### TRAFFIC AND ACCESS

B34. The Applicant shall ensure that:

- a) site access, driveways and parking areas are constructed and maintained in accordance with the latest versions of *Australian Standard AS 2890.1* and *AS 2890.2*;
- b) the swept path of the longest vehicle entering and exiting the subject site, as well as manoeuvrability through the site, is in accordance with *AUSTROADS Guide to Road Design*;
- c) the Development does not result in any vehicles parking or queuing on the public road network;
- d) all vehicles are wholly contained on site before being required to stop;
- e) all loading and unloading of heavy vehicles is carried out on-site;

- f) the proposed turning areas in the car park are kept clear of any obstacles, including parked cars, at all times; and
- g) all vehicles enter and leave the site in a forward direction.

## HAZARD AND RISK

### Fire management

B35. The Applicant shall:

- a) implement suitable measures to minimise the risk of fire on-site including but not limited to the recommendations in the *Preliminary Hazard Analysis of Sell & Parker Pty Ltd Metal Recycling Facility Expansion* prepared by Arriscar dated 10 March 2014;
- b) ensure the height of any stock pile of shredder floc does not exceed 4 metres;
- c) extinguish any fires on-site promptly; and
- d) maintain adequate fire-fighting capacity on-site.

### Emergency Response

B36. The Applicant shall prepare and implement an emergency response plan for the site. The plan must:

- a) include a risk assessment of likely incidents that could occur on-site (e.g. spills, explosion, fire and flood) based on the activities being undertaken, site risks and consequence to the receiving environment;
- b) include the early warning flood readiness and evacuation plan for the site;
- c) document the systems and procedures to deal with the types of incidents identified including relevant incident notification procedures; and
- d) be accessible on the site at all times.

## VISUAL AMENITY

### Lighting

B37. All external lighting associated with the Development shall be mounted, screened, and directed in such a manner so as not to create a nuisance to the surrounding environment, properties and roadways. The lighting shall be the minimum level of illumination necessary and shall comply with *Australian Standard AS 4282 1997*.

### Signage

B38. The Applicant shall install any new signage in consultation with Council.

*Note: This condition does not apply to signage identified as exempt or complying development in State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.*

### Landscaping

B39. Prior to the commencement of construction of the Development, the Applicant shall prepare a Landscape Management Plan to the satisfaction of the Secretary. The plan shall:

- a) be prepared by a suitably qualified and experienced person(s);
- b) detail the landscaping measures including vegetation that would be implemented to minimise the visual impact of the Development, particularly from adjoining premises and public vantage points;
- c) describe the measures to be implemented to protect and retain the mature trees along the northern boundary of the site; and
- d) include measures for monitoring and maintenance of revegetated areas.

B40. The Applicant shall carry out the Development in accordance with the Landscape Management Plan approved by the Secretary (as revised and approved by the Secretary from time to time), unless otherwise agreed by the Secretary.

## HERITAGE

B41. The Applicant shall cease all works on site in the event that any Aboriginal cultural object(s) or human remains are uncovered onsite. The NSW Police, the Aboriginal Community and the

OEH are to be notified. Works shall not resume in the designated area until consent in writing from the NSW Police and/or the OEH has been obtained.

## **SECURITY**

B42. The Applicant shall:

- a) install and maintain a perimeter fence and security gates on the site; and
- b) ensure that the security gates on site are locked whenever the site is unattended.

## PART C ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING

### ENVIRONMENTAL MANAGEMENT

#### Construction Environmental Management Plan

- C1. Prior to the commencement of construction of the Development, the Applicant shall prepare a Construction Environmental Management Plan to the satisfaction of the Secretary. The Plan must:
- a) be prepared by a suitably qualified and experienced person(s);
  - b) describe all activities to be undertaken on the site during construction, including a clear indication of construction stages;
  - c) identify the statutory approvals that apply to the Development;
  - d) outline all environmental management practices and procedures to be followed during construction (e.g. construction traffic management and construction noise and vibration management), including all reasonable and feasible mitigation measures to protect the amenity of the surrounding environment;
  - e) detail how the environmental performance of construction will be monitored, and what actions will be taken to address identified adverse environmental impacts;
  - f) describe of the roles and responsibilities for all relevant employees involved in construction;
  - g) include arrangements for community consultation and complaints handling procedures during construction; and
  - h) consolidate the construction related parts of any management plans and monitoring programs required in the conditions of this consent;
- C2. The Applicant shall carry out the development in accordance with the Construction Environmental Management Plan approved by the Secretary (as revised approved by the Secretary from time to time), unless otherwise agreed by the Secretary.

#### Operational Environmental Management Strategy

- C3. Within 6 months of the date of this consent, the Applicant shall prepare an Operational Environmental Management Strategy to the satisfaction of the Secretary. This strategy must:
- a) be prepared by a suitably qualified and experienced person(s);
  - b) provide a strategic framework for environmental management of the Development;
  - c) identify the statutory approvals that apply to the Development;
  - d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the Development;
  - e) describe in general how the environmental performance of the Development would be monitored and managed; and
  - f) describe the procedures that would be implemented to:
    - (i) keep the local community and relevant agencies informed about the operation and environmental performance of the Development;
    - (ii) receive, handle, respond to, and record complaints;
    - (iii) resolve any disputes that may arise;
    - (iv) respond to any non-compliance; and
    - (v) respond to emergencies.
- C4. The Applicant shall carry out the Development in accordance with the Operational Environmental Management Strategy approved by the Secretary (as revised approved by the Secretary from time to time), unless otherwise agreed by the Secretary.

#### Management plan requirements

- C5. The Applicant shall ensure that the environmental management plans/strategies required under this consent are prepared in accordance with any relevant guidelines and include:
- a) detailed baseline data;
  - b) a description of:
    - (i) the relevant statutory requirements (including any relevant approval, licence or lease conditions);
    - (ii) any relevant limits or performance measures/criteria;

- (iii) the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the Development or any management measures;
- (iv) the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;
- c) a program to monitor and report on the:
  - (i) impacts and environmental performance of the Development;
  - (ii) effectiveness of any management measures;
  - (iii) a contingency plan to manage any unpredicted impacts and their consequences;
  - (iv) a program to investigate and implement ways to improve the environmental performance of the Development over time;
- d) a protocol for managing and reporting any:
  - (i) incidents;
  - (ii) complaints;
  - (iii) non-compliances with statutory requirements; and
  - (iv) exceedances of the impact assessment criteria and/or performance criteria; and
  - (v) a protocol for periodic review of the plan.

C6. The Secretary may waive some of the requirements in Condition C5 if they are unnecessary or unwarranted for particular management plans/strategies.

## **REPORTING**

### **Incident reporting**

C7. The Applicant shall notify, at the earliest opportunity, the Secretary and any other relevant agencies of any incident that has caused, or threatens to cause, material harm to the environment. For any other incident associated with the Development, the Applicant shall notify the Secretary and any other relevant agencies as soon as practicable after the Applicant becomes aware of the incident. Within 7 days of the date of the incident, the Applicant shall provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested.

### **Regular reporting**

C8. The Applicant shall provide regular reporting on the environmental performance of the Development on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent.

## **INDEPENDENT ENVIRONMENTAL AUDIT**

C9. Within 1 year of the date of this consent, and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant shall commission and pay the full cost of an Independent Environmental Audit of the Development. This audit must:

- a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;
- b) led by a suitably qualified auditor, and include experts in fields specified by the Secretary;
- c) include consultation with the relevant agencies;
- d) assess the environmental performance of the Development and assess whether it is complying with the requirements in this consent, and any other relevant approvals and relevant EPL/s (including any assessment, plan or program required under the approvals);
- e) review the adequacy of any approved strategy, plan or program required under the abovementioned consents; and
- f) recommend measures or actions to improve the environmental performance of the Development, and/or any strategy, plan or program required under the consents.

C10. Within three months of commissioning this audit, or as otherwise agreed by the Secretary, the Applicant shall submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report.

### **Annual review**

- C11. Within 1 year of the date of this consent, and every year thereafter, the Applicant shall review the environmental performance of the Development. This review must:
- a) describe the Development that was carried out in the previous calendar year, and the Development that is proposed to be carried out over the next year;
  - b) include a comprehensive review of the monitoring results and complaints records of the Development over the previous calendar year, which includes a comparison of the results against the:
    - (i) the relevant statutory requirements, limits or performance measures/criteria;
    - (ii) requirements of any plan or program required under this consent;
    - (iii) the monitoring results of previous years; and
    - (iv) the relevant predictions in the EIS;
  - c) identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance;
  - d) identify any trends in the monitoring data over the life of the Development;
  - e) identify any discrepancies between the predicted and actual impacts of the Development, and analyse the potential cause of any significant discrepancies; and
  - f) describe what measures will be implemented over the next year to improve the environmental performance of the Development.

### **Revision of strategies, plans and programs**

- C12. Within 3 months of the submission of an:
- a) annual review under Condition C11 above;
  - b) incident report under Condition C7 above;
  - c) audit under Condition C9 above; or
  - d) any modification to this consent,

the Applicant shall review, and if necessary revise, the strategies, plans, and programs required under this consent.

*Note: This is to ensure the strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the Development.*

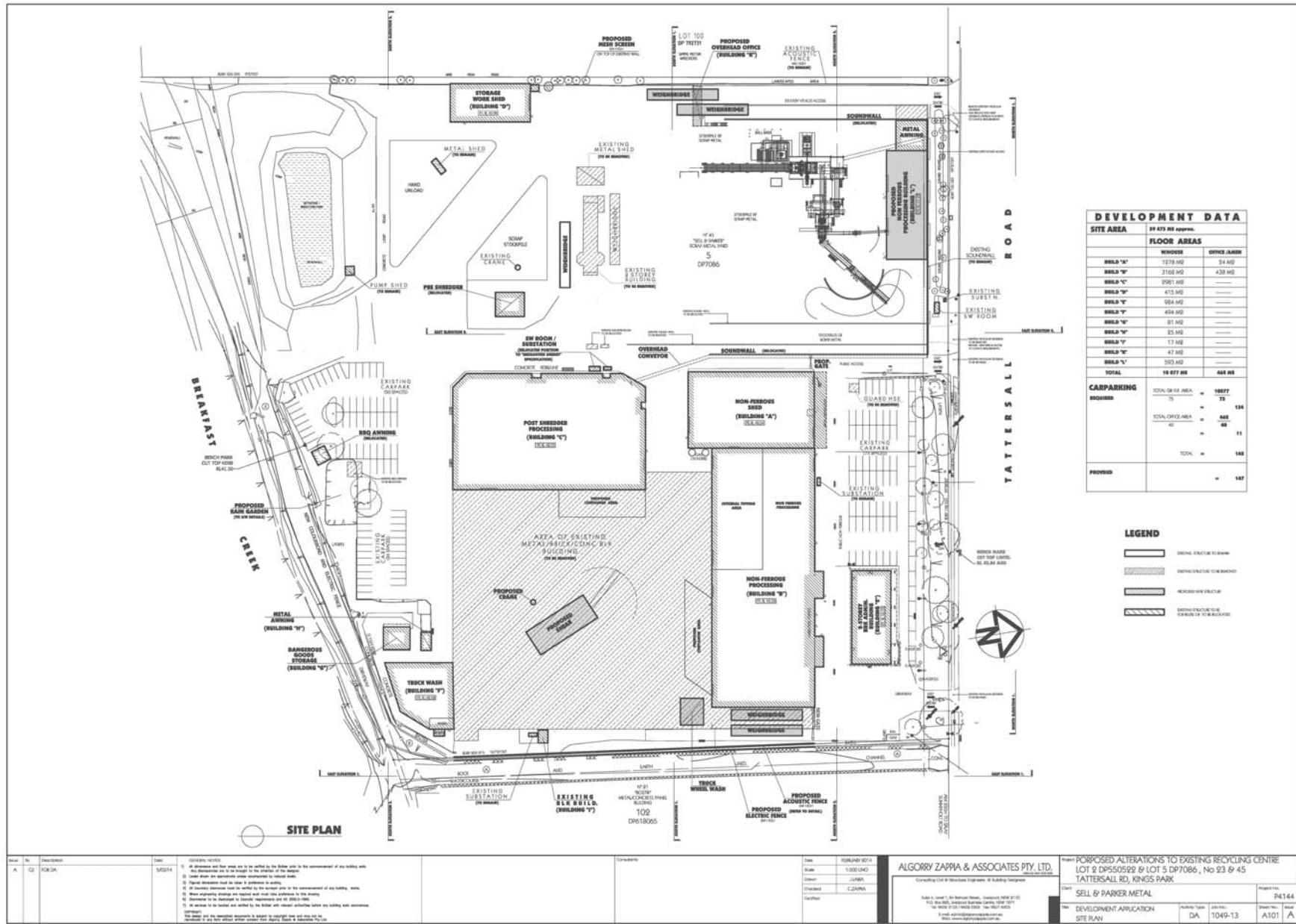
- C13. The Applicant shall ensure that the operation of the Development is undertaken in accordance with all relevant updated and/or amended strategies, management plans and programs approved by the Secretary (or as revised and approved by the Secretary), unless otherwise agreed by the Secretary.

### **ACCESS TO INFORMATION**

- C14. The Applicant shall:
- a) make copies of the following publicly available on its website:
    - (i) the documents referred to in Condition A2;
    - (ii) all current statutory approvals for the Development;
    - (iii) all approved strategies, plans and programs required under the conditions of this consent;
    - (iv) a comprehensive summary of the monitoring results of the Development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs;
    - (v) a complaints register, updated on a monthly basis;
    - (vi) the annual reviews of the Development;
    - (vii) any independent environmental audit of the Development, and the Applicant's response to the recommendations in any audit; and
    - (viii) any other matter required by the Secretary; and
  - b) keep this information up to date.

## APPENDIX A – SITE AND LAYOUT PLANS





DEVELOPMENT DATA		
SITE AREA	29 473 M2 approx.	
	FLOOR AREAS	
BUILD 'A'	1278 M2	54 M2
BUILD 'B'	3168 M2	438 M2
BUILD 'C'	2591 M2	---
BUILD 'T'	415 M2	---
BUILD 'W'	584 M2	---
BUILD 'Y'	454 M2	---
BUILD 'Z'	81 M2	---
BUILD '1'	25 M2	---
BUILD '2'	17 M2	---
BUILD '3'	47 M2	---
BUILD '4'	592 M2	---
<b>TOTAL</b>	<b>19 877 M2</b>	<b>484 M2</b>

CARPARKING	TOTAL GR AREA	
	REQUIRED	75
	45	= 128
	45	= 466
	45	= 68
	TOTAL	= 168
PROVIDED		= 167

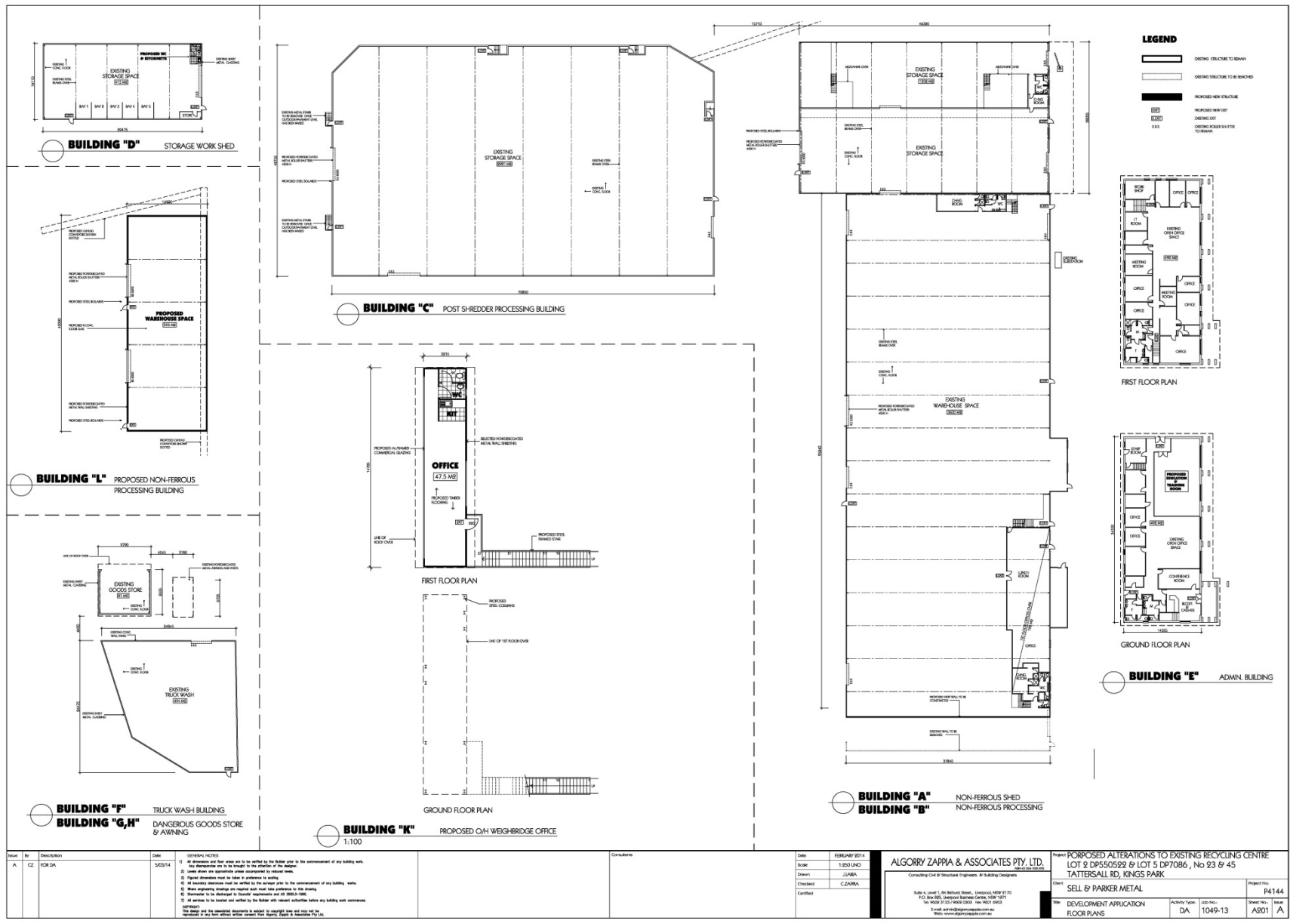
**LEGEND**

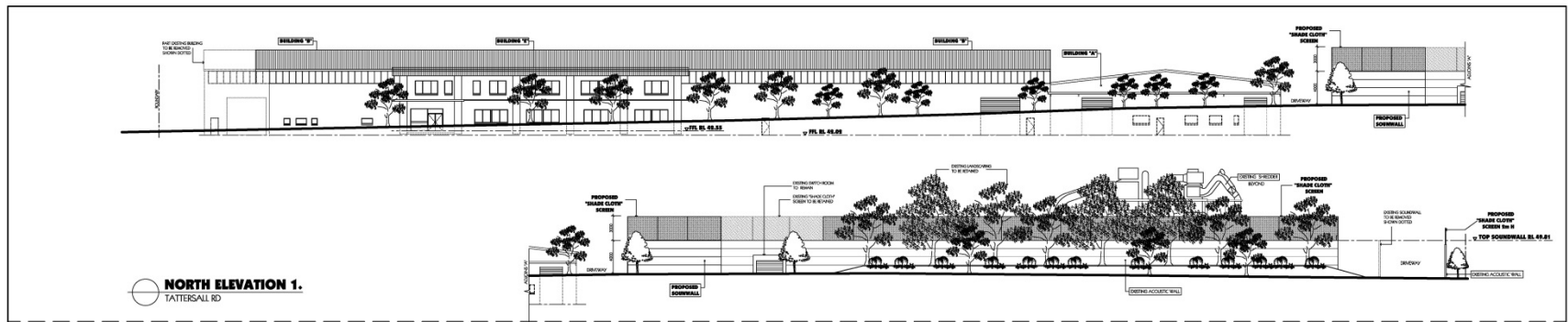
- [Symbol] EXISTING STRUCTURE REMAIN
- [Symbol] EXISTING STRUCTURE TO BE DEMOLISHED
- [Symbol] PROPOSED NEW STRUCTURE
- [Symbol] EXISTING STRUCTURE TO BE RELOCATED OR TO BE RECONSTRUCTED

Scale	1:1000
Author	ALGORRY ZAPPA & ASSOCIATES PTY. LTD.
Date	15/03/14

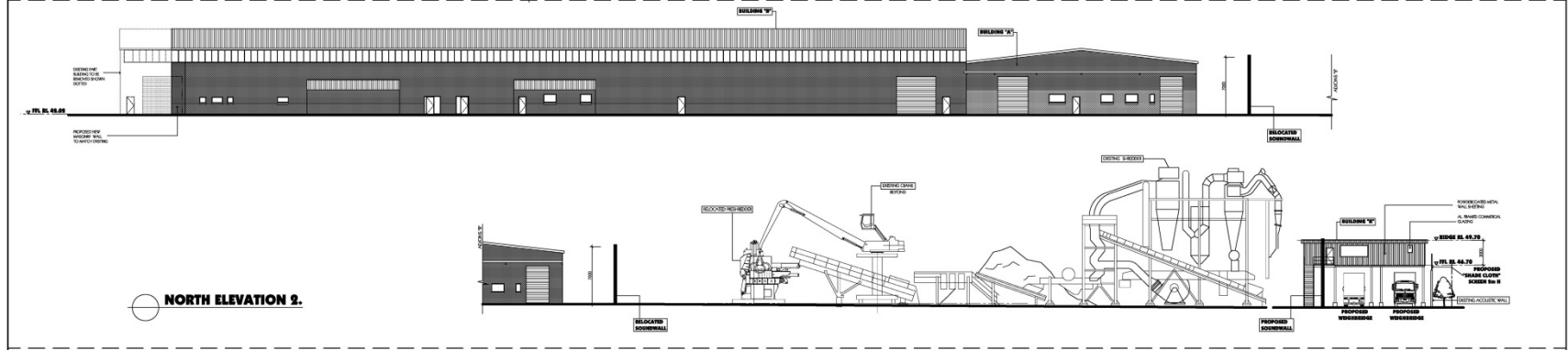
Client	SELL & PARKER METAL
Project	PROPOSED ALTERATIONS TO EXISTING RECYCLING CENTRE LOT 2 DP550592 & LOT 5 DP7086, No 23 & 45 TATTERSALL RD, KINGS PARK
Drawn	J.ZAPPA
Checked	C.ZAPPA
Scale	1:1000
Date	15/03/14

Project No.	PA144
Client	SELL & PARKER METAL
Application	DA 1049-13
Site Plan	A101

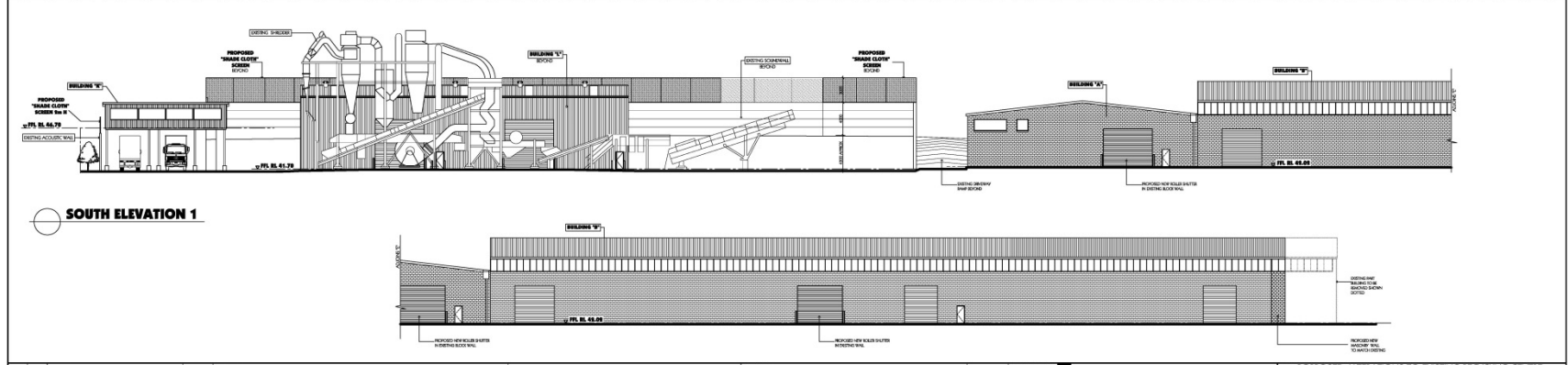




**NORTH ELEVATION 1.**  
TATTERSALL RD

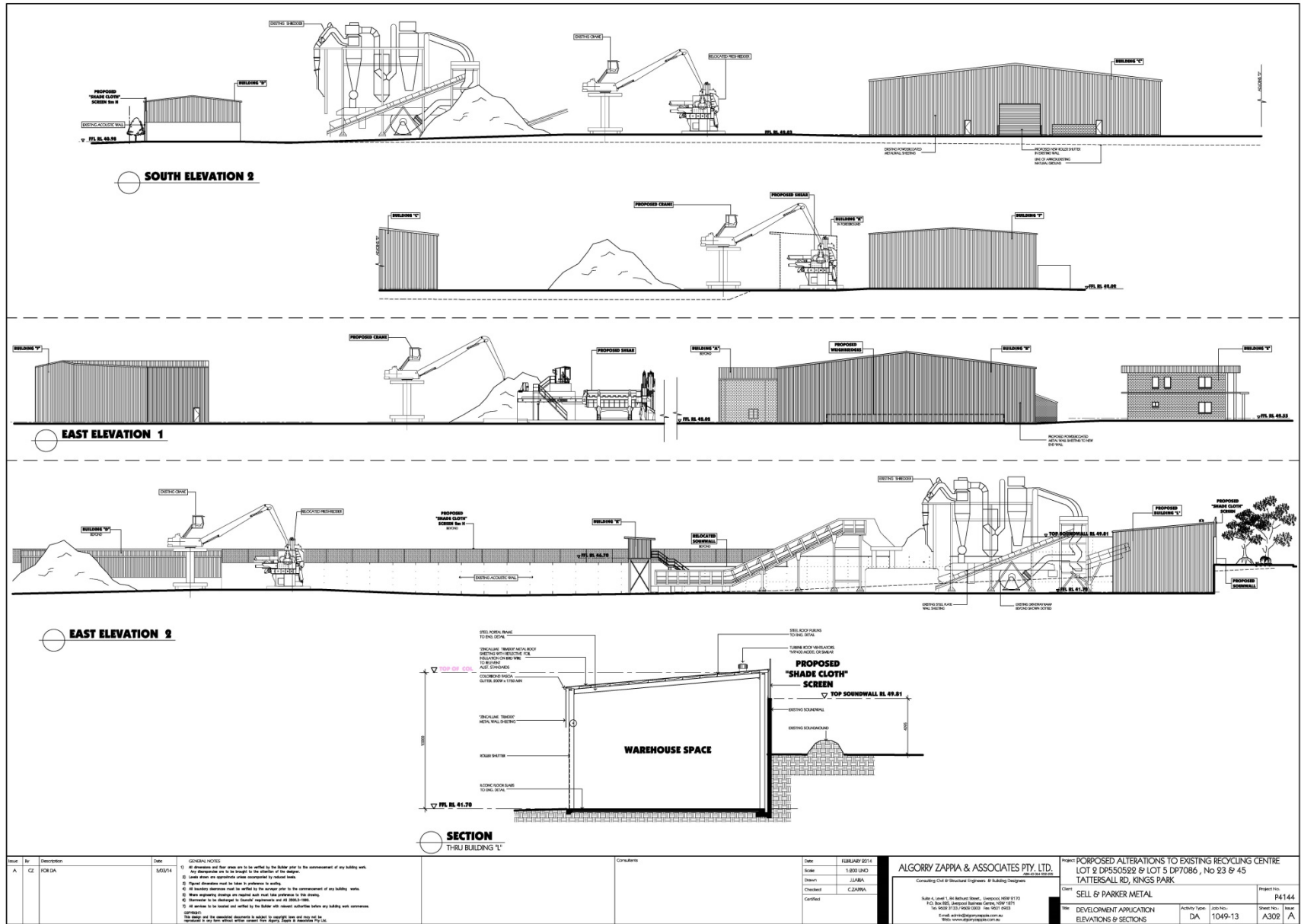


**NORTH ELEVATION 2.**



**SOUTH ELEVATION 1**

Rev	By	Description	Date	GENERAL NOTES	Comments	Date	Scale	Drawn	Checked	Project	Client	Site	Activity/Type	Job No.	Sheet No.	Total		
A	CZ	FOR I/A	14/03/14	<p>1. All dimensions and floor areas are to be verified by the Builder prior to the commencement of any building work.</p> <p>2. All dimensions are to be taken to the exterior of the building.</p> <p>3. Check with any appropriate state authorities for relevant laws.</p> <p>4. Higher dimensions must be taken in preference to lower.</p> <p>5. All building materials must be checked to the correct grade by the commencement of any building work.</p> <p>6. Where engineering changes are required, they must have approval in this document.</p> <p>7. Materials to be delivered to transfer destinations are to be checked to meet:</p> <p>8. All services to be located and verified by the Builder with relevant authorities before any building work commences.</p> <p>9. The design and the construction documents are subject to copyright. They may not be reproduced, in whole or in part, without the written consent of Algorry Zappa &amp; Associates Pty Ltd.</p>		14/03/14	1:500 (LINC)	JLAMA	C.ZAPPA	ALGORRY ZAPPA & ASSOCIATES PTY. LTD. CONSULTING CIVIL & STRUCTURAL ENGINEERS & BUILDING DESIGNERS Suite 1, Level 1, 44 Barkers Street, Lakeside, NSW 1510 P.O. Box 995, Lakeside Business Centre, NSW 1511 Tel: 9002 1133 (9AM-5PM) Fax: 9002 0023 E-mail: info@algorryzappa.com.au Web: www.algorryzappa.com.au	PROPOSED ALTERATIONS TO EXISTING RECYCLING CENTRE LOT 2 DP550522 & LOT 5 DP7086, No 23 & 45 TATTERSALL RD, KINGS PARK	SELL & PARKER METAL	DEVELOPMENT APPLICATION	DA	1049-13	R4144	A301	14





## APPENDIX B – MANAGEMENT AND MITIGATION MEASURES

**Table B.1 Summary of Mitigation Measures**

Issue	Potential Impact	Mitigation/ Management Measure
Ecology	The overall potential ecological impacts are considered low given the highly disturbed nature of the site. Only landscape trees separating the two current separate sites require removal. Potential impacts to threatened species are considered highly unlikely.	<p>The following recommendations aim to minimise ecological impacts of the proposed works:</p> <ul style="list-style-type: none"> <li>• sediment control barriers will be installed at the site during construction and while earthworks are undertaken to reduce the likelihood of silted runoff into adjacent Breakfast Creek in the event of high rainfall;</li> <li>• all vehicles are to keep to the existing and proposed access roads on-site at all times; and</li> <li>• all work should be undertaken to prevent the spread of pests and noxious weeds in accordance with the Noxious Weeds Act 1993 and the Noxious and environmental weed control handbook - A guide to weed control in non-crop, aquatic and bushland situations (NSW Government, 2011).</li> </ul>
Heritage (Indigenous)	Potential impacts to previously unknown indigenous artefacts or relics during ground disturbance activities.	<p>In accordance with the <i>Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales</i> (DECCW NSW, 2010) a conservative approach will be adopted at the site. The following mitigation measures will be implemented:</p> <ul style="list-style-type: none"> <li>• all staff, contractors and others involved in the construction works would be made aware of the statutory legislation protecting sites and places of heritage significance; and</li> <li>• all works would cease in the immediate area should any indigenous artefacts or relics be uncovered and the Cultural Heritage Division of the NSW National Parks and Wildlife Service (OEH) contacted.</li> </ul>
Heritage (Historical)	Potential impacts to previously unknown items of historical significance during ground disturbance.	<p>The following mitigation measures are recommended to ensure that if any historical heritage artefacts are encountered appropriate measures are implemented:</p> <ul style="list-style-type: none"> <li>• all staff, contractors and others involved in the works would be made aware of the statutory legislation protecting sites and places of heritage significance prior to works commencing; and</li> <li>• in the event that a site or artefact (as defined by the National Parks and Wildlife Act 1974 or Heritage Act 1977) is identified during construction works, works shall cease at the location. The find shall be immediately reported to the regulator in accordance with legislation. No work shall commence in the vicinity of the find until any required approvals have been given by the regulator.</li> </ul>
Acoustics	Noise and vibration impacts to nearby commercial premises during construction and operation.	<p>The following acoustic screen fencing is proposed to mitigate noise emissions from site operations to neighbouring existing and proposed new industrial premises:</p> <ul style="list-style-type: none"> <li>• retain the existing acoustic screen fencing at a height of 4m, which is currently erected around the existing site northern and western boundary and along existing driveways as shown on the site drawings; and</li> <li>• proposed new metal/colorbond and electric fence along the new eastern boundary shall be an acoustic screen fencing of 4m height</li> </ul> <p>In addition to the above, the noise screen will be designed with regard to the following:</p> <ul style="list-style-type: none"> <li>• the extent of noise reduction required of the noise screen as a whole as perceived from any potentially</li> </ul>

Issue	Potential Impact	Mitigation/ Management Measure
Air Quality	Potential localised air quality impacts associated with increased concentrations of TSP at nearby commercial and residential locations.	<p>affected receiver sites;</p> <ul style="list-style-type: none"> <li>• any penetrations through the fabric of the noise screen will be sealed air tight;</li> <li>• all joints between noise screen panels will be sealed air tight; and</li> <li>• noise screens will have no clearance gaps underneath them.</li> </ul> <p>The following mitigation measures will be implemented to manage potential localised air quality impacts during construction and operation:</p> <ul style="list-style-type: none"> <li>• vehicles and equipment shall be maintained in accordance with the manufacturer's specifications;</li> <li>• additional site fencing located on the eastern boundary of the site, should include appropriate dust screen to minimise airborne dust movements; and</li> <li>• all surplus soils from excavations during construction, not reused on-site, shall be removed from site by covered trucks and disposed of at an appropriately licensed facility.</li> </ul>
Greenhouse Gas	<p>Release of GHG emissions into the atmosphere.</p> <p>Based on the GHG assessment undertaken indicate that GHG emissions associated with the upgrade would represent an increase of 0.006% on Australia's national GHG emissions in 2010/11 of 563.1 Mt CO<sub>2</sub>-e, which is considered negligible.</p>	<p>Efficiency measures which will be implemented to manage GHG emissions during construction and operation include:</p> <ul style="list-style-type: none"> <li>• the site will be sealed, which will reduce the emission of GHGs from the mobile materials handling equipment due to a more consistent driving surface and the ability to select more direct routes across the site;</li> <li>• the new site design no longer requires trucks to enter the site twice but allows for one main entrance and exit point, reducing the kilometres travelled by trucks;</li> <li>• the increased throughput allows for efficiencies due to the economy of scale;</li> <li>• additional equipment purchased for the upgrade will conform to the standards of the latest technology including installation of conveyors to move material after processing rather than by FEL or truck;</li> <li>• post-upgrade the site has an additional capacity to recover ferrous and non-ferrous materials from the recycling processes, decreasing the need for end users to source raw materials from the extraction industries; and</li> <li>• where possible, the site will strive to continually improve the energy efficiency of its process and operations by implementing electricity and cost saving measures.</li> </ul>



Issue	Potential Impact	Mitigation/ Management Measure
Soil and Water	<p>Potential impacts include:</p> <ul style="list-style-type: none"> <li>• accidental release/spillage of contaminants and wastewater generated on-site;</li> <li>• earthworks resulting in potential erosional impacts; and</li> <li>• impacts to water balance as a result of the expansion</li> </ul>	<p>To manage and control stormwater, the following mitigation measures are proposed:</p> <ul style="list-style-type: none"> <li>• installation of two oil/water separators for the new drainage system within the existing and expanded site area;</li> <li>• regular cleaning of the oil/water separators should be carried out to maintain performance;</li> <li>• the existing network of underground stormwater pipes, inlets and oil water separators will be cleaned and, if damaged, replaced during the site refurbishment activities;</li> <li>• a bioretention filter will be installed to receive runoff from overland flows and the underground pipe network on the expanded site area; and</li> <li>• the existing stormwater pond on the existing site will be dredged and excavated to remove any contaminated sediments and lined with clay. Verification sampling will be required as will waste classification sampling to allow for the appropriate disposal of any dredged material.</li> </ul> <p>The general principles to be applied to erosion control for the disturbed site include:</p> <ul style="list-style-type: none"> <li>• plan for erosion and sediment control and assess site constraints during the design phase and before any earthworks begin;</li> <li>• minimise the area of soil disturbed and exposed to erosion;</li> <li>• control water flows from the top of and through the project area – divert up-slope ‘clean’ water away from disturbed areas and ensure concentrated flows are below erosive levels;</li> <li>• rehabilitate disturbed lands quickly; and</li> <li>• maintain erosion and control measures for the duration of the project and until the site is successfully rehabilitated.</li> </ul> <p>Key sediment controls include:</p> <ul style="list-style-type: none"> <li>• protecting stormwater inlets;</li> <li>• constructing a wheel wash;</li> <li>• creating stabilised site access points;</li> <li>• managing stockpiles; and</li> <li>• utilising sediment traps such as sediment fence during construction.</li> </ul> <p>Pollution control methods will include:</p> <ul style="list-style-type: none"> <li>• storage of chemicals within impervious bund of more than 110% of the largest container within the bund;</li> <li>• Material Safety Data Sheets (MSDS) for all chemicals stored on-site and made available to site personnel;</li> <li>• refuelling to occur away from drainage points, with drip trays used and spill kits available; and</li> <li>• trade waste receptacles will be provided for the storage and disposal of all wastes generated on-site.</li> </ul>

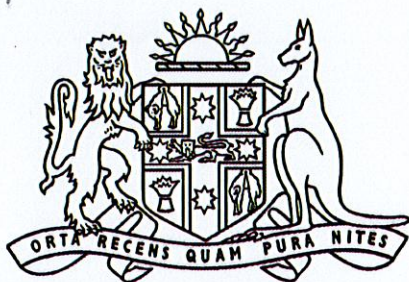
Issue	Potential Impact	Mitigation/ Management Measure
Contaminated Land	Potential risks to human health and the environment resulting from exposure to historical contamination during ground intrusive works.	<p>To minimise the use of potable water associated with the expansion of the site, the following measures should be implemented:</p> <ul style="list-style-type: none"> <li>• on-going use of collected runoff in the stormwater basin for operation requirements is recommended, as long as the water is of a quality such that impacts to site infrastructure, the surrounding environment and the health and safety of employees is avoided;</li> <li>• rainwater tanks may also be installed to utilise the runoff from roof spaces and would likely be best suited to providing water for personal use such as toilet flushing, reducing the requirement for mains supplied potable water.;</li> <li>• landscaped areas along the south boundary will include a range of locally endemic species to enhance the portion of the riparian corridor inside the operational boundary of the redeveloped site.</li> </ul> <p>The following management measures will be employed to manage potential exposure to contaminants during construction and operation:</p> <ul style="list-style-type: none"> <li>• a contingency for the appropriate management of potential unexpected contamination finds should be incorporated in the Construction Environmental Management Plan (CEMP) for the planned redevelopment of both properties;</li> <li>• if localised contaminated soils are encountered during construction works, they shall be segregated and assessed for waste classification and appropriately disposed of or re-used onsite, subject to the results of testing;</li> <li>• if significant contamination is encountered during construction works, further investigation in the form of a Phase 1/2 Environmental Site Investigation (ESA) may be required;</li> <li>• any imported fill must be certified at source location (e.g. quarry or property owner) as Excavated Natural Material (ENM) or Virgin Excavated Natural Material (VENM) in accordance with the Protection of the Environment Operations Act 1997 (POEO Act) and the Protection of the Environment (Waste) Regulation 2005 (POEO Waste Regulation);</li> <li>• all pollution incidents that threaten or harm the environment shall be reported immediately to relevant authorities in accordance with the Protection of the Environment Operations Act 1997 (POEO Act); and</li> <li>• a Hazardous Materials Register and respective Safety Data Sheets (SDSs) shall be kept on site at all times and regularly maintained.</li> </ul> <p>In relation to the management of oil, lubricants and other material during operations hammermill operations, the following management measures will be applied:</p> <ul style="list-style-type: none"> <li>• vehicles are to be adequately drained prior to coming on the site, if possible, to minimise the requirement for on-site processing. If fluids are present processing must occur prior to recycling the</li> </ul>

Issue	Potential Impact	Mitigation/ Management Measure
		<p>vehicle;</p> <ul style="list-style-type: none"> <li>• immediately after receiving a car on-site it should be confirmed that the fluid containing components have been drained/removed and that no leaks are present. If fluid containing components remain or leaks identified place drip trays and seal leaking pipes;</li> <li>• vehicle processing area is to be bunded to provide additional protection in the event of spills or overflows;</li> <li>• clean up spills within in the bunded area (and across the site more broadly) immediately to prevent interaction with water;</li> <li>• ensure all fluids drained from vehicles are stored in appropriate, labelled containers to avoid the potential for cross contamination;</li> <li>• always use funnels when transferring fluids to limit the potential for spillage;</li> <li>• flock management - if vehicles (and other scrap metals) still contain hydrocarbons or other contaminants there is potential for contamination of the flock. Ensure that it is stored on hardstand, roofed location, with bunding to prevent entry of rainwater and upslope runoff;</li> <li>• remove batteries and battery cable ends (that are often also constructed from lead);</li> <li>• fuel filters to be removed and stored in a leak proof container;</li> <li>• separate other fluids such as brake fluids, coolants, air conditioning fluid, window washing fluid, prior to recycling the vehicle; and</li> <li>• spill kits to be stored and maintained in the car handling location.</li> </ul>
Hazards and Risks	Potential off-site impacts include fatality, human injury or damage to property caused from activities undertaken at the site.	<ul style="list-style-type: none"> <li>• at least one hose reel and one fire extinguisher be provided for the oxygen and LPG cylinder storage (AS 4332-2004, Table 7.2). This is based upon the 3,000 L of oxygen in the store.</li> <li>• provide one powder type extinguisher and one foam extinguisher for all bulk class 3 dangerous goods on site. This includes the storage of fuel and oil removed from vehicles prior to shredding. This recommendation assumes the recovered liquids are stored in intermediate bulk containers.</li> <li>• maintain the height of the floc stockpile to less than 4 m, or the total volume to less than 1000 m<sup>3</sup>. This ensures the warehouse in which the floc is stored will not be a high hazard occupancy.</li> <li>• continue with the practice of providing water cannons to provide reach to feed and processed stockpiles in the event of a fire in any stockpile.</li> </ul>
Fire and Incident	Floc material has been identified as a potential source of fire. Any uncontrolled leaks or spills have the	The recommendations made in regards to fire protection requirements as detailed above will be implemented To ensure incidents such as accidental spills and / or leakages from machinery are contained and managed appropriately, the following measures will be implemented.

Issue	Potential Impact	Mitigation/ Management Measure
	<p>potential to contaminate soils within unsealed sections of the site, or be entrained in stormwater flow to the detention basin at the rear of the site. Overflow of potentially contaminated water from the detention basin, has the potential to detrimentally impact on Breakfast Creek.</p>	<ul style="list-style-type: none"> <li>the site will be kerbed to retain spillages or stormwater run-off, which outflow via a detention basin. The detention basin has a capacity of 1440 m<sup>3</sup>. This basin will be required to be managed in accordance with the measures identified in Section 6.6).</li> <li>spill kits will be available on-site and be deployed to manage and contain minor spills;</li> <li>all pollution incidents that threaten or harm the environment shall be reported immediately to relevant authorities in accordance with POEO Act.</li> <li>It is recommended that a Fire and Incident Response Management Plan, including but not limited to the mitigation measures above, be developed for the expanded site. Sell and Parker have an existing Emergency Response Plan, this may be updated to include the aforementioned information.</li> </ul>
Traffic and Transport	<p>Compared against the existing traffic volumes in the vicinity of the site, the additional traffic generated by the proposed development is considered negligible and is not be expected to compromise the safety or function of the surrounding road network.</p>	<ul style="list-style-type: none"> <li>a site-specific construction traffic management plan (CTMP) will be prepared prior to works commencing on-site. This is to outline construction traffic volumes, truck routes, access arrangements and construction worker parking arrangements.</li> </ul>
Social and Economic Resources	<p>The proposed development presents an overall positive impact to the local community in terms of employment opportunities and indirect contributions to the local community.</p>	<p>The following measures should be implemented to ensure positive socio-economic impacts of the proposed developed are maximised:</p> <ul style="list-style-type: none"> <li>seek to utilise local available labour force when recruiting for additional employees, including where possible those that have been affected by job losses at the Dexion site;</li> <li>where possible, investigate opportunities for offering apprenticeships for new work force and offer additional training to current workforce;</li> <li>communicate to local business and community the expected start date of construction; and</li> <li>any complaints received relating to site operations are to be recorded and attended to promptly.</li> </ul>
Visual Amenities	<p>The proposed development will not result in significant visual impacts in the vicinity of the site or neighbouring areas</p>	<p>Whilst visual amenity impacts associated with the proposed development are considered negligible the following management measure will be implemented:</p> <ul style="list-style-type: none"> <li>native trees, shrubs and grass species will be planted along site boundaries, particularly the frontage with Tattersall Road, which will complement and enhance existing landscaped vegetation in accordance with the Landscape Concept Plan provided in Annex M.</li> </ul>
Waste Management	<p>Potential impacts include:</p> <ul style="list-style-type: none"> <li>excessive waste being directed to</li> </ul>	<ul style="list-style-type: none"> <li>all waste transported to and removed from the site should be done so in accordance with road and transportation legislation;</li> </ul>

Issue	Potential Impact	Mitigation/ Management Measure
	<p>landfill;</p> <ul style="list-style-type: none"> <li>• various types of waste being generated and stored onsite, with the potential for misclassification;</li> <li>• contaminated waste not being correctly stored or disposed;</li> <li>• off-site impacts to soil and/or water and/or groundwater.</li> </ul>	<ul style="list-style-type: none"> <li>• in all cases, appropriately licenced transport contractors are to be engaged to transport waste material to and from the site. The contractors appointed to transport waste are to ensure they: <ul style="list-style-type: none"> <li>• are licenced to transport the type of waste they receive;</li> <li>• transport the waste to a licenced facility capable of receiving the type of waste and quantity they are carrying;</li> <li>• waste is adequately covered during transport; and</li> <li>• the contractor transporting the waste is to ensure that completed waste data forms are provided to the waste facility upon arrival</li> </ul> </li> <li>• the designated site manager or an appointed responsible delegate should prepare monthly reports clearly documenting the waste that has been received and generated. These should be prepared using waste receipts that have been retained and should include: <ul style="list-style-type: none"> <li>• waste classification data to assess compliance with the DECCW (2009) <i>Waste Classification Guidelines</i>;</li> <li>• a review of licences held by the facilities where waste has been disposed to assess/ ensure their ability to accept the waste in accordance with relevant legislation; and</li> <li>• include any incident reports relating to waste (i.e. spills) which have occurred over that month. Any corrective actions undertaken should also be included.</li> </ul> </li> <li>• all waste materials which meet the specification to be reused/ recycled will be processed on-site or be taken to an approved facility, capable of accepting those materials.</li> <li>• all other waste is to be disposed in accordance with the classification of the waste material at an approved licenced facility.</li> </ul>

**APPENDIX D MOD 1**



## Land and Environment Court New South Wales

<b>Medium Neutral Citation:</b>	<b>Sell &amp; Parker Pty Ltd v Minister for Planning [2017] NSWLEC 1586</b>
<b>Hearing dates:</b>	Conciliation conference on 19 September & 17 October 2017
<b>Date of orders:</b>	19 October 2017
<b>Decision date:</b>	19 October 2017
<b>Jurisdiction:</b>	Class 1
<b>Before:</b>	Maston AC
<b>Decision:</b>	See (4) below
<b>Catchwords:</b>	DEVELOPMENT APPLICATION: conciliation conference; agreement between the parties; orders
<b>Legislation Cited:</b>	Land and Environment Court Act 1979
<b>Category:</b>	Principal judgment
<b>Parties:</b>	Sell and Parker Pty Ltd (ACN 000 101 315) (Applicant) Minister for Planning (Respondent)
<b>Representation:</b>	Mr J Johnson, Allens(Applicant) Ms L Sims, Department of Planning (Respondent)
<b>File Number(s):</b>	2017/126126
<b>Publication restriction:</b>	No

### JUDGMENT

- COMMISSIONER:** In this matter, at or after a conciliation conference, an agreement under s 34(3) of the *Land and Environment Court Act 1979* (the Court Act) was reached between the parties as to the terms of a decision in the proceedings that was acceptable to the parties. As the presiding Commissioner, I was satisfied that the decision was one that the Court could have made in the proper exercise of its functions (this being the test applied by s 34(3) of the Court Act). As a consequence, s 34(3)(a) of the Act required me to “dispose of the proceedings in accordance with the decision”.

2

The Court Act also required me to “set out in writing the terms of the decision” (s 34(3) (b)). The orders made to give effect to the agreement constitute that document.

3 In making the orders to give effect to the agreement between the parties, I was not required to make, and have not made, any merit assessment of the issues that were originally in dispute between the parties.

4 The final orders to give effect to the parties’ agreement under s34(3) of the Land and Environment Court Act 1979 are:

(1) Leave is granted to the Applicant to rely on the following amended plans and documents:

<b>Document</b>	<b>Revision Date</b>	<b>Prepared by: (consultant)</b>
Drawing DA-1049-14 A101 Rev M	21/9/2017	Algorry Zappia and Associates Pty Ltd
Drawing DA-1049-14 A301 Rev H	27/9/2017	Algorry Zappia and Associates Pty Ltd
Drawing 14023-16-001-FH-01 Rev P4	25/9/2017	MJ Harvey and Associates Pty Ltd
Drawing SS15-3178-000-I	22/9/2017	Site Image (NSW) Pty Ltd
Drawing SS15-3178-101-J	22/9/2017	Site Image (NSW) Pty Ltd
Drawing SS15-3178-401-G	15/8/2017	Site Image (NSW) Pty Ltd
Drawing SS15-3178-402-I	22/9/2017	Site Image (NSW) Pty Ltd
Drawing SS15-3178-403-G	15/8/2017	Site Image (NSW) Pty Ltd
Drawing SS15-3178-404-G	22/9/2017	Site Image (NSW) Pty Ltd
Drawing SS15-3178-501-I	22/9/2017	Site Image (NSW) Pty Ltd
Town Planning Report	29/9/2017	Tim Ward (Ethos Urban)
Acoustic Report	25/9/2017	Renzo Tonin and Associates

(2) The Applicant is to pay the Respondent's costs thrown away by reason of the amended plans and documents listed above under section 97B of the *Environmental Planning and Assessment Act 1979* as agreed or assessed.



- (3) The appeal is upheld.
- (4) Modification application No. SSDMod 16\_8001, is approved, subject to the conditions set out in Annexure "A".

.....

John Maston

Acting Commissioner of the Land & Environment Court of NSW

[Annexure A \(75.7 KB, pdf\)](#)

[Plans \(8.24 MB, pdf\)](#)

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DISCLAIMER - Every effort has been made to comply with suppression orders or statutory provisions prohibiting publication that may apply to this judgment or decision. The onus remains on any person using material in the judgment or decision to ensure that the intended use of that material does not breach any such order or provision. Further enquiries may be directed to the Registry of the Court or Tribunal in which it was generated.

Decision last updated: 03 November 2017

**ANNEXURE A**

***Sell and Parker Pty Limited v Minister for Planning***

**SCHEDULE 1**

<b>Application No:</b>	SSD 5041
<b>Applicant:</b>	Sell and Parker Pty Ltd
<b>Consent Authority:</b>	Land and Environment Court of NSW
<b>Development:</b>	Increasing the processing capacity of the existing metal recycling facility, including reconfiguration and expansion of the facility into the adjoining site at 23-43 Tatersall Road, Kings Park.
<b>Date of Original Consent:</b>	12 November 2015
<b>Modification:</b>	SSD 5041 MOD 1- the modification includes amendments to the site layout, design of buildings and structures and alterations and additions to existing buildings and structures

**SCHEDULE 2**

This consent is modified as follows:

**In Schedule 1**

1. In the table of definitions, insert the following definitions in alphabetical order:  
Expanded Operations The point at which the site receives or processes in excess of 90,000 tonnes per calendar year of waste  
FRNSW Fire and Rescue New South Wales  
NCC National Construction Code  
Waste As defined in the POEO Act In Schedule 2
2. Delete and replace Condition A2 as follows:  
A2. The Applicant shall carry out the Development in accordance with the:
  - (a) EIS prepared by ERM dated July 2014;
  - (b) Response to Submissions report prepared by ERM dated 7 January 2015;
  - (c) Supplementary Response to Submissions prepared by Mecone dated 30 June 2015;

- (d) Supplementary Response to Submissions prepared by Sell and Parker Pty Ltd dated 3 September 2015;
  - (e) Site layout plans and drawings (See Appendix A);
  - (f) Management and Mitigation Measures (see Appendix B);
  - (g) Modification Application SSD 5041 MOD 1 and accompanying document titled *Statement of Environmental Effects 23-43 and 45 Tattersall Road, Kings Park* dated August 2016 prepared by Higgins Planning, additional information from Higgins Planning dated 22 December 2016, further additional information from Allens and Linklaters dated 9 February 2017 and the Town Planning Report prepared by Ethos Consulting on 29 September 2017.
3. Insert Condition B35A as follows:
- B35A. Prior to:
- (i) expanded operations;
  - (ii) the issue of an Occupation Certificate; or
  - (iii) the date being 6 months after the determination of MOD 1 by the Land and Environment Court,
- (whichever is sooner), the Applicant must ensure that an appropriate sprinkler system and smoke detection system have been installed within the floc storage area in Building C to the satisfaction of FRNSW.
4. Insert Condition E35B as follows: B35B
- Prior to:
- (i) expanded operations;
  - (ii) the issue of an Occupation Certificate; or
  - (iii) the date being 7 months after the determination of MOD 1 by the Land and Environment Court,
- (whichever is sooner), the Applicant must ensure that all fire safety measures required by the NCC for Buildings A, B, & C (as shown on drawing 14023-16-001-FH-01 Rev P4) have been installed and verified through a Fire Safety Audit in accordance with Australian Standard 4655 – Fire Safety Audits, to the satisfaction of FRNSW.
5. Delete Condition B19(viii) and replace as follows:
- (viii) installation of appropriate dust screens at the property boundary and replacement of dust screens and shade cloths at the Tattersall Road boundary of the 45 Tattersall Road site.

6. Replace all drawings in Appendix A with the following:

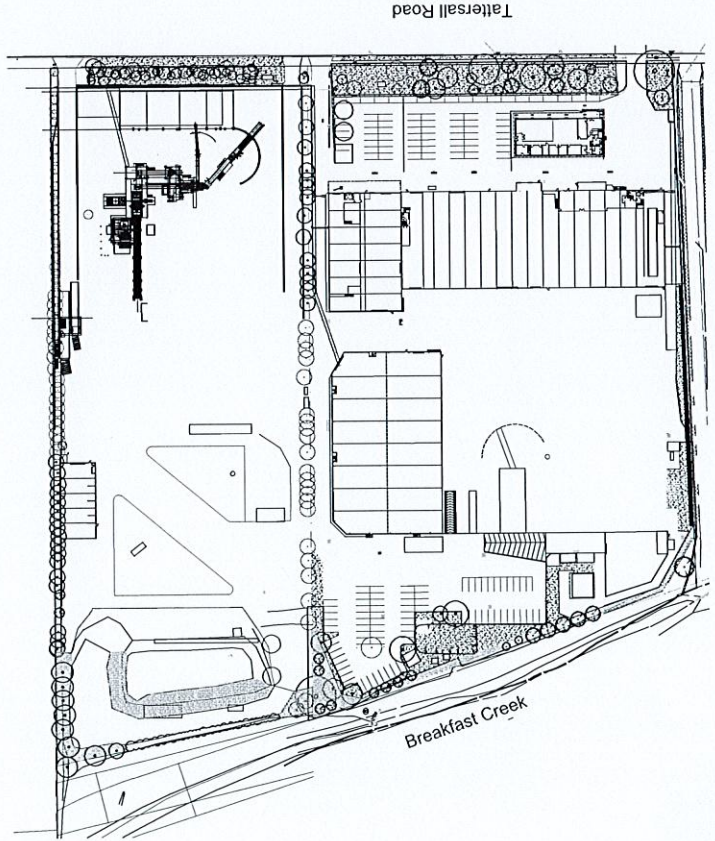






# PROPOSED ALTERATIONS TO EXISTING RECYCLING CENTRE 23-43 & 45 TATTERSALL RD, KINGS PARK LANDSCAPE

DRAWINGS	DWG NO.	DRAWING TITLE	SCALE
	000	COVERSHEET	N/A
	101	LANDSCAPE MASTERPLAN	1:500
	401	LANDSCAPE PLAN	1:250
	402	LANDSCAPE PLAN	1:250
	403	LANDSCAPE PLAN	1:250
	404	LANDSCAPE PLAN	1:250
	501	LANDSCAPE DETAILS	AS SHOWN



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REV	DATE	DESCRIPTION
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99	15.08.2017	Final Design
100	15.08.2017	Final Design

**LEGEND**

- I LCC Recommendations
- H Revised Criteria
- G Revised for the Services
- F Revised for the Services
- E Revised Planning
- D Revised for the Services
- C Construction conditions
- B General Remarks
- A Proposed Installation
- Other Check Date

Key Plan:



Client:  
Sell and Parker Pty Ltd

PROPOSED:  
Alterations to  
Existing Recycling Center  
23 & 45 Tattersall Rd, Kings Park

**SITE IMAGE**  
Landscape Architects  
Level 1, 15, South Street  
Sydney NSW 2018  
Australia  
Tel: (61 2) 9633 3677  
Fax: (61 2) 9633 3677  
www.siteimage.com.au  
Site Image Pty Ltd  
ABN 62 742 282

**CONSTRUCTION CERTIFICATE**  
Drawing Name:  
Coversheet

Scale:  
Job Number:  
Drawing Number:  
Sheet:  
SS15-3178  
000 1

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J.D. NM 22.03.2017  
 J.D. NM 19.03.2016  
 J.D. NM 15.03.2016  
 J.D. NM 13.03.2017  
 J.D. NM 15.03.2016  
 J.D. NM 15.03.2016  
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 J.D. NM 15.03.2016  
 J.D. NM 15.03.2016  
 J.D. NM 15.03.2016  
 J.D. NM 15.03.2016

J. LEC Amendments  
 A. Approved for construction  
 B. Approved for site plan  
 C. Approved for final plan  
 D. Approved for final plan  
 E. Approved for final plan  
 F. Approved for final plan  
 G. Approved for final plan  
 H. Approved for final plan  
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 V. Approved for final plan  
 W. Approved for final plan  
 X. Approved for final plan  
 Y. Approved for final plan  
 Z. Approved for final plan

The contractor shall check and verify all work on site (including work by others) to ensure compliance with the construction conditions. Any discrepancies are to be reported to the landscape architect immediately. The contractor shall not commence work until the landscape architect has approved the construction conditions. Do not build the drawing. Any technical dimensions not shown shall be referred to the landscape architect for confirmation.

**LEGEND**

- Site Boundary
- Existing vegetation to be retained, with additional impervious vegetation
- Turf
- Existing tree to be removed
- Existing tree to be retained
- Proposed tree planting



Client: Sell and Parker Pty Ltd

Project: Proposed Alterations to Existing Recycling Center  
 23 & 45 Tattersall Rd, Kings Park

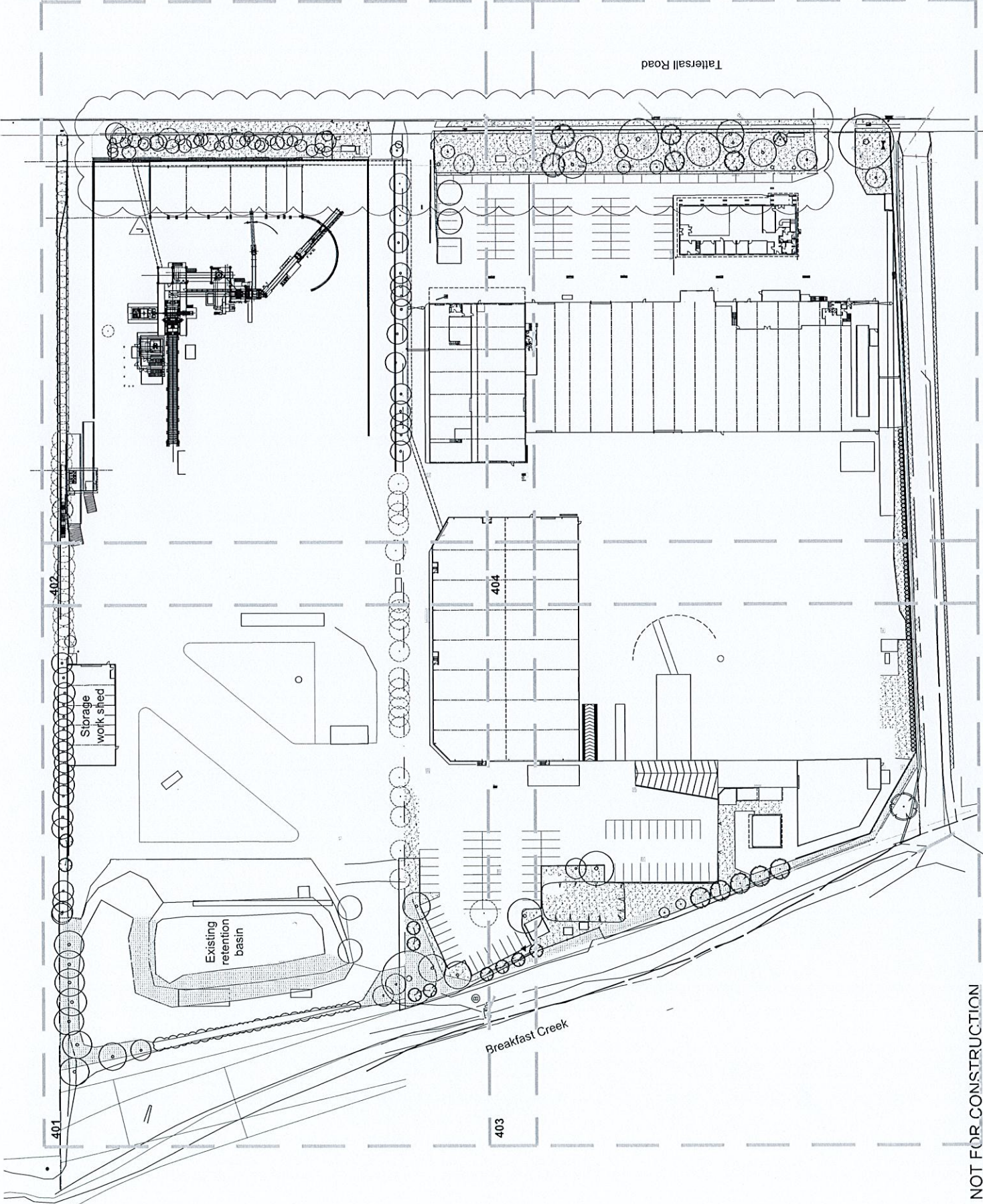
**SITE IMAGE**

Level 1, 3rd Floor Office  
 45 Tattersall Rd, Kings Park  
 Australia  
 Tel: (61 2) 8332 0000  
 Fax: (61 2) 8332 0001  
 Email: [info@siteimage.com.au](mailto:info@siteimage.com.au)  
 Website: [www.siteimage.com.au](http://www.siteimage.com.au)  
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 ABN 44 601 742 280



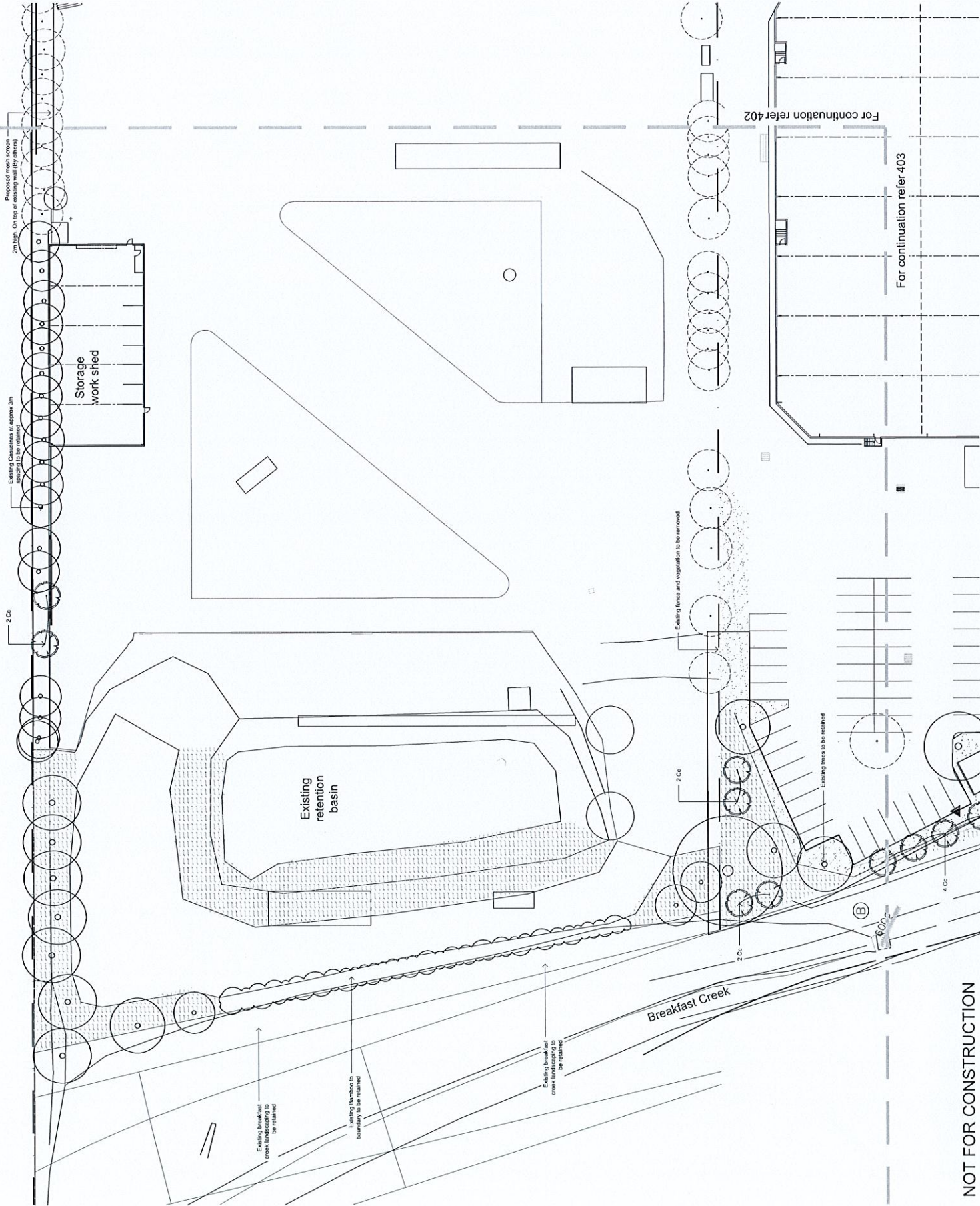
**CONSTRUCTION CERTIFICATE**  
 Landscape Masterplan

Scale: 1:250 @ A1  
 Job Number: 101 J  
 Drawing Number: SS15-3178



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JD	MM	15/03/2017
JD	MM	15/03/2016
JD	MM	15/03/2016
SM	MM	04/03/2016
JD	MM	17/03/2016
JW	MM	17/03/2016
JW	MM	17/03/2016
JD	MM	17/03/2016

Drawn: Check Date

- LEGEND**
- Site Boundary
  - Existing vegetation to be retained
  - Existing fence to be retained
  - Existing trees to be retained
  - Existing fence and vegetation to be removed
  - Existing areas to be retained
  - Proposed new planting



Client: Sell and Parker Pty Ltd

Project: Proposed Alterations to Existing Recycling Center 23 & 45 Tattersal Rd, Kings Park

**SITE IMAGE**

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Kings Park, WA 6105  
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Site Image (NSW) Pty Ltd  
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**CONSTRUCTION CERTIFICATE**  
Landscape Plan

Scale: 1:250 @ A1  
Drawing Number: 401 G  
Sheet: 401 G  
SS15-3178

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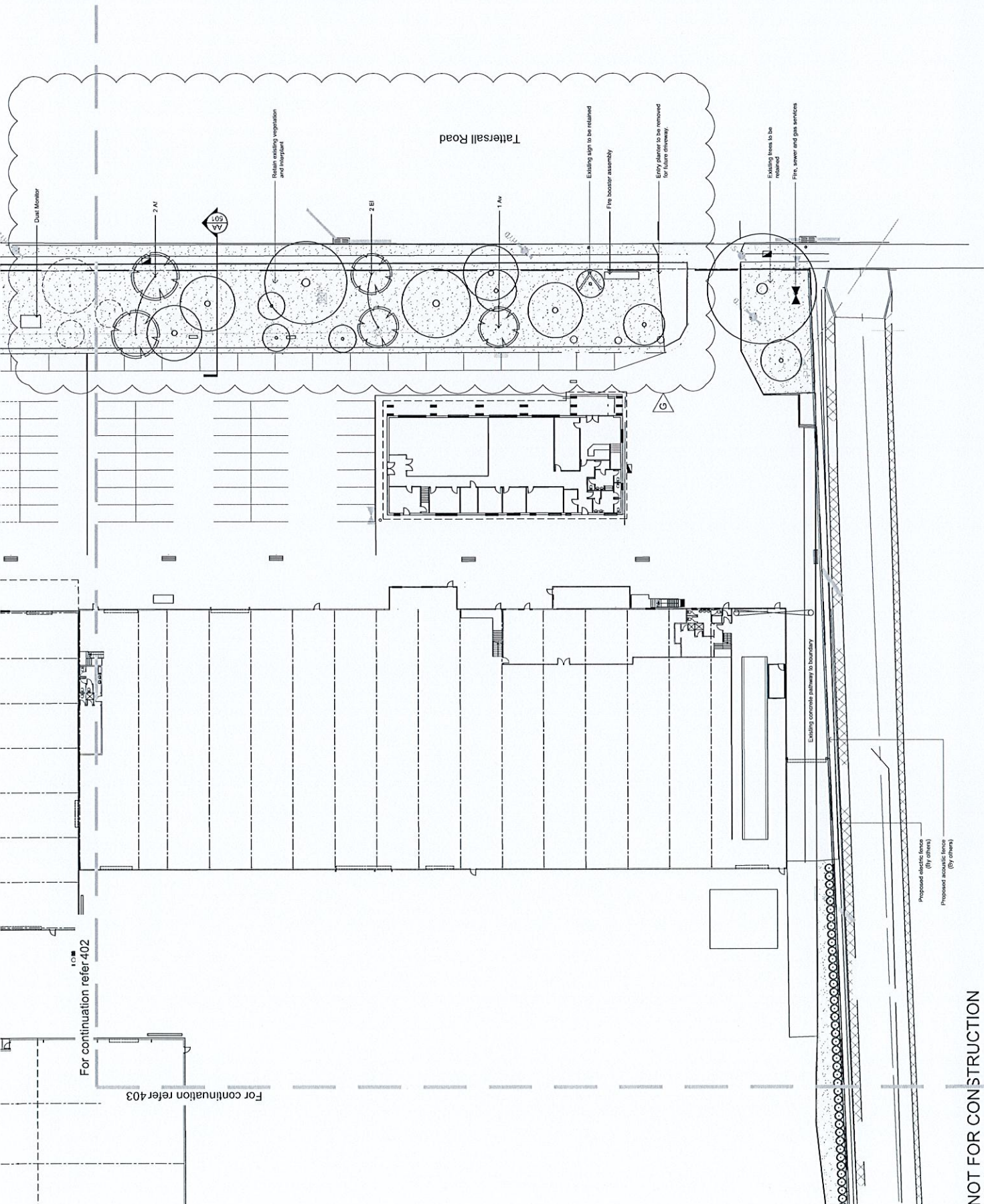
The architect shall check and verify all work on site. Retaining work by others shall be confirmed by the architect. Any observations are to be noted on the drawings. The architect shall be responsible for ensuring that the work is completed in accordance with the drawings. Any required construction not shown shall be referred to the Landscape Architect for confirmation.

JD	NS	22.08.2017
JD	NS	19.08.2017
JD	NS	13.03.2016
SM	NS	04.10.2016
SM	NS	04.10.2016
JW	NS	17.03.2016
JW	NS	13.02.2016
JW	NS	13.02.2016
Drawn	Check	Date

- G LEC Amendments
- H Proposed hedges
- E Existing hedges
- D Construction certificate
- C Construction certificate
- B Construction certificate
- A For Comment

**LEGEND**

- Site boundary
- Existing vegetation to be retained
- Existing vegetation to be removed
- Turf
- Existing trees to be retained
- Existing trees to be removed
- Proposed tree planting



Client: Sell and Parker Pty Ltd

Project: Proposed Alterations to Existing Recycling Center 23 & 45 Tattersall Rd, Kings Park

**SITE IMAGE**

Level 1, 3rd Street Street  
 Kings Park, NSW 2147  
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 Fax: (61) 2 (832) 5601  
 www.siteimage.com.au  
 Site Image (NSW) Pty Ltd  
 ABN 44 611 762 380

Landscape Architects

**CONSTRUCTION CERTIFICATE**  
 Landscape Plan

Scale: 1:250 @ A1  
 Job Number: SS15-3178  
 Drawing Number: 404 G

NOT FOR CONSTRUCTION



## APPENDIX E MOD 2

# Modification of Development Consent

## Section 96(1A) of the *Environmental Planning and Assessment Act 1979*

As delegate for the Minister for Planning, under delegation executed on 11 October 2017, I approve the modification of the development consent referred to in Schedule 1, subject to the conditions outlined in Schedule 2.



Chris Ritchie  
**Director**  
**Industry Assessments**

Sydney

26 FEBRUARY

2018

File: EF18/663

### SCHEDULE 1

<b>Application No:</b>	SSD 5041
<b>Applicant:</b>	Sell and Parker Pty Ltd
<b>Consent Authority:</b>	Minister for Planning
<b>Development:</b>	Increasing the processing capacity of the existing metal recycling facility, including reconfiguration and expansion of the facility into the adjoining site at 23-43 Tattersall Road, Kings Park.
<b>Date of Original Consent:</b>	12 November 2015
<b>Modification:</b>	SSD 5041 MOD 2 – minor amendments to the western acoustic wall, entry weighbridge arrangements and alterations and additions to existing buildings and structures.



## SCHEDULE 2

This consent is modified as follows:

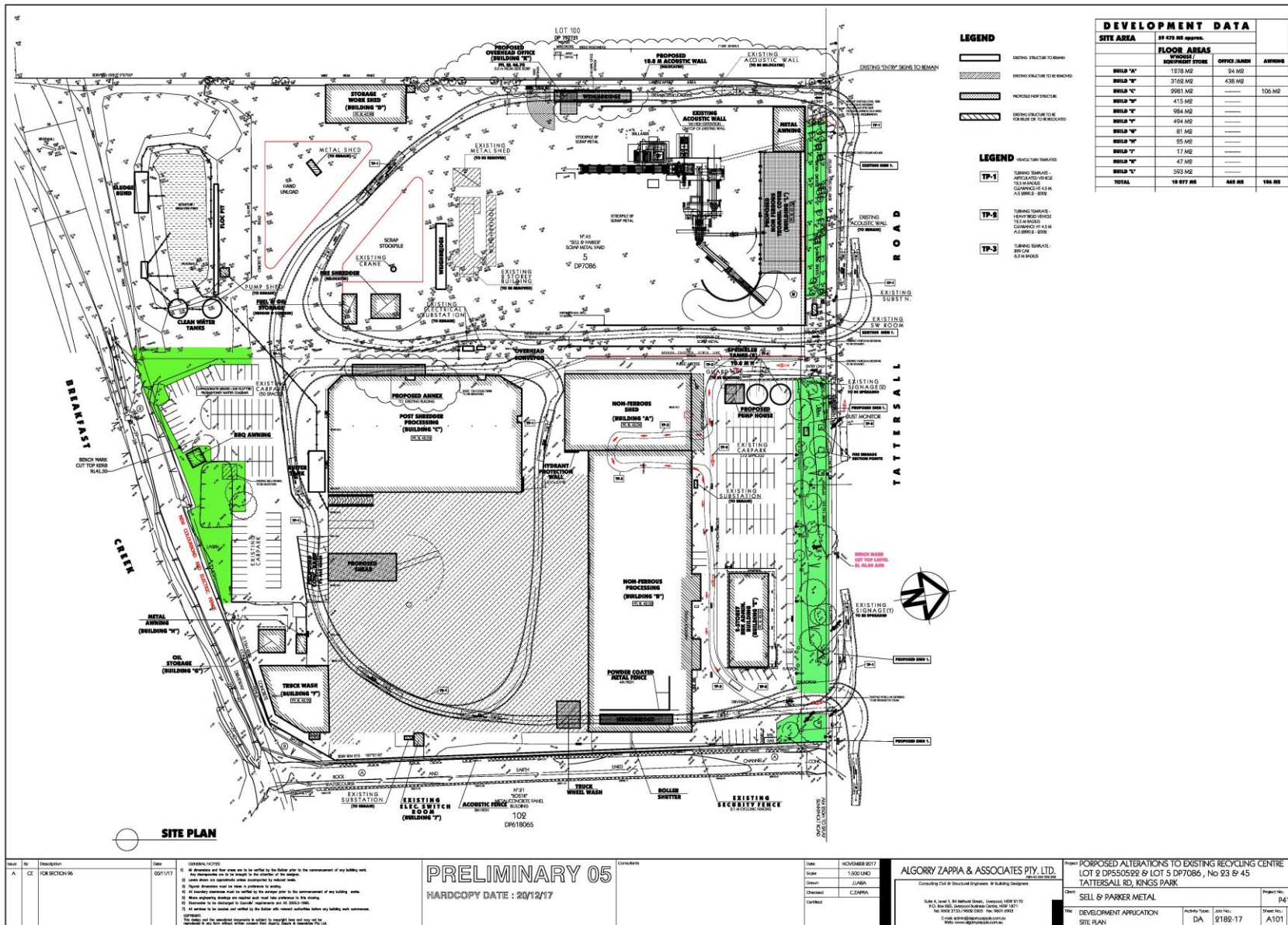
### In Schedule 2

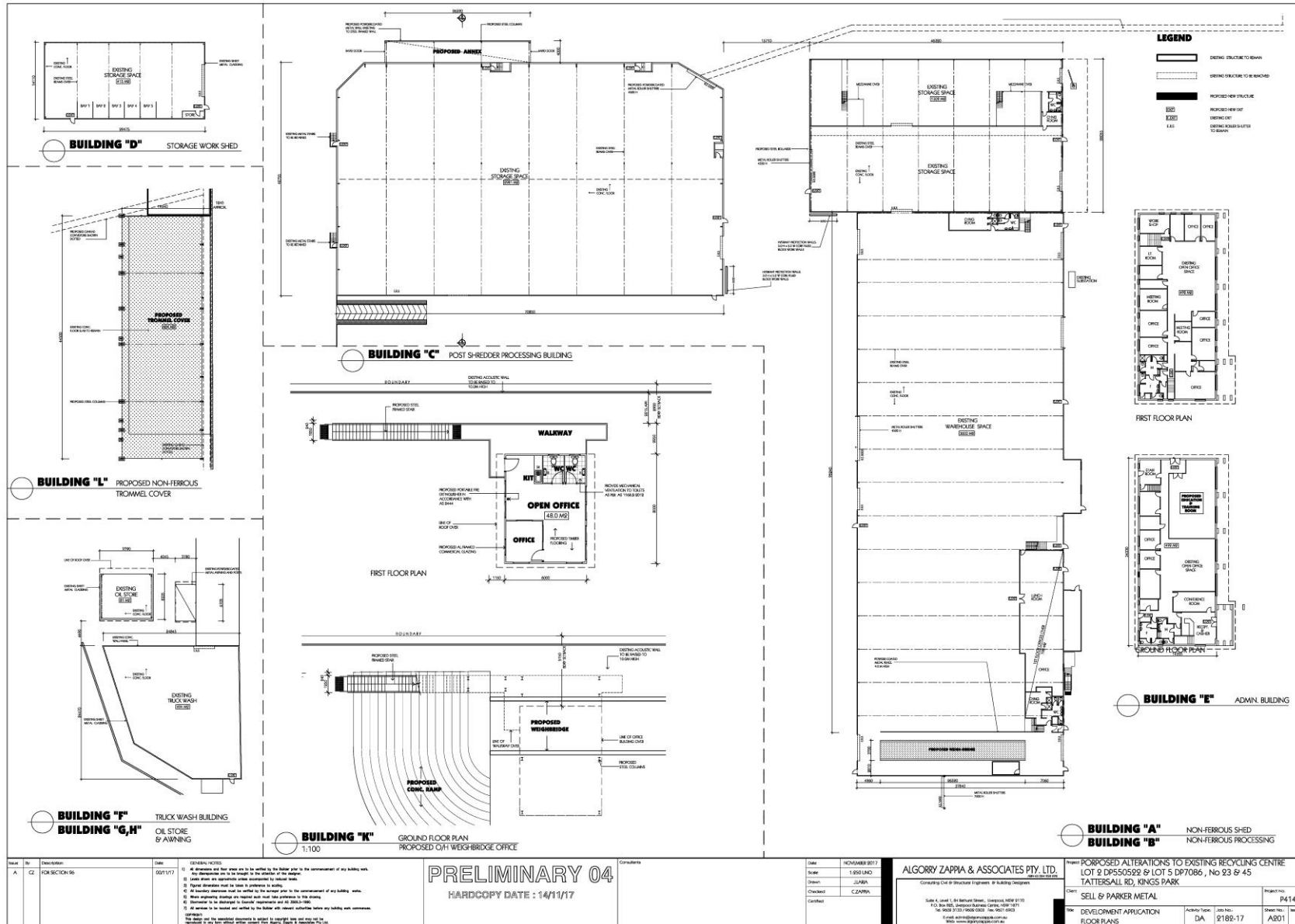
1. Delete Condition A2 and replace with the following:
  - A2. The Applicant shall carry out the Development in accordance with the:
    - (a) EIS prepared by ERM dated July 2014;
    - (b) Response to Submissions report prepared by ERM dated 7 January 2015;
    - (c) Supplementary Response to Submissions prepared by Mecone dated 30 June 2015;
    - (d) Supplementary Response to Submissions prepared by Sell and Parker Pty Ltd dated 3 September 2015;
    - (e) Site layout plans and drawings (See Appendix A);
    - (f) Management and Mitigation Measures (see Appendix B);
    - (g) Modification Application SSD 5041 MOD 1 and accompanying document titled *Statement of Environmental Effects 23-43 and 45 Tattersall Road, Kings Park* dated August 2016 prepared by Higgins Planning, additional information from Higgins Planning dated 22 December 2016 and further additional information from Allens and Linklaters dated 9 February 2017; and
    - (h) Modification Application SSD 5041 MOD 2 and accompanying document titled *Statement of Environmental Effects 23-43 and 45 Tattersall Road, Kings Park* dated December 2017 prepared by Higgins Planning.
2. Insert new Condition B35C immediately after Condition B35B as follows:
  - B35C. Prior to the issue of an occupation certificate for the awning annex adjacent to Building C, the Applicant must ensure that an appropriate sprinkler system has been installed within the awning annex, to the satisfaction of FRNSW.

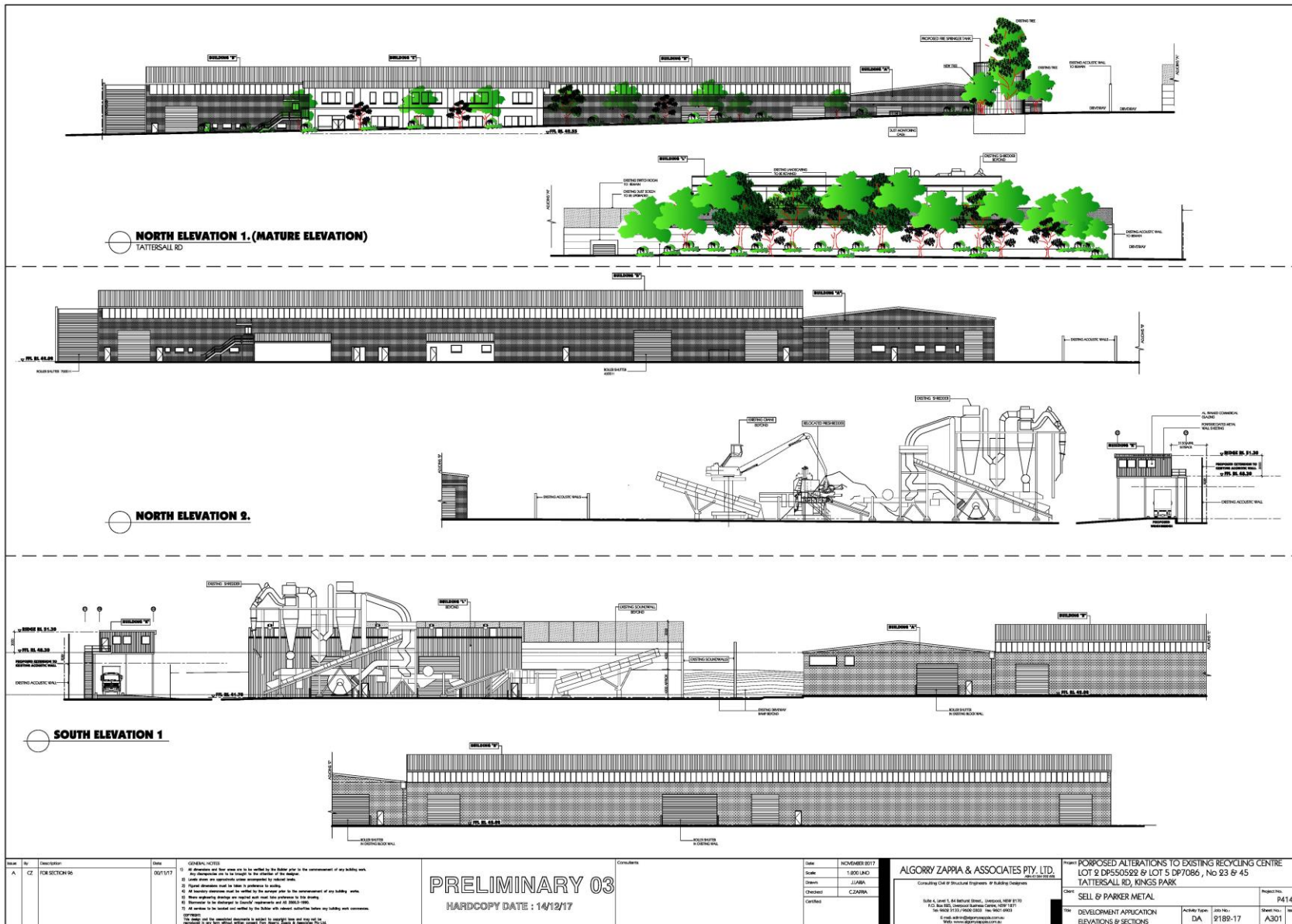
### In the Appendices

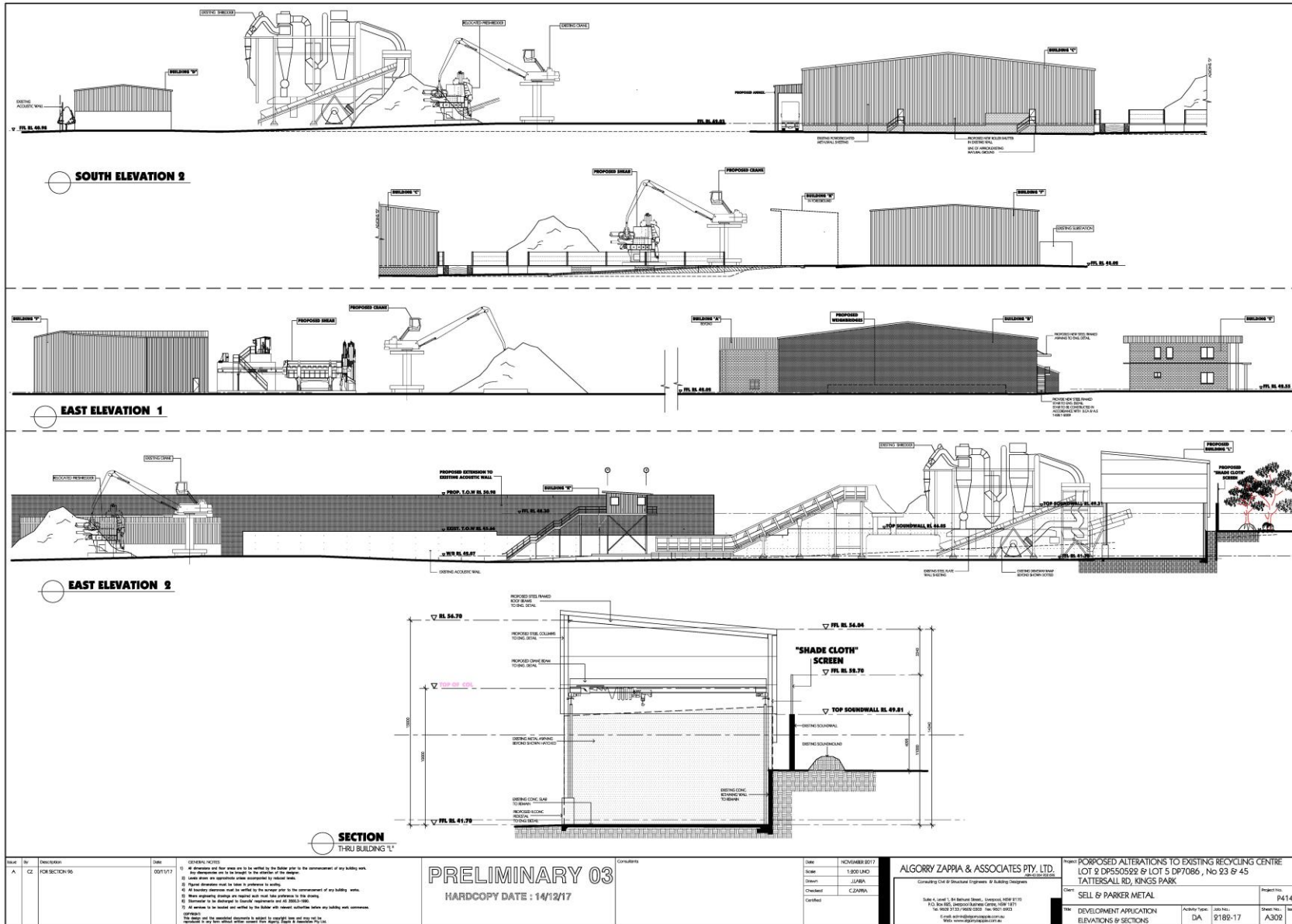
3. Delete Appendix A and replace with the following:

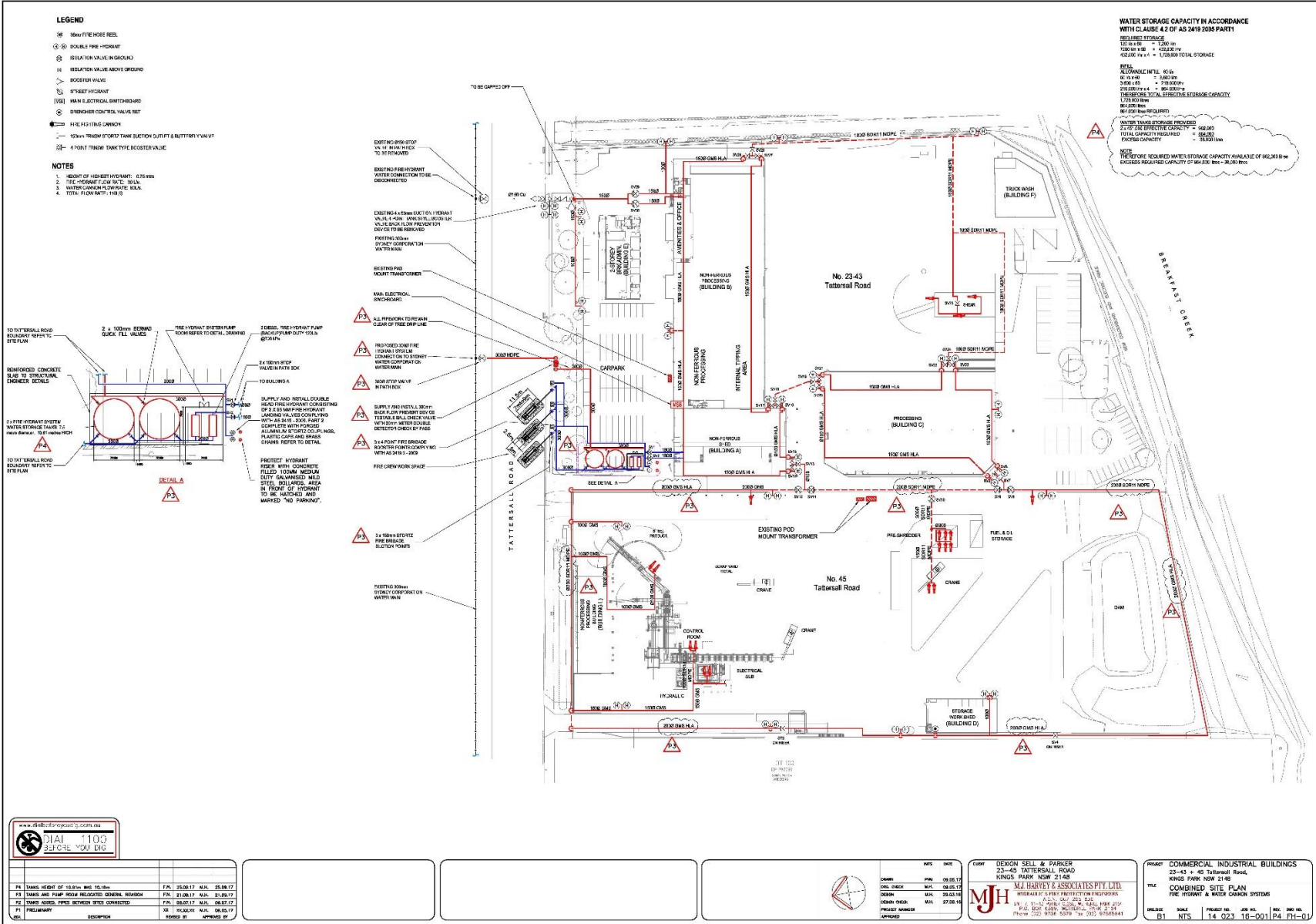
## APPENDIX A: SITE LAYOUT AND PLANS











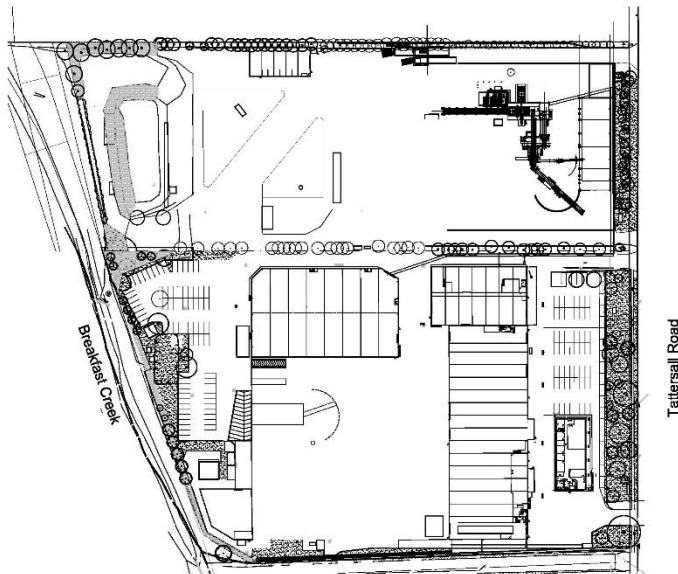
# PROPOSED ALTERATIONS TO EXISTING RECYCLING CENTRE

## 23-43 & 45 TATTERSAL RD, KINGS PARK

### LANDSCAPE

#### DRAWINGS

DWG NO.	DRAWING TITLE	SCALE
000	COVERSHEET	N/A
101	LANDSCAPE MASTERPLAN	1:500
401	LANDSCAPE PLAN	1:250
402	LANDSCAPE PLAN	1:250
403	LANDSCAPE PLAN	1:250
404	LANDSCAPE PLAN	1:250
501	LANDSCAPE DETAILS	AS SHOWN



NOT FOR CONSTRUCTION

A1

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The contractor shall check and verify all work in this drawing with it by client before commencing the works. No other drawings or documents are to be referred to the Project Manager or Landscape Architect prior to commencing work. Do not take the drawing. Any unlabelled dimensions not shown shall be referred to the Landscape Architect for confirmation.

Issue	Revised/Consultation	Drawn	Check	Date
I	LEC Amendments	JD	NM	22.08.2017
II	Revised masterplan	JD	NM	12.08.2017
O	Revised for Fire Services	JW	NM	13.07.2017
F	Revised landscape planting	JD	NM	10.11.2016
E	Revised Parking	JD	NM	10.10.2016
D	Construction certificate	SH	NM	06.10.2016
C	Construction certificate	JD	NM	22.08.2016
B	General Refinement	JW	NM	17.02.2016
A	For Comment	JW	NM	12.02.2016

#### LEGEND

Key Plan:



Client:

Sell and Parker Pty Ltd

Project:

Proposed Alterations to Existing Recycling Center  
23 & 45 Tattersal Rd, Kings Park

SITE IMAGE

Level 1, 3 & 5 Ruffell Street  
Melbourne 3122 VIC  
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Fax: (01) 21 6322 2277  
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CONSTRUCTION CERTIFICATE

Drawing Name:

Coversheet

Scale:

Job Number:

SS15-3178

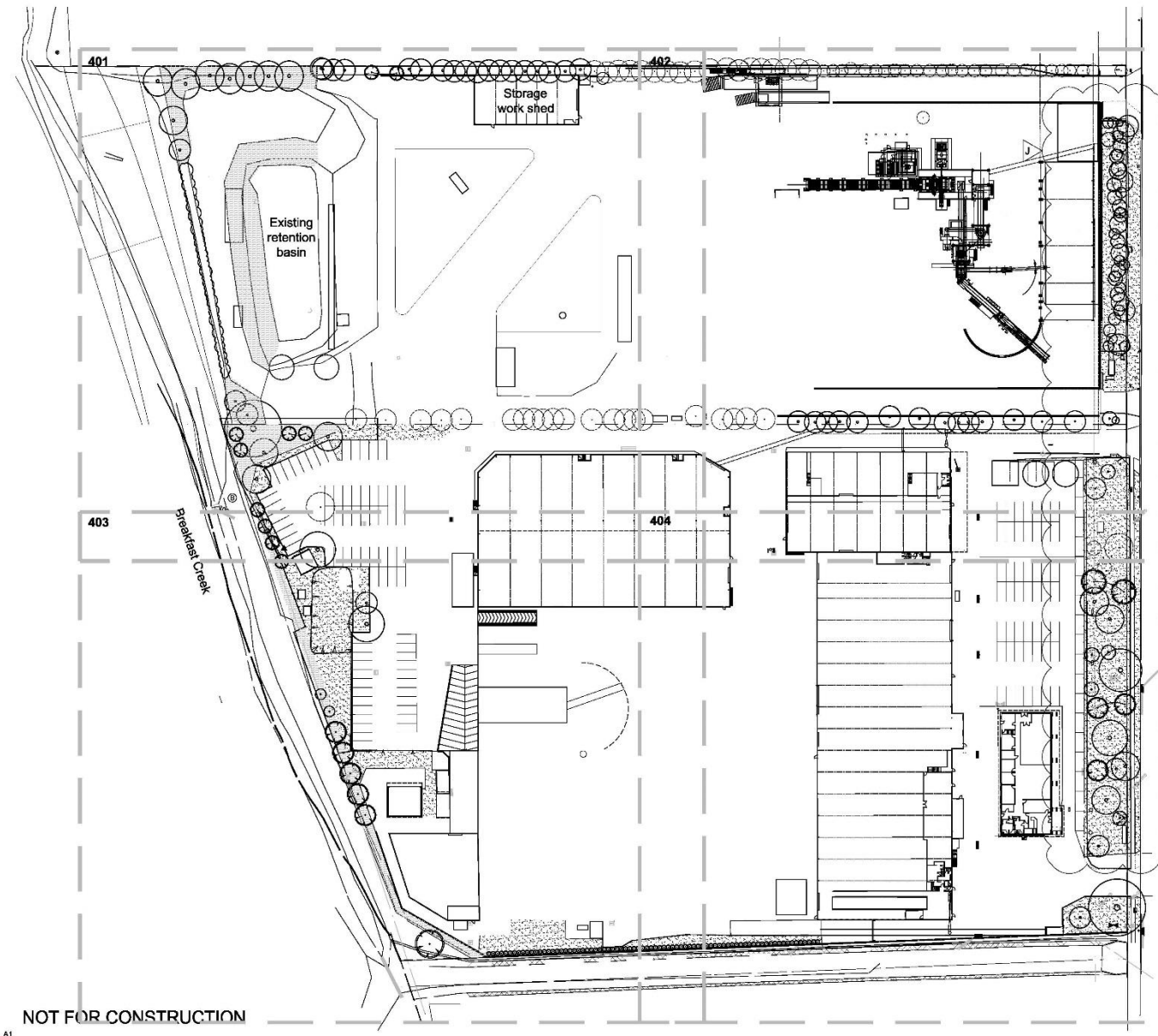
Drawing Number:

000

Issue:

1





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Issue	Revised/Consultant	Drawn	Check	Date
J	LEO Amended	JD	NW	22.08.2017
I	Revised layout	JD	NW	16.05.2017
H	Revised for fire services	JW	NW	15.07.2017
G	Updated landscape setting	DM	NW	21.01.2017
F	Updated landscape setting	JD	NW	10.11.2016
E	Revised planting	JD	NW	10.10.2016
D	Construction certificate	DM	NW	06.10.2016
C	Construction certificate	JD	NW	25.08.2016
B	General Referrals	JW	NW	17.05.2016
A	For Comment	JW	NW	12.02.2016

- LEGEND**
- Site Boundary
  - Existing vegetation to be retained
  - Additional proposed vegetation
  - Turf
  - Existing tree to be removed
  - Proposed tree planting

Key Plan:



Client:  
Sell and Parker Pty Ltd

Project:  
Proposed Alterations to  
Existing Recycling Center  
23 & 45 Tattersall Rd, Kings Park

SITE IMAGE

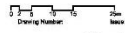
Level 1, 3-5 Russell Street  
Melbourne 3000, VIC  
Australia  
Tel: (01 21 6322 8922  
Fax: (01 21 6322 2277  
www.siteimage.com.au  
Site Image (SII) Pty Ltd  
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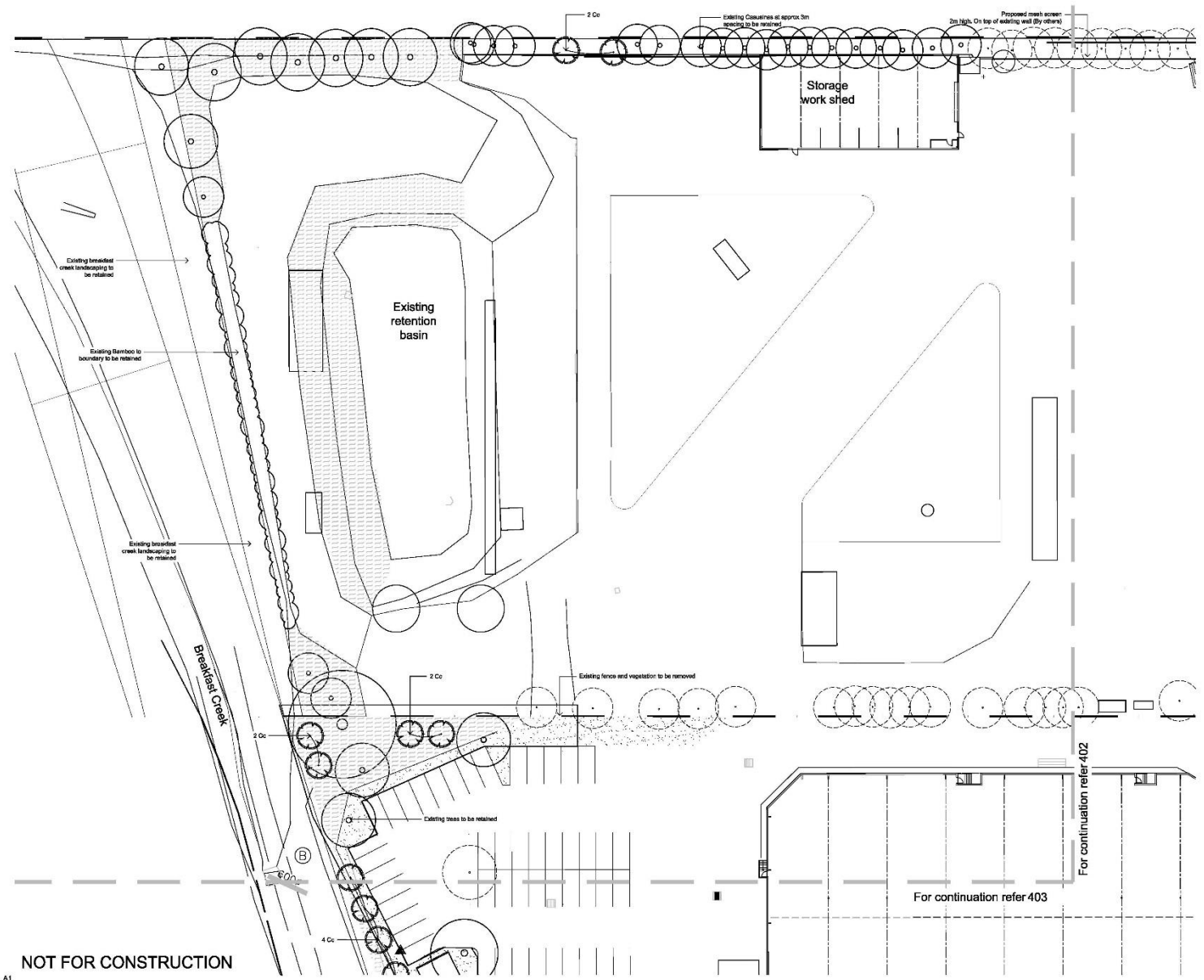
CONSTRUCTION CERTIFICATE

Drawing Name:  
Landscape Masterplan

Scale: 1:500 @ A1  
Job Number:  
SS15-3178



101 J



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The contractor shall check and verify all work on site including work by others before commencing the landscape installation. Any discrepancies to be reported to the Project Manager or Landscape Architect prior to commencing work. Do not take the drawing. Any field observations not shown shall be referred to the Landscape Architect for confirmation.

Issue	Revised/Consultation	Drawn	Check	Date
O	Revised concept	JJ	NM	15.03.2017
F	Revised landscape plan	JJ	NM	15.11.2016
E	Revised planting	JJ	NM	15.10.2016
D	Construction certificate	SM	NM	05.10.2016
C	Construction certificate	JJ	NM	25.09.2016
B	General Review	JJ	NM	11.05.2016
A	For Comment	JJ	NM	12.02.2016

- LEGEND**
- Site Boundary
  - Existing vegetation to be retained with additional landscape vegetation
  - Turf
  - Existing trees to be retained
  - Existing trees to be retained
  - Proposed tree planting

Key Plan:



Client:  
Sell and Parker Pty Ltd

Project:  
Proposed Alterations to Existing Recycling Center  
23 & 45 Tattersall Rd, Kings Park

**SITE IMAGE**

Level 1, 3-5 Russell Street  
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Australia

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Fax: (01) 22 6322 2277  
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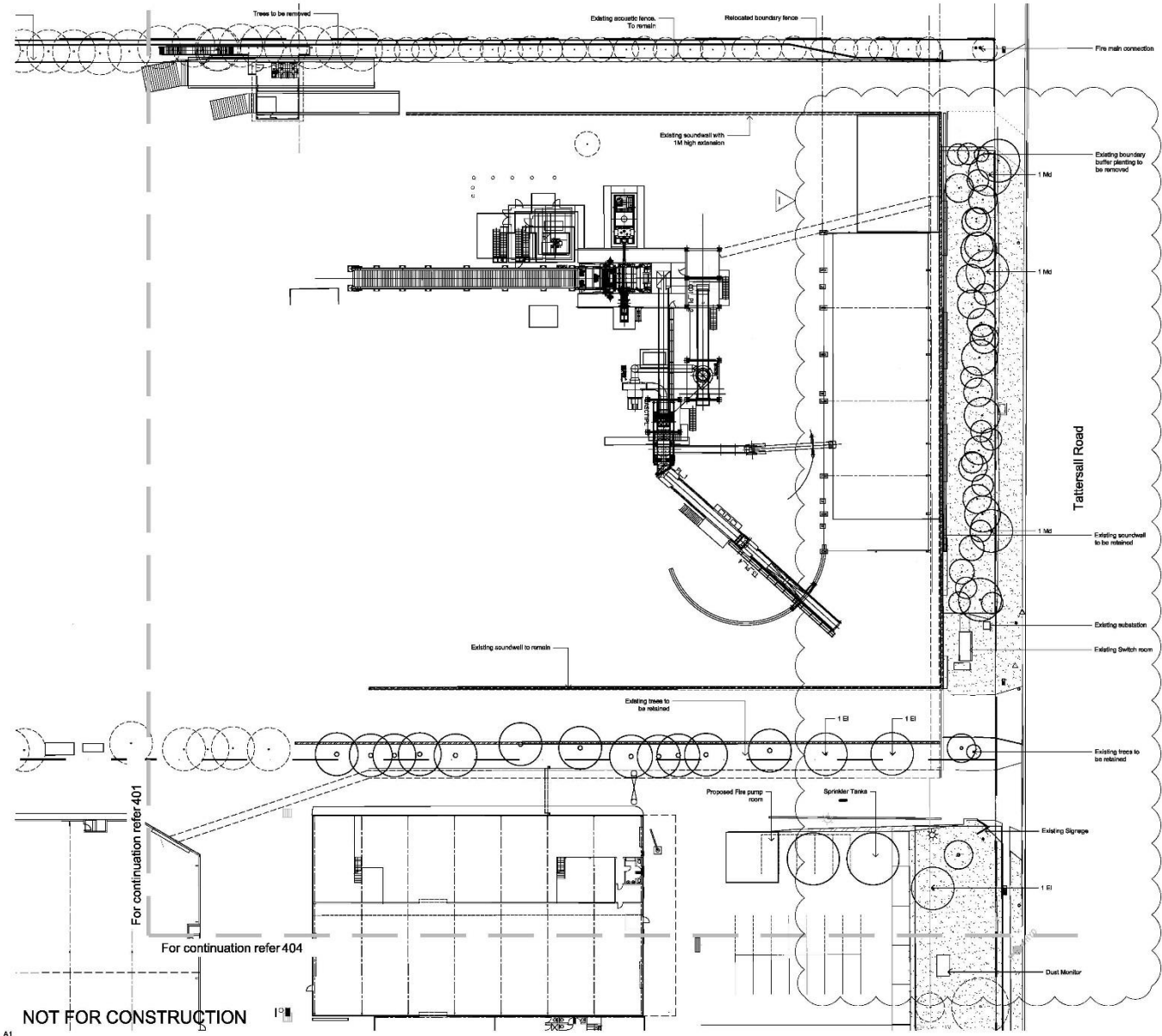
Landscape Architects

**CONSTRUCTION CERTIFICATE**

Drawing Name:  
Landscape Plan

Scale: 1:250 @ A1  
Job Number: SS15-3178  
Drawing Number: 401 G

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Issue	Revised/Consultation	Drawn	Check	Date
1	LED Amendments	JD	NM	22.06.2017
2	Revised for Fire Services	JW	NM	13.07.2017
3	Updated landscape setting	SM	NM	21.01.2017
4	Updated landscape setting	JD	NM	10.11.2016
5	Revised Planting	JD	NM	10.10.2016
6	Construction schedule	SM	NM	06.10.2016
7	Construction schedule	JD	NM	22.06.2016
8	General Refinement	JW	NM	11.03.2016
9	For Comment	JW	NM	13.02.2016

**LEGEND**

- Site Boundary
- Existing vegetation to be retained with additional landscape vegetation
- Turf
- Existing trees to be removed
- Existing trees to be retained
- Proposed trees planting

Key Plan:



Client:  
Sell and Parker Pty Ltd

Project:  
Proposed Alterations to Existing Recycling Center  
23 & 45 Tattersall Rd, Kings Park

**SITE IMAGE**

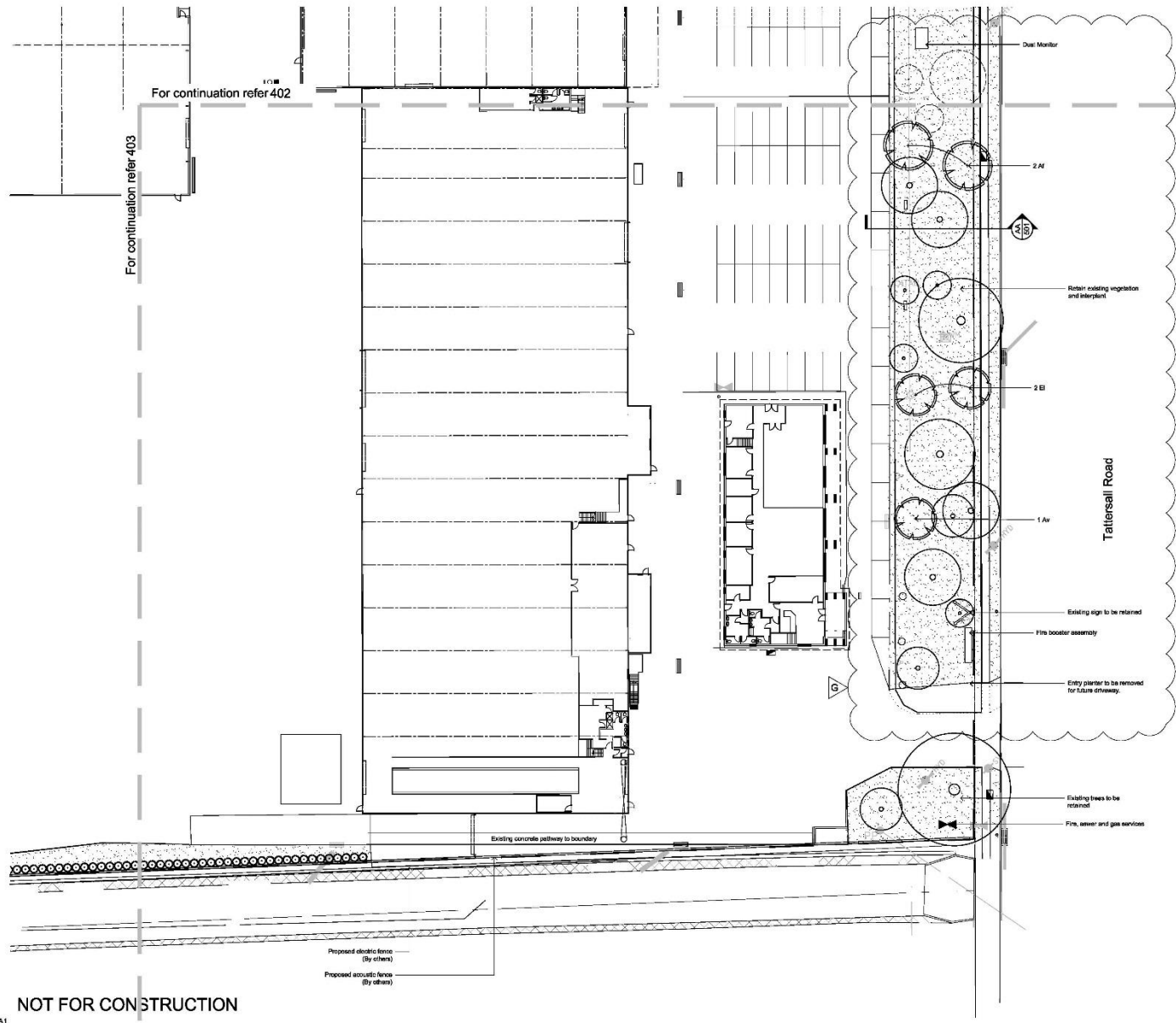
Level 1, 3 & 4 Ruffell Street  
Melbourne (3000) VIC  
Australia  
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Fax: (01 21 6322 2277  
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Landscape Architects

**CONSTRUCTION CERTIFICATE**

Drawing Name:  
Landscape Plan

Scale: 1:250 @ A1  
Job Number: SS15-3178  
Drawing Number: 402 I



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Issue	Revised/Consultation	Drawn	Check	Date
G	LCI Amendments	JD	NM	22.03.2017
F	Material Investigation	JD	NM	10.11.2016
E	Revised Paving	JD	NM	16.10.2016
D	Construction Outline	SM	NM	06.10.2016
C	Construction Outline	JD	NM	22.03.2016
B	General Referrals	JF	NM	17.02.2016
A	For Comment	JW	NM	12.02.2016

- LEGEND**
- Site Boundary
  - Existing vegetation to be retained with additional landscape vegetation
  - Turf
  - Existing trees to be retained
  - Existing trees to be retained
  - Proposed tree planting

Key Plan:



Client:  
**Sell and Parker Pty Ltd**

Project:  
**Proposed Alterations to Existing Recycling Center 23 & 45 Tattersall Rd, Kings Park**

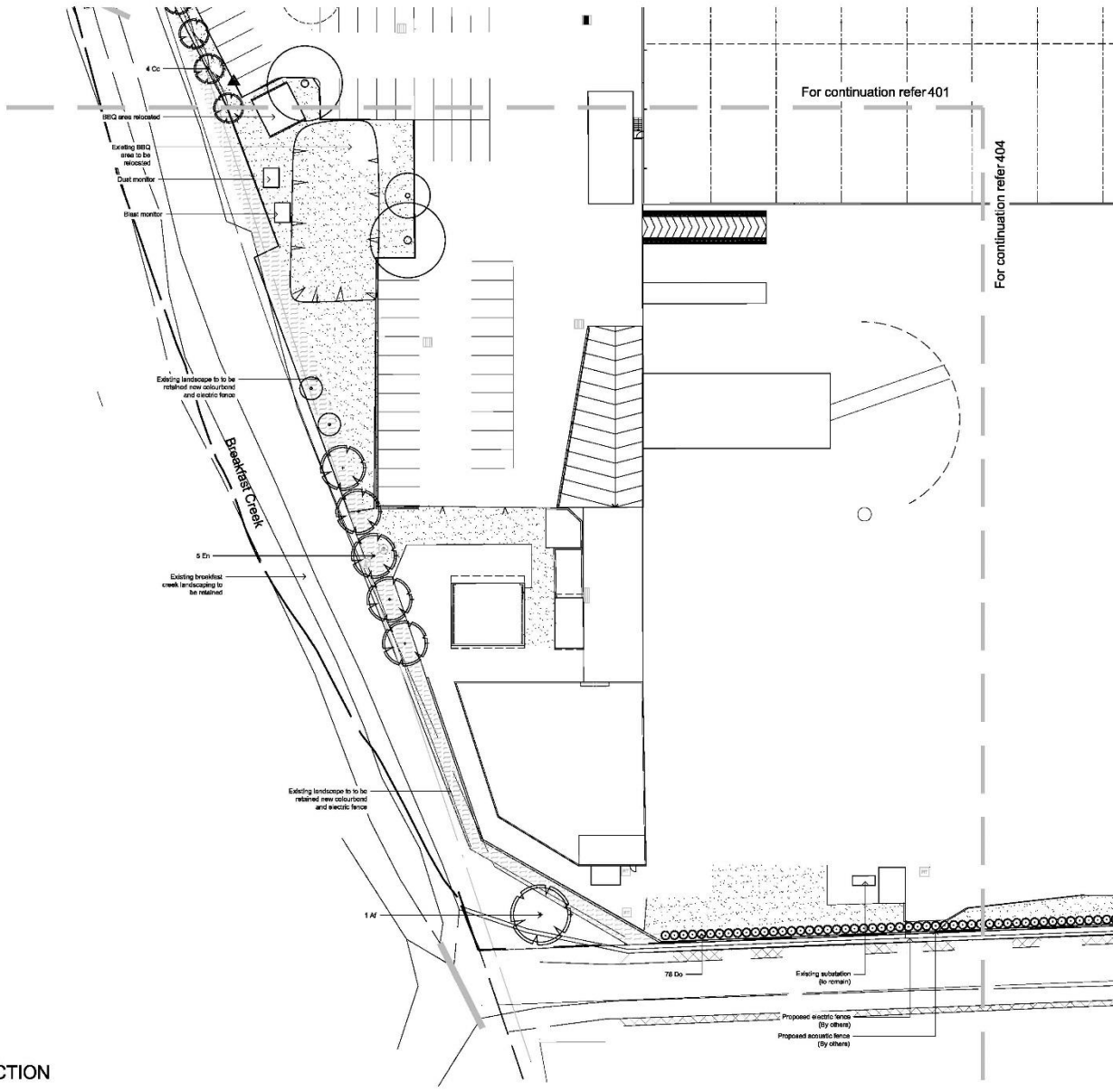
**SITE IMAGE**  
 Level 1, 3 & 5 Buzpitt Street  
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 Fax: (61) 21 6322 2277  
 www.siteimage.com.au  
 Site Image (SII) Pty Ltd  
 ABN 41 621 267 267  
 Landscape Architects

**CONSTRUCTION CERTIFICATE**

Drawing Name:  
**Landscape Plan**

Scale: 1:250 @ A1  
 Job Number: SS15-3178  
 Drawing Number: 404 G

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The contractor shall check and verify all work in the field including work by others before commencing the landscape installation. Any discrepancies to be reported to the Project Manager or Landscape Architect prior to commencing work. Do not take the drawing. Any unlabelled dimensions not shown shall be referred to the Landscape Architect for confirmation.

Issue	Revised Construction	Drawn	Check	Date
O	Revised concept	JJ	NM	15.03.2017
F	Revised landscape plan	JJ	NM	15.11.2016
E	Revised planting	JJ	NM	15.10.2016
D	Construction certificate	SM	NM	05.10.2016
C	Construction certificate	JJ	NM	25.09.2016
B	General Reference	JJ	NM	17.03.2016
A	For Comment	JJ	NM	12.02.2016

- LEGEND**
- Site Boundary
  - Existing vegetation to be retained with additional landscape vegetation
  - Turf
  - Existing area to be retained
  - Existing tree to be retained
  - Proposed tree planting

Key Plan:



Client:  
**Sell and Parker Pty Ltd**

Project:  
**Proposed Alterations to Existing Recycling Center 23 & 45 Tattersall Rd, Kings Park**

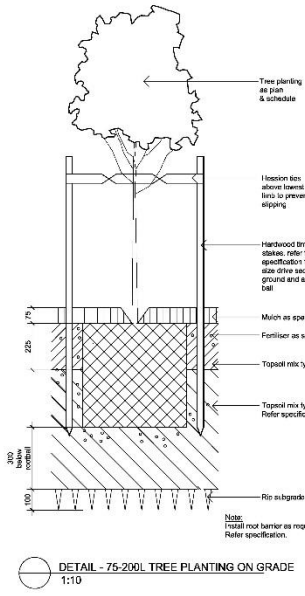
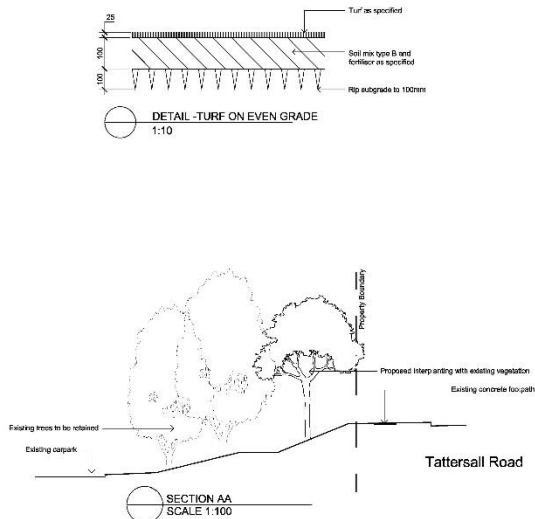
**SITE IMAGE**  
Landscape Architects  
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Melbourne VIC 3000  
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Tel: (01) 25 6322 8622  
Fax: (01) 25 6322 2777  
www.siteimage.com.au  
Site Image (SII) Pty Ltd  
ABN 41 671 367 347

**CONSTRUCTION CERTIFICATE**

Drawing Name:  
**Landscape Plan**

Scale: 1:250 @ A1  
Job Number: SS15-3178  
Drawing Number: 403 G

**NOT FOR CONSTRUCTION**  
A1



Symbol	Botanic Name	Common Name	Mature Size (h x w)	Pot Size	Spacing	Qty
<b>TREES</b>						
Af	<i>Argemone foeniculis</i>	Single Barked Fig-elm	20 x 0	10CL	As Shown	5
Ar	<i>Allocasuarina verticillata</i>	Scoutling Street Oak	8 x 7	10CL	As Shown	1
Cs	<i>Casuarina cunninghamiana</i>	Wing Sheek	20 x 0	10CL	As Shown	10
Bl	<i>Ficus virens</i>	Black Fig	7 x 8	10CL	As Shown	5
En	<i>Eucalyptus globulus</i>	Wattle Paperbark	10 x 0	10CL	As Shown	5
Ml	<i>Melaleuca cajuputi</i>	White Gums	10 x 0	10CL	As Shown	5
<b>BAMBOO</b>						
Do	<i>Drosera rotundifolia</i>	Clare Timber Bamboo	15 x 2	300mm	As Shown	75

**Maintenance Schedule**

Task	ACTIVITY	FREQUENCY					ACTION
		D	W	2W	3W	M	
1	Lighting	+					Daily, Weekly, Monthly Check and replace every day if the light is not working. Replace every 2 weeks if the light is not working. Replace every 2 weeks if the light is not working. Replace every 2 weeks if the light is not working. Replace every 2 weeks if the light is not working.
2	Plant replacement				+	+	Inspect and replace plant (if any) at this 2 weeks of observation of the site. Replace plant (if any) at this 2 weeks of observation of the site. Replace plant (if any) at this 2 weeks of observation of the site. Replace plant (if any) at this 2 weeks of observation of the site. Replace plant (if any) at this 2 weeks of observation of the site.
3	Mulch			+		+	Inspect and replace mulch (if any) at this 2 weeks of observation of the site. Replace mulch (if any) at this 2 weeks of observation of the site. Replace mulch (if any) at this 2 weeks of observation of the site. Replace mulch (if any) at this 2 weeks of observation of the site. Replace mulch (if any) at this 2 weeks of observation of the site.
4	Erosion control					+	Inspect every two weeks and replace (if any) and install immediately. Replace (if any) and install immediately. Replace (if any) and install immediately. Replace (if any) and install immediately. Replace (if any) and install immediately.
5	Stems control					+	Inspect every two weeks and replace (if any) and install immediately. Replace (if any) and install immediately. Replace (if any) and install immediately. Replace (if any) and install immediately. Replace (if any) and install immediately.
6	Weed and rubbish removal					+	Inspect every two weeks and replace (if any) and install immediately. Replace (if any) and install immediately. Replace (if any) and install immediately. Replace (if any) and install immediately. Replace (if any) and install immediately.
7	Planting					+	Inspect every 2 weeks and replace (if any) and install immediately. Replace (if any) and install immediately. Replace (if any) and install immediately. Replace (if any) and install immediately. Replace (if any) and install immediately.
8	Soil testing					+	Inspect every 2 weeks and replace (if any) and install immediately. Replace (if any) and install immediately. Replace (if any) and install immediately. Replace (if any) and install immediately. Replace (if any) and install immediately.
9	Urgent works					+	Complete within 1 week (or less) of notification. Inspect and replace (if any) and install immediately. Replace (if any) and install immediately. Replace (if any) and install immediately. Replace (if any) and install immediately.
10	Planting and watering					3w	Inspect every 2 weeks and replace (if any) and install immediately. Replace (if any) and install immediately. Replace (if any) and install immediately. Replace (if any) and install immediately. Replace (if any) and install immediately.
11	Watering					+	Water every 2 weeks and replace (if any) and install immediately. Replace (if any) and install immediately. Replace (if any) and install immediately. Replace (if any) and install immediately. Replace (if any) and install immediately.
12	Mowing, top dressing and weeding					+	Mow every 2 weeks and replace (if any) and install immediately. Replace (if any) and install immediately. Replace (if any) and install immediately. Replace (if any) and install immediately. Replace (if any) and install immediately.

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The contractor shall check and verify all work at intervals during the project. The contractor shall be responsible for the maintenance of the site. The contractor shall be responsible for the maintenance of the site. The contractor shall be responsible for the maintenance of the site.

Legend	Item	Code	Quantity
1	As Shown	As Shown	As Shown
2	As Shown	As Shown	As Shown
3	As Shown	As Shown	As Shown
4	As Shown	As Shown	As Shown
5	As Shown	As Shown	As Shown
6	As Shown	As Shown	As Shown
7	As Shown	As Shown	As Shown
8	As Shown	As Shown	As Shown
9	As Shown	As Shown	As Shown
10	As Shown	As Shown	As Shown
11	As Shown	As Shown	As Shown
12	As Shown	As Shown	As Shown

**LEGEND**

1. As Shown  
2. As Shown  
3. As Shown  
4. As Shown  
5. As Shown  
6. As Shown  
7. As Shown  
8. As Shown  
9. As Shown  
10. As Shown  
11. As Shown  
12. As Shown

Key Plan



Client: Sell and Parker Pty Ltd

Project: Proposed Alterations to Existing Recycling Center 23 & 45 Tattersall Rd, Kings Park

**SITE IMAGE**

Level 1 - 24 Tattersall Road  
Kings Park  
NSW 2148  
Tel: 02 9338 0077  
Fax: 02 9338 0077  
www.sellandparker.com.au  
The Image Group Pty Ltd  
Level 1 - 24 Tattersall Road  
Kings Park  
NSW 2148

Landscape Architects

**CONSTRUCTION CERTIFICATE**

Drawing Name: Landscape Details

Scale: 1:250 @ A1  
Drawing Number: SS15-1178  
501 I

NOT FOR CONSTRUCTION

**APPENDIX F MOD 3**

# Modification of Development Consent

## Section 4.55(1A) of the *Environmental Planning and Assessment Act 1979*

As delegate for the Minister for Planning, under delegation executed on 11 October 2017, I approve the modification of the development consent referred to in Schedule 1, subject to the conditions outlined in Schedule 2.



Chris Ritchie  
Director  
Industry Assessments

Sydney 29 MAY

2019

File: EF19/718

### SCHEDULE 1

<b>Application No:</b>	SSD 5041
<b>Applicant:</b>	Sell and Parker Pty Ltd
<b>Consent Authority:</b>	Minister for Planning
<b>Development:</b>	Increasing the processing capacity of the existing metal recycling facility, including reconfiguration and expansion of the facility into the adjoining site at 23-43 Tattersall Road, Kings Park.
<b>Date of Original Consent:</b>	12 November 2015
<b>Modification:</b>	SSD 5041 MOD 3 – changes to plant including conversion of an existing shear, realignment of the overhead conveyor and relocation of the pre-shedder, increase in operational hours for cleaning and maintenance, and administrative changes for the discharge of wastewater.



## SCHEDULE 2

This consent is modified as follows:

1. Insert the following definition in alphabetical order:

**Modification Assessments**

The document assessing the environmental impact of a proposed modification of this consent and any other information submitted with the following modification applications made under the EP&A Act:

- (a) Modification Application SSD 5041 MOD 1 and accompanying document titled *Statement of Environmental Effects 23-43 and 45 Tattersall Road, Kings Park* dated August 2016 prepared by Higgins Planning, additional information from Higgins Planning dated 22 December 2016 and further additional information from Allens and Linklaters dated 9 February 2017; and
- (b) Modification Application SSD 5041 MOD 2 and accompanying document titled *Statement of Environmental Effects 23-43 and 45 Tattersall Road, Kings Park* dated December 2017 prepared by Higgins Planning.
- (c) Modification Application SSD 5041 MOD 3 and accompanying document titled *Section 4.55(1A) Application (SSD 5041 – Mod 3), 23-43 and 45 Tattersall Road, Kings Park* dated 11 February 2019 and Response to Submissions dated 4 April 2019 prepared by Arcadis Australia Pacific Pty Ltd

**In Schedule 2**

2. Delete Condition A2 and replace with the following:

A2. The Applicant shall carry out the Development in accordance with the:

- (a) EIS prepared by ERM dated July 2014;
- (b) Response to Submissions report prepared by ERM dated 7 January 2015;
- (c) Supplementary Response to Submissions prepared by Mecone dated 30 June 2015;
- (d) Supplementary Response to Submissions prepared by Sell and Parker Pty Ltd dated 3 September 2015;
- (e) Modification Assessments
- (f) Site layout plans and drawings (See Appendix A);
- (g) Management and Mitigation Measures (see Appendix B);

3. Delete condition B6(e).

4. Delete condition B7(e)

5. Delete Condition B26 and replace with the following:

B26. The Applicant shall ensure that noise generated by the construction and/or operation of the Development does not exceed the noise criteria in Table 2.

**Table 2: Noise criteria (dB(A))**

Location	Noise criteria (dB(A))				
	Day	Evening	Night	Morning Shoulder	
	L <sub>Aeq</sub> (15 minute)	L <sub>Aeq</sub> (15 minute)	L <sub>Aeq</sub> (15 minute)	L <sub>Aeq</sub> (15 minute)	L <sub>Aeq</sub> (1 minute)
<b>189 Sunnyholt Road</b>	46	46	38	46	58

6. Delete Condition B31 and replace with the following:

B31. The Applicant shall ensure that noise generated by the construction and/or operation of the Development does not exceed the noise criteria in Table 3.

**Table 3: Hours of Construction and Operation**

Activity		Day	Hours
Construction		Monday – Friday	7 am to 6 pm
		Saturday	8 am to 1 pm
		Sunday & Public Holidays	Nil
Operation	Oxy-acetylene torch cutting	Monday – Saturday	9 am to 3 pm
		Sunday & Public Holidays	Nil
	Cleaning and maintenance	Monday – Saturday	9pm to 6 am
		Sunday & Public Holidays	24 hours
	All other activities	Monday – Saturday	6 am to 9 pm
		Sunday & Public Holidays	Nil

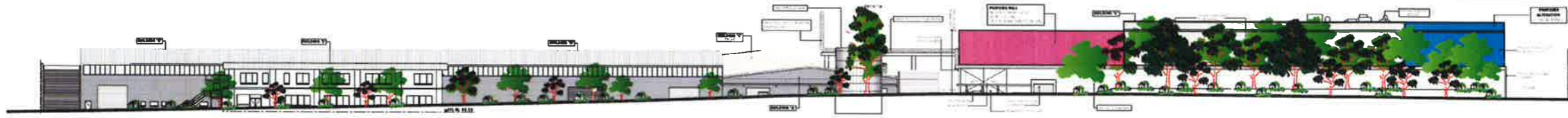
7. Insert new Condition after B35C as follows:

B35D. Prior to the commencement of operation of the relocated pre-shredder the Applicant shall submit a Final Stockpile Plan to the satisfaction of the Secretary and FRNSW.

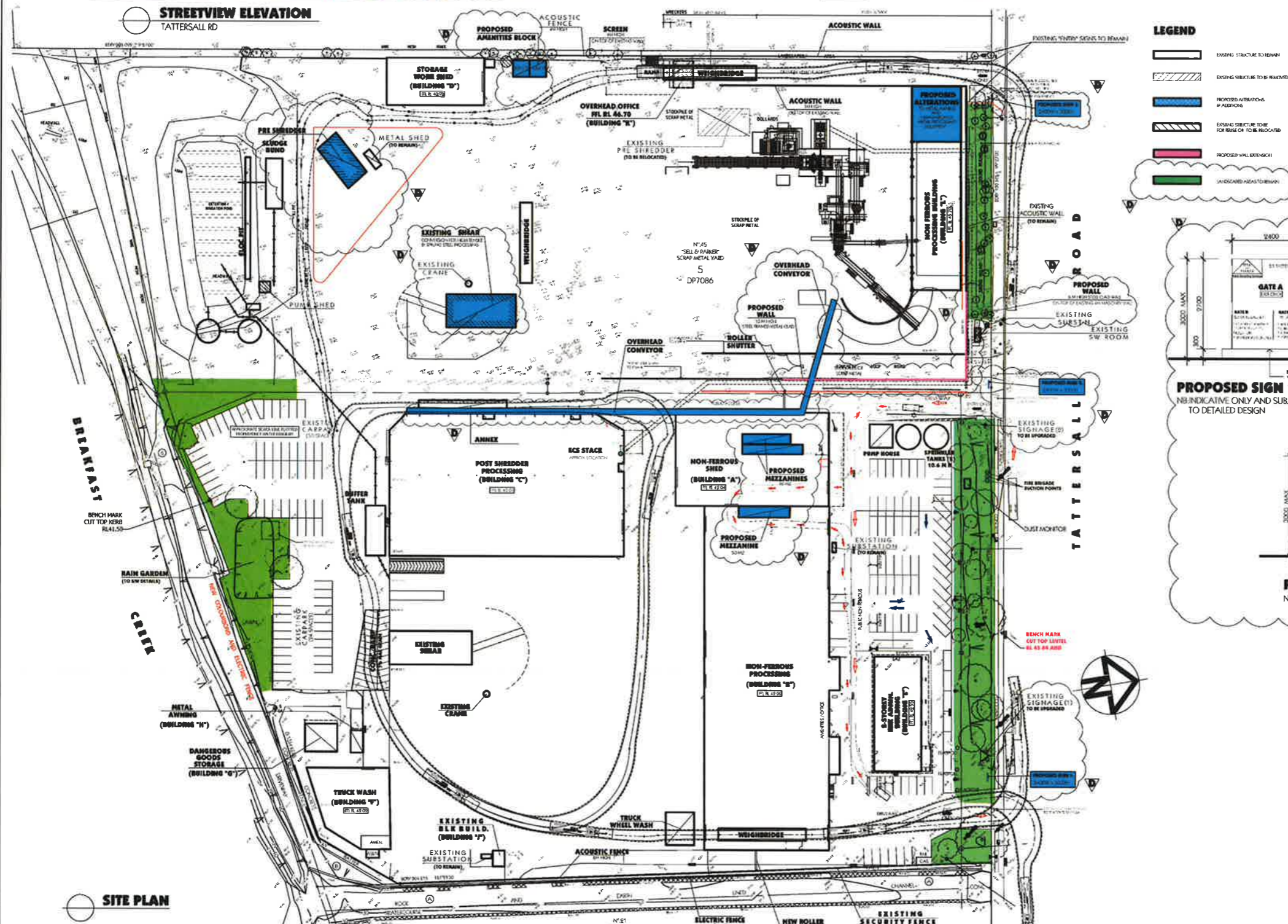
**In the Appendices**

8. Add new Site Plan to Appendix A.

## APPENDIX A: SITE LAYOUT AND PLANS



**STREETVIEW ELEVATION**  
TATTERSALL RD



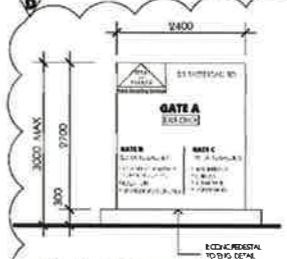
**SITE PLAN**

**LEGEND**

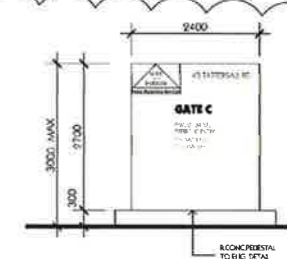
- EXISTING STRUCTURE TO REMAIN
- EXISTING STRUCTURE TO BE REMOVED
- PROPOSED ALTERATIONS TO EXISTING
- EXISTING STRUCTURE TO BE RELOCATED
- PROPOSED WALL EXTENSION
- LANDSCAPED AREAS TO REMAIN

**DEVELOPMENT DATA**

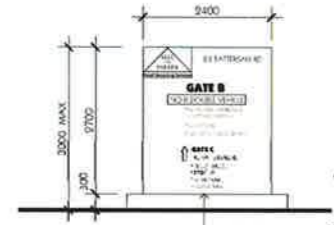
SITE AREA 39 478 M2 approx.			
	FLOOR AREAS		
BUILD	W/WORKS / EQUIPMENT STORE	OFFICE / AMEN	ASPH/ING
BUILD "A"	1878 M2	124 M2	
BUILD "B"	3162 M2	488 M2	
BUILD "C"	9981 M2		106 M2
BUILD "D"	415 M2		
BUILD "E"	984 M2		
BUILD "F"	494 M2		
BUILD "G"	81 M2		
BUILD "H"	25 M2		
BUILD "I"	17 M2		
BUILD "J"	47 M2		
BUILD "K"	593 M2		
<b>TOTAL</b>	<b>10 677 M2</b>	<b>688 M2</b>	<b>106 M2</b>



**PROPOSED SIGN 1.**  
NB INDICATIVE ONLY AND SUBJECT TO DETAILED DESIGN



**PROPOSED SIGN 3.**  
NB INDICATIVE ONLY AND SUBJECT TO DETAILED DESIGN



**PROPOSED SIGN 2.**  
NB INDICATIVE ONLY AND SUBJECT TO DETAILED DESIGN

REV	BY	DESCRIPTION	DATE
A	CZ	SECTION 96	01/09/18
B	CZ	AMENDMENT APPLICATION 4.55	03/10/18
C	CZ	MODIFICATION APPLICATION 4.55	01/01/19
D	CZ	MODIFICATION APPLICATION 4.55	09/01/19

**GENERAL NOTES**

- All dimensions and floor areas are to be verified by the builder prior to the commencement of any building work. Any discrepancies are to be brought to the attention of the engineer.
- Levels shown are approximate unless accompanied by reduced levels.
- Figure dimensions must be taken in preference to walls.
- All boundary alterations must be verified by the surveyor prior to the commencement of any building work.
- When engineering drawings are required, such must take preference to this drawing.
- Whenever it is to be changed by 'Detailed' requirements and AS 2002-1:1992.
- All services to be located and verified by the builder with relevant authorities before any building work commences.

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**ALGRORY ZAPPIA & ASSOCIATES PTY. LTD.**  
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Project: **PROPOSED ALTERATIONS TO EXISTING RECYCLING CENTRE**  
LOT 2 DP550592 & LOT 5 DP7086, No 23 & 45  
TATTERSALL RD, KINGS PARK

Client: **SELL & PARKER METAL**

Site Plan: **DA** 2182-17

Project No: **P4144**

Scale: **A101**

Date: **17/06/2018**

## APPENDIX G EPA LICENCE

# Environment Protection Licence



Licence - 11555

## Licence Details

Number:	11555
Anniversary Date:	19-April

## Licensee

SELL &amp; PARKER PTY LTD

PO BOX 755

MATRAVILLE NSW 2036

## Premises

SELL &amp; PARKER PTY LTD

23-43 AND 45 TATTERSALL ROAD

KINGS PARK NSW 2148

## Scheduled Activity

Metallurgical activities

## Fee Based Activity

## Scale

Scrap metal processing

> 100000-500000 T annual  
production capacity

## Region

Waste &amp; Resource Recovery

59-61 Goulburn Street

SYDNEY NSW 2000

Phone: (02) 9995 5000

Fax: (02) 9995 5999

PO Box A290 SYDNEY SOUTH

NSW 1232

# Environment Protection Licence

Licence - 11555



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# Environment Protection Licence

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Licence - 11555



## Information about this licence

### Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

### Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 ("the Act") and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act);
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

### Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

### Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

### Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

### Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).

# Environment Protection Licence

Licence - 11555



The EPA publication “A Guide to Licensing” contains information about how to calculate your licence fees. The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

## Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

## Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

## This licence is issued to:

<b>SELL &amp; PARKER PTY LTD</b>
<b>PO BOX 755</b>
<b>MATRAVILLE NSW 2036</b>

subject to the conditions which follow.

# Environment Protection Licence

Licence - 11555



## 1 Administrative Conditions

### A1 What the licence authorises and regulates

A1.1 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity	Fee Based Activity	Scale
Metallurgical activities	Scrap metal processing	> 100000 - 500000 T annual production capacity

### A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
SELL & PARKER PTY LTD
23-43 AND 45 TATTERSALL ROAD
KINGS PARK
NSW 2148
LOT 5 DP 7086, LOT 2 DP 550522

### A3 Information supplied to the EPA

A3.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to "the licence application" includes a reference to:

- a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and
- b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

## 2 Discharges to Air and Water and Applications to Land

### P1 Location of monitoring/discharge points and areas

# Environment Protection Licence

Licence - 11555



P1.1 The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point.

### Air

EPA identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
3	Air discharge and monitoring	Air discharge and monitoring	Hammermill Stack

P1.2 The following points referred to in the table below are identified in this licence for the purposes of weather and/or noise monitoring and/or setting limits for the emission of noise from the premises.

### Noise

EPA identification no.	Type of monitoring point	Location description
1	Noise monitoring	189 Sunnyholt Road, BLACKTOWN NSW 2148 (Lot 23, DP 1063300)
11	Air blast overpressure monitoring	23-43 & 45 Tattersall Road, KINGS PARK NSW 2148
12	Meteorological Station	23-43 & 45 Tattersall Road, KINGS PARK NSW 2148

## 3 Limit Conditions

### L1 Pollution of waters

L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.

### L2 Concentration limits

L2.1 For each monitoring/discharge point or utilisation area specified in the table below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.

L2.2 Air Concentration Limits

#### POINT 3

Pollutant	Units of measure	100 percentile concentration limit	Reference conditions	Oxygen correction	Averaging period
Type 1 and Type 2 substances in aggregate	milligrams per cubic metre	1	Dry 273K, 101.3kPa		1hr or the min. sampling period specified

# Environment Protection Licence



Licence - 11555

Solid Particles	milligrams per cubic metre	20	Dry, 273K, 101.3kPa	1hr or the min. sampling period specified
-----------------	----------------------------	----	---------------------	---

## L3 Waste

L3.1 The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.

Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.

Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below.

This condition does not limit any other conditions in this licence.

Code	Waste	Description	Activity	Other Limits
NA	Scrap metal	N/A	Metallurgical Activities	As outlined in L3.2, L3.3, L3.4 & L3.5 below

L3.2 A maximum of 90,000 tonnes of Scrap Metal is permitted to be received at the Premises per year on a weekly pro-rata basis until:

- The Hammermill Emission Collection System has been commissioned in accordance with Condition B20 of development consent No. SSD 5041 and approved by the Secretary of the NSW Department of Planning and Environment (or nominee) for operation; and
- A Final Occupation Certificate has been issued for the development approved by development consent No. SSD 5041.

L3.3 A maximum of 90,000 tonnes of Scrap Metal is permitted to be processed at the Premises per year on a weekly pro-rata basis until:

- The Hammermill Emission Collection System has been commissioned in accordance with Condition B20 of development consent No. SSD 5041 and approved by the Secretary of the NSW Department of Planning and Environment (or nominee) for operation; and
- A Final Occupation Certificate has been issued for the development approved by development consent No. SSD 5041.

L3.4 Once the Hammermill Emission Collection System has been commissioned and a Final Occupation Certificate issued in accordance with conditions L3.2 and L3.3, a maximum of 350,000 tonnes of scrap metal is permitted to be *received* at the Premises per year.

L3.5 Once the Hammermill Emission Collection System has been commissioned and a Final Occupation Certificate issued in accordance with conditions L3.2 and L3.3, a maximum of 350,000 tonnes of scrap metal is permitted to be *processed* at the Premises per year.

L3.6 The Licensee must record the amount of waste (in tonnes) received at the premises on a daily basis.

# Environment Protection Licence



Licence - 11555

## L4 Noise limits

L4.1 Noise generated at the premises that is measured at each noise monitoring point established under this licence must not exceed the noise levels specified in Column 4 of the table below for that point during the corresponding time periods specified in Column 1 when measured using the corresponding measurement parameters listed in Column 2.

### POINT 1

Time period	Measurement parameter	Measurement frequency	Noise level dB(A)
Day	LAeq (15 minute)	-	46
Evening	LAeq (15 minute)	-	46
Morning-Shoulder	LAeq (15 minute)	-	46
Morning-Shoulder	Lmax OR LA1,1min	-	58

L4.2 For the purpose of condition L4.1;

- Day is defined as the period from 7am to 6pm Monday to Saturday.
- Evening is defined as the period from 6pm to 10pm Monday to Saturday.
- Morning Shoulder is defined as the period 6am to 7am Monday to Saturday.

L4.3 The noise limits set out in condition L4.1 apply under all meteorological conditions except for the following:

- a) Wind speeds greater than 3 metres/second at 10 metres above ground level.
- b) Stability category F temperature inversion conditions and wind speeds greater than 2 metres/second at 10 metres above ground level; or
- c) Stability category G temperature inversion conditions.

L4.4 For the purposes of condition L4.3:

- a) Data recorded by a meteorological station installed on the premises must be used to determine meteorological conditions; and
- b) Temperature inversion conditions (stability category) are to be determined by the sigma-theta method referred to in Part E4 of Appendix E to the NSW Industrial Noise Policy.

L4.5 To determine compliance:

- a) With the LAeq(15 minute) noise limits in condition L4.1, the noise measurement equipment at monitoring point 1 must be located:
  - Approximately on the property boundary, where any dwelling is situated 30 metres or less from the property boundary closest to the premises; or
  - Within 30 metres of a dwelling façade, but not closer than 3m, where any dwelling on the property is situated more than 30 metres from the property boundary closest to the premises; or, where applicable within approximately 50 metres of the boundary of a National Park or a Nature Reserve.
- b) With the LA1,1min noise limits in condition L4.1, the noise measurement equipment at the monitoring

# Environment Protection Licence

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point 1 must be located within 1 metre of a dwelling façade.

c) With the noise limits in condition L4.1, the noise measurement equipment at the noise monitoring point/s specified in this licence must be located:

- At the most affected point at a location where there is no dwelling at the location; or
- At the most affected point within an area at a location prescribed by conditions L4.5(a) or L4.5(b).

L4.6 A non-compliance of condition L4.1 will still occur where noise generated from the premises in excess of the appropriate limit is measured:

- at a location other than an area prescribed by conditions L4.5(a) and L4.5(b); and/or
- at a point other than the most affected point at a location.

L4.7 For the purposes of determining the noise generated at the Premises the modification factors in Section 4 of the NSW Industrial Noise Policy must be applied, as appropriate, to the noise levels measured by the noise monitoring equipment.

Note: Noise is 'sound pressure levels' for the purposes of conditions L4.1 to L4.7.

Note: NSW Industrial Noise Policy is the document entitled "New South Wales Industrial Noise Policy published by the Environment Protection Authority in January 2000."

## L5 Hours of operation

L5.1 The hours of operation for oxy-acetylene torch cutting must be within the following hours:

Oxy-acetylene torch cutting	Hours of operation
Monday to Saturday	9:00am to 3:00pm
Sunday and Public Holidays	Nil

Note: The EPA will not permit any changes to hours of oxy-acetylene torch cutting unless the Secretary of the NSW Department of Planning and Environment (or nominee) agrees in writing to change the hours of operation specified in development consent No. SSD 5041.

L5.2 The hours of operation for all other activities must be within the following hours:

All other activities	Hours of operation
Monday to Saturday	6:00am - 9:00pm
Sunday and Public Holidays	Nil

L5.3 Condition L5.2 does not apply to the delivery of material outside the hours of operation permitted by condition L5.2, if that delivery is required by police or other authorities for safety reasons. In such circumstances, prior notification must be provided to the EPA and affected residents as soon as possible

# Environment Protection Licence

Licence - 11555



or within a reasonable period in the case of emergency.

## L6 Potentially offensive odour

L6.1 No condition of this licence identifies a potentially offensive odour for the purposes of section 129 of the Protection of the Environment Operations Act 1997.

Note: Section 129 of the Protection of the Environment Operations Act 1997, provides that the licensee must not cause or permit the emission of any offensive odour from the premises but provides a defence if the emission is identified in the relevant environment protection licence as a potentially offensive odour and the odour was emitted in accordance with the conditions of a licence directed at minimising odour.

## L7 Other limit conditions

### Airblast Overpressure

L7.1 The airblast overpressure level from explosions on the Premises must not exceed 120dB (Lin Peak) when measured at Monitoring Point 11.

L7.2 The licensee must measure airblast overpressure at the boundary of the premises whilst any activities are being carried out at the premises.

L7.3 The licensee shall undertake all reasonable and feasible measures necessary to prevent explosions from occurring at the premises.

L7.4 The licensee must prepare and implement an Air Blast Overpressure Management Plan. The Plan must include, but not be limited to, a description of all reasonable and feasible measures that will be implemented to achieve the noise limits in condition L7.1 such as:

- All petrol tanks and other dangerous chemical containers removed from scrap metal prior to shredding;
- Any potentially explosive devices including gas cylinders, not entering the shredder; and
- All potentially explosive devices, including gas cylinders must be disposed of in an environmentally satisfactory manner.

## 4 Operating Conditions

### O1 Activities must be carried out in a competent manner

O1.1 Licensed activities must be carried out in a competent manner.

This includes:

- a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and
- b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.



# Environment Protection Licence

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## O2 Maintenance of plant and equipment

- O2.1 All plant and equipment installed at the premises or used in connection with the licensed activity:
- must be maintained in a proper and efficient condition; and
  - must be operated in a proper and efficient manner.

## O3 Dust

- O3.1 All operations and activities occurring at the premises must be carried out in a manner that will minimise emission of dust from the premises.
- O3.2 The licensee must manage stockpiles of scrap metal and processed material to ensure air emissions are minimised.
- O3.3 All areas on the premises must be maintained, at all times, in a condition which effectively minimises the emission of wind-blown or traffic-generated dust.
- O3.4 The licensee must ensure that no material, including sediment or oil, is tracked onto public roads from the premises.
- O3.5 By 30 September 2016, ambient real time PM10 Dust Monitors must be installed and operated in accordance with the information supplied to the EPA in the report by ERM, Waste Metal Recovery, Processing and Recycling Facility 45 and 23-43 Tattersall Road, Kings Park, Blacktown, Air Quality Assessment, Sell & Parker Pty Ltd, September 2015.
- O3.6 The licensee must keep a legible record of when dust generating activities are reduced or ceased as a result of the dust monitoring required by Condition O3.4 including:
- the date and time that dust generating activities were reduced or ceased; and
  - what activities were reduced or ceased.
- These records must be made available to the EPA on request.

## O4 Emergency response

- O4.1 The licensee must develop, implement, maintain and test a Pollution Incident Response Management Plan (PIRMP) in accordance with the requirements under Part 5.7A of the *Protection of the Environment Operations Act 1997* and its regulations.

### Fire Control

- O4.2 There must be no burning or incineration of waste at the premises.
- O4.3 After the Final Occupation Certificate is issued for the development approved by development consent No. SSD 5041, the licensee must ensure that the height of any stockpile of shredder floc does not exceed 4 metres.

# Environment Protection Licence

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## O5 Processes and management

- O5.1 The licensee must ensure that any waste generated and/or stored at the Premises is assessed and classified in accordance with the EPA's Waste Classification Guidelines as in force from time to time.
- O5.2 The licensee must ensure that waste identified for recycling is stored separately from other waste.
- O5.3 The Licensee must store all chemicals, fuels and oils at the Premises in appropriately banded areas in accordance with the requirements of all relevant Australian Standards, and/or the EPA's *Storing and Handling Liquids: Environment Protection - Participant's Manual 2007*.

## O6 Other operating conditions

- O6.1 By 30 September 2016 the hammermill must be serviced by a emission collection system consisting of a wet scrubber and cyclone or other pollution control equipment capable of achieving equivalent emission control performance. The use of alternate control equipment must be approved in writing by the EPA prior to installation.
- O6.2 (a) Oxy-cutting must be undertaken under wet conditions.  
  
(b) Within 28 days of the commissioning of the 1400 tonne shear or by 31 January 2017, whichever date occurs first, oxy-cutting must be undertaken by only one oxy-cutter at a time.
- O6.3 Truck unloading of raw materials and output from pre-shredder onto stockpiles must be completed with a water spray suppression control.
- O6.4 After the Final Occupation Certificate is issued for the development approved by development consent No. SSD 5041, by-product stockpiles, including all automotive shredder residue (floc), must be stored in an enclosed structure.
- O6.5 After the Final Occupation Certificate is issued for the development approved by development consent No. SSD 5041, all conveyors and conveyor transfer points must be fully enclosed.
- O6.6 All enclosures required by conditions O6.4 and O6.5 must be designed and operated to minimise the release of fugitive emissions.

## 5 Monitoring and Recording Conditions

### M1 Monitoring records

- M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.
- M1.2 All records required to be kept by this licence must be:
  - a) in a legible form, or in a form that can readily be reduced to a legible form;
  - b) kept for at least 4 years after the monitoring or event to which they relate took place; and
  - c) produced in a legible form to any authorised officer of the EPA who asks to see them.

# Environment Protection Licence

Licence - 11555



M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:

- a) the date(s) on which the sample was taken;
- b) the time(s) at which the sample was collected;
- c) the point at which the sample was taken; and
- d) the name of the person who collected the sample.

## M2 Requirement to monitor concentration of pollutants discharged

### Air Monitoring Requirements

M2.1 For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:

M2.2 Air Monitoring Requirements

### POINT 3

Pollutant	Units of measure	Frequency	Sampling Method
Dry gas density	kilograms per cubic metre	Yearly	TM-23
Moisture	percent	Yearly	TM-22
Molecular weight of stack gases	grams per gram mole	Yearly	TM-23
Solid Particles	milligrams per cubic metre	Yearly	TM-15
Temperature	Celsius	Yearly	TM-2
Type 1 substance	milligrams per cubic metre	Yearly	TM-12
Type 2 substance	milligrams per cubic metre	Yearly	TM-13
Velocity	metres per second	Yearly	TM-2
Volumetric flowrate	cubic metres per second	Yearly	TM-2

M2.3 The monitoring required by condition M2.2 must commence post commissioning of the Hammermill Emission Collection System.

M2.4 The selection of sampling positions for the above air monitoring condition must be selected in accordance with sampling method TM1.

## M3 Testing methods - concentration limits

### Air Emissions

# Environment Protection Licence

Licence - 11555



- M3.1 Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with:
- any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or
  - if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or
  - if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.

Note: The *Protection of the Environment Operations (Clean Air) Regulation 2010* requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".

## M4 Weather monitoring

- M4.1 At the point(s) identified below, the licensee must monitor (by sampling and obtaining results by analysis) the parameters specified in Column 1 of the table below, using the corresponding sampling method, units of measure, averaging period and sampling frequency, specified opposite in the Columns 2, 3, 4 and 5 respectively.

### POINT 12

Parameter	Sampling method	Units of measure	Averaging period	Frequency
Siting	AM-1	-	-	-
Sigma theta	AM-2 & AM-4	Degrees	10 minutes	Continuous
Temperature at 2 metres	AM-4	Kelvin	10 minutes	Continuous
Temperature at 10 metres	AM-4	Kelvin	10 minutes	Continuous
Total Solar Radiation	AM-4	Watts per square metre	10 minutes	Continuous
Wind Direction at 10 metres	AM-2 & AM-4	Degrees	10 minutes	Continuous
Wind Speed at 10 metres	AM-2 & AM-4	metres per second	10 minutes	Continuous
Rainfall	AM-4	millimetres per hour	1 hour	Continuous

- M4.2 The meteorological weather station must be maintained so as to be capable of continuously monitoring the parameters specified in Condition M4.1.
- M4.3 Monitoring of all parameters listed in Column 1 of the table in condition M4.1 must commence by 30 September 2016.

# Environment Protection Licence



Licence - 11555

## **M5 Recording of pollution complaints**

- M5.1 The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.
- M5.2 The record must include details of the following:
- a) the date and time of the complaint;
  - b) the method by which the complaint was made;
  - c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
  - d) the nature of the complaint;
  - e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
  - f) if no action was taken by the licensee, the reasons why no action was taken.
- M5.3 The record of a complaint must be kept for at least 4 years after the complaint was made.
- M5.4 The record must be produced to any authorised officer of the EPA who asks to see them.

## **M6 Telephone complaints line**

- M6.1 The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.
- M6.2 The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.

## **M7 Other monitoring and recording conditions**

### **Airblast overpressure**

- M7.1 An airblast overpressure monitor must be operated continuously whilst any activities are being carried out at the premises to measure and electronically record airblast overpressure levels.
- M7.2 Instrumentation used to measure and record the airblast overpressure must meet the requirement of Australian Standard AS 2187.2-2006.
- M7.3 Explosions resulting in an airblast overpressure reading exceeding 120dB (Linear Peak) must be recorded and reported to the EPA's Environment Line within 24 hours of the explosion. The written record and report of the explosion must include:
- a) the time and date of the explosion; and
  - b) the airblast overpressure for the explosion.

# Environment Protection Licence

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## 6 Reporting Conditions

### R1 Annual return documents

- R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:
1. a Statement of Compliance,
  2. a Monitoring and Complaints Summary,
  3. a Statement of Compliance - Licence Conditions,
  4. a Statement of Compliance - Load based Fee,
  5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,
  6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and
  7. a Statement of Compliance - Environmental Management Systems and Practices.

At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.

- R1.2 An Annual Return must be prepared in respect of each reporting period, except as provided below.
- R1.3 Where this licence is transferred from the licensee to a new licensee:
- a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and
  - b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.
- R1.4 Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on:
- a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or
  - b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.
- R1.5 The Annual Return for the reporting period must be supplied to the EPA via eConnect *EPA* or by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').
- R1.6 The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.
- R1.7 Within the Annual Return, the Statements of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:
- a) the licence holder; or
  - b) by a person approved in writing by the EPA to sign on behalf of the licence holder.

Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.

Note: An application to transfer a licence must be made in the approved form for this purpose.

# Environment Protection Licence



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## **R2 Notification of environmental harm**

- R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.
- R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.

Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

## **R3 Written report**

- R3.1 Where an authorised officer of the EPA suspects on reasonable grounds that:
  - a) where this licence applies to premises, an event has occurred at the premises; or
  - b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence, and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.
- R3.2 The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.
- R3.3 The request may require a report which includes any or all of the following information:
  - a) the cause, time and duration of the event;
  - b) the type, volume and concentration of every pollutant discharged as a result of the event;
  - c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event;
  - d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort;
  - e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants;
  - f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and
  - g) any other relevant matters.
- R3.4 The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.

## **R4 Other reporting conditions**

- R4.1 The licensee must complete and submit to the EPA an Annual Waste Summary Report each financial year commencing in 2016/17, comprising the following information:

# Environment Protection Licence

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1. Amount of waste received and removed from the Premises (in tonnes);
2. Waste stream (Municipal, Commercial and Industrial, Construction and Demolition or Other) and waste type (Refer to Table 3.1 of the NSW EPA's Waste Levy Guidelines); and
3. Amount of waste processed to a Resource Recovery Order ("RRO"), if applicable.

R4.2 The Annual Waste Summary Report must be submitted to the EPA via the Waste and Resource Reporting Portal (WARRP) within 60 days of the end of the financial year.

## 7 General Conditions

### G1 Copy of licence kept at the premises or plant

- G1.1 A copy of this licence must be kept at the premises to which the licence applies.
- G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.
- G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

## 8 Special Conditions

### E1 Air Emissions Commissioning Reports

#### Hammermill Emissions Collection System post commissioning assessment and report

- E1.1 By 30 September 2016, the licensee must commission the emissions collection system (ECS) for the hammermill.
- E1.2 The licensee must verify the air emissions predicted by the ERM Air Quality Assessment report dated September 2015 (the September 2015 ERM Report) from the hammermill. This verification must include:
- a) Post commissioning sampling of all pollutants from the hammermill assessed in the September 2015 ERM Report. Sampling must be undertaken by suitably qualified personnel.
  - b) Estimate of operating capacity and process rate of the activity at the time of sampling and an explanation of how the estimate was arrived at.
  - c) Sampling of emissions from the hammermill must be undertaken in accordance with the requirements specified in the Approved Methods for Sampling and Analysis of Air Pollutants in NSW or, where no suitable method is prescribed in the Approved Methods for Sampling and Analysis of Air Pollutants in NSW, a method approved in writing by the EPA.



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d) Results from post commissioning sampling must be compared with the modelled emissions in the September 2015 ERM Report and demonstrate compliance with the ground level criteria in the Approved Methods for the Modelling and Assessment of Air Pollutants in NSW and ground level criteria adopted in the September 2015 ERM Report.

e) Identify and implement any changes to the hammermill ECS necessary to achieve environmental air quality performance commensurate with that set out in the September 2015 ERM Report.

E1.3 By no later than 6 months from the date of the issuing of the Final Occupation Certificate, the licensee must submit to the EPA a Commissioning Report for the verification of air emissions from the hammermill. The Commissioning Report must comprehensively address all requirements listed in Condition E1.1 and E1.2.

## **Oxy-Cutting post commissioning assessment and report**

E1.4 By no later than 6 months from the date of the issuing of the Final Occupation Certificate, the licensee must verify the air emissions predicted by the September 2015 ERM Report from the oxy-cutting activities.

E1.5 The verification required by condition E1.4 must include:

a) Post commissioning sampling of all pollutants from the oxy-cutting activities assessed in the September 2015 ERM Report. Sampling must be undertaken by suitably qualified personnel.

b) Record of the oxy-cutting activities being undertaken at the time of sampling.

c) The sampling method used for emissions from oxy-cutting must be clearly described and justified, and the analytical method referenced.

d) Results from sampling must be compared with the modelled emissions in the September 2015 ERM Report and demonstrate compliance with the ground level criteria in the Approved Methods for the Modelling and Assessment of Air Pollutants in NSW.

e) Identify and implement any changes to the oxy-cutting activities necessary to achieve environmental air quality performance commensurate with that set out in the September 2015 ERM Report.

E1.6 By no later than 6 months from the date of the issuing of the Final Occupation Certificate, the licensee must submit a Commissioning Report to the EPA that comprehensively addresses all requirements listed in Condition E1.4 and E1.5.

## **E2 Post Commissioning Noise Validation Report**

E2.1 After the Final Occupation Certificate is issued for the development approved by development consent No. SSD 5041, the licensee must engage a suitably qualified and experienced expert to prepare a post commissioning noise validation report in accordance with Condition L4.5. The report must include an attended noise monitoring assessment carried out for three consecutive operating days, at monitoring point 1 listed in Condition L4.1. The assessment must be carried out during each day, evening and morning shoulder period as defined in Condition L4.2 for a minimum of:

# Environment Protection Licence

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- 1.5 hours during the day;
- 30 minutes during the evening; and
- 1 hour during the morning shoulder.

E2.2 The post commissioning noise validation report must be prepared by a suitably qualified and experienced acoustical consultant and include:

- a) an assessment of compliance with noise limits presented in Condition L4.1; and
- b) an outline of any management actions taken within the monitoring period to address any exceedences of the limits contained in Condition L4.1.

E2.3 The post commissioning noise validation report must be submitted to the EPA within 3 months of the Final Occupation Certificate being issued for the development approved by development consent No. SSD 5041.

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## Dictionary

### General Dictionary

<b>3DGM [in relation to a concentration limit]</b>	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
<b>Act</b>	Means the Protection of the Environment Operations Act 1997
<b>activity</b>	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
<b>actual load</b>	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
<b>AM</b>	Together with a number, means an ambient air monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
<b>AMG</b>	Australian Map Grid
<b>anniversary date</b>	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
<b>annual return</b>	Is defined in R1.1
<b>Approved Methods Publication</b>	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
<b>assessable pollutants</b>	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
<b>BOD</b>	Means biochemical oxygen demand
<b>CEM</b>	Together with a number, means a continuous emission monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
<b>COD</b>	Means chemical oxygen demand
<b>composite sample</b>	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
<b>cond.</b>	Means conductivity
<b>environment</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>environment protection legislation</b>	Has the same meaning as in the Protection of the Environment Administration Act 1991
<b>EPA</b>	Means Environment Protection Authority of New South Wales.
<b>fee-based activity classification</b>	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
<b>general solid waste (non-putrescible)</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

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<b>flow weighted composite sample</b>	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
<b>general solid waste (putrescible)</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>grab sample</b>	Means a single sample taken at a point at a single time
<b>hazardous waste</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>licensee</b>	Means the licence holder described at the front of this licence
<b>load calculation protocol</b>	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
<b>local authority</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>material harm</b>	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
<b>MBAS</b>	Means methylene blue active substances
<b>Minister</b>	Means the Minister administering the Protection of the Environment Operations Act 1997
<b>mobile plant</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>motor vehicle</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>O&amp;G</b>	Means oil and grease
<b>percentile [in relation to a concentration limit of a sample]</b>	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
<b>plant</b>	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
<b>pollution of waters [or water pollution]</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>premises</b>	Means the premises described in condition A2.1
<b>public authority</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>regional office</b>	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
<b>reporting period</b>	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
<b>restricted solid waste</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>scheduled activity</b>	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
<b>special waste</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>TM</b>	Together with a number, means a test method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .

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<b>TSP</b>	Means total suspended particles
<b>TSS</b>	Means total suspended solids
<b>Type 1 substance</b>	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
<b>Type 2 substance</b>	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
<b>utilisation area</b>	Means any area shown as a utilisation area on a map submitted with the application for this licence
<b>waste</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>waste type</b>	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non - putrescible), special waste or hazardous waste

Ms Juanita Croft

Environment Protection Authority

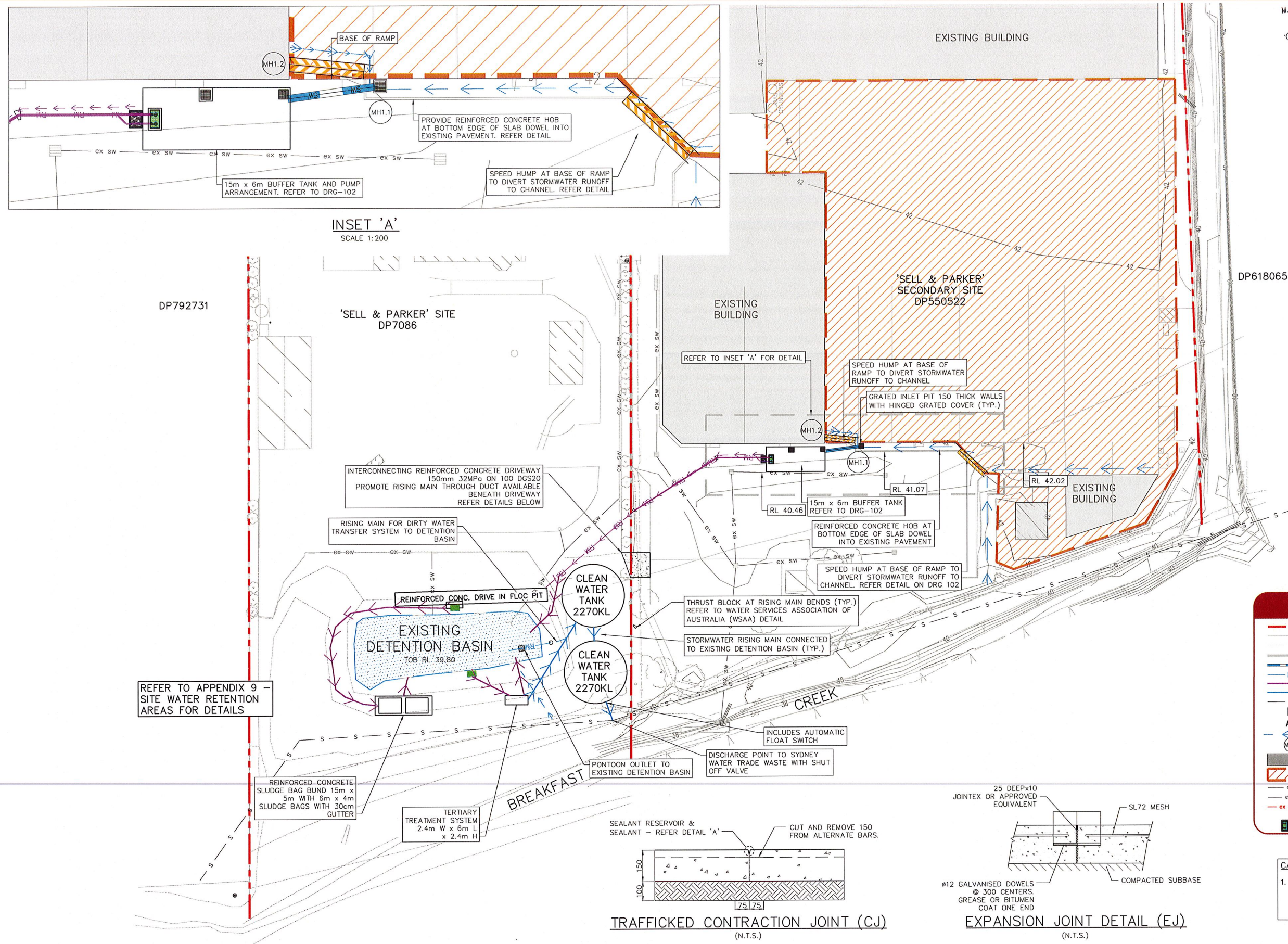
(By Delegation)

Date of this edition: 16-April-2002

## End Notes

- 1 Licence varied by Admin corrections to archived record, issued on 10-Dec-2002, which came into effect on 10-Dec-2002.
- 2 Licence varied by notice 1080373, issued on 22-Nov-2007, which came into effect on 22-Nov-2007.
- 3 Licence varied by notice 1110271, issued on 18-Feb-2010, which came into effect on 18-Feb-2010.
- 4 Licence varied by notice 1113375, issued on 21-Apr-2010, which came into effect on 21-Apr-2010.
- 5 Licence varied by notice 1117853, issued on 10-Feb-2011, which came into effect on 10-Feb-2011.
- 6 Licence varied by notice 1536305 issued on 19-Apr-2016
- 7 Licence varied by notice 1547799 issued on 10-Jan-2017

**APPENDIX H SITE DRAINAGE PLAN**



**GENERAL NOTES:-**

- SETOUT INFORMATION IS TO BE VERIFIED BY THE CONTRACTOR AGAINST THE PLAN VIEW, LONGITUDINAL SECTIONS AND ELECTRONIC 12D DATA BEFORE BEING USED. IF THERE IS A DISCREPANCY THE SUPERINTENDENT IS TO BE NOTIFIED AND DIRECTION WITH BE PROVIDED IN WRITING BEFORE PROCEEDING.

**CONSTRUCTION JOINTING NOTES:-**

- CJ CONSTRUCTION JOINT EVERY 3m.
- EJ EXPANSION JOINT EVERY 9m.

JOINT TO BE MADE AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY THAT IT WILL NOT BE DAMAGED BY SAWING (MAX. 24HRS).

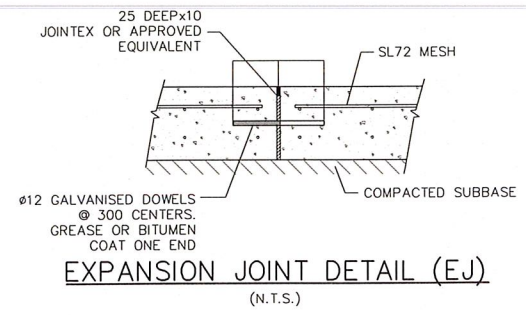
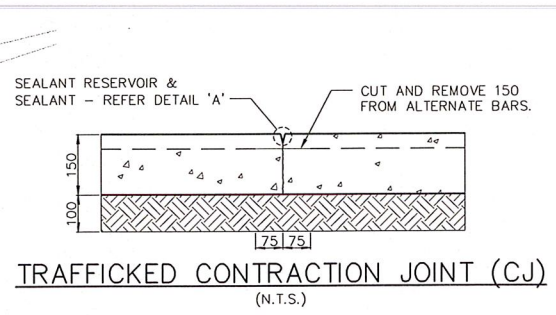
**LEGEND**

- SITE BOUNDARY
- MAJOR CONTOURS
- MINOR CONTOURS
- CATCHMENT BOUNDARY
- PROPOSED STORMWATER
- RM --- PROPOSED STORMWATER RISING MAIN
- PROPOSED PIPEWORK - DIRTY WATER
- PROPOSED PIPEWORK - TREATED WATER
- S --- SEWER LINE
- PROPOSED SW PIT
- PROPOSED HEADWALL
- FLOW PATH
- MH1 --- PIT LABEL
- EXISTING BUILDING
- CATCHMENT AREA
- ex s --- EXISTING SEWER
- ex sw --- EXISTING STORMWATER
- ex sw --- EXISTING STORMWATER TO BE REMOVED
- PROPOSED PUMPS

CONTOUR INTERVAL = 0.5m

**CAUTIONARY NOTES :**

- IT IS THE RESPONSIBILITY OF THE CIVIL WORKS CONTRACTOR TO DETERMINE THE LOCATION & LEVEL OF EXISTING SERVICES USING NON DESTRUCTIVE METHODS PRIOR TO COMMENCING WORKS ON SITE.



REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT  <b>SELL &amp; PARKER</b>	PROPERTY DESCRIPTION		PROJECT			
LOT 2 D.P.550522 LOT 5 D.P.7086 & LOT 100 D.P.792731		EXISTING RECYCLING CENTRE														
PLAN TITLE DETAIL PLAN 23 TATTERSALL ROAD																
SURVEYED		DATUM		PROJECT No.		DISCIPLINE		NUMBER		REV.						
ADW Johnson		A.H.D.		190337		ENG		101		J						

# **APPENDIX I WATER REUSE RISK ASSESSMENTS**



22 March, 2016

Catherine Maddox  
Sell & Parker  
11 Meadow Way  
BANKSMEADOW, NSW 2019  
AUSTRALIA

Our Reference: 0313442\_Water Reuse RA.DOCX

Dear Catherine,

RE: **45 TATTERSALL ROAD, KINGS PARK - WATER REUSE RISK  
ASSESSMENT**



This letter report aims to provide clarification regarding the risks associated with water reuse as required by Condition B6(f) of the development approval (DA) dated 12<sup>th</sup> Nov 2015. The condition states that the site must operate a Water Management System including *"water reuse based on a risk assessment of environment and human health impacts"*.

ERM has adopted risk assessment methodology consistent with current best practice guidance for assessment of health and environmental risks from chemical exposure<sup>1</sup>. This includes 4 key stages as follows:

1. Issues identification – the key issue is whether water reuse on site presents a risk to human or ecological health
2. Hazard assessment – this is achieved by comparison of the chemical analytical results for the water to be reused to published guideline values that are relevant to the exposure scenarios identified (Table 1).
3. Exposure assessment – this is achieved by identification of source – pathway – receptor linkages that exist or may exist when the proposed water reuse occurs
4. Risk characterisation – this is achieved using a qualitative assessment based on Sell & Parker's severity-probability matrix.

---

<sup>1</sup> NEPC (2013) National Environmental Protection (Assessment of Site Contamination) Measure 1999, Schedule B4 Site Specific Risk Assessment;

enHealth (2012) Environmental Health Risk Assessment

The proposed water reuse on site is:

- Water from the site stormwater retention basin will be used in the hammermill which requires damping to prevent explosion. Steam is generated, and this will be extracted via the emissions control system (wet scrubber and cyclone) to a stack in the centre of the site. The emissions were modelled in ERM (2015) Air Quality Assessment report and emissions were found to be compliant with the applicable air quality criteria. Atmospheric emissions from this source are therefore not considered as a relevant exposure pathway. Opportunities for site staff to be directly exposed to the retention basin water by this route are considered extremely limited since no people are present inside the hammermill. There is a small amount of run-off of water from this reuse, which Sell & Parker estimates at approximately 5% of the water used. The run-off drains to the site stormwater drainage system back to the retention basin.
- Water from the site stormwater retention basin may be used for damping down to control dust on operational areas. Incidental contact exposure is a potentially complete pathway for site staff. Run off would be directed back to the retention basin via the site stormwater drainage system.
- Water from rainwater collection tanks may be used in the site wheel wash, for dust control, washing down and general outdoor non-potable requirements on site. Incidental direct contact exposure is possible for site staff. Run off would be directed to the retention basin via the stormwater drainage system.
- There is no grey water proposed for reuse on site.
- There is no complete exposure pathway to environmental receptors because there is no discharge of reused water from the site except via the retention basin treatment system. Environmental risk associated with stormwater discharge is not part of the scope of this risk assessment.

The identified potentially complete source-pathway-receptor linkage is therefore only incidental direct contact exposure for site workers related to uses of retention basin water and collected rainwater. Rainwater may be collected in tanks direct from the roofs. No chemical analysis is available, however it is reasonable to assume that it does not contain substances hazardous to health, or potentially harmful pathogens. Therefore, only risks from exposure to retention basin water are considered.

Chemical results from the retention basin samples are presented in Table 1. Analytes that were present at concentrations below the laboratory limit of reporting were considered to pose negligible risk and were not carried forward in this assessment.

For analytes that were detected, screening levels protective of dermal exposure and incidental ingestion were derived by multiplying drinking water guidelines by a factor of 20 (NEPC, 1999)<sup>2</sup>. This approach is commonly used for assessment of direct contact exposure where drinking is not likely, and it is highly conservative (in comparison to the likely possible exposure on site, these screening levels assume much higher exposures than would actually be possible). Drinking water guidelines were taken from the following sources:

- National Health and Medical Research Council (NHMRC) (2011) Australian Drinking Water Guidelines;
- World Health Organization (WHO) (2005) Petroleum Products in Drinking Water (note: where both an aromatic and an aliphatic screening level was available, the lower of the two was used);
- United States Environmental Protection Agency (USEPA) RSLs for Tap Water;
- USEPA (2009) Provisional Health Advisories for Perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulfonate (PFOS)

Perfluorooctane sulphonate (PFOS) was the only analyte that exceeded the applicable screening level in the retention basin water, with two of the measured values greater than the screening level of 4 µg/L. This relates to the current operation; following the site redevelopment and clean out of the retention basin PFOS concentrations are likely to drop.

PFOS is an “emerging contaminant” and research into its health effects is ongoing. There is acknowledged significant uncertainty in the toxicological literature on its effects on people at environmental levels. Adopting the precautionary principle, USEPA considers PFOS likely to be carcinogenic to humans, since animal studies have demonstrated hepatic and endocrine effects, as well as reproductive and developmental toxicity (USEPA, 2014)<sup>3</sup>.

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<sup>2</sup> National Environment Protection Council (NEPC) (1999) National Environment Protection (Assessment of Site Contamination) Measure.

<sup>3</sup> USEPA, 2014. Emerging Contaminants - Perfluorooctane Sulfonate (PFOS) and Perfluorooctanoic Acid. March 2014.

The main exposure pathways for PFOS are consumption of contaminated food, in particular fish, and drinking water (USEPA, 2014). For on-site workers and off-site residents, dermal contact with water from the retention basin is more likely to occur than ingestion.

ERM completed a risk assessment using the severity - probability matrix method resulting in qualitative assessment of risks as high, medium or low.

Exposure to retention basin water with PFOS concentrations exceeding the screening level is possible, but likely to be at very low frequency. The consequence of any on-site PFOS exposure to workers will be insignificant relative to their off-site PFOS exposure via diet or drinking water. This yields a Risk Ranking of Low with a score of 22 for on-site workers.

Given the distance between the site and the nearest homes, it is considered rare that residents would be exposed to PFOS from the site and that the consequences of exposure to trace amounts of PFOS carried on fine water droplets would be insignificant, yielding a Risk Ranking of 25.

In conclusion, the risks associated with the proposed water reuse are low and acceptable.

Yours sincerely,  
for Environmental Resources Management Australia Pty Ltd



Sophie Wood  
Partner

Attachment A

# DATA SCREENING





Attachment B

# RISK MATRIX



# Severity-Probability Matrix

## Step 1 – Consider the consequences of exposure to the hazard

Table 1 – Consequence Descriptors

Severity Level	Injury / Illness	Environment	Commercial/ Brand Exposure	Financial Loss (\$AUS)	Plant / Equipment Damage
1 Insignificant	<b>First Aid Injury (FAI):</b> Any injuries requiring first aid treatment onsite only. <i>E.g. Superficial burn; lacerations; abrasions</i>	<ul style="list-style-type: none"> <li>No environmental damage</li> <li>Environmental hazard identified</li> <li>On site release of pollutant (less than 20 litres/kg)</li> </ul>	<ul style="list-style-type: none"> <li>Public concern restricted to local complaints.</li> <li>Disruption to contract</li> </ul>	<ul style="list-style-type: none"> <li>\$0 – \$1,000</li> </ul>	<ul style="list-style-type: none"> <li>No Machine Downtime</li> </ul>
2 Minor	<b>Medical Treatment Injury (MTI):</b> E.g. Any injury requiring further treatment from a Medical Practitioner or any administration of a drug requiring the approval of a Medical Practitioner	<ul style="list-style-type: none"> <li>Onsite release of pollutant (less than 200 litres / kg) that is immediately contained without causing land or waterways contamination AND does not migrate offsite to land or waterways.</li> </ul>	<ul style="list-style-type: none"> <li>Reputation loss (local media attention)</li> <li>Disruption to contract</li> </ul>	<ul style="list-style-type: none"> <li>\$ 1,000 - \$5,000</li> </ul>	<ul style="list-style-type: none"> <li>1 day Machine Downtime</li> </ul>
3 Moderate	<b>Minor Lost Time Injury (LTI):</b> Work injury that results in the worker being impaired and unable to return to the workplace for < 2 weeks <b>Restricted Work Injury (RWI):</b> Any work injury that results in the worker being deemed unfit to return to full duties by a medical practitioner.	<ul style="list-style-type: none"> <li>Onsite release of pollutant (less than 200 litres/kg) that is mostly contained but causes moderate contamination (refer to financial loss) OR offsite release of pollutant (less than 200 litres/kg) to land or waterways.</li> </ul>	<ul style="list-style-type: none"> <li>Reputation loss (State/National media attention)</li> <li>Disruption to contract</li> </ul>	<ul style="list-style-type: none"> <li>\$5,000 - \$20,000</li> </ul>	<ul style="list-style-type: none"> <li>2-5 days Machine Downtime</li> </ul>
4 Major	<b>Serious LTI:</b> Work injury that results in the worker being impaired and unable to return to work > 2 weeks; Permanent disability < 30% E.g. Total loss of a digit.	<ul style="list-style-type: none"> <li>Onsite release of pollutant (200 to 2,000 litres/kg) that causes major contamination (refer to financial loss) OR offsite release of pollutant (200 to 2,000 litres/kg) to land or waterways.</li> </ul>	<ul style="list-style-type: none"> <li>Reputation loss (National media attention)</li> <li>Disruption to contract</li> </ul>	<ul style="list-style-type: none"> <li>\$20,000- \$100,000</li> </ul>	<ul style="list-style-type: none"> <li>5-20 days Machine Downtime</li> </ul>
5 Catastrophic	<b>One or more Fatalities</b> <b>Permanent Disability &gt; 30%</b> E.g. Loss of limb	<ul style="list-style-type: none"> <li>Onsite release of pollutant (more than 2,000 litres/kg) that causes catastrophic land or waterways contamination (refer to financial loss) OR offsite release of pollutant (more than 2,000 litres/kg) to land or waterways.</li> </ul>	<ul style="list-style-type: none"> <li>Reputation loss, (International media attention)</li> <li>Serious public or media outcry.</li> <li>Disruption to contract</li> </ul>	<ul style="list-style-type: none"> <li>more than \$100,000</li> </ul>	<ul style="list-style-type: none"> <li>Machine Unrepairable</li> </ul>



# Severity-Probability Matrix

## Step 2 – Consider the likelihood of the exposure to the hazard occurring

Table 2 – Likelihood Descriptor

Descriptor	Description	Frequency
Almost Certain	The event is expected to occur in most circumstances	Once every week
Likely	The event will probably occur in most circumstances	Once every month
Possible	The event should occur at some time	Once every year
Unlikely	The event could occur at some time	Once every 10 years
Rare	The event may occur in exceptional circumstances	Once every 100 years

## Step 3: Using the Two Tier Risk Matrix table below, determine the Risk Rating from the consequence and likelihood descriptors.

To use the Two Tier Risk Matrix:

- Identify the consequence descriptor that best describes the consequences of the exposure to the hazard.
- Identify the likelihood descriptor that best describes the likelihood of exposure to the hazard resulting in the consequence determined in Step 1.
- The Risk Rating is provided in the box where the Likelihood row and Consequence column meet.

Table 3 - Risk Matrix

Consequences (c)	Likelihood (L)				
	Almost Certain	Likely	Possible	Unlikely	Rare
Catastrophic	Extreme 1	Extreme 2	Extreme 4	High 7	Medium 11
Major	Extreme 3	Extreme 5	High 8	Medium 12	Medium 16
Moderate	High 6	High 9	Medium 13	Medium 17	Low 20
Minor	High 10	Medium 14	Medium 18	Low 21	Low 23
Insignificant	Medium 15	Medium 19	Low 22	Low 24	Low 25

## **APPENDIX J FINISHED FLOOR LEVELS FOR NEW BUILDINGS**

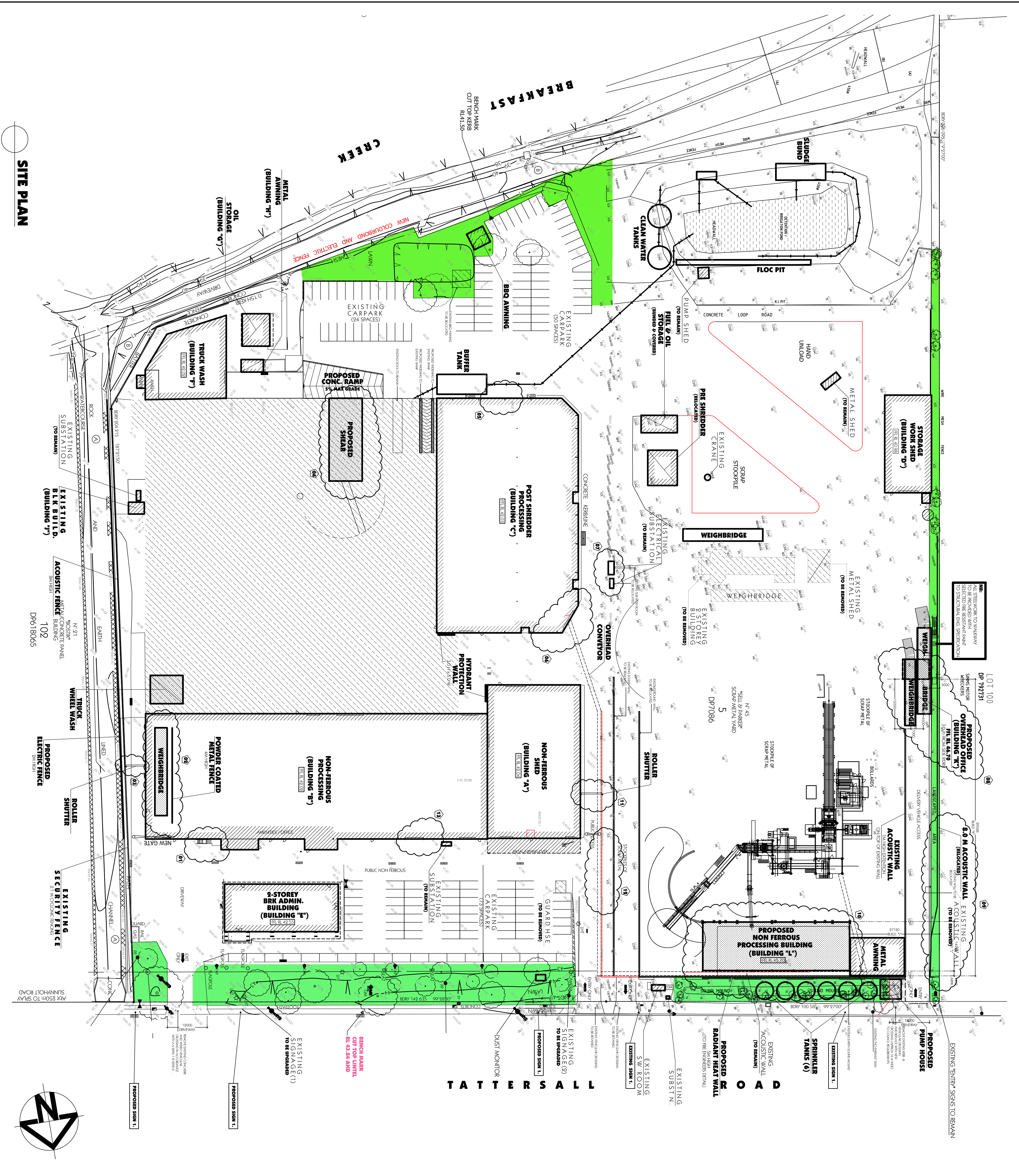
DEVELOPMENT DATA	
<b>SITE AREA</b>	59 475 M <sup>2</sup> approx.
<b>FLOOR AREAS</b>	
<b>BUILD 'A'</b>	1278 M <sup>2</sup>
<b>BUILD 'B'</b>	3162 M <sup>2</sup>
<b>BUILD 'C'</b>	2991 M <sup>2</sup>
<b>BUILD 'D'</b>	415 M <sup>2</sup>
<b>BUILD 'E'</b>	424 M <sup>2</sup>
<b>BUILD 'F'</b>	81 M <sup>2</sup>
<b>BUILD 'G'</b>	25 M <sup>2</sup>
<b>BUILD 'H'</b>	17 M <sup>2</sup>
<b>BUILD 'I'</b>	47 M <sup>2</sup>
<b>BUILD 'J'</b>	593 M <sup>2</sup>
<b>TOTAL</b>	<b>10 077 M<sup>2</sup></b>
<b>CARPARKING</b>	TOTAL GR. AREA = 10077
	REQUIRED = 75
	TOTAL OFFICE AREA = 468
	40
	11
<b>TOTAL</b>	<b>145</b>
<b>PROVIDED</b>	<b>= 147</b>

NB  
1:100 YEAR AIR FLOOD LEVEL  
RL 42.10

LEGEND	
[Pattern]	EXISTING STRUCTURE TO REMAIN
[Pattern]	EXISTING STRUCTURE TO BE REWORKED
[Pattern]	PROPOSED NEW STRUCTURE
[Pattern]	DO NOTS STRUCTURE TO BE REWORKED TO BE REWORKED
[Pattern]	EXISTING AREA OF RESTRICTION OR DIVIDE USE



PROPOSED SIGN 1.



SITE PLAN

Issue	Date	Description
A	14/04/16	1) All dimensions and floor levels to be verified by the builder prior to the commencement of any building work.
B	27/04/16	2) Level down and reposition unless accompanied by revised levels.
C	23/05/16	3) Typical dimensions must be taken in preference to scaling.
D	06/06/16	4) All boundary dimensions must be taken in preference to scaling.
E	16/07/17	5) All dimensions to be verified by the builder who relevant authorities before any building work commences.
F	16/07/17	6) All dimensions to be verified by the builder who relevant authorities before any building work commences.
G	23/07/17	7) All dimensions to be verified by the builder who relevant authorities before any building work commences.
H	23/07/17	7) All dimensions to be verified by the builder who relevant authorities before any building work commences.
I	11/07/17	7) All dimensions to be verified by the builder who relevant authorities before any building work commences.
J	11/07/17	7) All dimensions to be verified by the builder who relevant authorities before any building work commences.

**GENERAL NOTES**

1) All dimensions and floor levels to be verified by the builder prior to the commencement of any building work.

2) Level down and reposition unless accompanied by revised levels.

3) Typical dimensions must be taken in preference to scaling.

4) All boundary dimensions must be taken in preference to scaling.

5) All dimensions to be verified by the builder who relevant authorities before any building work commences.

6) All dimensions to be verified by the builder who relevant authorities before any building work commences.

7) All dimensions to be verified by the builder who relevant authorities before any building work commences.

8) All dimensions to be verified by the builder who relevant authorities before any building work commences.

9) All dimensions to be verified by the builder who relevant authorities before any building work commences.

10) All dimensions to be verified by the builder who relevant authorities before any building work commences.

11) All dimensions to be verified by the builder who relevant authorities before any building work commences.

12) All dimensions to be verified by the builder who relevant authorities before any building work commences.

13) All dimensions to be verified by the builder who relevant authorities before any building work commences.

14) All dimensions to be verified by the builder who relevant authorities before any building work commences.

15) All dimensions to be verified by the builder who relevant authorities before any building work commences.

**ALGORRY ZAPPA & ASSOCIATES PTY. LTD.**  
Consulting Civil & Structural Engineers & Building Designers  
Level 4, Level 1, 84 Balfour Street, Liverpool, NSW 2170  
P.O. Box 525, Liverpool Business Centre, NSW 2171  
Tel: 02 9529 7700  
Email: admin@algorryzappa.com.au  
Web: www.algorryzappa.com.au

Project: PROPOSED ALTERATIONS TO EXISTING RECYCLING CENTRE  
LOT 9 DP5505292 & LOT 5 DP7086, No 23 & 45  
TATTERSALL RD, KINGS PARK

Client: SELL & PARKER METAL

Project No: PA144

Title: WORKING DRAWINGS

Author: CC

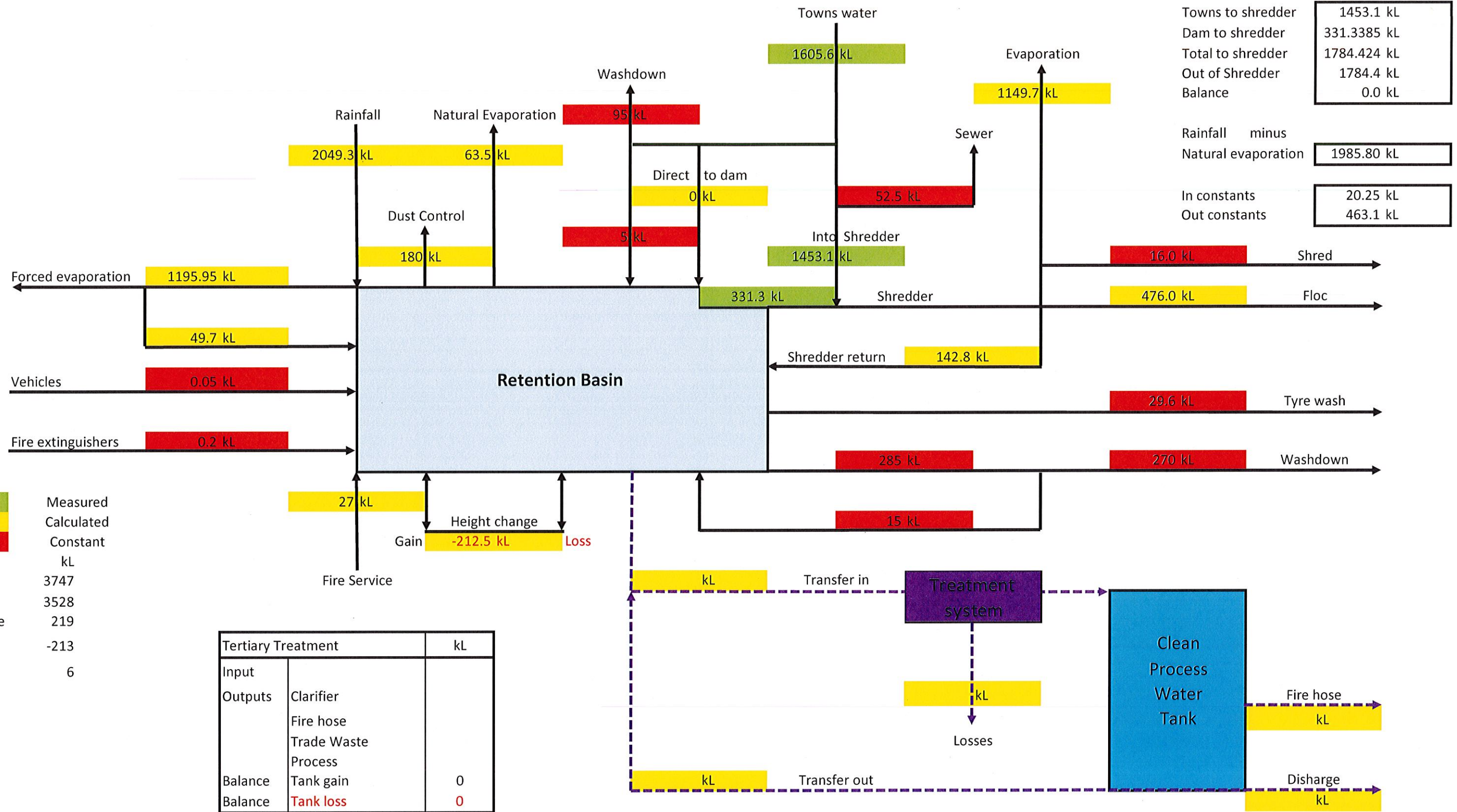
Date: 10/4/16

Sheet No: A101

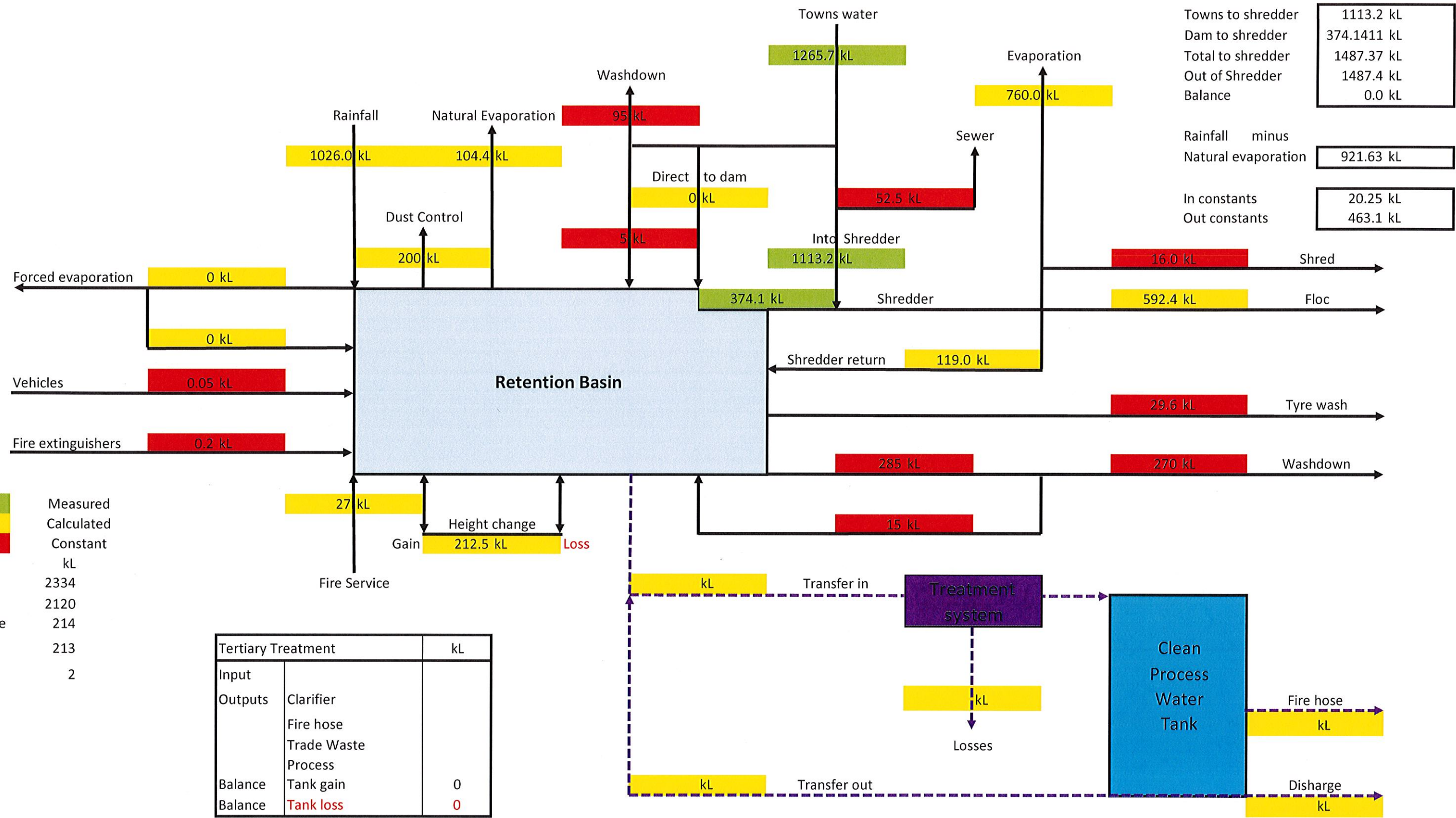
Page: 1 of 1

## **APPENDIX K OPERATIONAL USE WATER BALANCE**

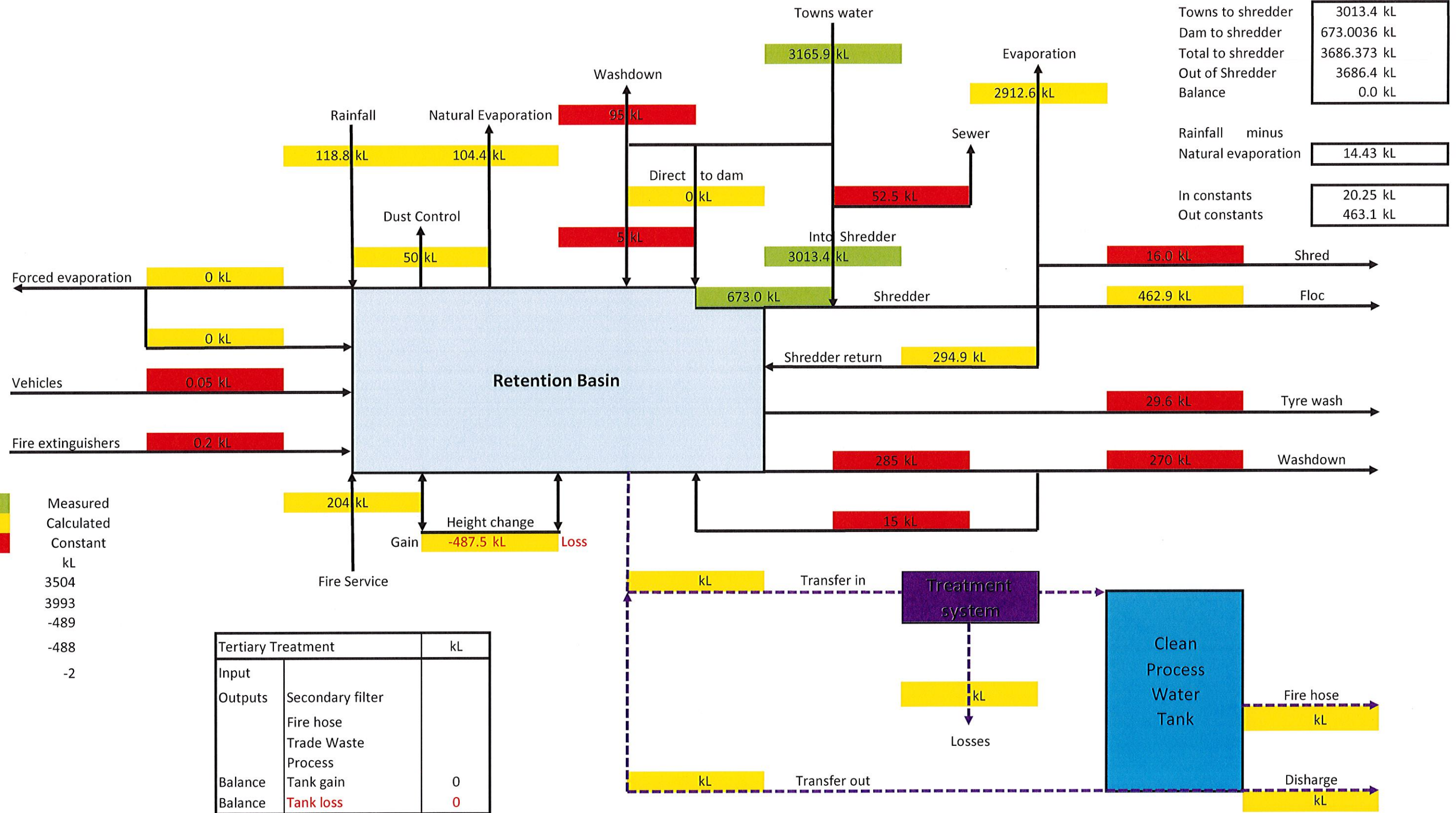
### Operational Water Balance



### Operational Water Balance



### Operational Water Balance





Month of	Date 1st July Time 8010				Date 1st August Time				Date 1st Sept Time 8:50am				Date Date Date		
	June 2016				July 2016				August 2016				September 2016		
	Previous	Current	Volume kL	Total	Previous	Current	Volume kL	Total	Previous	Current	Volume kL	Total	Previous	Current	Volume kL
Towns meter	0	7505.723	7505.723	37432.481	7505.723	7681.515	175.792	1405.581	7681.515	7873.056	191.541	1605.585	7873.056	8063.43	190.374
Dexion East															
Dexion West	0	29926.758	29926.758		29926.758	2.341	1229.789		2.341	1416.385	1414.044		1416.385	2491.74	1075.355
Forced evaporation	9079	9625	546	2293.2	9625	9995	370	1320.9	9995	10330	335	1195.95	0	0	0
Dam water - Shredder run	0	367710	367.71	377.452	367710	501362	133.652	133.8614	501362	832692	331.33	331.3385	832692	1206810	374.118
Total	0	367710			367710	501362	133.652		501362	832692	331.33		832692	1206810	374.118
Dam water - C1 East run	0	137			137	3104	2.967		3104	3286	0.182		3286	3517	0.231
Total	0	1107			1107	3201	0.2094		3201	3286	0.0085		3286	3517	0.0231
Rainfall S&P	Total	Days	deduction	Volume kL	Total	Days	deduction	Volume kL	Total	Days	deduction	Volume kL	Total	Days	deduction
Rainfall * Dexion	299.7	7	211.3	5705.1	72.3	14	14	1574.1	83.9	8	8	2049.3	50	6	12
			0	0			0	0			0	0			0
				5705.1				1574.1				2049.3			
Natural Evaporation	Total	Volume kL			Total	Volume kL			Total	Volume kL			Total	Volume kL	
	110.5	138.125			43.8	54.75			50.8	63.5			83.5	104.375	
Dam height #	Previous	Current	Change	Volume kL	Previous	Current	Change	Volume kL	Previous	Current	Change	Volume kL	Previous	Current	Change
	0	900	-900	-1125	900	850	50	62.5	850	1020	-170	-212.5	1020	850	170
Floc	Tonnes	Volume kL			Tonnes	Volume kL			Tonnes	Volume kL			Tonnes	Volume kL	
	5065.8	506.58			5016.3	501.63			4759.5	475.95			5923.9	592.39	

Rainfall calculation

\* Only when new shear is operational  
 # Will be + for an increase and - for a decrease

BOM data - prospect reservoir

BT-ENV-SPR-DWB-16A

141201 = New meter installed

1024910 = Old meter final

1467389 = Old meter final

Based on Prospect rainfall, therefore inacc

East Meter Replacement					
East	Old start	old end	Total	Lt	Total kL
run	118825	194880	76055		76.055
total	4403470	4403980	510		0.51
	new start	new end	total		
run	15	137	122		0.122
total	985	1107	122		0.122
					0.632

West Meter Replacement			
West	Old start	Old End	Total kL
Totals	29926.758	31154.206	1227.448
	New Start	New End	total
Total	0	2.341	2.341
			1229.789

West Meter Total Reset				
West	Old start	old end	Total	Lt
Total	1467389	1476499	9110	9.11
	new start	new end	total	
total	0	367710	367710	367.71
				376.82

Grand total 377.452

Rainfall days  
 Days < 2.0mm (or equal to)  
 Rainfall total  
 Rainfall quantity (<2mm) deductions  
 Sub total  
 2mm deductions x qualified rain even  
 Rainfall volume calculated addition  
 Evaporation

Date	Date	Date	Date	Date	Date	Time	Time	Date	Time	2016 TOTALS			
	October 2016				November 2016				December 2016				
Total	Previous	Current	Volume kL	Total	Previous	Current	Volume kL	Total	Previous	Current	Volume kL	Total	
		23229.61											
1265.729	7873.056	8309.02	435.964	3165.869	8063.43		-8063.43	-10555.17	0		0	0	31154.206
	1416.385	4146.29	2729.905		2491.74		-2491.74		0		0		
0	0	0	0	0	9041.5		-9041.5	-32278.16	0		0	0	-27468.105
374.1411	832692	1505310	672.618	673.0036	1206810		-1206.81	-1207.162	0		0	0	9.6313
	832692	1505310	672.618		1505310		-1505.31		0		0		
	3286	3941	0.655		3517		-3.517		0		0		
	3286	7142	0.3856		3517		-0.3517		0		0		
Volume kL	Total	Days	deduction	Volume kL	Total	Days	deduction	Volume kL	Total	Days	deduction	Volume kL	
1026		14.4	5	10	118.8			0	0			0	10354.5
0				0	0			0	0			0	0
1026				118.8	0			0	0			0	10354.5
	Total	Volume kL			Total	Volume kL			Total	Volume kL			
	139.5	174.375			0				0				360.75
Volume kL	Previous	Current	Change	Volume kL	Previous	Current	Change	Volume kL	Previous	Current	Change	Volume kL	
212.5	850	1240	-390	-487.5	850		850	1062.5	0		0	0	0
	Tonnes	Volume kL			Tonnes	Volume kL			Tonnes	Volume kL			
	4628.6	462.86			0				0				2076.55

	Sept	Oct				
	10	7				
	4	5				
	52.8	20.5				
	2.8	6.1				
	50.0	14.4	0.0	0.0	0.0	0.0
it days	12.0	4.0				
(mm)	38.0	10.4	0.0	0.0	0.0	0.0
(mm)	83.5	139.5				

Background Information

Monthly	Volume kL	
<b>Measured</b>		
Towns water		As per mains meter readings As this includes fire services a special calculation (increased % of return) will have to be factored for in the event of a fire. Particularly the west side meter.
<b>Calculated</b>		
Rainfall		From BOM website. S + P Surface area = 28,600m <sup>2</sup> Subtract 1600m <sup>2</sup> for landscaped and hill areas. 27,000 lt per mm or 27.0 kL per mm. Subtract 2mm per rainfall event c Dexion Dirty surface area = 6195m <sup>2</sup> or 8369m <sup>2</sup> including internal driveway 6195lt per mm or 6.2 kL per mm 8369lt per mm or 8.4kL per mm. Subtract 2r
Natural evaporation		From BOM website. 1mm of evaporation is equivalent to 1250 litres or 1.25kL
Forced evaporation		Pump rate of 70 Lt/min Hours as per diesel generator Return rate of 15%
Shredder		Dam water is pumped into the front storage tanks. Two metered pumps transfer this to shredder operations. Shredder pump is the main supply. C1 provides water to final product wash. Evaporation Add both inlets minus sewer, minus washdown evaporation, minus floc, minus wash down return Floc 10% of floc is water. Drying experiments by Howard Richards, February 2016. Will be variations due to stock volumes at start of measuring periods. Return 5% of water use returns to the retention pond
Dam height		Surface area 50 x 25 = 1250m <sup>2</sup> 1 mm = 1.25 kL add +/- Width*delta height Dam square at height so not to be applied. At lower levels assume 45 degree slope. Also need to deduct for islands at very low levels. Length*delta height
<b>Constant</b>		
Sewer	52.5	Average daily use per person = 35 litres. Average number of people on site per day is 60. 60 x 35 x 25 days per month. 52,500 litres or 52.5 kL Note: personnel there
Fire extinguishers	0.2	Average 30,000 per year. Of these 10% are water type. Of these 10% are charged. Volume is 9 litre. 30,000 /10 =3000. 3000/10 = 300. 300 x 9 = 2700 litres. 2700/12 = 225 litres per month. Evaporat
Vehicles	0.05	9% of vehicles that arrive on site have motors. Of these the majority have been disconnected from the radiator. Therefore 1% have water in them. Average car water content is 5 litres. 1000 x 0.01 = 10
Tyre wash		Surface area 9.5mtr x 4.0mtr = 38m <sup>2</sup> Depth 6cm Volume 38 x 0.06 = 2.28 kL Frequency winter 1 per week, summer 3 times per week Winter month
Wash down	100	Town water Figures calculated from Saturday meter usages when shredder not running. Mains meter minus sewer calculation leaves washdown water and fire service.
	300	Dam water Three times as many dam hoses to town water hoses.

Due to evaporative losses due to differential heat transfer, or rainfall required before runoff begins. Discount rainfall <2mm.  
mm per rainfall event due to evaporative losses due to differential heat transfer, or rainfall required before runoff begins.

Note: both measure in litres not kilolitres.

angle for

before water will increase over time when move to Dexion site.

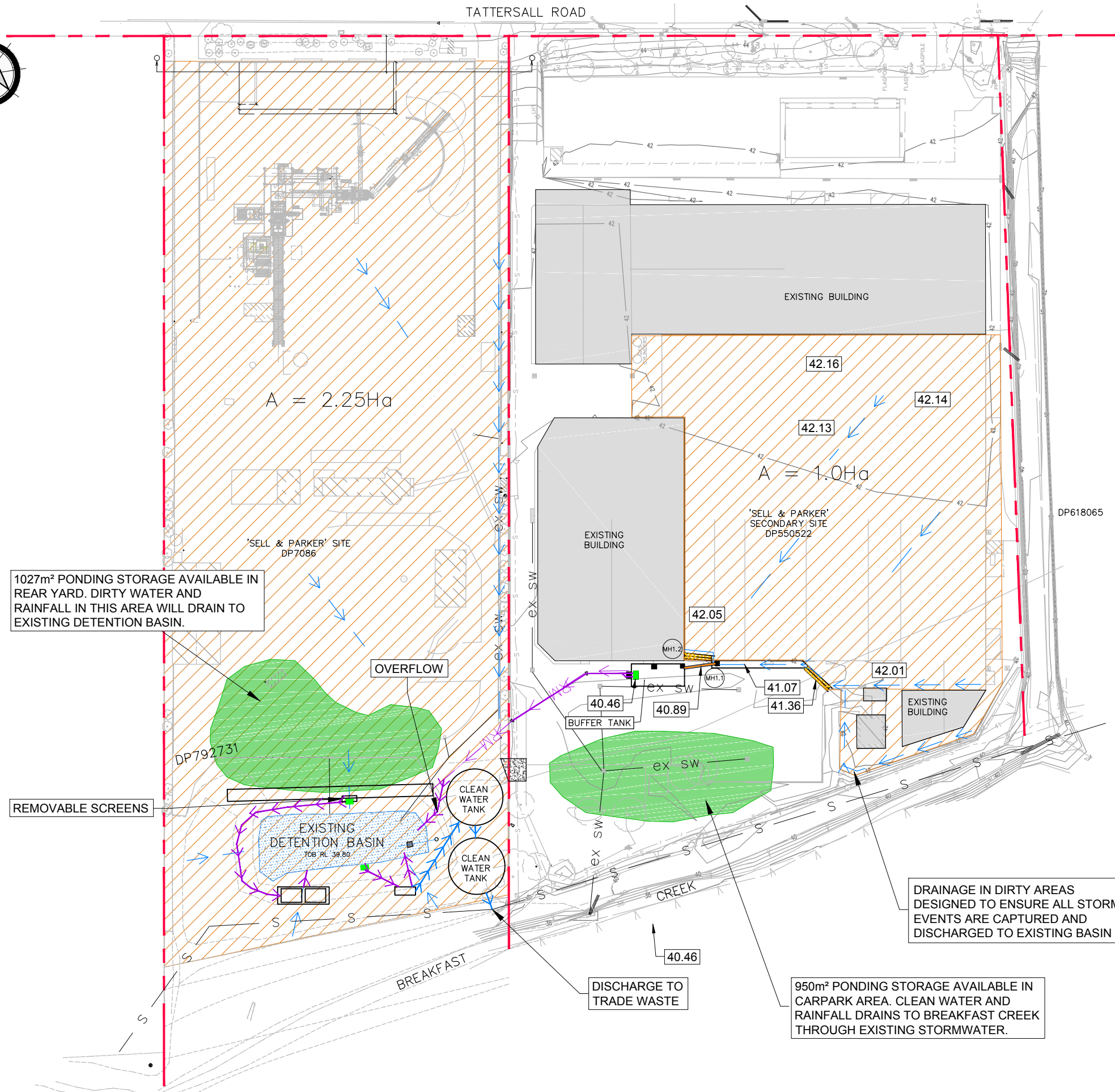
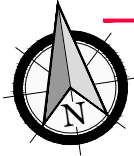
ive loss is 25 litres.

10 x 5 litres = 50 Litres. Assuming other waters in vehicles (rain in wheel wells) is equivalent to evaporation.

4.33 x 2.28 = 9.87 kL      Summer month      4.33 x 6.84 = 29.62 kL      Year      (9.87 x 6) + (29.62 x 6) =      236.94 kL

Calculation done when fire services not used.

**APPENDIX L ADW JOHNSON STORMWATER  
MANAGEMENT REPORT**



# APPENDIX 4

## LEGEND

- 'DIRTY WATER' CATCHMENT AREAS
- REAR YARD STORAGE CAPACITY
- FLOW ARROWS
- SEWER LINE
- PIPEWORK - DIRTY WATER
- PIPEWORK - TREATED WATER
- PUMPS

drawing title:

## DIRTY WATER CATCHMENT AREAS

location: LOT 2 D.P.550522,  
LOT 5 D.P.7086 &  
LOT 100 D.P.792731

council: -

dwg ref: 190337-REP-001

client:

SELL AND  
PARKER



central coast office ph: (02) 4305 4300  
hunter office ph: (02) 4978 5100

www.adwjohnson.com.au

ver.	date	comment	drawn	pm	level information	scale (A3 original size)	notes
E	12.07.17	GENERAL AMENDMENTS	KT	ML	DATUM: N/A CONTOUR INTERVAL: N/A	0 25.0 50.0 62.5m SCALE: 1:1250 (FULL)	

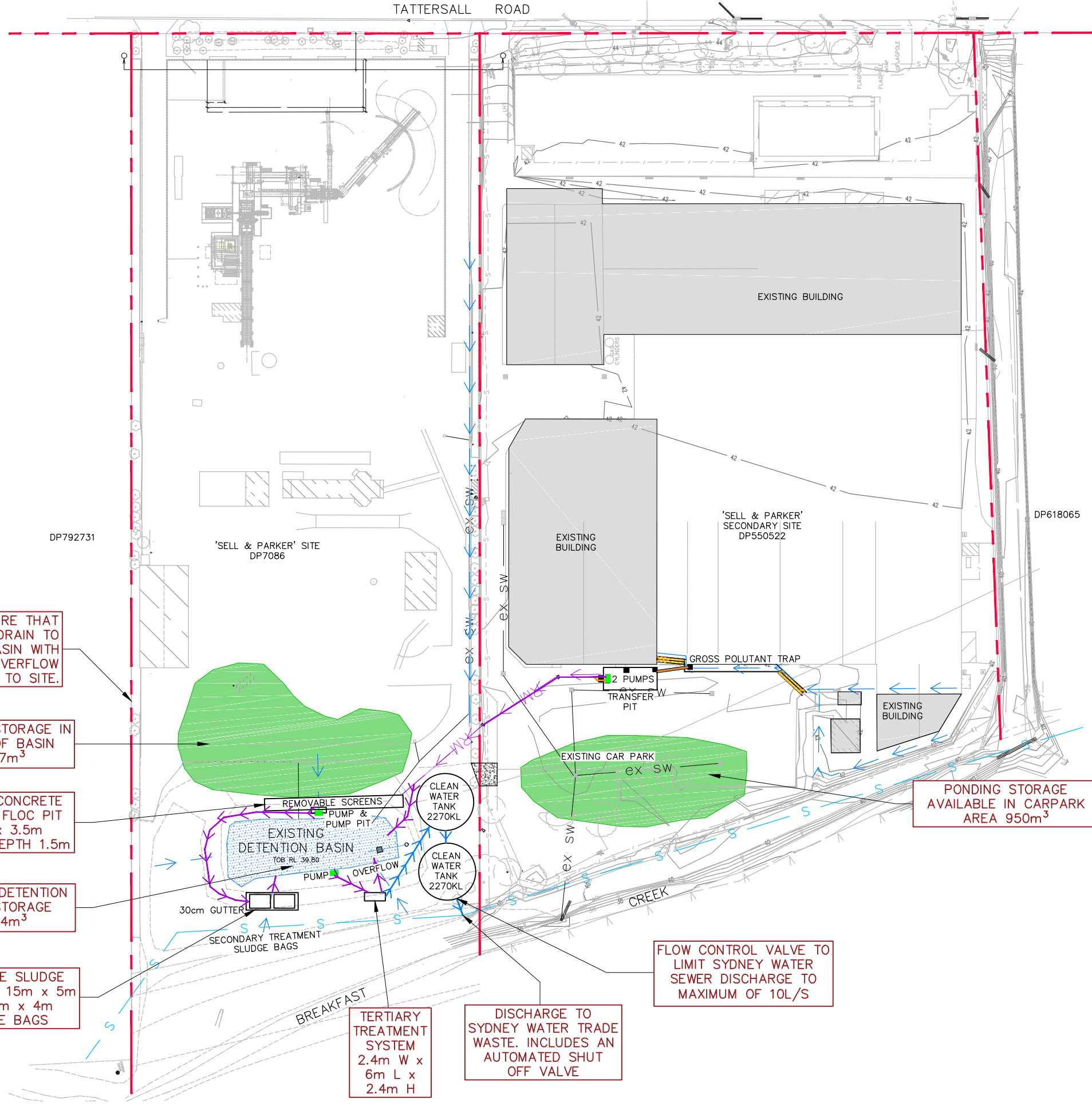


# APPENDIX 9

## SITE WATER RETENTION AREAS

### LEGEND

- FLOW ARROWS
- SEWER LINE
- PIPEWORK - DIRTY WATER
- PIPEWORK - TREATED WATER
- PUMPS
- REAR YARD STORAGE CAPACITY



- LEVELS ENSURE THAT SITE WILL DRAIN TO EXISTING BASIN WITH NO OVERFLOW EXTERNAL TO SITE.
- CURRENT STORAGE IN FRONT OF BASIN 1,027m<sup>3</sup>
- 2 PART CONCRETE DRIVE IN FLOC PIT 40m x 3.5m BOTTOM DEPTH 1.5m
- CURRENT DETENTION BASIN STORAGE 4,274m<sup>3</sup>
- CONCRETE SLUDGE BUG BUND 15m x 5m WITH 6m x 4m SLUDGE BAGS

PONDING STORAGE AVAILABLE IN CARPARK AREA 950m<sup>3</sup>

FLOW CONTROL VALVE TO LIMIT SYDNEY WATER SEWER DISCHARGE TO MAXIMUM OF 10L/S

TERTIARY TREATMENT SYSTEM 2.4m W x 6m L x 2.4m H

DISCHARGE TO SYDNEY WATER TRADE WASTE. INCLUDES AN AUTOMATED SHUT OFF VALVE

drawing title:

### SITE WATER RETENTION AREAS

location: LOT 2 D.P.550522, LOT 5 D.P.7086 & LOT 100 D.P.792731  
 council: (AUTHORITY - EPA)  
 dwg ref: 190337-REP-004

client:  
**SELL AND PARKER**

central coast office ph: (02) 4305 4300  
 hunter office ph: (02) 4978 5100

www.adwjohnson.com.au

ver.	date	comment	drawn	pm	level information	scale (A3 original size)	notes
D	12.07.17	GENERAL AMENDMENTS	KT	ML	DATUM: N/A CONTOUR INTERVAL: N/A	0 25.0 50.0 62.5m SCALE: 1:1250 (FULL)	

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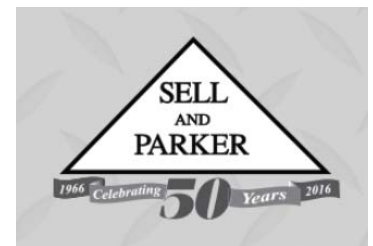
## Stormwater Management Assessment

### Metal Recycling Facility

**Property:**

23-45 Tattersall Road,  
Kings Park NSW

**Applicant:**



**Date:**

May 2017  
Version I



## Document Control Sheet

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Issue No.	Date	Author	
		Name	Reviewed By
A – DRAFT	7/12/2016	Mark Littlefield	Mark Kelly
B	14/12/2016	Mark Littlefield	Mark Kelly
C	15/12/2016	Mark Littlefield	Mark Kelly
D	16/12/2016	Mark Littlefield	Mark Kelly
E	3/03/2017	Mark Littlefield	Mark Kelly
F	7/03/2017	Mark Littlefield	Mark Kelly
G	16/03/2017	Mark Littlefield	Mark Kelly
H	19/05/2017	Mark Littlefield	Mark Kelly
I	30/05/2017	Mark Littlefield	Mark Kelly
J	12/07/2017	Mark Littlefield	Mark Kelly

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## APPENDICES

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## 1.0 Introduction

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ADW Johnson (ADWJ) has been commissioned by Sell and Parker Pty Limited to carry out a Stormwater Management Assessment of the approved metal recycling facility located at 23-45 Tattersall Road, Kings Park.

The site was approved for a site and processing capacity expansion by the Department of Planning and Environment, Application Number State Significant Development (SSD) 5041 dated 12<sup>th</sup> November 2016.

The licence that has been granted by the EPA does not allow for any overflows from the site being discharged to Breakfast Creek. This is contrary to the initial report submitted with the proposal (undertaken by Environmental Resource Management) that allowed for some discharge from the site. Due to this, an updated assessment was required to comply with this licencing condition.

The overall aim of the assessment is to demonstrate that the expanded site is capable of retaining water onsite, and safely and effectively discharging to the Sydney Water sewer.

Through undertaking the works described in the following report, the recycling facility will be able to operate in its expanded form as approved by the Development Consent 1:100 year 72 hour design criteria and in accordance with the EPA License requirement that does not permit discharge to waters.

## 2.0 Site Description

### 2.1 PROJECT BACKGROUND AND LOCATION

The Sell and Parker Kings Park recycling facility is located at 23-45 Tattersall Road, Kings Park. This facility was approved for a site and processing capacity expansion by the Department of Planning and Environment, Application Number State Significant Development (SSD) 5041 dated 12<sup>th</sup> November 2016.

The site consists of the existing recycling facility on 45 Tattersall Road and the expansion onto 23-43 Tattersall Road. The approved site layout is included in Appendix 1.

The Sell and Parker metal recycling facility, is located in the Kings Park Industrial zone within the Blacktown City Council (BCC) area at 23-45 Tattersall Road, Kings Park, which is shown in Figure 1.



Note: Background image sourced from LPI's online mapping system – SIX Viewer.

**Figure 1 - Existing Site**

## 3.0 Project Objectives

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ADW Johnson has been commissioned by Sell and Parker Pty Limited to carry out a Stormwater Management Assessment of the approved development. The assessment involves modelling the proposed stormwater flows from the site and establishing the design storm Average Recurrence Interval (ARI) that is required to be contained onsite to operate effectively.

The Environment Resource Management (ERM) concept stormwater plan that was submitted as part of the development approval process included a discharge to Breakfast Creek. The Environmental Protection Licence (EPL) that was granted after the development approval does not include a discharge point to Breakfast Creek. This report provides a proposed design that does not include a creek discharge. The report provides a design that proposes discharge to Sydney Water sewer.

The key activities include:

- Review the concept retention design proposed by the ERM Stormwater Management Plan (June 2015 and September 2015);
- Confirm the volume capacity required to be retained in a 1:100 year 72 hour rainfall event;
- Develop an operational design to manage a 1:100 year 72 hour rainfall event (the ARI); and
- Develop a water treatment system design that will meet Sydney Water sewer discharge requirements and EPL requirements;

## 4.0 Stormwater Strategy

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The design is based on achieving a site capacity holding of 9,570m<sup>3</sup> (described in further detail within this report) of rainfall based on the 1:100 year, 72 hour rainfall event with proposed controlled discharges to sewer and no uncontrolled discharges. This site holding capacity requirement is detailed in the reports approved by the Department of Planning in Approved Consent SSD 5041 12<sup>th</sup> November 2015.

The design proposes the continued use of the existing retention basin, the upgrade of the existing primary treatment system and the addition of secondary and tertiary water treatment systems. The shortfall in retention capacity will be addressed through the installation of above ground tank/s. A controlled release point from the tank/s will discharge to Sydney Water sewer.

The tank/s will receive tertiary treated water for use in the shredder and around the site for dust suppression during dry periods. Excess water discharge to make capacity for anticipated rainfall events will be via a Sydney Water licenced sewer discharge.

The assessment has been based on:

- Site survey;
- Architects layout;
- ERM Stormwater Management Plan June 2015;
- ERM Stormwater Management Concept Plan September 2015;
- Aurecon Stormwater Management Report March 2016;
- EPA Comments on Water Management Plan dated 22<sup>nd</sup> September 2016 and 9<sup>th</sup> February 2017; and
- The design principle of the Water Treatment System (WTS) as detailed in the below diagram and Appendix 2.

The Aurecon Stormwater Management Report dated March 2016 has been attached as Appendix 6. This report draws on some of the information in the Aurecon Report, however it should be noted that the Aurecon Report is superseded by this report as discharge to Breakfast Creek is no longer being requested and therefore the previous design proposed is no longer relevant.

The following diagram shows the process that has been proposed by Sell and Parker to meet the licencing requirements set by the EPA. Through the process of modelling, both design storms up to and including the 100 year ARI event as well as undertaking a water balance for a period of nearly 100 years utilising existing rainfall data, ADW Johnson have been able to verify the proposed system has adequate capacity to perform as required.

The design of this proposed Water Treatment System is detailed with current information and approvals. The final construction of the Water Treatment System and the exact position of the pipes and pumps may be finessed due to Sydney Water requirements and existing ground conditions.

## Proposed Water Treatment System Design

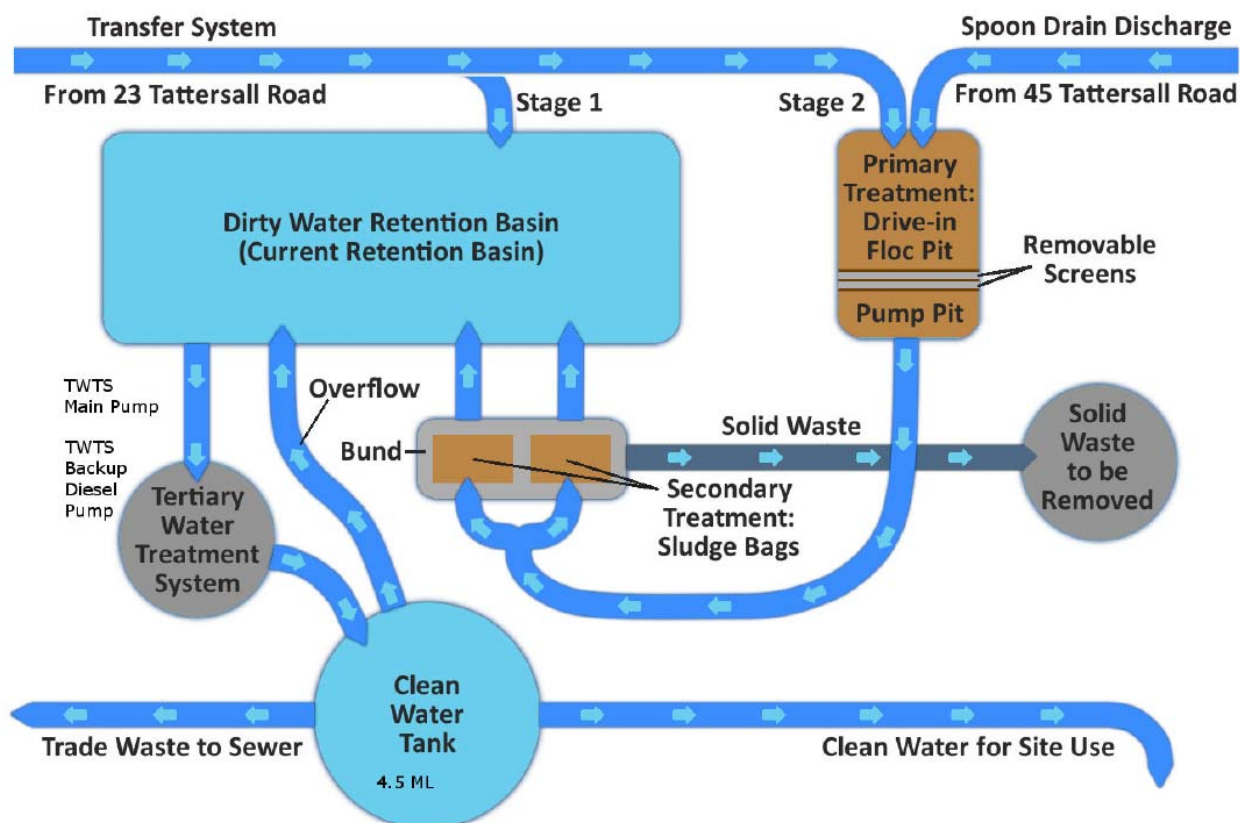


Figure 2 - Proposed Water Treatment Design

### 4.1 PRIMARY TREATMENT SYSTEM – FLOC PIT

Flows generated from 45 Tattersall Road flow by defined overland flow paths directed into the existing floc pit and the coarse gross pollutants will be extracted ready for collection. Floating materials are proposed to be removed manually. The transfer pump operates from this pit.

The upgrade will involve the modification of the existing floc pit and road into a drive through two (2) part system that allows coarse gross pollutants to fall out in the first section and floating materials to be removed via replaceable screens. A hydrocarbon boom will be utilised as required. Water passing through the screens will go into the floc pump pit ready for transfer to the secondary treatment system.

The location of the Floc Pit is detailed on the Drainage Plan and will be constructed of reinforced concrete.

The dirty water transfer on 23 Tattersall Road is addressed in Section 4.6. These dirty water flows will be pumped into the retention basin by a traditional pit and pipe network.

### 4.2 SECONDARY TREATMENT SYSTEM – SLUDGE BAGS

Water is pumped from the Primary Treatment System (pump pit) to the Secondary Treatment System which consists of two (2) sludge bags in a banded area on the retention basin wall.

The bags will retain the majority of the sediment while filtered water will seep out into the bund and then gravity feed down a discharge pipe into the retention basin.

The design of the bund will be a reinforced concrete constructed 15m x 5m bund with a 30cm gutter to incorporate two (2) 6m x 4m sludge bags. This has been detailed on the Drainage Plan.

While it is not anticipated that it will be required, the transfer system from the primary to the secondary treatment systems will allow for the installation of a flocculation injection point. A flocculation system can be installed, if required, to improve fine sediment capture.

Sludge removal takes place as required. Photos of sludge bag dewatering systems are in Appendix 3.

### **4.3 EXISTING ONSITE DETENTION BASIN**

The site retention design will utilise the existing 32m x 90m detention basin. Under this proposal, there are no changes proposed to this existing detention basin capacity. The landowner has informed us that the basin is clay lined and expansion of the basin is not possible due to encroachment on the existing 750 diameter Sydney Water sewer main that is over 4m deep. The location of this sewer main can be seen in Appendix 5.

Treated water will then be pumped from the retention basin into the Tertiary Treatment System.

### **4.4 TERTIARY WATER TREATMENT SYSTEM**

The Tertiary Water Treatment System (TWTS) will remove fine suspended particulate material. This system will be utilised to provide a water quality that meets the requirements for Sydney Water sewer discharge. Given the large size of the proposed tanks and comparatively low water usage for site requirements, the TWTS is anticipated to be utilised once per fortnight in normal operation. It will be utilised as required before anticipated large rainfall events and during heavy rains to maximise available storage capacity and maximise discharge to sewer.

### **4.5 TANKS**

Tertiary treated water will be stored in tank/s. The water will be utilised for site reuse and discharged to trade waste if and when required. In the event of a transfer failure or if required to improve retention basin water quality, overflow from the tank/s will be transferred back to the retention basin. The proposed tank size capacity is included in Section 6.5 of this report.

### **4.6 TRANSFER SYSTEM**

The dirty water transfer system from 23 Tattersall Road will initially pump directly into the retention basin via a traditional pit and pipe network. Once the retention basin treatment systems have been installed, the transfer system will be redirected to the primary water treatment pit. Details of this proposal can be seen in Appendix 5.



## 5.0 Catchment Areas and Site Drainage System

### 5.1 DRAINAGE CATCHMENT AREAS

45 Tattersall Road produces dirty surface water. This water is directed to the retention basin. Some buildings exist on site that direct flows generated from the roof towards the existing stormwater network. These are shown in the site layout in Appendix 1.

23-43 Tattersall Road operations contain both clean and dirty water zones. The clean and dirty water areas are detailed in the dirty water Catchment Areas Plan in Appendix 4.

The dirty water areas are where operations take place that have the potential to result in impacted water. The clean water areas comprise roofed areas, car parks, driveways and landscaped areas and flows generated are discharged to the existing drainage network located on the site.

### 5.2 EXISTING AND PROPOSED DRAINAGE

The drainage plans for the site are for:

- 45 Tattersall Road – existing drainage detailed in Appendix 5; and
- 23-43 Tattersall Road – proposed drainage currently under construction, plans for these works are located within Appendix 5.

Flows from 45 Tattersall Road make their way through defined overland flow paths to the existing raised “turkey nest style” retention basin. Through a combination of site inspection, as well as desktop analysis of available plans showing existing site contours and drainage infrastructure, it has been determined that during all storm events up to and including the 100 year ARI that no surface flows will be able to bypass the existing retention basin to Breakfast Creek.

Drainage works within 23-45 Tattersall Road are being undertaken to ensure that all flows considered “dirty” water are contained, retained and pumped through to the existing detention basin. Further details of this system can be seen in Appendix 5.

## 6.0 Hydraulic Modelling

This section addresses the required design capacity for the site, the current site holding capacity and provides modelling to demonstrate how the provision of tank(s) will meet the ARI design capacity.

### 6.1 SITE DESIGN CAPACITY

The site design capacity was set in the reports approved by the Department of Planning in Approved Consent SSD 5041 12<sup>th</sup> November 2015.

The design capacity was calculated utilising DRAINS. DRAINS uses the time-area method to estimate runoff hydrographs for pervious and impervious surfaces. The Rainfall Intensity Frequency Duration (IFD) data used in the model was sourced from the Bureau of Meteorology in accordance with Chapter 2 (Volume 1) of AR&R (1998). The DRAINS model was configured for the defined catchment to determine the peak levels in the basin and hence required storage capacity for different rainfall durations, up to 72 hours for the 5, 10, 20, 50 and 100 year Average Recurrence Interval (ARI).

The DRAINS model utilised a total catchment area of 3.25Ha with an impervious fraction of 100%.

Based on the design philosophy the critical capacity for the site is the 1:100 year 72 hour which has been determined to require a storage capacity of 9,570m<sup>3</sup>.

### 6.2 CURRENT SITE HOLDING CAPACITY

The current holding capacity of the site is:

Table 6.1 – Current Site Holding Capacity

Location	Storage	Reference
Retention basin	4,274m <sup>3</sup>	Lean Lackenby Hayward document Appendix 7
45 Tattersall Road Site	1,027m <sup>3</sup>	Lean Lackenby Hayward document Appendix 7
23-43 Tattersall Road Site	950m <sup>3</sup>	ADWJ Plan Appendix 8
<b>Total</b>	<b>6,251m<sup>3</sup></b>	
<b>Theoretical shortfall</b>	<b>3,319m<sup>3</sup></b>	Storage Capacity (9,570m <sup>3</sup> ) – Site Capacity (6,251m <sup>3</sup> )

Note: The retention basin and 45 Tattersall road holding capacity figures from previous versions of this Assessment have been revised and are now based on detailed survey volume calculations as shown in Appendix 7.

This theoretical shortfall does not take into consideration the site operational usage requirements of 1,000-1,500m<sup>3</sup> per month which translates into an operational holding capacity of 1,000m<sup>3</sup>, stored within the existing detention basin on site. The 1,000 - 1500m<sup>3</sup> per month requirement for operational uses is very conservative. The DA approved ERM Stormwater June 2015 report included an operational use of 2,400m<sup>3</sup> per month.

Please note, the storage capacity on 45 Tattersall Road that has been utilised has very conservatively been set at RL 41.0. There is the capacity for greater storage on this site.

### 6.3 PROPOSED DESIGN CAPACITY OF SITE

The required capacity of the site is 9,570m<sup>3</sup>. The current capacity of the site is 6,251m<sup>3</sup>. In order to make up the shortfall as discussed in the Water Treatment Design, holding tank(s) are proposed. Please see Appendix 9 for the proposed location.

Table 6.2 – Proposed Site Holding Capacity

	Required	Proposed
Holding Capacity	9,570m <sup>3</sup>	
45 Tattersall Road Site storage capacity		1,027m <sup>3</sup>
23-43 Tattersall Road Site storage capacity		950m <sup>3</sup>
Retention Basin Capacity		4,274m <sup>3</sup>
<i>Proposed Tank Option</i>		4,500m <sup>3</sup>
<b>Total</b>	<b>9,570m<sup>3</sup></b>	<b>10,751m<sup>3</sup></b>

Therefore, the facility will have a capacity of 10,751m<sup>3</sup> versus a requirement of 9,570m<sup>3</sup> resulting in an excess of 1,181m<sup>3</sup>

In the event of high rainfall events, should the hard stand rear yard holding capacity areas be required then rain falling on 45 Tattersall Road will pond in the rear yard north of the retention basin (this is detailed on the Catchment Area plan). The rain on this site will fall in a dirty water area and drain to the water treatment system.

The whole site on 45 Tattersall Road has been classified as a dirty water catchment and due to this there is no stormwater discharge point from this site to Breakfast Creek.

Within the 23 -43 Tattersall Road area, the rear car park can be classified a clean water catchment zone.

The rain falling in the rear car park will be considered clean water and will fall into a clean water catchment area. As such, it will drain through the existing stormwater system to Breakfast Creek.

Only clean water from the clean water catchment area will discharge via the existing stormwater system.

### 6.4 WATER BALANCE ON DESIGN MODEL UTILISING EXISTING RAINFALL DATA

Major storm events come with forewarning which means that discharge can commence prior to the event. The sewer discharge maximum modelled rate utilised is 10L/s.

In the event of a 1:100 year 72 hour rain fall event, a conservative approach estimates that water can be discharged approximately one (1) day before the event (due to BOM notifications). Utilising the maximum pump rate of 10L/s for 24 hours allows an additional 864m<sup>3</sup> of storage.

Estimation of Surplus Capacity due to discharge capacity:

Table 6.3 – Required v Proposed Capacity

	Required	Proposed
Holding Capacity	9,570m <sup>3</sup>	
45 Tattersall Road Site storage capacity		1,027m <sup>3</sup>
23-43 Tattersall Road Site storage capacity		950m <sup>3</sup>
Retention Basin Capacity		4,274m <sup>3</sup>
<i>Proposed Tank Option</i>		4,500m <sup>3</sup>
1 day of sewer discharge 864m <sup>3</sup>		864m <sup>3</sup>
<b>Total</b>	<b>9,570m<sup>3</sup></b>	<b>11,615m<sup>3</sup></b>

Therefore there will actually be a surplus capacity of 2,045m<sup>3</sup> in the event of a 1:100 year 72 hour rainfall event.

These figures remain conservative as it does not include;

- Excess capacity in the dirty water transfer pit;
- Excess capacity in the floc pit;
- Additional capacity to discharge to sewer as storm events generally have several days of warning before they occur;
- Greater storage than RL 41.00 in the 45 Tattersall Road holding capacity area.

The TWTS pump has been sized at 2000m<sup>3</sup> per day to allow additional transfer capacity. It is currently proposed that 1,600m<sup>3</sup> goes to the tank and 400m<sup>3</sup> goes to the trade waste per day. This will reduce the likelihood for the retention basin reaching capacity in smaller events. A suitable diesel pump will also be included as a contingency to address the risk of pump failure.

The measures that will be implemented to ensure that as much as practicable, capacity is maintained to capture rainfall up to the design storm include:

- Discharge to trade waste;
- Additional transfer capacity of the Tertiary Treatment Water System Pump;
- Use of water for operational requirements;
- Use of excess capacity in retention basin, water tanks, dirty water transfer pit (buffer tank) and transfer pit pipes; and
- As previously raised in the this report, the capacity figures do not include the excess capacity in the dirty water transfer pit and pipes, floc pit and additional capacity to pre-discharge to sewer with several days of storm warning.

Under this scenario, the system can have a normal operational capacity of 1,000m<sup>3</sup> of water. A daily time step site capacity model has been developed which models the interaction of successive rainfall events with water reuse and disposal constraints including pump flow rates to demonstrate the effectiveness of the water management system.

Rainfall data was adopted for Sydney Observatory Hill (BOM) for the period of 1913 to 2010 to provide a significant period of analysis. Modelling of the water balance has been undertaken on a daily time step as requested by the EPA. The analysis is able to show the interaction of successive rainfall events with water re-use and disposal constraints. Disposal during large storm events to the Sydney Water sewer was set at a maximum flow rate of 10L/s. The daily time step seen in Figure 3 illustrates:

- The maximum site capacity is not exceeded from 1913-2010
- The maximum storage capacity utilised was 9,445 m<sup>3</sup> in August 1986. This is below the capacity of 11,615 m<sup>3</sup>, this is below the capacity of 11,615m<sup>3</sup>
- All discharge offsite can be managed via discharge to the Sydney Water sewer and not to Breakfast Creek

Refer Appendix 10 for details of other storm events.

The water balance can be simplified as:

$$V = E + S - D$$

V - Volume of water detained on site

E - Existing volume of retention from previous days modelling

S - Surface runoff generated from all "dirty water" areas (100% Impervious)

D - Discharge to Sydney Water Sewer @ 10L/s

The value of S was determined utilising the program MUSIC (Model for Stormwater Improvement Conceptualisation). The algorithm adopted to generate urban runoff within MUSIC is based on a simplified rainfall-runoff model developed by Chiew et al. (1997). The model was initially developed using a daily time-step, but has been modified for incorporation into music to allow disaggregation of the generated daily runoff into sub-daily temporal patterns.

## Sell and Parker Water Balance, Daily Timestep

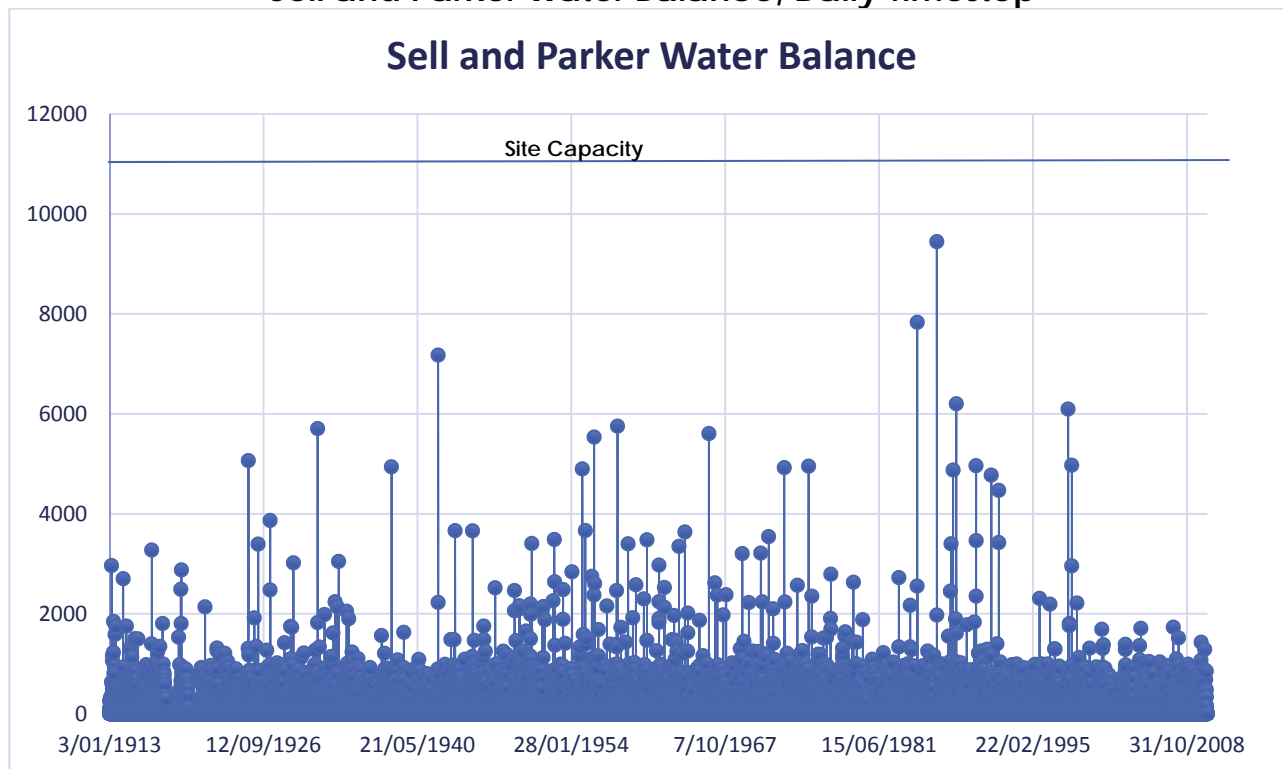


Figure 3 – Water Balance Analysis of Proposed System 1913-2010, Daily Time Step

### 6.5 PROPOSED TANK SIZE

Discussions with Sell and Parker have indicated they are seeking to install two (2) tanks of 2,270m<sup>3</sup>, totalling 4540m<sup>3</sup>, which will ensure the site capacity in a 1:100 year 72 hour rainfall event is met. The location of the proposed tank is indicated on the site plan along with a proposed sewer connection into an existing sewer line. The proposed tanks dimensions are 10.7m high with a nominal dimension of 16.5m, a typical section of the tank is shown below.

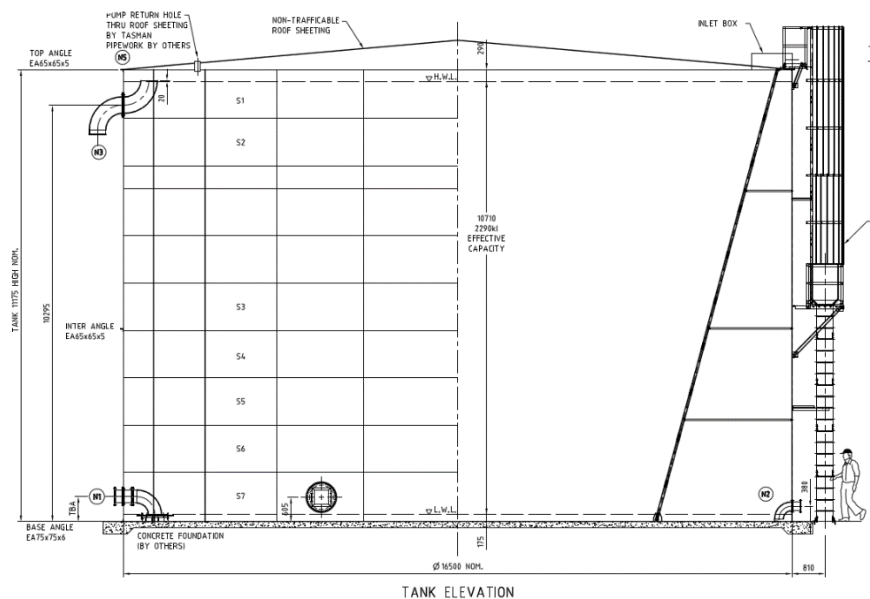


Figure 4 – Typical Section – Proposed Holding Tank

## 6.6 CONTROLLED DISCHARGE TO SEWER

Testing of TWTS designs are in their final stages. Application for a trade waste license has been granted as an in principle approval by Sydney Water. In principle approval is attached at Appendix 11.

The trade waste discharge will be via a proprietary flow control device from the clean water tank/s to the sewer discharge point. It is proposed to include a visual air gap backflow prevention connection from pipe discharge to the Sydney Water sewer connection.

The system will include a float valve that will automatically discharge flows to trade waste when the tanks begin to fill.

The proprietary flow control device will limit flow to a maximum of 10L/s. This is detailed on the site drainage plan.

A shut off valve will be installed at the discharge point to all for discharge to be ceased if required.

Should there be an event where the discharge criteria is not met and the discharge of waste water to sewer is prevented by the activation of the shut off valve, the contingency protocol for the disposal of waste water will be:

- The shut off valve will have been activated;
- The water is returned to the retention basin and sent back through the WTS again for treatment;
- If the re-treated water meets the discharge criteria, it will be discharged to trade waste or utilised for onsite processing requirements;
- If the re-treated water does not meet the discharge criteria it will be removed via an appropriately licenced contractor for disposal at an appropriately licenced liquid waste facility.

Discharge to sewer will be utilised to:

- Manage the retention basin water levels;
- Manage the tank levels; and
- Manage site capacity to address a 1:100 year 72 hour rain fall event.

## 6.7 RESTORING CAPACITY TO THE WTS FOLLOWING A STORM EVENT

The proposed water treatment system will operate, allowing discharge to Sydney Water sewer until such time that the required site holding capacity of 1,000m<sup>3</sup> is reached.

Following a significant storm event, it is proposed that the Water Treatment System (WTS) is inspected for any visual damage, blockage or foreign objects. Any large foreign objects within the basin or treatment system should be removed and disposed of appropriately.

All proprietary devices should be maintained in accordance with their manufactures guidelines, including replacement of sludge bags as required to ensure that any major storm events occurring in the future will be effectively contained as designed.

## 7.0 Conclusion

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ADW Johnson have been commissioned by Sell and Parker Pty Limited to carry out a Stormwater Management Assessment of the proposed expanded metal recycling facility located at 23-45 Tattersall Road, Kings Park.

The licence that has been granted by the EPA does not allow for any overflows from the site being discharged to Breakfast Creek. This is contrary to the initial report submitted with the proposal (undertaken by Environmental Resource Management) that allowed for some discharge from the site. Due to this, an updated assessment was required to comply with this licencing condition.

The updated proposal was required to calculate the stormwater storage volume required to be stored on site and discharged to Sydney Water sewer at a maximum rate of 10L/s. Based on the design philosophy adopted, the critical capacity for the site is the 1:100 year 72 hour which has been determined to require a storage capacity of 9,570m<sup>3</sup>.

The design proposes the continued use of the existing retention basin, the upgrade of the existing primary treatment system and the addition of secondary and tertiary water treatment systems. The shortfall in retention capacity will be addressed through the installation of above ground tank/s. A controlled release point from the tank/s will discharge to Sydney Water sewer.

The tank/s will receive tertiary treated water for use in the shredder and around the site for dust suppression during dry periods. Excess water discharge to make capacity for anticipated rainfall events will be via a Sydney Water licenced sewer discharge.

The assessment was able to prove that the expanded site is capable of retaining water onsite, and safely and effectively discharging to the Sydney Water sewer. Through undertaking the works described in the following report, the recycling facility will be able to operate in its expanded form as approved by the Development Consent 1:100 year 72 hour design criteria and in accordance with the EPA License requirement that does not permit discharge to waters.



## 8.0 Qualifications of Authors

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### Mark Kelly – ADW Johnson

#### *Qualifications*

Mark holds an honours degree in Civil Engineering from the University of Sydney, a Master's degree in Engineering Science, has chartered membership to Engineers Australia and has been accepted on the National Professional Engineers Register.

#### *Summary of Experience*

Mark is a chartered civil engineer with over fifteen years of experience in NSW and the ACT. As a civil engineer and project manager, Mark oversees the civil design and construction for land subdivision, water and civil infrastructure projects.

Moreover, Mark has extensive experience in services master planning, project feasibility, road design, hydraulic reticulation, water sensitive urban design, and urban development.

Mark is the Engineering Department Head at ADW Johnson.

#### *Selected Projects:*

- "Altrove" Schofields. Stormwater management planning for a future residential estate and town centre. This project included the design of major culvert crossings, two water quality (bio filtration) and detention basins that could be scaled to support stormwater treatment as the catchment is developed over 9 stages.
- Googong Township. Stormwater management planning for a master planned community of over 5,000 lots. Included detention design, water quality, non-potable irrigation and sewer treatment plant water balance.
- Trinity Point Marina. Stormwater management planning for a commercial and residential precinct. Included detailed water monitoring regime to protect a high value sea grass community, water balance and bio filtration treatment devices.
- North Weston Ponds. Design of regional water quality ponds with a combined surface area of over 11 Ha. Included a spillway design that caters over 110 cubic metres per second.

## Mark Littlefield – ADW Johnson

### *Qualifications*

Bachelor of Civil and Environmental Engineering (Hons), Diploma of Engineering Practice, University of Technology Sydney (2009).

### *Summary of Experience*

Mark commenced work at ADWJ in 2007 whilst completing his Bachelor of Engineering degree at the University of Technology Sydney. He completed his degree in 2009 at which time he commenced full time work as a graduate Civil/ Environmental Engineer gaining experience on a wide range of projects on the Central Coast, Hunter, Newcastle, and Sydney.

With nearly 8 years' full time experience as a qualified engineer Mark has significant experience in stormwater and wastewater management including developing solutions for stormwater detention, water quality and water balance analysis.

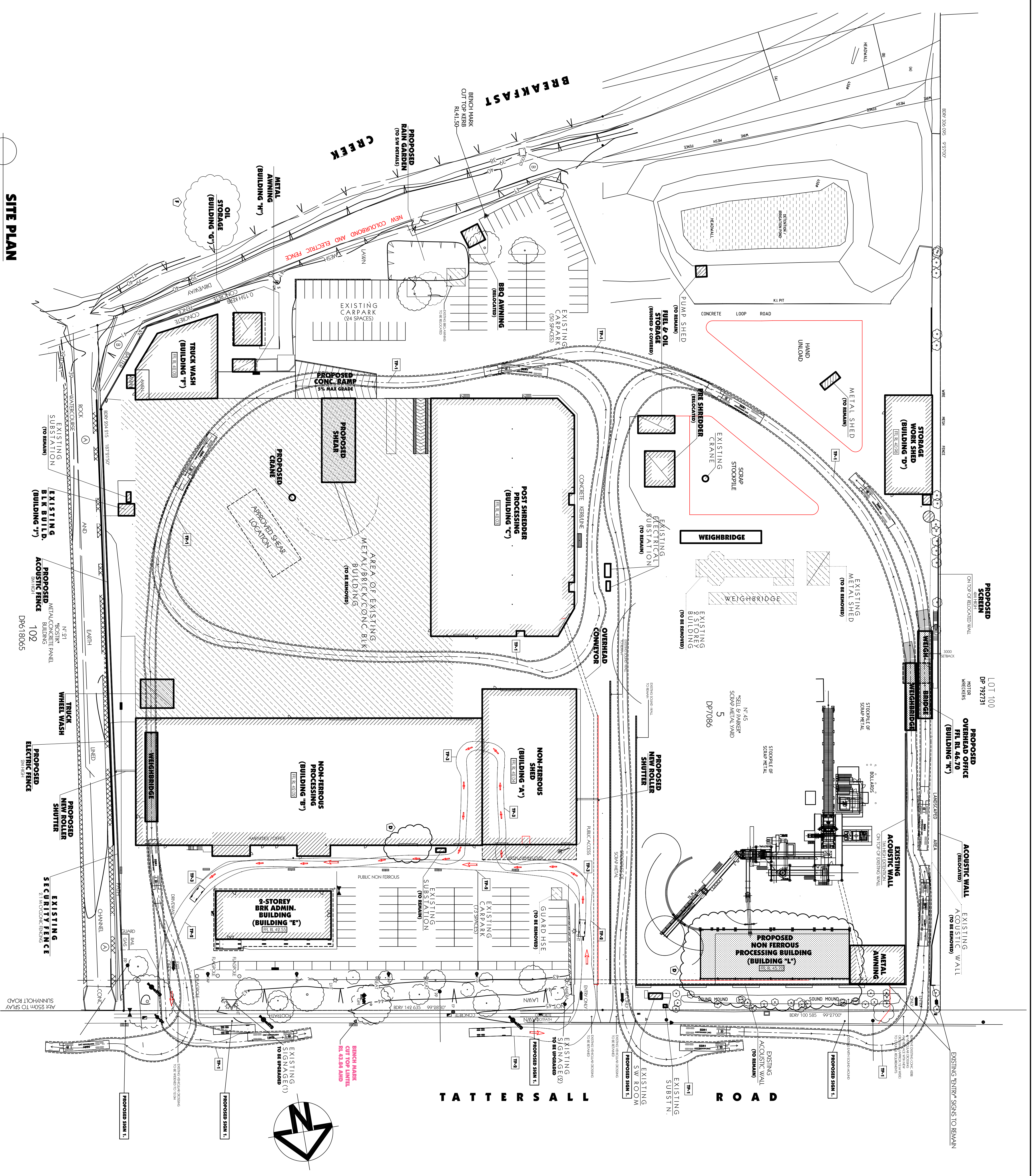
### *Selected Projects*

- 'Gurawarang Waters', Macleay Drive, Halekulani - Wetland mitigation measures were designed utilising a water balance analysis to maintain the drying hydrology of Colongra Wetland, a SEPP14 wetland located downstream of the site. Modelling determined that the selected pump and rising main, additional to the water reuse proposed for the site achieved the objectives in accordance with "Water Sensitive Urban Design Solutions for Catchments above Wetlands - Appendix B: Catchment Hydrologic Indices and Urban Water Management Performance Objectives" dated May 2007, prepared by Hunter and Central Coast Regional Environmental Management Strategy (HCCREMS) analysis methods.
- Wadalba East Landowners Group (WELOG), Jensen Road, Wadalba – Preparation of a stormwater strategy for rezoning of approximately 1,500 residential lots that assessed of the potential impacts on water quality, quantity, downstream SEPP 14 wetlands and assessment of flooding for local overland flows and accessibility during flood events. The methodology employed was to treat all stormwater within the limits of the development through a combination of rainwater tanks, swales, gross pollutant traps and constructed wetlands in order to maintain receiving waters in their current state. Channel flood water levels as well as detention basins were determined in order to assess the impact of stormwater associated with any future residential development of the WELOG site.
- Proposed 300 Lot Residential Subdivision - 79 Berkeley Road, Berkeley Vale - The Water Cycle Management Plan was prepared in accordance with Wyong Shire Council's Development Control Plan (DCP) 2013 and satisfied the requirements in relation to existing hydrology, total water cycle management, erosion and sediment control, on site detention and water quality. Furthermore, the assessment and reporting had to consider Wyong Shire Councils DCP 2013 Chapter 3.10 Wetlands Management. Water balance analysis was required to be undertaken to model infiltration measures adopted to ensure any impacts on the wetland were avoided.

# Appendix 1

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Site Layout – Architect Plan



**SITE PLAN**

Issue	By	Description	Date
A	CZ	FOR DA	5/03/14
B	CZ	FOR DA	18/05/15
C	CZ	FOR SECTION 90 APPLICATION	05/07/16
D	CZ	FOR SECTION 90 APPLICATION-ADDED VEHICLE TEAM	10/08/16
E	CZ	FOR SECTION 90 APPLICATION	15/11/16
F	CZ	FOR SECTION 90 APPLICATION	15/11/16

**GENERAL NOTES**

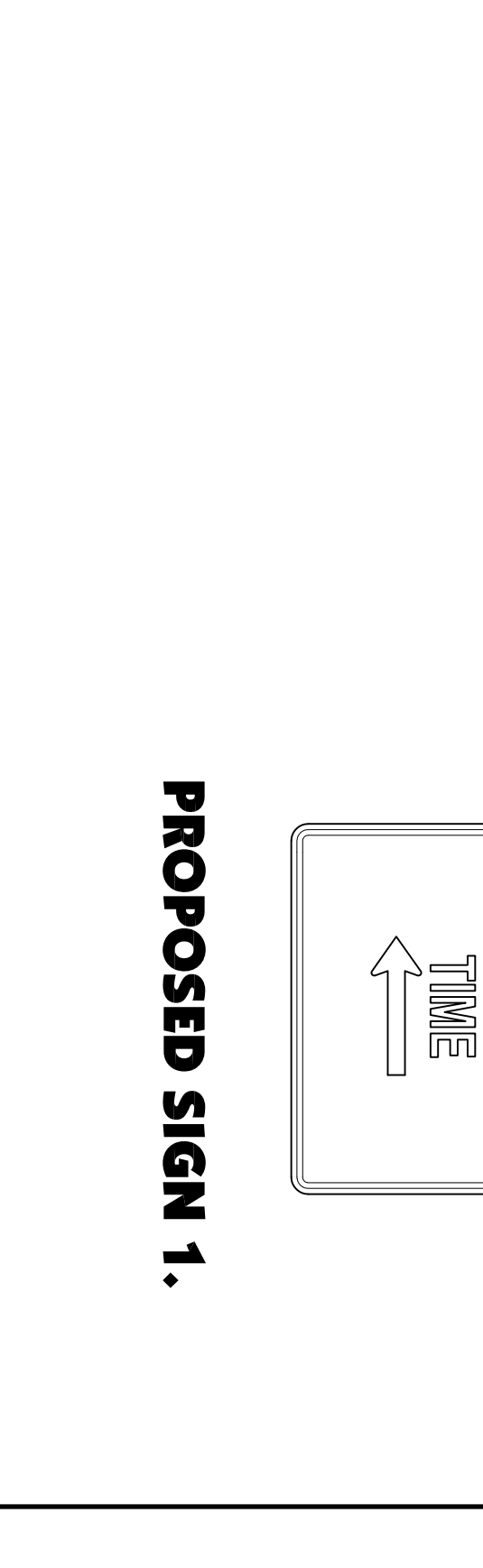
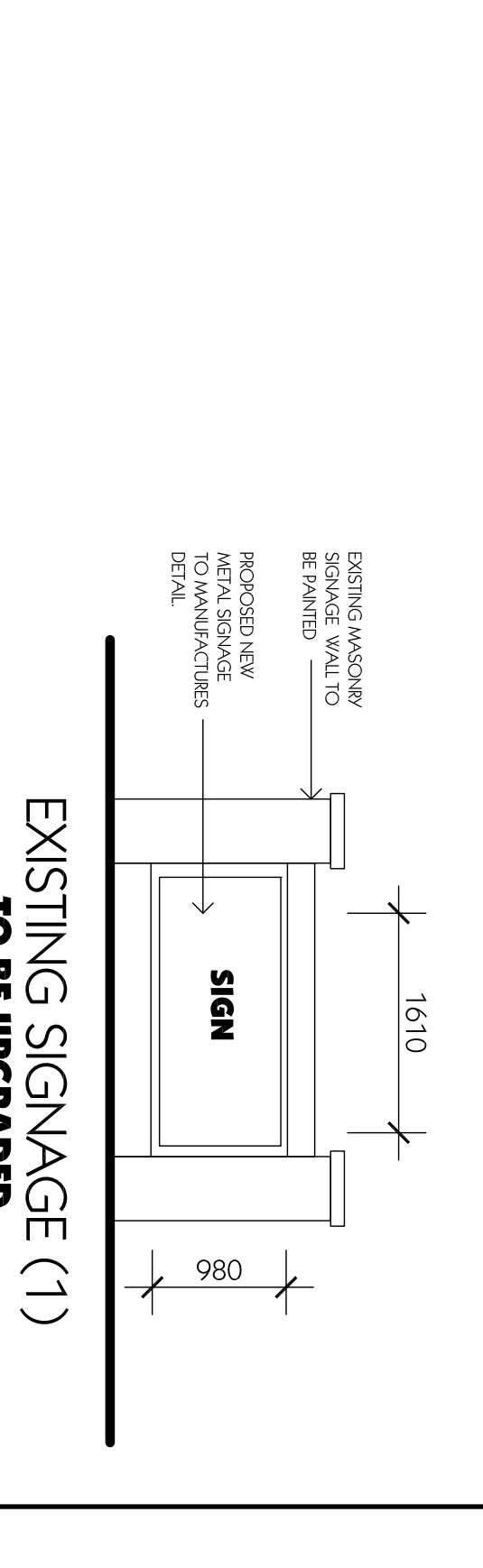
- All dimensions and floor area to be verified by the builder prior to the commencement of any building work.
- Level dimensions are given unless otherwise stated.
- Level dimensions are given unless otherwise stated.
- Typical dimensions must be taken in preference to sections.
- As building dimensions must be verified by the surveyor prior to the commencement of any building work.
- Level dimensions are given unless otherwise stated.
- Level dimensions are given unless otherwise stated.
- Level dimensions are given unless otherwise stated.
- Level dimensions are given unless otherwise stated.
- Level dimensions are given unless otherwise stated.

Date	By	Description
FEBRUARY 2014	DA	FOR DA
15/01/10	DA	FOR DA
11/08/10	DA	FOR DA
15/11/16	DA	FOR DA

**ALGORRY ZAPPA & ASSOCIATES PTY. LTD.**  
 Consulting Civil & Structural Engineers & Building Designers  
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 P.O. Box 952, Liverpool Business Centre NSW 2157  
 Tel: (02) 9714 1000  
 Fax: (02) 9714 1001  
 Web: www.algorryzappa.com.au

**DEVELOPMENT DATA**

SITE AREA	59 475 M <sup>2</sup> approx.
<b>FLOOR AREAS</b>	
W/HOUSE	94 M <sup>2</sup>
BUILD 'A'	1278 M <sup>2</sup>
BUILD 'B'	3162 M <sup>2</sup>
BUILD 'C'	2981 M <sup>2</sup>
BUILD 'D'	415 M <sup>2</sup>
BUILD 'E'	924 M <sup>2</sup>
BUILD 'F'	494 M <sup>2</sup>
BUILD 'G'	81 M <sup>2</sup>
BUILD 'H'	25 M <sup>2</sup>
BUILD 'I'	17 M <sup>2</sup>
BUILD 'J'	47 M <sup>2</sup>
BUILD 'K'	593 M <sup>2</sup>
<b>TOTAL</b>	<b>10 077 M<sup>2</sup></b>
<b>CARPARKING</b>	
TOTAL GR. BL. AREA	10077
REQUIRED	75
TOTAL OFFICE AREA	468
REQUIRED	40
TOTAL	11
<b>PROVIDED</b>	<b>147</b>



**LEGEND**

Symbol	Description
[Solid Line]	EXISTING STRUCTURE TO REMAIN
[Dashed Line]	EXISTING STRUCTURE TO BE REMOVED
[Hatched Box]	PROPOSED NEW STRUCTURE
[Dotted Box]	EXISTING STRUCTURE TO BE RELOCATED OR TO BE BLOCKED

**LEGEND**

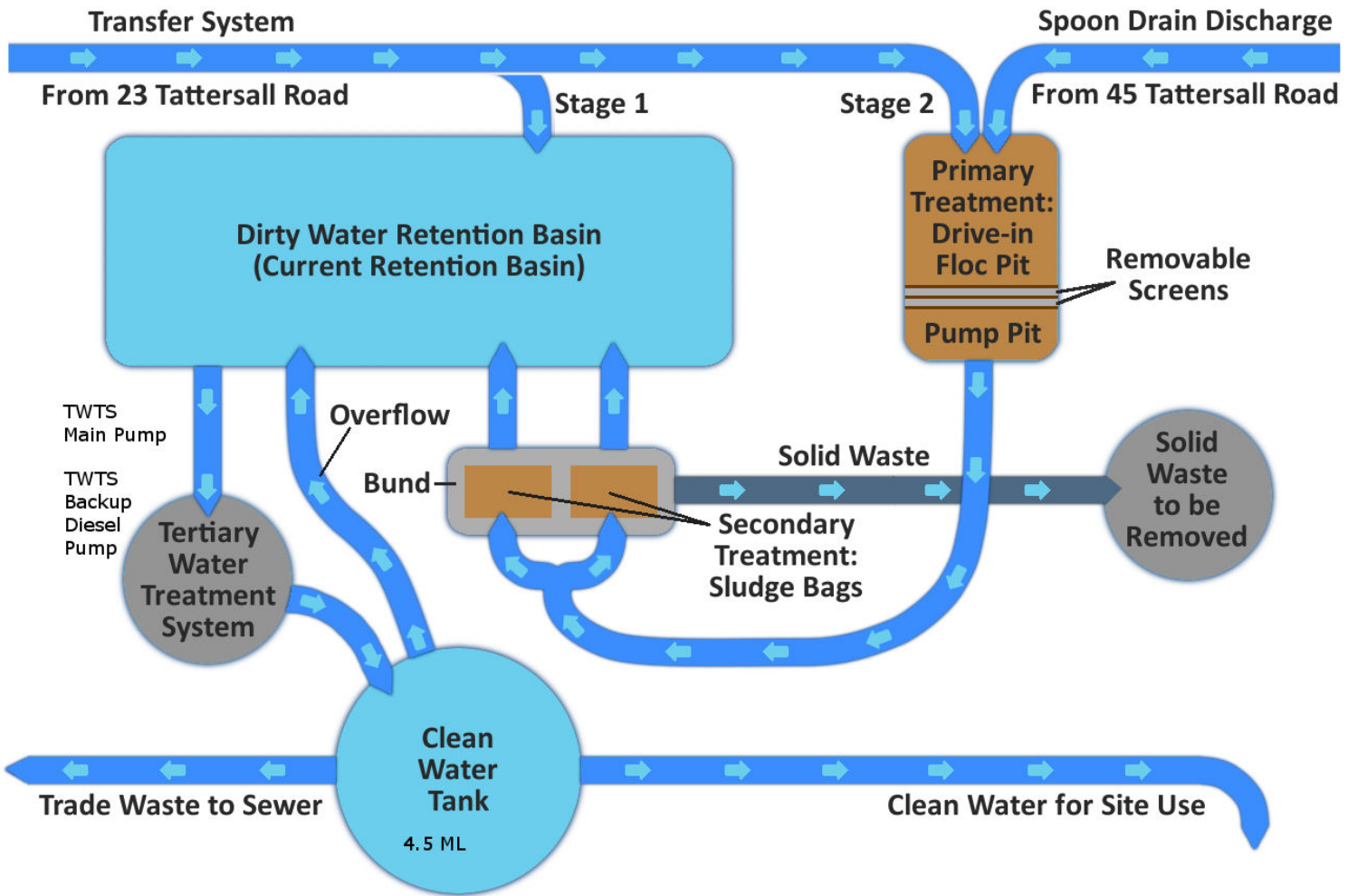
Symbol	Description
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[TP-2]	TURNING BAY/VEHICLE APPROVED/VEHICLE CLEARANCE HT 4.5 M A.S 5990.2 - 5002
[TP-3]	TURNING BAY/VEHICLE APPROVED/VEHICLE CLEARANCE HT 4.5 M A.S 5990.2 - 5002

## Appendix 2

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### Proposed Water Treatment System Design

# Proposed Water Treatment System Design



## Appendix 3

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Photos of Sludge Bags





## Appendix 4

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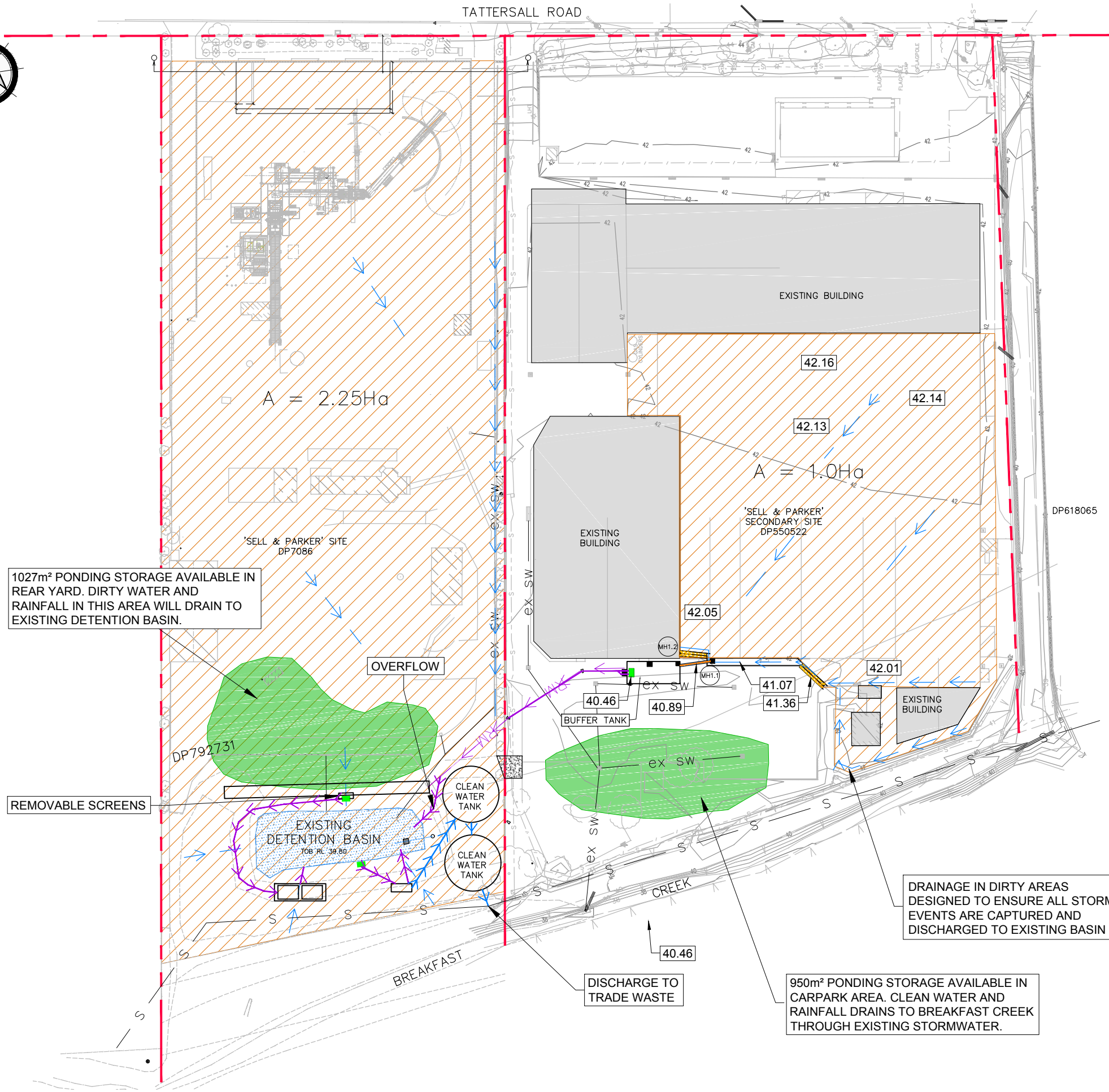
"Dirty" Water Catchment Areas



# APPENDIX 4

## LEGEND

- 'DIRTY WATER' CATCHMENT AREAS
- REAR YARD STORAGE CAPACITY
- FLOW ARROWS
- SEWER LINE
- PIPEWORK - DIRTY WATER
- PIPEWORK - TREATED WATER
- PUMPS



1027m<sup>2</sup> PONDING STORAGE AVAILABLE IN REAR YARD. DIRTY WATER AND RAINFALL IN THIS AREA WILL DRAIN TO EXISTING DETENTION BASIN.

DRAINAGE IN DIRTY AREAS DESIGNED TO ENSURE ALL STORM EVENTS ARE CAPTURED AND DISCHARGED TO EXISTING BASIN

950m<sup>2</sup> PONDING STORAGE AVAILABLE IN CARPARK AREA. CLEAN WATER AND RAINFALL DRAINS TO BREAKFAST CREEK THROUGH EXISTING STORMWATER.

drawing title:

### DIRTY WATER CATCHMENT AREAS

location: LOT 2 D.P.550522,  
LOT 5 D.P.7086 &  
LOT 100 D.P.792731

council: -

dwg ref: 190337-REP-001

client:

SELL AND PARKER



central coast office ph: (02) 4305 4300  
hunter office ph: (02) 4978 5100

www.adwjohnson.com.au

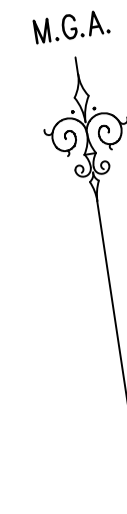
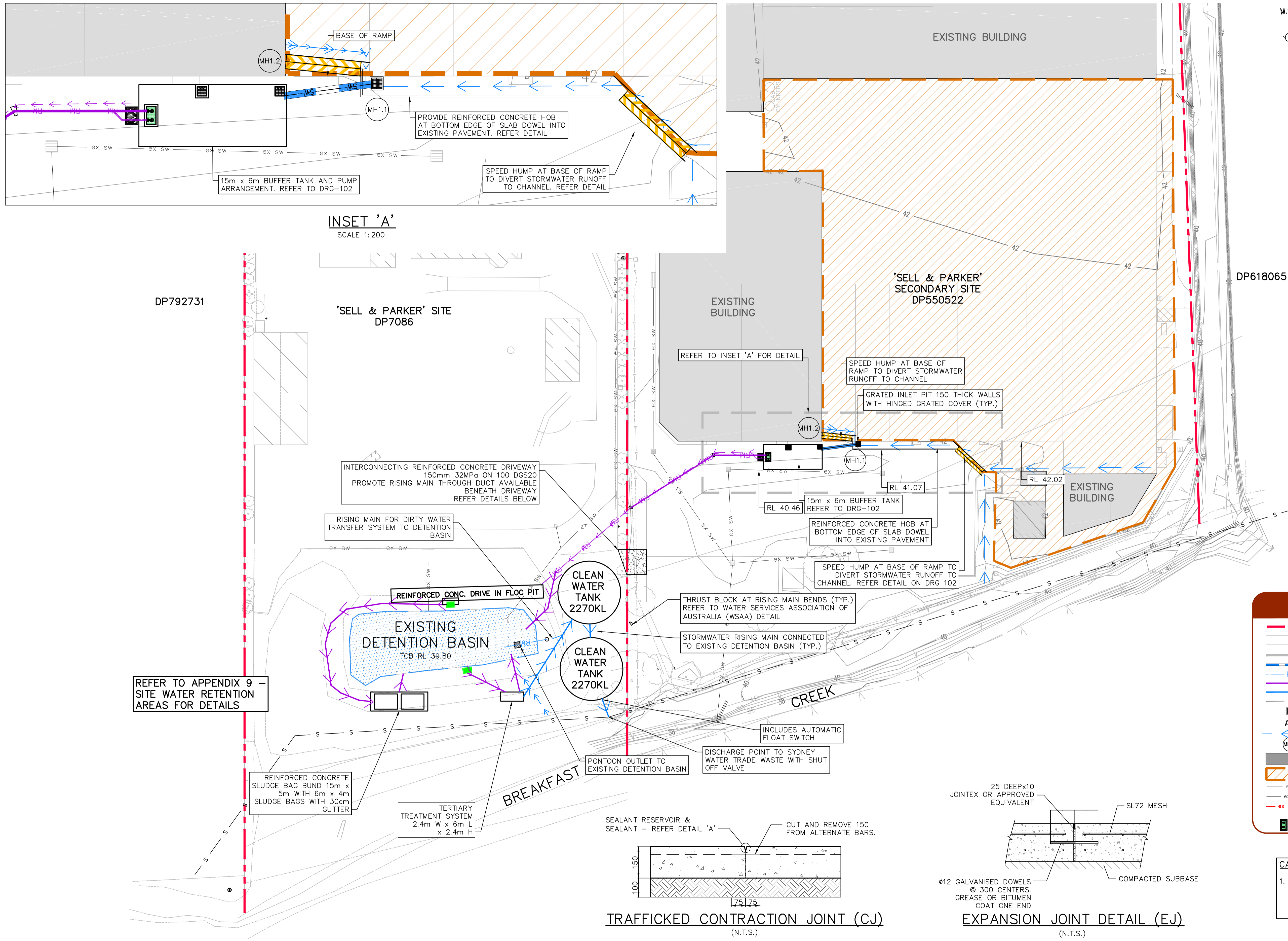
ver.	date	comment	drawn	pm	level information	scale (A3 original size)	notes
E	12.07.17	GENERAL AMENDMENTS	KT	ML	DATUM: N/A CONTOUR INTERVAL: N/A	0 25.0 50.0 62.5m SCALE: 1:1250 (FULL)	

- project management
- civil engineering
- infrastructure
- superintendency
- economic analysis
- social impact
- town planning
- surveying
- development feasibility
- visualisation
- urban design

## Appendix 5

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Drainage Plans for Site



- GENERAL NOTES: -**
- SETOUT INFORMATION IS TO BE VERIFIED BY THE CONTRACTOR AGAINST THE PLAN VIEW, LONGITUDINAL SECTIONS AND ELECTRONIC 12D DATA BEFORE BEING USED. IF THERE IS A DISCREPANCY THE SUPERINTENDENT IS TO BE NOTIFIED AND DIRECTION WITH BE PROVIDED IN WRITING BEFORE PROCEEDING.
- CONSTRUCTION JOINTING NOTES: -**
- CJ CONSTRUCTION JOINT EVERY 3m.
  - EJ EXPANSION JOINT EVERY 9m.
- JOINT TO BE MADE AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY THAT IT WILL NOT BE DAMAGED BY SAWING (MAX. 24HRS).

**LEGEND**

- SITE BOUNDARY
- MAJOR CONTOURS
- MINOR CONTOURS
- CATCHMENT BOUNDARY
- PROPOSED STORMWATER
- RM PROPOSED STORMWATER RISING MAIN
- PROPOSED PIPEWORK - DIRTY WATER
- PROPOSED PIPEWORK - TREATED WATER
- S SEWER LINE
- PROPOSED SW PIT
- PROPOSED HEADWALL
- FLOW PATH
- MH.1 PIT LABEL
- EXISTING BUILDING
- CATCHMENT AREA
- ex s EXISTING SEWER
- ex sw EXISTING STORMWATER
- ex sw EXISTING STORMWATER TO BE REMOVED
- PROPOSED PUMPS

CONTOUR INTERVAL = 0.5m

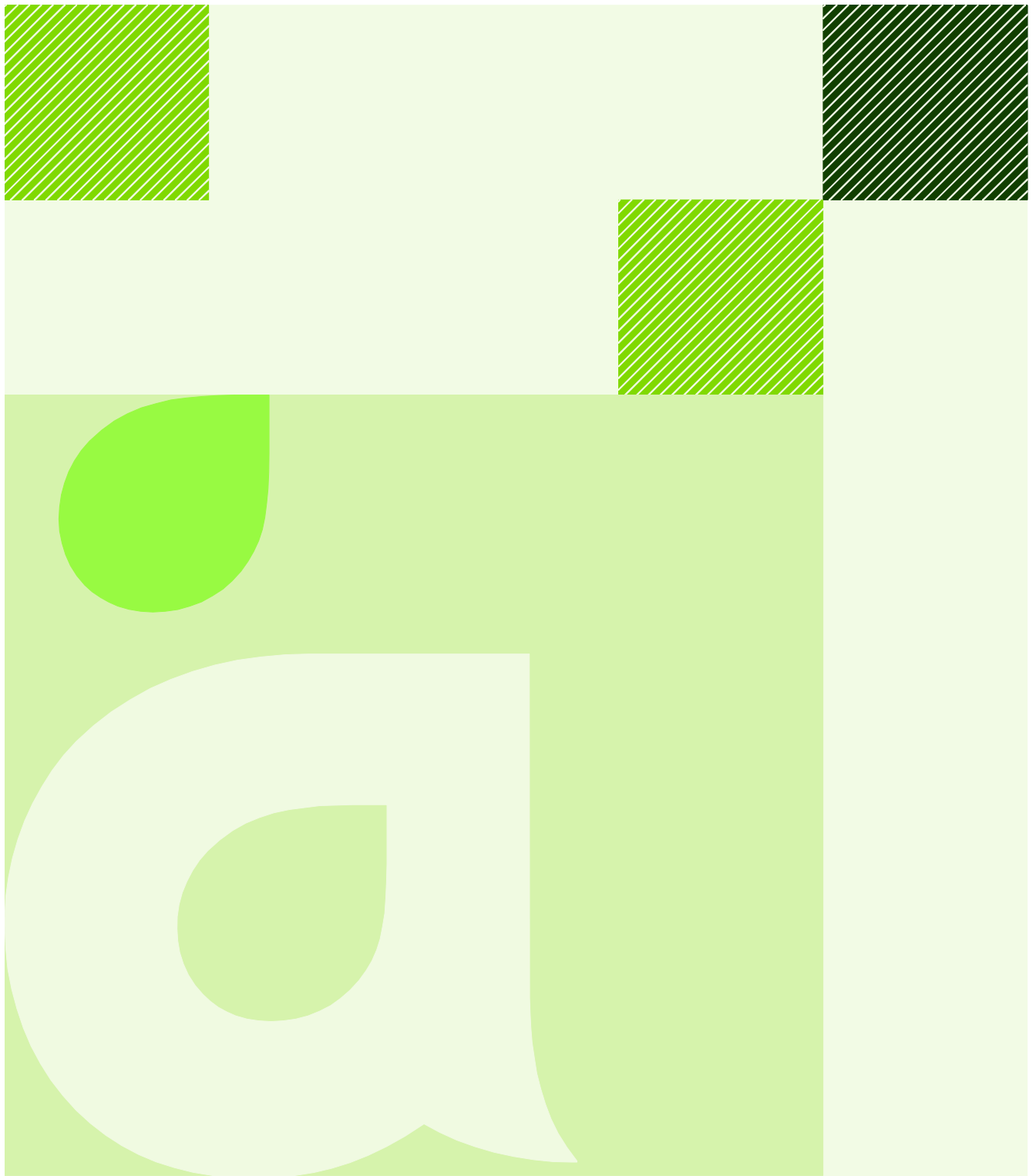
- CAUTIONARY NOTES :**
- IT IS THE RESPONSIBILITY OF THE CIVIL WORKS CONTRACTOR TO DETERMINE THE LOCATION & LEVEL OF EXISTING SERVICES USING NON DESTRUCTIVE METHODS PRIOR TO COMMENCING WORKS ON SITE.

<table border="1"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>AMENDMENT</th> <th>DRAWN</th> <th>CHECK</th> <th>DESIGN</th> <th>VERIFY</th> </tr> </thead> <tbody> <tr> <td>C</td> <td>10/11/2016</td> <td>Issued for client review</td> <td>J.N.</td> <td>M.L.</td> <td>R.C.</td> <td>M.K.</td> </tr> <tr> <td>D</td> <td>18/11/2016</td> <td>Issued for client review</td> <td>B.C.</td> <td>M.L.</td> <td>M.K.</td> <td>M.K.</td> </tr> <tr> <td>E</td> <td>22/11/2016</td> <td>Client amendments</td> <td>B.C.</td> <td>M.L.</td> <td>M.K.</td> <td>M.K.</td> </tr> <tr> <td>F</td> <td>9/12/2016</td> <td>Client Amendments</td> <td>A.M.</td> <td>M.L.</td> <td>M.K.</td> <td>M.K.</td> </tr> <tr> <td>G</td> <td>3/03/2017</td> <td>General Amendments</td> <td>M.L.</td> <td>M.L.</td> <td>M.K.</td> <td>M.K.</td> </tr> <tr> <td>H</td> <td>8/03/2017</td> <td>Sewer Line Added</td> <td>M.L.</td> <td>M.L.</td> <td>M.K.</td> <td>M.K.</td> </tr> <tr> <td>I</td> <td>22/05/2017</td> <td>General Amendments</td> <td>M.F.</td> <td>M.L.</td> <td>M.K.</td> <td>M.K.</td> </tr> <tr> <td>J</td> <td>02/06/2017</td> <td>General Amendments</td> <td>M.F.</td> <td>M.L.</td> <td>M.K.</td> <td>M.K.</td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	C	10/11/2016	Issued for client review	J.N.	M.L.	R.C.	M.K.	D	18/11/2016	Issued for client review	B.C.	M.L.	M.K.	M.K.	E	22/11/2016	Client amendments	B.C.	M.L.	M.K.	M.K.	F	9/12/2016	Client Amendments	A.M.	M.L.	M.K.	M.K.	G	3/03/2017	General Amendments	M.L.	M.L.	M.K.	M.K.	H	8/03/2017	Sewer Line Added	M.L.	M.L.	M.K.	M.K.	I	22/05/2017	General Amendments	M.F.	M.L.	M.K.	M.K.	J	02/06/2017	General Amendments	M.F.	M.L.	M.K.	M.K.	<p>100mm AT FULL SIZE</p> <p>SCALE: 1:200</p> <p>SCALE: 1:500 / 1:1000</p> <p>ALL DIMENSIONS ARE IN METRES. DO NOT SCALE</p>	<p><b>Hunter Office</b> Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398</p>	<p>CLIENT</p> <p><b>SELL &amp; PARKER</b></p>	<p>PROPERTY DESCRIPTION</p> <p>LOT 2 D.P.550522 LOT 5 D.P.7086 &amp; LOT 100 D.P.792731</p>	<p>PROJECT</p> <p><b>EXISTING RECYCLING CENTRE</b></p>	<p>PLAN TITLE</p> <p>DETAIL PLAN 23 TATTERSALL ROAD</p>	<p>SURVEYED</p> <p>ADW Johnson</p>	<p>DATUM</p> <p>A.H.D.</p>	<p>PROJECT No.</p> <p>190337</p>	<p>DISCIPLINE</p> <p>ENG</p>	<p>NUMBER</p> <p>101</p>	<p>REV.</p> <p>J</p>
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY																																																																					
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J	02/06/2017	General Amendments	M.F.	M.L.	M.K.	M.K.																																																																					

## Appendix 6

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Aurecon – March 2016



**aurecon**

**21-45 Tattersall Road, Kings Park,  
NSW**

**Stormwater Management Report  
Sell and Parker Pty Ltd**

**23 March 2016**

**Revision: 1**

**Reference: 251023-001**

# Document control record

Document prepared by:

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<b>Report title</b>		Stormwater Management Report				
<b>Document ID</b>		<b>Project number</b>		251023-001		
<b>File path</b>		P:\CIV\22833-001-01\Bids & Proposals\9_Water_Environment\Z_All\2015\23-43 and 45 Tattersall Road, Blacktown\Design\Stormwater drainage				
<b>Client</b>		Sell and Parker Pty Ltd		<b>Client contact</b>		
<b>Rev</b>	<b>Date</b>	<b>Revision details/status</b>	<b>Prepared by</b>	<b>Author</b>	<b>Verifier</b>	<b>Approver</b>
1	23 March 2016	First issue	MM	MM	IW	IW
<b>Current revision</b>		1				

# 21-45 Tattersall Road, Kings Park, NSW

Date 23 March 2016  
Reference 251023-001  
Revision 1

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1.2	Local flood assessment	2
<b>2</b>	<b>Stormwater OSD Basin Proposed Design</b>	<b>Error! Bookmark not defined.</b>
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2.2	Proposed On site detention outflows	<b>Error! Bookmark not defined.</b>
<b>3</b>	<b>Proposed Design performance.</b>	<b>Error! Bookmark not defined.</b>
3.1	Modelling of the proposed design	2
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<b>4</b>	<b>Options and Considerations</b>	<b>Error! Bookmark not defined.</b>
4.1	Options analysis	<b>Error! Bookmark not defined.</b>
4.2	Site stormwater drainage considerations	<b>Error! Bookmark not defined.</b>

## Appendices

### Appendix A

Site photos

### Appendix B

Proposed Design

### Appendix C

Model

### Appendix D

Results

# 1 Introduction

## 1.1 Project background

Sell & Parker Pty Ltd manages a Waste Metal Recovery, Processing and Recycling Facility located at 45, Tattersall Road, in Kings Park (Lot 5 / DP 7086)

They are planning to annex to their facility adjoining lot, 23-43 Tattersall Road (Lot 2 / DP550 522). This entails a 217% increase of the facility area.

A Development Application has been submitted with this purpose, which due to the nature of the business is being processed as a State Significant Development. The proposed development is located within Blacktown City Council local government area.

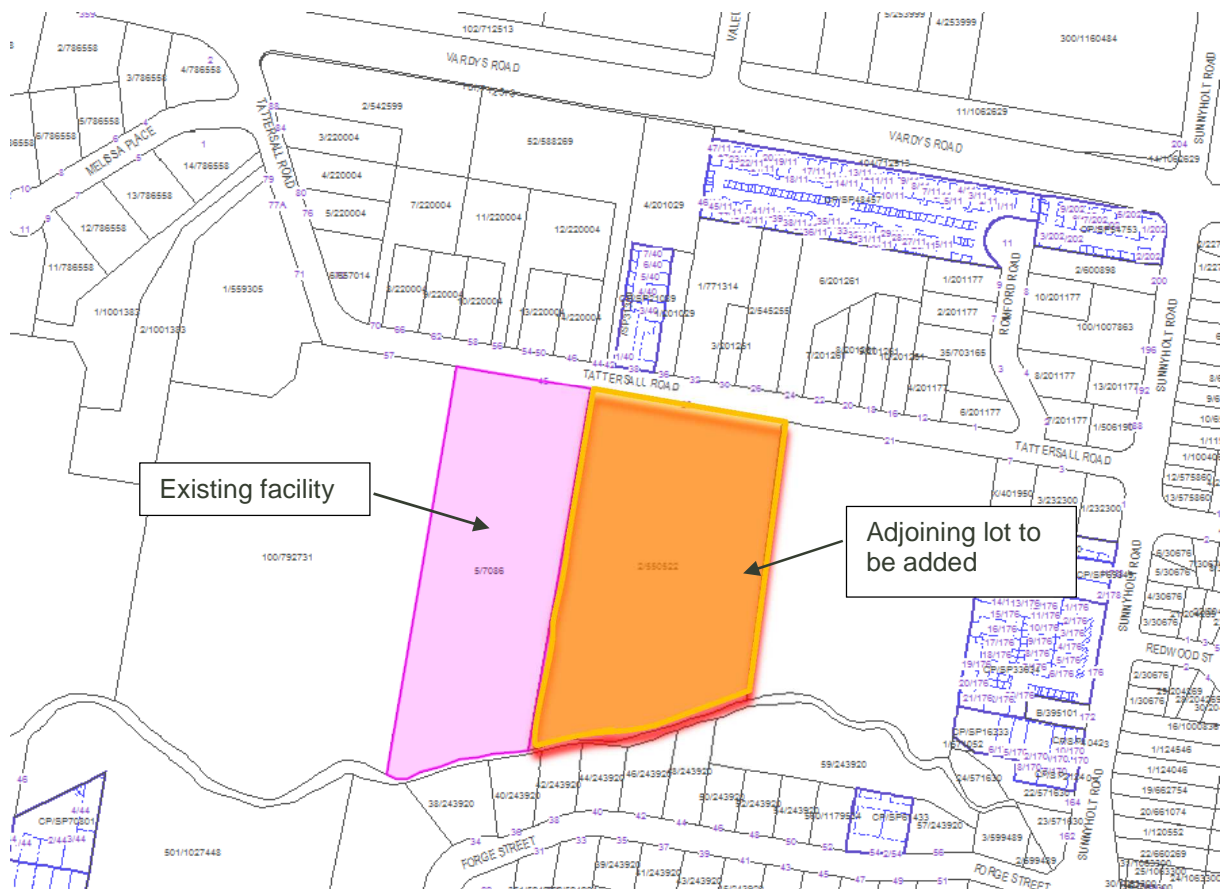


Figure 1-1 Locality plan

## 1.2 Purpose of Report

Aurecon Australasia Pty Ltd has been commissioned by Sell & Parker Pty Ltd to carry out a hydraulic assessment of the detention basin intended to serve the proposed development. The assessment involves modelling the proposed stormwater flows from the site and establishing the design storm ARI at which uncontrolled discharge occurs.

This report will provide sufficient information in response to the EPA's requirement to identify the circumstances under which uncontrolled (i.e. untreated) discharge could occur.

The key activities include;

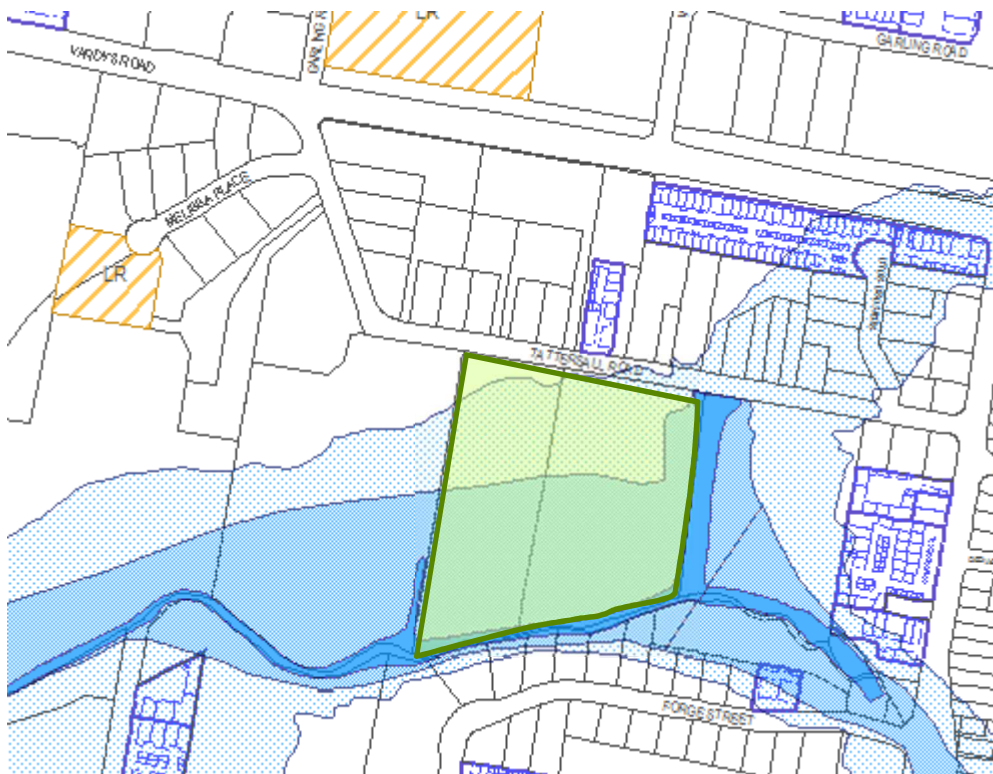
- Review the concept retention design proposed in the stormwater management plan
- Develop a DRAINS model of the concept retention basin to:
- Determine the retention volume required above normal pump operation requirements to achieve no uncontrolled discharge for extreme events up to a 100 year ARI design storm event for standard storm durations up to the 72 hour duration.

Considerations will be given to site constraints, practicable tertiary treatment rate (based upon those provided within the SWMP), size of basin, site requirement for process water.

## 1.3 Local flood assessment

An assessment of Blacktown Council's flood maps indicate that the site is Low/Medium Flood risk Precinct.

Refer to Blacktown City Council – Flooding Precincts map below (extract from BCC MapsOnline).





# 2 Hydraulic Assessment of the Retention Basin Performance

## 2.1 Proposed Design

The design proposes the construction of a concrete basin to retain stormwater prior to the tertiary treatment. Once treated, stormwater is directed to the adjoining Creek (Breakfast Creek).

The assessment has been based upon the following information:

- Email from Sell & Parker dated 5 January 2016
- Meeting with ERM on 15th January 2016
- Architects Layout received 15 March 2016
- Digital topographical survey received 18 March 2016
- Stormwater Management Plan dated June 2015 prepared by ERM
- Letter from EPA (comments on SWMP) dated 28 July 2015
- Stormwater Management Concept Plan dated September 2015 prepared by ERM
- Drawing No. 0313447s\_SMPC\_C001\_R0.cdr
- Drawing No0313442s\_SMCP\_C002\_R0.cdr.

The capacity of this retention basin must be such that no untreated stormwater from the operational areas reaches the channel for recurrence intervals of up to 100 year ARI.

Key elements on the functioning of the system are:

### 2.1.1 On site detention tank

The proposed on site retention design consists on a 32x90m concrete basin. The base of the basin is designed to RL 37.5m (AHD). The outflow from the basin is to be carried out using a floating pump that directs the flow to the tertiary treatment (Hydroceptor).

An emergency overflow weir is to be provided at RL 40.3m AHD. All flows reaching the overflow will flow directly to the creek by-passing the tertiary treatment.

Appendix 1 shows the proposed design for the basin.

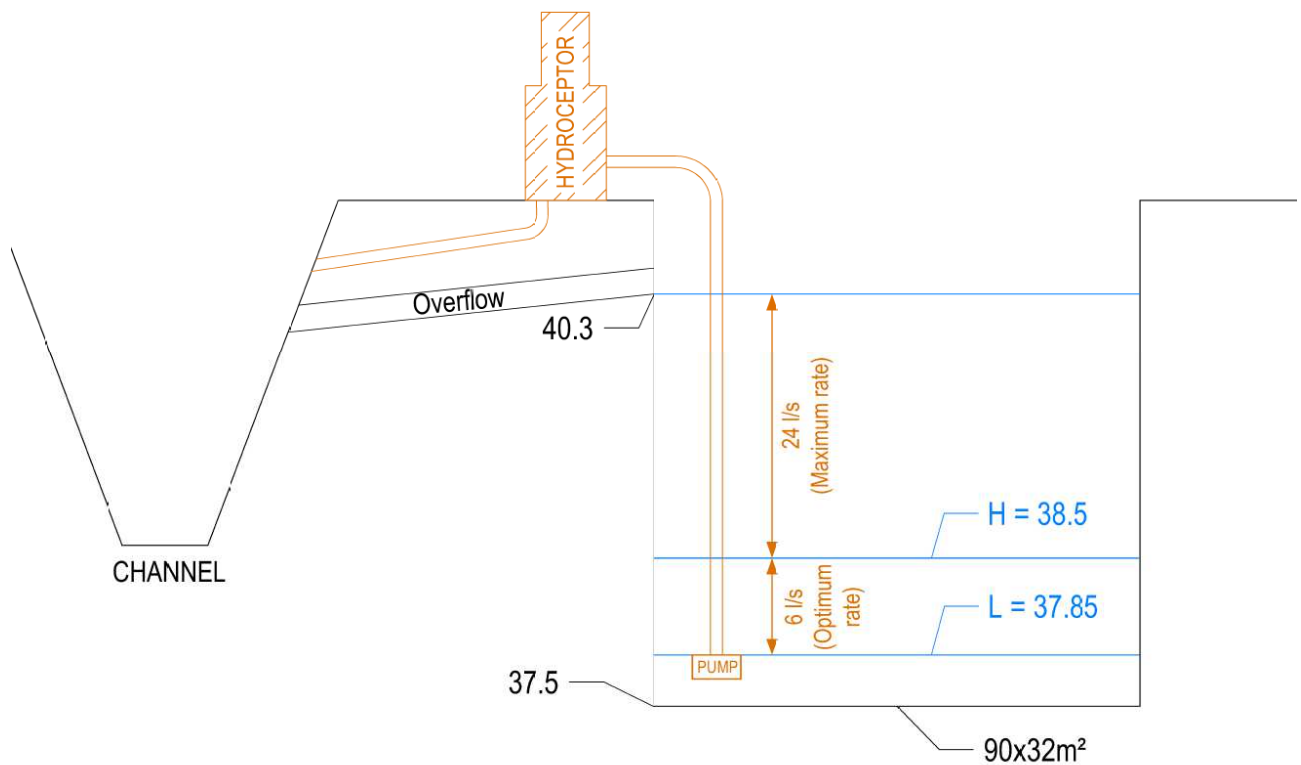
### 2.1.2 Pump – Tertiary treatment

Water from the basin is pumped to the tertiary treatment (Hydroceptor) located besides it. This pump is the only basin outflow, therefore the only possible outlet for the basin is the overflow to the channel mentioned in the basin description.

According to the proposed design, pump operation conditions are as follows;

Pump rate	Rate	Operation levels
Pump Optimum rate	6l/s	0.35 to 1m
Pump Maximum rate	24l/s	> 1m

Table 2-1 Pump rates



## 2.2 Hydraulic Modelling

A hydraulic assessment of the detention basin intended to serve the proposed development was undertaken to assess the performance of the proposed design and the effects of possible upgrades to it.

The DRAINS software package by Watercom was used to model the hydrological and hydraulic performance of the proposed OSD basin in this site. DRAINS is a 1-dimensional storm water drainage design and analysis tool developed for Australian practice.

The ILSAX hydrological model function was adopted for the project.

### 2.2.1 Catchment to basin definition

The contributing drainage area for the OSD was identified based upon plans provided by Sell & Parker Pty Ltd and confirmed during the site visit conducted on the 9th of March. Main findings in this respect are:

- All buildings are drained via gutters and downpipes directing the stormwater from the roofs to

rainwater tanks and/or to outfall structures which discharge to the existing stormwater system.

- North area of the lot to add (carpark and building surroundings) drains separately. (As noted within site visit and not updated on drawings, refer to catchment plan for details)
- Drainage for carpark located on the South is assumed independent as well. During detailed design, site grading will be defined to ensure that separation between carpark and operational catchments is guaranteed. Confirmation of the validity of this assumption from the EPA will be requested.

Resulting catchment area draining to the basin is shown in Appendix C.

## 2.2.2 Hydraulic parameters

The DRAINS modelling parameters adopted for this study are summarised in Table below

Parameter	Value
Total Catchment area (ha)	2,92
Percentage impervious (%)	100
Time of concentration (min)-	5

Table 2-2 DRAINS modelling parameters

## 2.2.3 Hydrology data

Rainfall intensities were obtained from the Bureau of Meteorology (BOM) using the 1987 Australia Rainfall and Runoff (AR&R87) design flood estimation. This data was used to undertake the hydrologic analysis. List of the Intensity Frequency Duration (IDF) data obtained from BOM is showed at the table below:

Duration	1 Year	2 years	5 years	10 years	20 years	50 years	100 years
5Mins	79.2	102	130	147	169	197	218
6Mins	74.1	95.3	122	138	158	185	205
10Mins	60.7	77.9	99.8	112	129	151	167
20Mins	44.2	56.8	72.5	81.5	93.5	109	121
30Mins	35.9	46.1	58.8	66.1	75.8	88.4	97.4
1Hr	24.4	31.3	40.0	45.0	51.6	60.2	66.0
2Hrs	16.2	20.8	26.6	29.9	34.4	40.2	43.4
3Hrs	12.6	16.3	20.9	23.5	27.0	31.6	33.7
6Hrs	8.28	10.7	13.7	15.5	17.9	20.9	21.9
12Hrs	5.40	6.97	9.05	10.3	11.9	13.9	14.4
24Hrs	3.45	4.48	5.91	6.75	7.85	9.30	7.6
48Hrs	2.13	2.78	3.75	4.33	5.09	6.09	6.4
72Hrs	1.56	2.05	2.80	3.26	3.84	4.63	4.9

Table 2-3 Design rainfall intensities

## 2.3 Model simulation

DRAINS model was configured for the defined catchment to determine the peak water levels on the basin for different rainfall durations, up to 72h duration, and for 5, 10, 20, 50 and 100 year Average Recurrence Interval (ARI)

The analyses showed that water levels on the basin will stay below the overflow for up to 50 years ARI, so 1 in 50 years events, but uncontrolled discharges are expected for 1 in 100 year storms for long duration events (36-72h duration):

Storm	Basin overflow peak flow		
	20y	50y	100y
AR&R 100 year, 5 minutes storm, average 218 mm/h, Zone 1	0	0	0
AR&R 100 year, 30 minutes storm, average 97.4 mm/h, Zone 1	0	0	0
AR&R 100 year, 1 hour storm, average 66.0 mm/h, Zone 1	0	0	0
AR&R 100 year, 2 hours storm, average 43.4 mm/h, Zone 1	0	0	0
AR&R 100 year, 3 hours storm, average 33.7 mm/h, Zone 1	0	0	0
AR&R 100 year, 6 hours storm, average 21.9 mm/h, Zone 1	0	0	0
AR&R 100 year, 12 hours storm, average 14.4 mm/h, Zone 1	0	0	0
AR&R 100 year, 24 hours storm, average 9.6 mm/h, Zone 1	0	0	0
AR&R 100 year, 36 hours storm, average 7.6 mm/h, Zone 1	0	0	0.041
AR&R 100 year, 48 hours storm, average 6.4 mm/h, Zone 1	0	0	0.071
AR&R 100 year, 72 hours storm, average 4.9 mm/h, Zone 1	0	0	0.137

Table 2-4 Basin overflow peak flows for different ARI and storm durations

Results show that provided the big capacity of the basin and the relatively low rates for the pump, long duration rainfall events generates the worst scenario for the system functioning.

These calculations have been undertaken considering the basin is empty at the time when the rainfall events start. This is therefore quite unlikely provided the high emptying time required for the proposed pumping rates:

Initial/final level	Outflow (l/s)	Emptying times
Overflow to H	24l/s	2.5days
H to L	6l/s	3.6days
	<b>Total:</b>	<b>6.1days</b>

Table 2-5 Emptying times for the proposed pump rates



# 3 Findings and Recommendations

An assessment of the possible options has been undertaken in order to quantify the magnitude of the required changes to the proposed design.

## 3.1 Options analysis

### 3.1.1 Pump capacity increment

As mentioned herein, proposed pump capacity is deemed insufficient to reduce expected water volumes in the basin during and after the rainfall events. In particular long duration rainfall events for high ARI.

#### 3.1.1.1 Pump working at maximum rate at any time

A first consideration has been done to the option of setting the system to have the pump working at the maximum rate from the initial low level in which it is activated.

This slightly reduces maximum water levels in the basin for 100y ARI, but the results show that the overflow level is still reached (as showed in appendix D) and consequently uncontrolled discharges are not avoided by implementing this measure.

Nevertheless, emptying time is significantly reduced to less than a half of the required time, as shown in Table 3-1.

#### 3.1.1.2 Addition of a second pump

Assuming that the pump rate is conditioned by the Hydroceptor, it is assumed that pump capacity increment can only be done by adding additional Hydroceptors.

In the case that a second Hydroceptor is provided flow rates will be doubled. Under this scenario, and considering that the basin is empty at the time when the rainfall starts, the system would work for 100y ARI, as water levels on the basin would not reach the overflow.

This result is based on the premise of having the carpark located on the South of the site excluded of the catchment area. If it needs to be considered as an operational area, the increase of the catchment area will cause the overflow to operate for the 100 year ARI, with 2 pumps operating at the proposed rates showed in Table 2-1.

Increasing the outflow from the basin with a second pump will also reduce emptying time between rainfall events, as shown in Table 3-1. This measure is considered necessary to ensure that the capacity of the basin is not reduced due to water volumes from previous storm events.



Initial/final level	1pump / Proposed rates		1pump / Maximum rate only		2pumps / Proposed rates		2pumps / Maximum rate only	
	rate (l/s)	Emptying time	rate (l/s)	Emptying time	rate (l/s)	Emptying time	Rate (l/s)	Emptying time
Overflow to H	24l/s	2.5days	24l/s	2.5days	48l/s	1.3days	48l/s	1.3days
H to L	6l/s	3.6days	24l/s	0.9days	12l/s	1.8days	48l/s	0.45days
	<b>Total:</b>	<b>6.1days</b>	<b>Total:</b>	<b>3.4days</b>	<b>Total:</b>	<b>3.1days</b>	<b>Total:</b>	<b>1.7days</b>

Table 3-1 Emptying times comparison for proposed/increased pump rates

### 3.1.2 Basin dimensions increment

A calculation has been undertaken to estimate required basin surface to ensure sufficient capacity to avoid water levels reaching the overflow for the initial scenario of one pump working at the designated rates.

Again, these calculations assume that the basin is initially empty for any storm and that the carpark located on the South of the site has an independent drainage.

Results show that a 510m<sup>2</sup> bigger basin would be required to prevent uncontrolled flows for 100y ARI storms:

Initially proposed dimensions		Required dimensions for 100y ARI	
90x32m	(2880m <sup>2</sup> )	90x37.7m	(3390m <sup>2</sup> )

Table 3-2 Required basin dimensions for 100y ARI

### 3.1.3 Increase the basin depth

Results show that required basin depth (level difference overflow-bottom) for a 2880m<sup>2</sup> basin area would be 3.35m, so 0.55m higher than the proposed design.

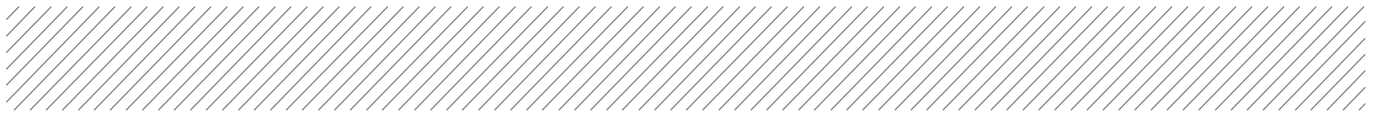
A basin depth increment can only be reached by lowering the basin base, as raising the overflow level would generate flood problems on the site.

## 3.2 Conclusions

Permutations of these measures should be considered during detailed design stage, in order to reach an optimal and feasible solution that prevents uncontrolled discharge for the 100y ARI events.

As mentioned, increasing pump rates is highly recommended. Emptying times are excessively large, which entails basin capacity reduction.

Proposed design shows low points on site, which lowers down the stormwater system and may contribute to upwelling. It is recommended that a site grading is conducted in the design phase.

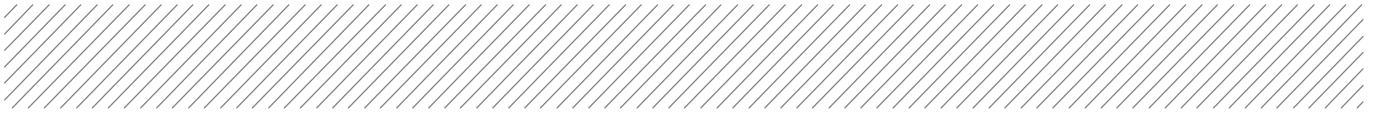


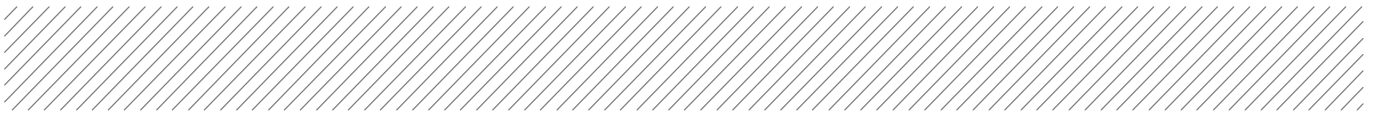
# Appendix A

## Site photos

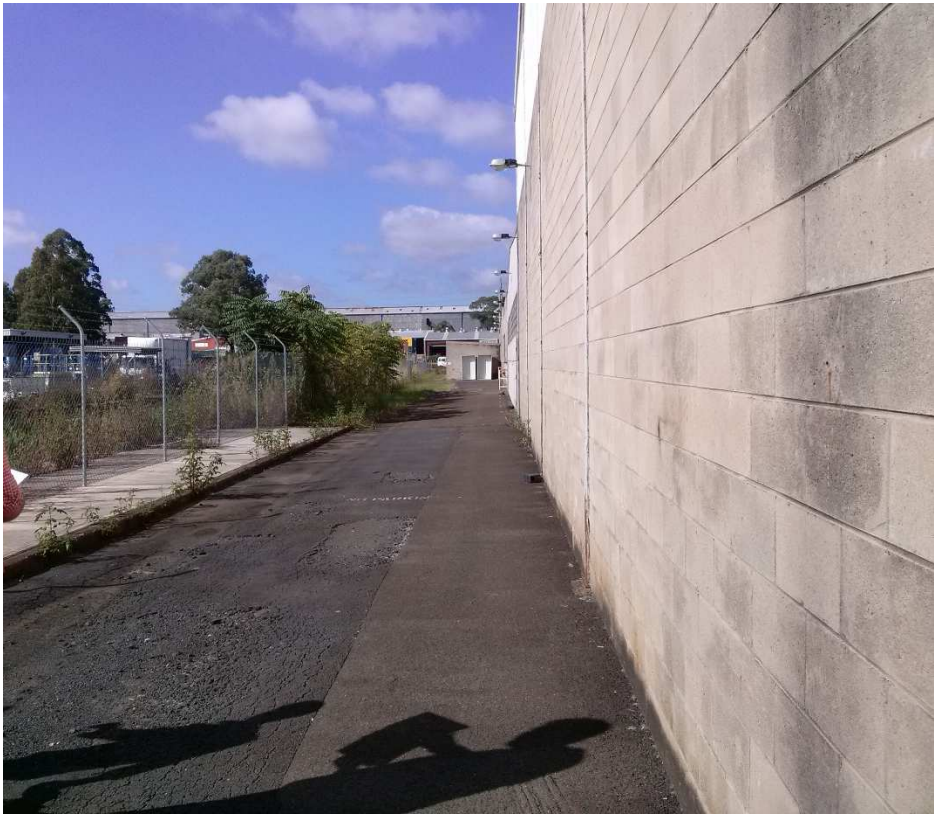
Existing facility, 45, Tattersall Road

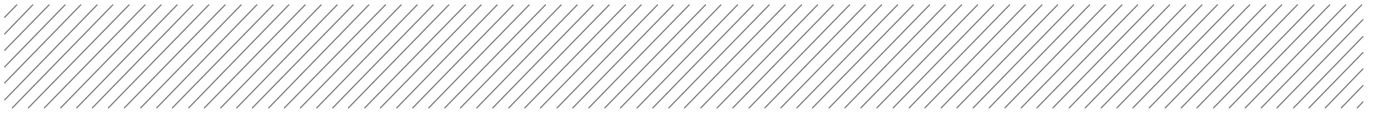


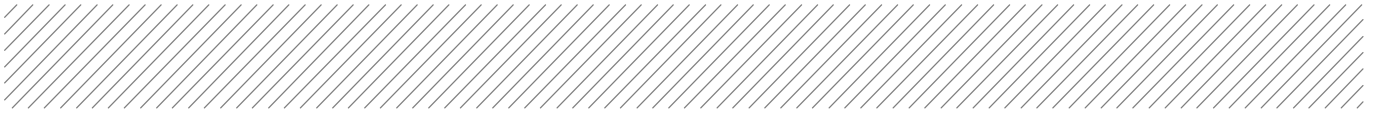




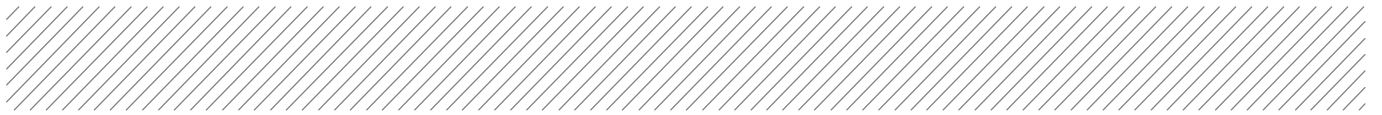
Adjoining lot to annex, 23-43 Tattersall Road







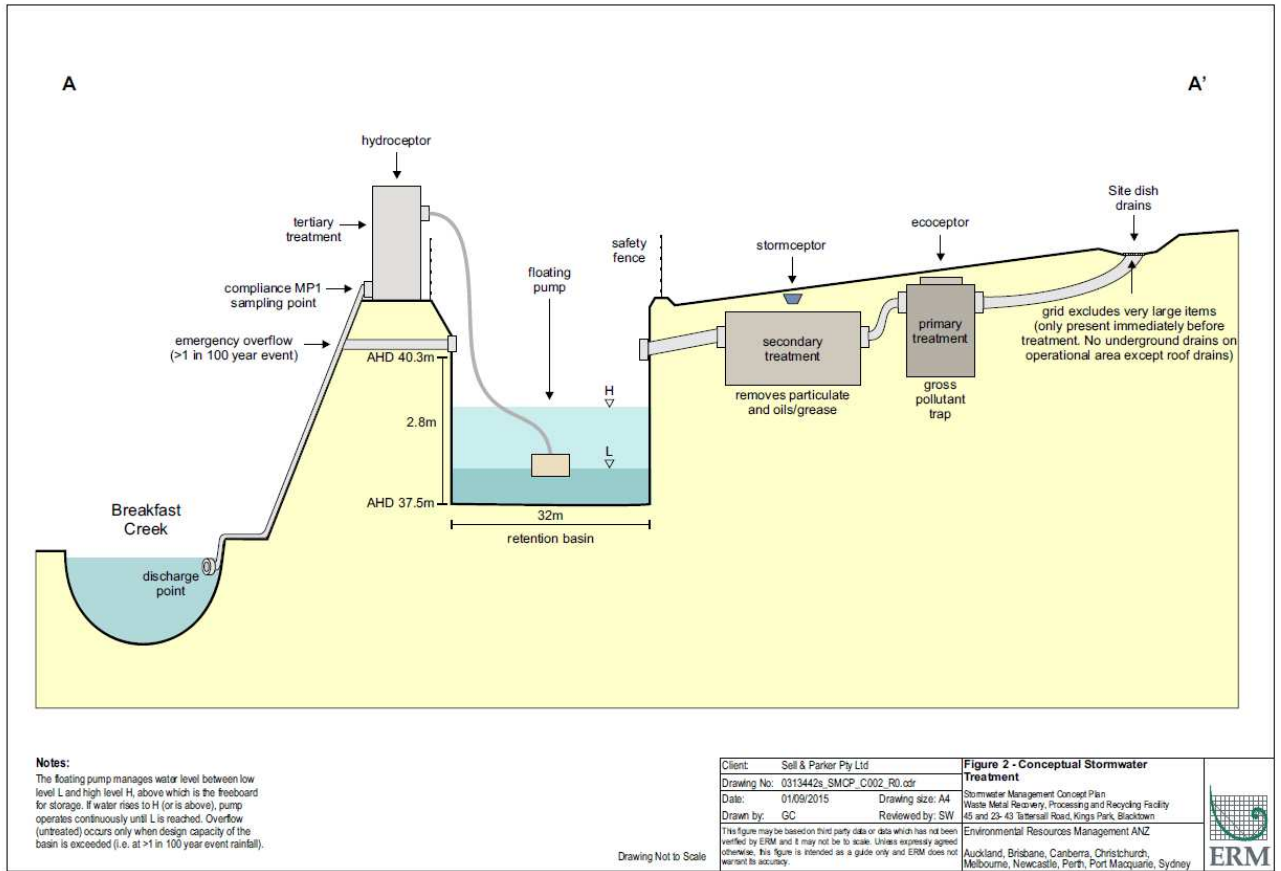




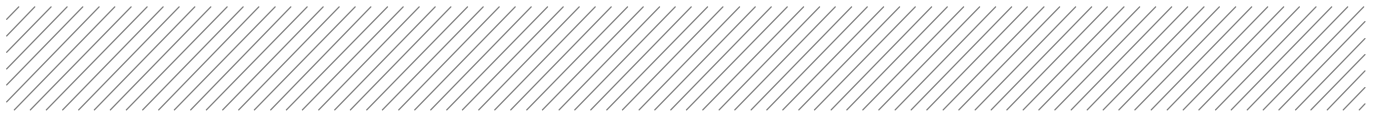
# Appendix B

## Proposed Design

# OSD







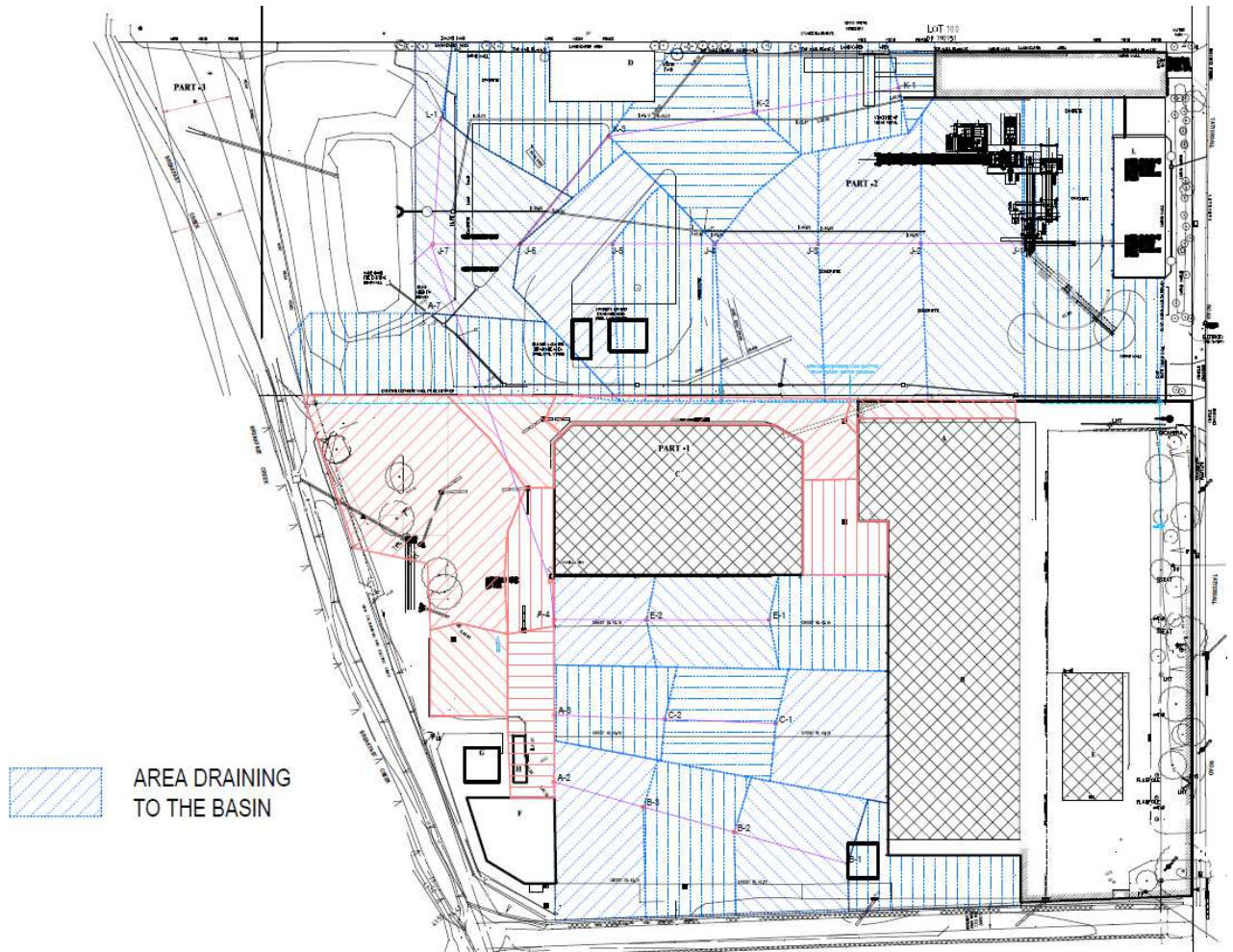
# Appendix C

## Model

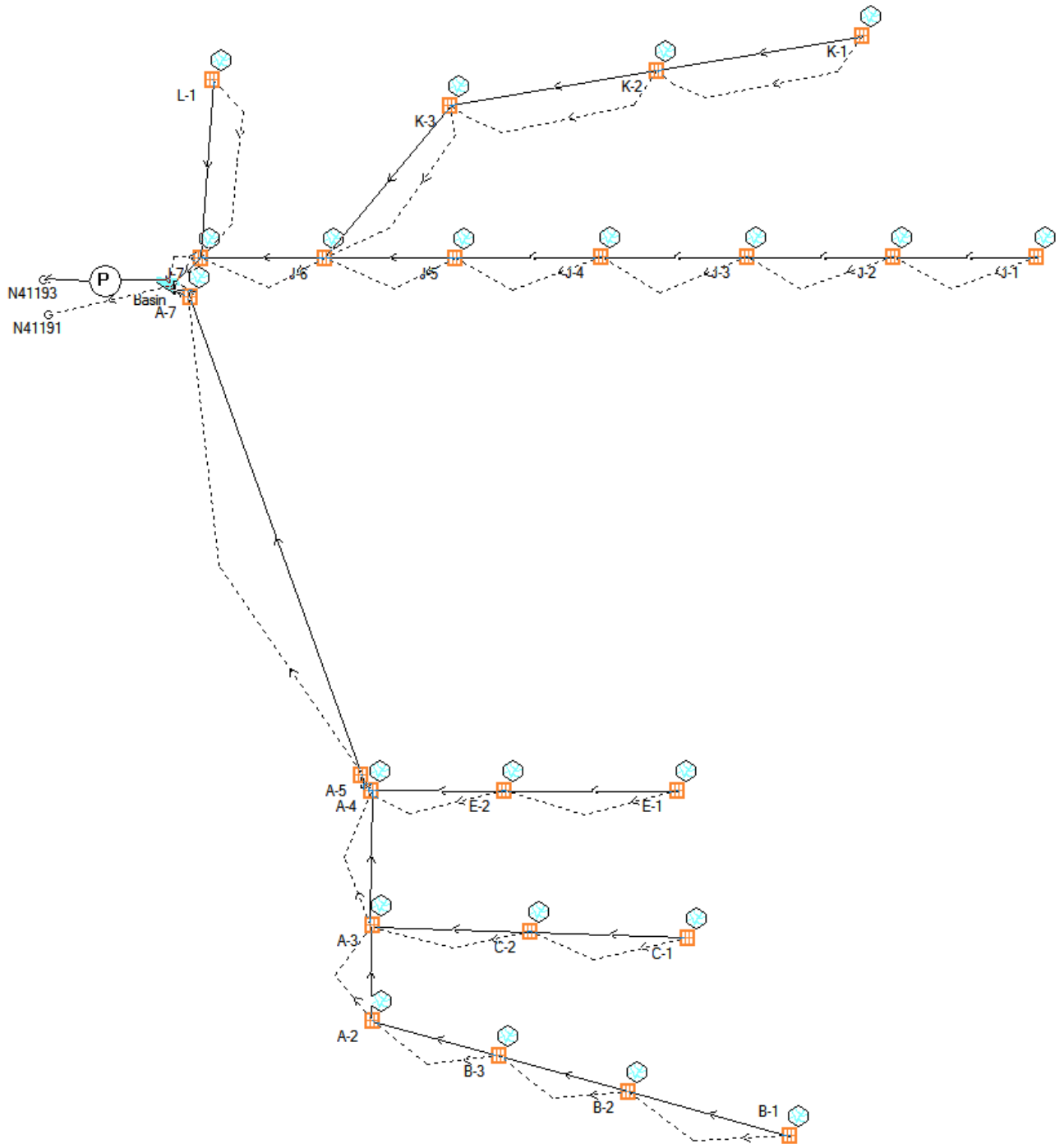
**Drainage Model**

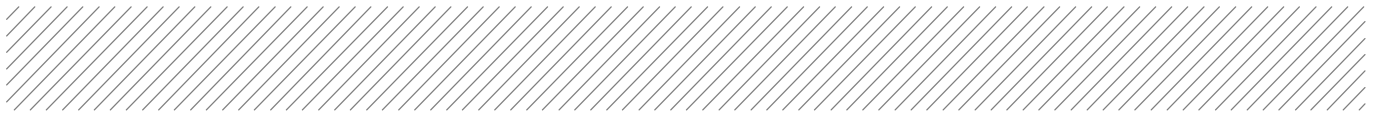
**Catchment areas**

## Catchment Areas



## Drains model





# Appendix D

## Results

**PROPOSED DESIGN**

Storm	Basin weir Peak Flow		
	20y	50y	100y
AR&R 100 year, 5 minutes storm, average 218 mm/h, Zone 1	0	0	0
AR&R 100 year, 30 minutes storm, average 97.4 mm/h, Zone 1	0	0	0
AR&R 100 year, 1 hour storm, average 66.0 mm/h, Zone 1	0	0	0
AR&R 100 year, 2 hours storm, average 43.4 mm/h, Zone 1	0	0	0
AR&R 100 year, 3 hours storm, average 33.7 mm/h, Zone 1	0	0	0
AR&R 100 year, 6 hours storm, average 21.9 mm/h, Zone 1	0	0	0
AR&R 100 year, 12 hours storm, average 14.4 mm/h, Zone 1	0	0	0
AR&R 100 year, 24 hours storm, average 9.6 mm/h, Zone 1	0	0	0
AR&R 100 year, 36 hours storm, average 7.6 mm/h, Zone 1	0	0	0.041
AR&R 100 year, 48 hours storm, average 6.4 mm/h, Zone 1	0	0	0.071
AR&R 100 year, 72 hours storm, average 4.9 mm/h, Zone 1	0	0	0.137
Worst case	0	0	0.137

**INCREASING PUMPS CAPACITY**

Assumption: pump working at maximum rate at any time:  
 Pumps Optimum rate: 0.024 m3/s  
 Pumps Maximum rate: 0.024 m3/s

Storm	Basin weir Peak Flow	
	100y	50y
AR&R 100 year, 5 minutes storm, average 218 mm/h, Zone 1	0	0
AR&R 100 year, 30 minutes storm, average 97.4 mm/h, Zone 1	0	0
AR&R 100 year, 45 minutes storm, average 77.9 mm/h, Zone 1	0	0
AR&R 100 year, 1 hour storm, average 66.0 mm/h, Zone 1	0	0
AR&R 100 year, 2 hours storm, average 43.4 mm/h, Zone 1	0	0
AR&R 100 year, 3 hours storm, average 33.7 mm/h, Zone 1	0	0
AR&R 100 year, 6 hours storm, average 21.9 mm/h, Zone 1	0	0
AR&R 100 year, 12 hours storm, average 14.4 mm/h, Zone 1	0	0
AR&R 100 year, 24 hours storm, average 9.6 mm/h, Zone 1	0	0
AR&R 100 year, 36 hours storm, average 7.6 mm/h, Zone 1	0.029m	0
AR&R 100 year, 48 hours storm, average 6.4 mm/h, Zone 1	0.06m	0
AR&R 100 year, 72 hours storm, average 4.9 mm/h, Zone 1	0.134m	0
Worst case	0.134m	0

Assumption: addition of a second hydroceptor (so 2 pumps):  
 Pumps Optimum rate: 0.012 m3/s  
 Pumps Maximum rate: 0.048 m3/s

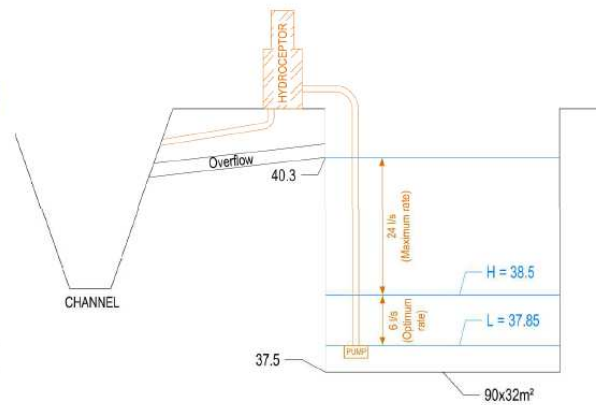
Storm	Basin weir Peak Flow	
	100y	50y
AR&R 100 year, 5 minutes storm, average 218 mm/h, Zone 1	0	0
AR&R 100 year, 30 minutes storm, average 97.4 mm/h, Zone 1	0	0
AR&R 100 year, 45 minutes storm, average 77.9 mm/h, Zone 1	0	0
AR&R 100 year, 1 hour storm, average 66.0 mm/h, Zone 1	0	0
AR&R 100 year, 2 hours storm, average 43.4 mm/h, Zone 1	0	0
AR&R 100 year, 3 hours storm, average 33.7 mm/h, Zone 1	0	0
AR&R 100 year, 6 hours storm, average 21.9 mm/h, Zone 1	0	0
AR&R 100 year, 12 hours storm, average 14.4 mm/h, Zone 1	0	0
AR&R 100 year, 24 hours storm, average 9.6 mm/h, Zone 1	0	0
AR&R 100 year, 36 hours storm, average 7.6 mm/h, Zone 1	0	0
AR&R 100 year, 48 hours storm, average 6.4 mm/h, Zone 1	0	0
AR&R 100 year, 72 hours storm, average 4.9 mm/h, Zone 1	0	0
Worst case	0	0

**INCREASING BASIN DIMENSIONS**

Initially: 32x90 (2880sqm) 8064m<sup>3</sup>

if 37.7x90 (3390sqm) 9492m<sup>3</sup>

Storm	Basin weir Peak Flow	
	100y	50y
AR&R 100 year, 5 minutes storm, average 218 mm/h, Zone 1	0	0
AR&R 100 year, 30 minutes storm, average 97.4 mm/h, Zone 1	0	0
AR&R 100 year, 45 minutes storm, average 77.9 mm/h, Zone 1	0	0
AR&R 100 year, 1 hour storm, average 66.0 mm/h, Zone 1	0	0
AR&R 100 year, 2 hours storm, average 43.4 mm/h, Zone 1	0	0
AR&R 100 year, 3 hours storm, average 33.7 mm/h, Zone 1	0	0
AR&R 100 year, 6 hours storm, average 21.9 mm/h, Zone 1	0	0
AR&R 100 year, 12 hours storm, average 14.4 mm/h, Zone 1	0	0
AR&R 100 year, 24 hours storm, average 9.6 mm/h, Zone 1	0	0
AR&R 100 year, 36 hours storm, average 7.6 mm/h, Zone 1	0	0
AR&R 100 year, 48 hours storm, average 6.4 mm/h, Zone 1	0	0
AR&R 100 year, 72 hours storm, average 4.9 mm/h, Zone 1	0	0
Worst case	0	0



**RAISING BASIN OVERFLOW**

To 40.85: (lots of upwellings) 2.8  
 No flow on weir 3.35

**BASIN EMPTYING TIMES**

<b>Time to empty from H to L:</b>	<b>Volume:</b> 1872
	Pump flow 6.0l/s (H to L)
<b>Time:</b>	87h <b>3.6days</b>

<b>Time to empty from Overflow to H:</b>	<b>Volume:</b> 5184
	Pump flow 24.0l/s (O to H)
<b>Time:</b>	60h <b>2.5days</b>

**TOTAL: 6.1days**

1 pump at max rate only (24/s):

<b>Time to empty from Overflow to L:</b>	<b>Volume:</b> 1872
	Pump flow: 24.0l/s (H to L) 24.0l/s (O to H)
<b>Time:</b>	82h <b>3.4days</b>

2 pumps, proposed rates:

<b>Time to empty from H to L:</b>	<b>Volume:</b> 1872
	Pump flow 12.0l/s (H to L)
<b>Time:</b>	43h <b>1.8days</b>

<b>Time to empty from Overflow to H:</b>	<b>Volume:</b> 5184
	Pump flow 48.0l/s (O to H)
<b>Time:</b>	30h <b>1.3days</b>

**TOTAL: 3.1days**

2 pumps, max rate:

<b>Time to empty from Overflow to L:</b>	<b>Volume:</b> 1872
	Pump flow: 48.0l/s (H to L) 48.0l/s (O to H)
<b>Time:</b>	41h <b>1.7days</b>





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Swaziland, Tanzania, Thailand, Uganda,  
United Arab Emirates, Vietnam.

## Appendix 7

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Lean Lackenby Hayward 45 Tattersall Road Water Retention Area Calculations

SURFACES:

Design: 41.000 (m)  
 Natural: 59760FEB17VOL - DTM-05

REGION:

Boundary: DTM Boundary

SURFACE AREAS:

Design: 10135.5 (square metres)  
 Natural: 10172.4 (square metres)

PLAN AREAS:

Boundary: 10135.5 (square metres) within the boundary  
 Design: 10135.5 (square metres) within the boundary and within design surface  
 Natural: 10135.5 (square metres)

CUT/FILL/MATCHING AREAS:

Cut: 5248.4 (square metres)  
 Fill: 4887.0 (square metres)  
 Matching: 0.0 (square metres)  
 Total Area: 10135.5 (square metres)

VOLUMES:

Cut to Fill Ratio: 1.839  
 Cut: 1889.6 (cubic metres)  
 Fill: 1027.2 (cubic metres)  
 Net: 862.3 (cubic metres) [cut]  
 Cut: 0.4 (cubic metres) / (square metres)  
 Fill: 0.2 (cubic metres) / (square metres)  
 Average Cut Depth: 0.4 (m)  
 Maximum Cut Depth: 3.1 (m)  
 Average Fill Depth: 0.2 (m)  
 Maximum Fill Depth: 1.0 (m)

COMPUTATION VIA SLICED PRISMS

REGION:

Boundary: DTM Boundary

SLICES PARAMETERS:

Slices Interval: 0.250 (m)  
 Number of Slices: 17

VOLUMES SLICE-BY-SLICE:

From Rl	To Rl	Cut Vol	Cumulative Cut	Fill vol	Cumulative Fill	Net Vol	Cumulative Net	slice
Cut Area	slice	Fill Area						
40.03	40.25	0.0	0.0	0.3	0.3	0.3F	0.3F	
0.0		5.5						
40.25	40.50	0.0	0.0	8.9	9.2	8.9F	9.2F	
0.0		173.5						
40.50	40.75	0.0	0.0	190.7	199.9	190.7F	199.9F	
0.0		1821.5						
40.75	41.00	0.0	0.0	827.4	1027.2	827.4F	1027.2F	
0.0		4887.0						
41.00	41.25	970.8	970.8	0.0	1027.2	970.8C	56.5F	
2730.9		0.0						
41.25	41.50	482.7	1453.4	0.0	1027.2	482.7C	426.2C	
1053.3		0.0						

41.50	41.75	125.4	1578.8	0.0	1027.2	125.4C	551.6C
383.6		0.0					
41.75	42.00	83.1	1661.9	0.0	1027.2	83.1C	634.7C
281.8		0.0					
42.00	42.25	58.0	1719.9	0.0	1027.2	58.0C	692.7C
187.6		0.0					
42.25	42.50	43.7	1763.6	0.0	1027.2	43.7C	736.3C
161.1		0.0					
42.50	42.75	36.7	1800.3	0.0	1027.2	36.7C	773.0C
132.3		0.0					
42.75	43.00	29.7	1830.0	0.0	1027.2	29.7C	802.7C
106.1		0.0					

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43.00	43.25	23.5	1853.5	0.0	1027.2	23.5C	826.3C
82.2		0.0					
43.25	43.50	17.6	1871.1	0.0	1027.2	17.6C	843.9C
59.1		0.0					
43.50	43.75	12.0	1883.1	0.0	1027.2	12.0C	855.9C
36.8		0.0					
43.75	44.00	6.3	1889.4	0.0	1027.2	6.3C	862.2C
7.1		0.0					
44.00	44.07	0.2	1889.6	0.0	1027.2	0.2C	862.3C
0.0		0.0					

TOTAL VOLUMES:

=====  
Cut: 1889.6 (cubic metres)  
Fill: 1027.2 (cubic metres)  
Net: 862.3 (cubic metres) [cut]

COMPUTATION VIA RECTANGULAR GRID

GRID ORIGIN:

=====  
X-coordinate: -1181.098  
Y-coordinate: 2370.161

REGION:

=====  
Boundary: DTM Boundary

GRID SPACING:

=====  
X-interval: 1.000  
Y-interval: 1.000

GRID BOUNDARY SIZE AND ANGLE:

=====  
X-size: 150.054  
Y-size: 101.191  
Rotation angle: 0.000 (deg)

PLAN AREAS:

=====  
Boundary: 9828.0 (square metres)  
Design: 9828.0 (square metres)  
Natural: 9828.0 (square metres)

CUT/FILL/MATCHING AREAS:

=====  
Cut: 4868.7 (square metres)  
Fill: 4959.3 (square metres)  
Matching: 0.0 (square metres)  
Total Area: 9828.0 (square metres)

VOLUMES:

=====  
Cut: 1019.7 (cubic metres)  
Fill: 1721.7 (cubic metres)  
Net: 702.0 (cubic metres) [fill]

SURFACES:

Design: 42.200 (m)  
 Natural: 59760FEB17VOL - VOLTURKY

REGION:

Boundary: DTM Boundary

SURFACE AREAS:

Design: 1748.2 (square metres)  
 Natural: 1874.4 (square metres)

PLAN AREAS:

Boundary: 1748.2 (square metres) within the boundary  
 Design: 1748.2 (square metres) within the boundary and within design surface  
 Natural: 1748.2 (square metres)

CUT/FILL/MATCHING AREAS:

Cut: 120.5 (square metres)  
 Fill: 1627.7 (square metres)  
 Matching: 0.0 (square metres)  
 Total Area: 1748.2 (square metres)

VOLUMES:

Cut to Fill Ratio: 0.017  
 Cut: 72.4 (cubic metres)  
 Fill: 4274.3 (cubic metres)  
 Net: 4201.9 (cubic metres) [fill]  
 Cut: 0.6 (cubic metres) / (square metres)  
 Fill: 2.6 (cubic metres) / (square metres)  
 Average Cut Depth: 0.6 (m)  
 Maximum Cut Depth: 1.9 (m)  
 Average Fill Depth: 2.6 (m)  
 Maximum Fill Depth: 3.9 (m)

COMPUTATION VIA SLICED PRISMS

REGION:

Boundary: DTM Boundary

SLICES PARAMETERS:

Slices Interval: 0.250 (m)  
 Number of Slices: 25

VOLUMES SLICE-BY-SLICE:

From RL	To RL	Cut Area	Cut Vol	Cumulative Cut	Fill Vol	Cumulative Fill	Net Vol	Cumulative Net	slice
38.26	38.50	0.0	0.0	0.0	3.9	3.9	3.9F	3.9F	
0.0		49.2	0.0	0.0	29.5	33.5	29.5F	33.5F	
38.50	38.75	0.0	0.0	0.0	161.0	194.4	161.0F	194.4F	
0.0	38.75	204.9	0.0	0.0	204.4	398.8	204.4F	398.8F	
38.75	39.00	0.0	0.0	0.0	227.2	626.0	227.2F	626.0F	
0.0	39.00	765.0	0.0	0.0	249.2	875.1	249.2F	875.1F	
39.00	39.25	0.0	0.0	0.0	1039.7				
0.0	39.25	863.9	0.0						
39.25	39.50	0.0	0.0						
0.0	39.50	953.1	0.0						
39.50	39.75	0.0	0.0						
0.0		1039.7							

39.75	40.00	0.0	0.0	270.5	1145.6	270.5F	1145.6F
0.0		1123.9					
40.00	40.25	0.0	0.0	291.3	1436.9	291.3F	1436.9F
0.0		1206.4					
40.25	40.50	0.0	0.0	311.8	1748.7	311.8F	1748.7F
0.0		1287.6					
40.50	40.75	0.0	0.0	331.5	2080.2	331.5F	2080.2F
0.0		1360.2					
40.75	41.00	0.0	0.0	347.9	2428.1	347.9F	2428.1F
0.0		1425.0					
41.00	41.25	0.0	0.0	363.8	2791.9	363.8F	2791.9F
0.0		1482.6					

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41.25	41.50	0.0	0.0	376.6	3168.4	376.6F	3168.4F
0.0		1528.5					
41.50	41.75	0.0	0.0	387.0	3555.4	387.0F	3555.4F
0.0		1566.4					
41.75	42.00	0.0	0.0	396.0	3951.4	396.0F	3951.4F
0.0		1601.2					
42.00	42.20	0.0	0.0	322.9	4274.3	322.9F	4274.3F
0.0		1627.7					
42.20	42.25	5.9	5.9	0.0	4274.3	5.9C	4268.5F
114.1		0.0					
42.25	42.50	24.7	30.5	0.0	4274.3	24.7C	4243.8F
83.9		0.0					
42.50	42.75	17.5	48.1	0.0	4274.3	17.5C	4226.3F
56.8		0.0					
42.75	43.00	11.1	59.2	0.0	4274.3	11.1C	4215.2F
32.9		0.0					
43.00	43.25	6.2	65.3	0.0	4274.3	6.2C	4209.0F
19.3		0.0					
43.25	43.50	3.9	69.3	0.0	4274.3	3.9C	4205.1F
12.4		0.0					
43.50	43.75	2.3	71.6	0.0	4274.3	2.3C	4202.8F
6.1		0.0					
43.75	44.00	0.8	72.4	0.0	4274.3	0.8C	4201.9F
0.7		0.0					
44.00	44.09	0.0	72.4	0.0	4274.3	0.0C	4201.9F
0.0		0.0					

TOTAL VOLUMES:

=====  
Cut: 72.4 (cubic metres)  
Fill: 4274.3 (cubic metres)  
Net: 4201.9 (cubic metres) [fill]

COMPUTATION VIA RECTANGULAR GRID

GRID ORIGIN:

=====  
X-coordinate: -1163.470  
Y-coordinate: 2385.848

REGION:

=====  
Boundary: DTM Boundary

GRID SPACING:

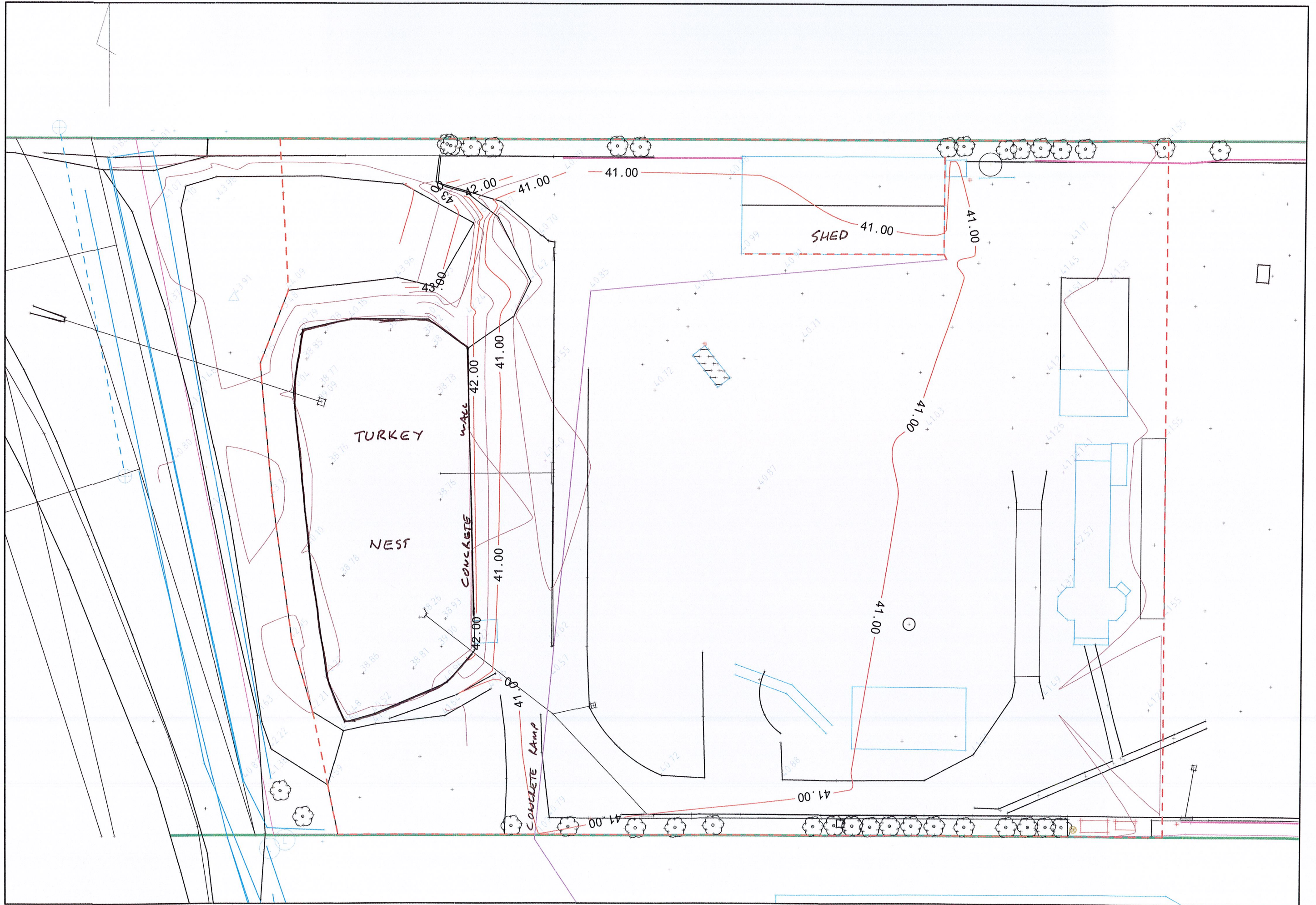
=====  
X-interval: 1.000  
Y-interval: 1.000

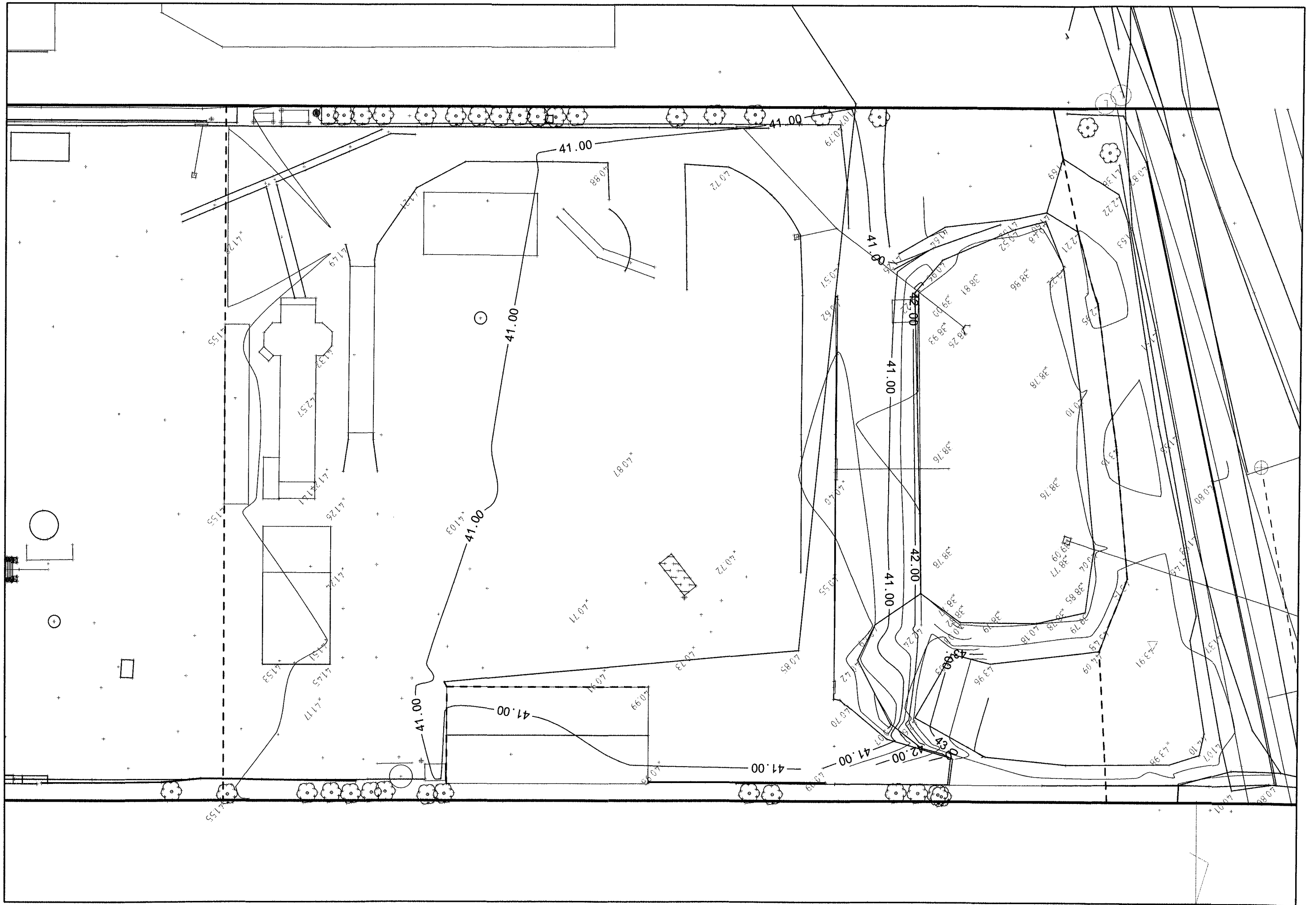
GRID BOUNDARY SIZE AND ANGLE:

=====  
X-size: 34.645  
Y-size: 65.516  
Rotation angle: 0.000 (deg)

PLAN AREAS:

=====  
Boundary: 1642.5 (square metres)  
Design: 1642.5 (square metres)  
Natural: 1642.5 (square metres)

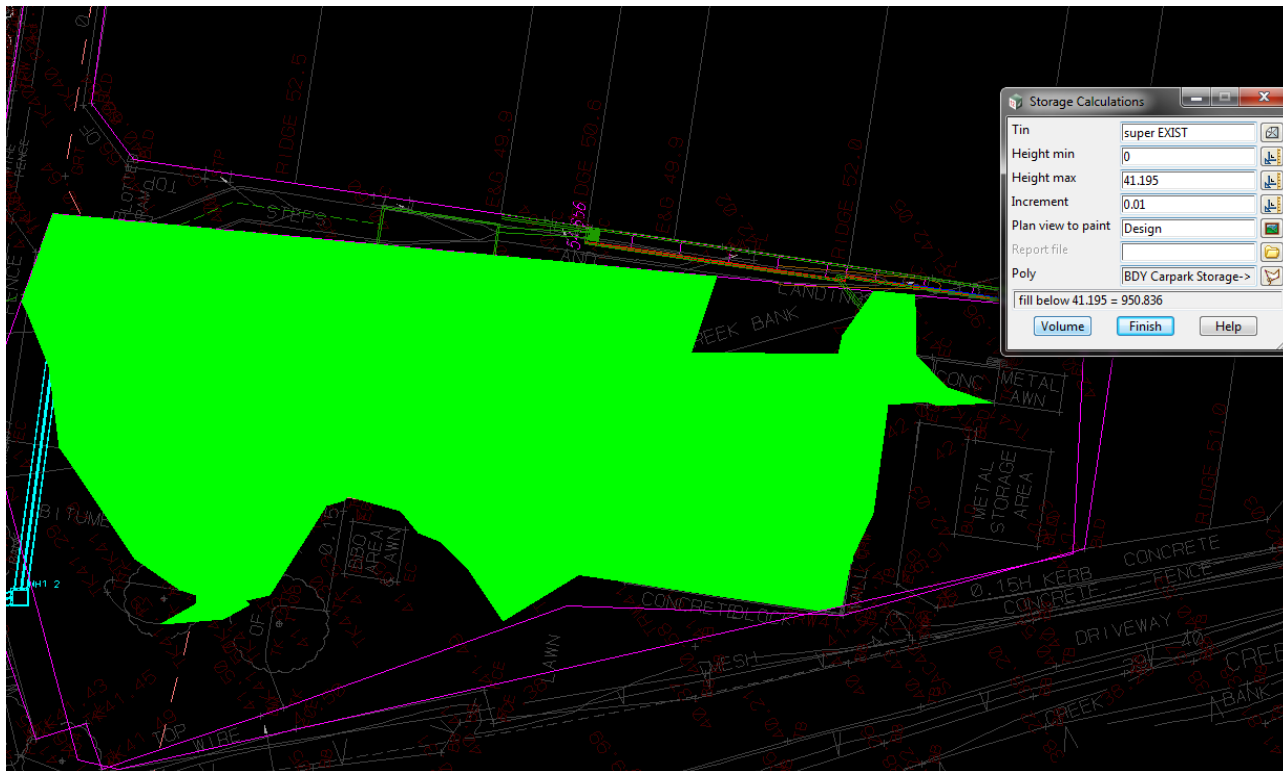






# Appendix 8

## ADW Johnson 23 Tattersall Road Water Retention Area Calculations



## Appendix 9

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Site Water Retention Areas

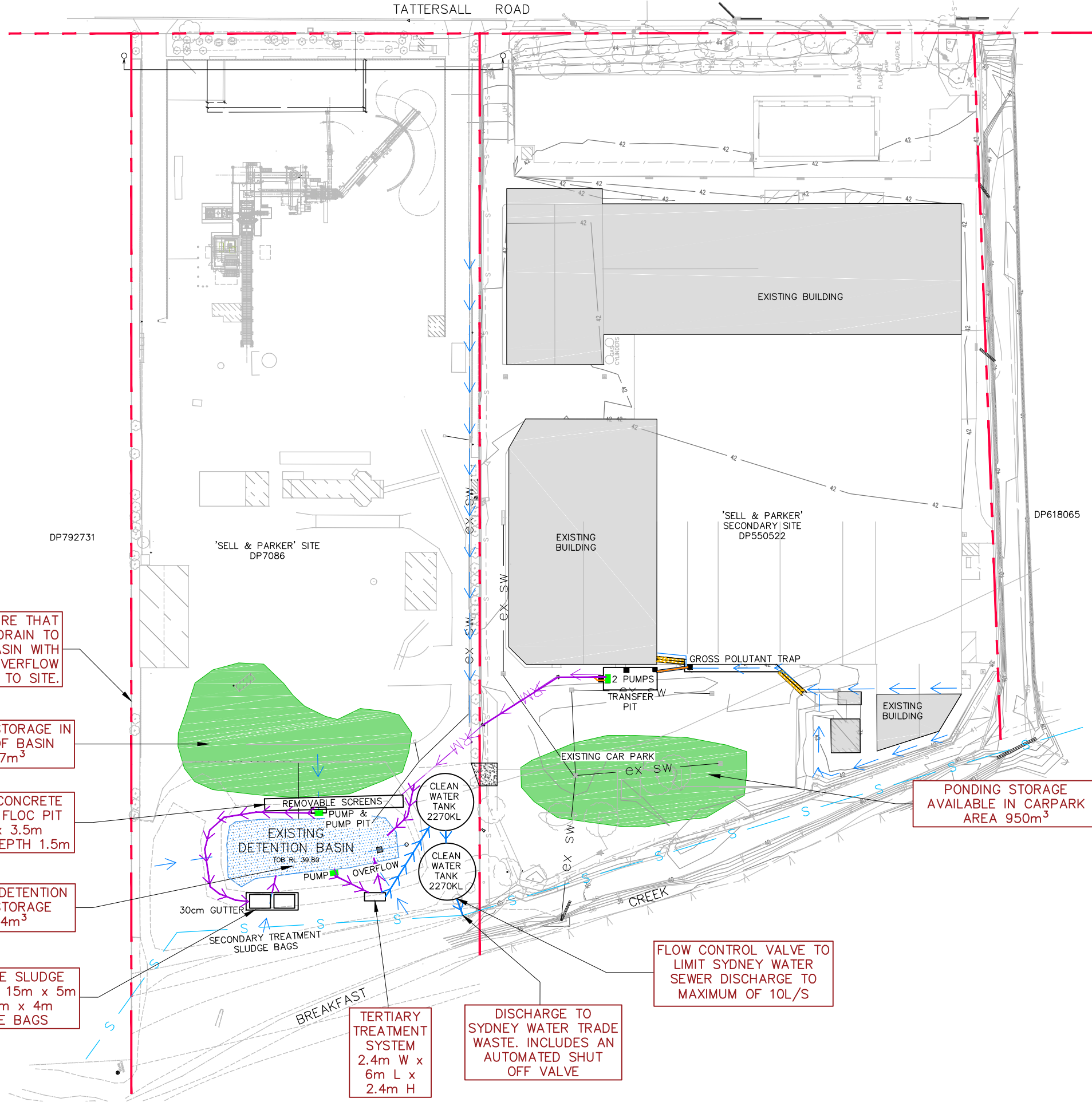


# APPENDIX 9

## SITE WATER RETENTION AREAS

### LEGEND

- FLOW ARROWS
- SEWER LINE
- PIPEWORK - DIRTY WATER
- PIPEWORK - TREATED WATER
- PUMPS
- REAR YARD STORAGE CAPACITY



LEVELS ENSURE THAT SITE WILL DRAIN TO EXISTING BASIN WITH NO OVERFLOW EXTERNAL TO SITE.

CURRENT STORAGE IN FRONT OF BASIN 1,027m<sup>3</sup>

2 PART CONCRETE DRIVE IN FLOC PIT 40m x 3.5m BOTTOM DEPTH 1.5m

CURRENT DETENTION BASIN STORAGE 4,274m<sup>3</sup>

CONCRETE SLUDGE BUG BUND 15m x 5m WITH 6m x 4m SLUDGE BAGS

PONDING STORAGE AVAILABLE IN CARPARK AREA 950m<sup>3</sup>

FLOW CONTROL VALVE TO LIMIT SYDNEY WATER SEWER DISCHARGE TO MAXIMUM OF 10L/S

DISCHARGE TO SYDNEY WATER TRADE WASTE. INCLUDES AN AUTOMATED SHUT OFF VALVE

TERTIARY TREATMENT SYSTEM 2.4m W x 6m L x 2.4m H

drawing title:

### SITE WATER RETENTION AREAS

location: LOT 2 D.P.550522, LOT 5 D.P.7086 & LOT 100 D.P.792731

council: (AUTHORITY - EPA)

dwg ref: 190337-REP-004

client: SELL AND PARKER



central coast office ph: (02) 4305 4300  
hunter office ph: (02) 4978 5100

www.adwjohnson.com.au

ver.	date	comment	drawn	pm	level information	scale (A3 original size)	notes
D	12.07.17	GENERAL AMENDMENTS	KT	ML	DATUM: N/A CONTOUR INTERVAL: N/A	0 25.0 50.0 62.5m SCALE: 1:1250 (FULL)	

## Appendix 10

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### Daily Time Step Site Capacity Modelling

#### Model Inputs

- Daily catchment runoff determined in MUSIC using rainfall data for Sydney Observatory Hill 1913-2010
- Managed overflow to Sydney Water Sewer modelled at a maximum flow rate of 10L/s
- Reuse modelled at 50L per day
- Additional capacity of 864m<sup>3</sup> pumped out of site storage for re-use before “major” storms, see Section 6.4

Storage volumes utilised on site during major storm events experienced from 1913-2010 are summarised on the following pages.

<b>Date</b>	<b>Maximum Storage Volume Used</b>
3/01/1913	257.8
4/01/1913	21.4
5/01/1913	105.9
6/01/1913	0.0
7/01/1913	0.0
8/01/1913	0.0
9/01/1913	0.0
10/01/1913	0.0
11/01/1913	0.0
12/01/1913	0.0
13/01/1913	0.0
14/01/1913	0.0
15/01/1913	0.0
16/01/1913	0.0
17/01/1913	9.0
18/01/1913	0.0
19/01/1913	0.0
20/01/1913	0.0
21/01/1913	0.0
22/01/1913	0.0
23/01/1913	0.0
24/01/1913	0.0
25/01/1913	0.0
26/01/1913	0.0
27/01/1913	0.0
28/01/1913	0.0
29/01/1913	0.0
30/01/1913	0.0
31/01/1913	0.0
1/02/1913	0.0
2/02/1913	34.4
3/02/1913	0.0
4/02/1913	0.0
5/02/1913	322.6
6/02/1913	0.0
7/02/1913	0.0
8/02/1913	195.7
9/02/1913	0.0
10/02/1913	0.0
11/02/1913	262.9
12/02/1913	0.0
13/02/1913	0.0
14/02/1913	0.0
15/02/1913	59.8
16/02/1913	0.0
17/02/1913	0.0
18/02/1913	0.0
19/02/1913	0.0
20/02/1913	0.0
21/02/1913	0.0
22/02/1913	0.0
23/02/1913	0.0

24/02/1913	0.0
25/02/1913	0.0
26/02/1913	0.0
27/02/1913	0.0
28/02/1913	0.0
1/03/1913	0.0
2/03/1913	0.0
3/03/1913	0.0
4/03/1913	0.0
5/03/1913	0.0
6/03/1913	346.7
7/03/1913	314.6
8/03/1913	3524.9
9/03/1913	1195.3
10/03/1913	0.0
11/03/1913	0.0
12/03/1913	0.0
13/03/1913	0.0
14/03/1913	0.0
15/03/1913	0.0
16/03/1913	0.0
17/03/1913	0.0
18/03/1913	0.0
19/03/1913	0.0
20/03/1913	0.0
21/03/1913	0.0
22/03/1913	0.0
23/03/1913	0.0
24/03/1913	0.0
25/03/1913	0.0
26/03/1913	262.5
27/03/1913	138.6
28/03/1913	0.0
29/03/1913	0.0
30/03/1913	0.0
31/03/1913	0.0
1/04/1913	401.8
2/04/1913	405.1
3/04/1913	0.0
4/04/1913	0.0
5/04/1913	128.3
6/04/1913	1728.0
7/04/1913	1623.8
8/04/1913	503.3
9/04/1913	76.5
10/04/1913	0.0
11/04/1913	0.0
12/04/1913	0.0
13/04/1913	0.0
14/04/1913	0.0
15/04/1913	0.0
16/04/1913	58.4
17/04/1913	604.2

18/04/1913	0.0
19/04/1913	221.1
20/04/1913	143.0
21/04/1913	416.8
22/04/1913	0.0
23/04/1913	0.0
24/04/1913	291.9
25/04/1913	0.0
26/04/1913	0.0
27/04/1913	0.0
28/04/1913	0.0
29/04/1913	0.0
30/04/1913	0.0
1/05/1913	510.7
2/05/1913	173.7
3/05/1913	0.0
4/05/1913	26.1
5/05/1913	17.4
6/05/1913	300.9
7/05/1913	1786.1
8/05/1913	67.5
9/05/1913	90.5
10/05/1913	5.0
11/05/1913	225.1
12/05/1913	447.9
13/05/1913	470.3
14/05/1913	2409.7
15/05/1913	533.4
16/05/1913	287.9
17/05/1913	9.0
18/05/1913	0.0
19/05/1913	0.0
20/05/1913	0.0
21/05/1913	0.0
22/05/1913	0.0
23/05/1913	0.0
24/05/1913	256.2
25/05/1913	800.9
26/05/1913	98.2
27/05/1913	0.0
28/05/1913	498.0
29/05/1913	817.5
30/05/1913	775.4
31/05/1913	0.0
1/06/1913	17.4
2/06/1913	0.0
3/06/1913	0.0
4/06/1913	0.0
5/06/1913	0.0
6/06/1913	0.0
7/06/1913	0.0
8/06/1913	55.4
9/06/1913	737.4

10/06/1913	955.6
11/06/1913	1410.1
12/06/1913	1243.4
13/06/1913	207.7
14/06/1913	325.7
15/06/1913	0.0
16/06/1913	0.0
17/06/1913	9.0
18/06/1913	0.0
19/06/1913	0.0
20/06/1913	0.0
21/06/1913	498.0
22/06/1913	1376.3
23/06/1913	77.6
24/06/1913	54.0
25/06/1913	73.1
26/06/1913	29.7
27/06/1913	0.0
28/06/1913	112.6
29/06/1913	49.8
30/06/1913	2149.2
1/07/1913	0.0
2/07/1913	0.0
3/07/1913	0.0
4/07/1913	0.0
5/07/1913	0.0
6/07/1913	0.0
7/07/1913	0.0
8/07/1913	0.0
9/07/1913	69.5
10/07/1913	0.0
11/07/1913	0.0
12/07/1913	0.0
13/07/1913	0.0
14/07/1913	0.0
15/07/1913	0.0
16/07/1913	0.0
17/07/1913	0.0
18/07/1913	0.0
19/07/1913	0.0
20/07/1913	0.0
21/07/1913	0.0
22/07/1913	6.0
23/07/1913	2313.2
24/07/1913	943.8
25/07/1913	25.7
26/07/1913	0.0
27/07/1913	166.0
28/07/1913	0.0
29/07/1913	0.0
30/07/1913	0.0
31/07/1913	0.0
1/08/1913	0.0



2/08/1913	0.0
3/08/1913	0.0
4/08/1913	0.0
5/08/1913	0.0
6/08/1913	0.0
7/08/1913	0.0
8/08/1913	0.0
9/08/1913	0.0
10/08/1913	0.0
11/08/1913	0.0
12/08/1913	0.0
13/08/1913	0.0
14/08/1913	0.0
15/08/1913	0.0
16/08/1913	0.0
17/08/1913	0.0
18/08/1913	0.0
19/08/1913	0.0
20/08/1913	0.0
21/08/1913	0.0
22/08/1913	0.0
23/08/1913	0.0
24/08/1913	0.0
25/08/1913	0.0
26/08/1913	0.0
27/08/1913	0.0
28/08/1913	0.0
29/08/1913	0.0
30/08/1913	0.0
31/08/1913	0.0
1/09/1913	0.0
2/09/1913	0.0
3/09/1913	0.0
4/09/1913	0.0
5/09/1913	0.0
6/09/1913	0.0
7/09/1913	0.0
8/09/1913	0.0
9/09/1913	0.0
10/09/1913	0.0
11/09/1913	174.7
12/09/1913	0.0
13/09/1913	100.2
14/09/1913	0.0
15/09/1913	0.0
16/09/1913	0.0
17/09/1913	0.0
18/09/1913	0.0
19/09/1913	382.4
20/09/1913	0.0
21/09/1913	0.0
22/09/1913	110.5
23/09/1913	212.7

24/09/1913	0.0
25/09/1913	0.0
26/09/1913	0.0
27/09/1913	0.0
28/09/1913	0.0
29/09/1913	0.0
30/09/1913	84.5
1/10/1913	43.4
2/10/1913	0.0
3/10/1913	0.7
4/10/1913	34.4
5/10/1913	0.0
6/10/1913	0.0
7/10/1913	0.0
8/10/1913	0.0
9/10/1913	0.0
10/10/1913	0.0
11/10/1913	0.0
12/10/1913	0.0
13/10/1913	38.1
14/10/1913	0.0
15/10/1913	178.7
16/10/1913	0.0
17/10/1913	0.0
18/10/1913	0.0
19/10/1913	0.0
20/10/1913	0.0
21/10/1913	0.0
22/10/1913	0.0
23/10/1913	1.0
24/10/1913	41.1
25/10/1913	0.0
26/10/1913	0.0
27/10/1913	0.0
28/10/1913	104.9
29/10/1913	0.0
30/10/1913	0.0
31/10/1913	0.0
1/11/1913	0.0
2/11/1913	3.9
3/11/1913	0.0
4/11/1913	0.0
5/11/1913	0.0
6/11/1913	0.0
7/11/1913	0.0
8/11/1913	0.0
9/11/1913	0.0
10/11/1913	0.0
11/11/1913	0.0
12/11/1913	506.3
13/11/1913	0.0
14/11/1913	0.0
15/11/1913	0.0

16/11/1913	0.0
17/11/1913	0.0
18/11/1913	0.0
19/11/1913	0.0
20/11/1913	0.0
21/11/1913	0.0
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23/11/1913	0.0
24/11/1913	0.7
25/11/1913	0.0
26/11/1913	0.0
27/11/1913	0.0
28/11/1913	0.0
29/11/1913	0.0
30/11/1913	0.0
1/12/1913	0.0
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3/12/1913	0.0
4/12/1913	0.0
5/12/1913	0.0
6/12/1913	0.0
7/12/1913	0.0
8/12/1913	0.0
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10/12/1913	0.0
11/12/1913	0.0
12/12/1913	21.0
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14/12/1913	0.0
15/12/1913	0.0
16/12/1913	0.0
17/12/1913	0.0
18/12/1913	0.0
19/12/1913	0.0
20/12/1913	0.0
21/12/1913	0.0
22/12/1913	0.0
23/12/1913	0.0
24/12/1913	25.7
25/12/1913	0.0
26/12/1913	0.0
27/12/1913	0.0
28/12/1913	0.0
29/12/1913	0.0
30/12/1913	0.0
31/12/1913	17.0
1/01/1914	0.0
2/01/1914	0.0
3/01/1914	0.0
4/01/1914	0.0
5/01/1914	0.0
6/01/1914	0.0
7/01/1914	0.0

8/01/1914	0.0
9/01/1914	0.0
10/01/1914	0.0
11/01/1914	0.0
12/01/1914	132.9
13/01/1914	0.0
14/01/1914	0.0
15/01/1914	0.0
16/01/1914	0.0
17/01/1914	0.0
18/01/1914	0.0
19/01/1914	157.3
20/01/1914	0.0
21/01/1914	0.0
22/01/1914	0.0
23/01/1914	0.0
24/01/1914	0.0
25/01/1914	0.0
26/01/1914	0.0
27/01/1914	42.8
28/01/1914	0.0
29/01/1914	0.0
30/01/1914	0.0
31/01/1914	0.0
1/02/1914	0.0
2/02/1914	0.0
3/02/1914	0.0
4/02/1914	0.0
5/02/1914	0.0
6/02/1914	0.0
7/02/1914	67.2
8/02/1914	61.0
9/02/1914	76.8
10/02/1914	0.0
11/02/1914	51.8
12/02/1914	0.0
13/02/1914	0.0
14/02/1914	0.0
15/02/1914	0.0
16/02/1914	0.0
17/02/1914	0.0
18/02/1914	0.0
19/02/1914	0.0
20/02/1914	0.0
21/02/1914	0.0
22/02/1914	0.0
23/02/1914	0.0
24/02/1914	0.0
25/02/1914	110.9
26/02/1914	247.2
27/02/1914	341.5
28/02/1914	221.2
1/03/1914	0.0

2/03/1914	46.4
3/03/1914	14.0
4/03/1914	0.0
5/03/1914	0.0
6/03/1914	704.7
7/03/1914	182.7
8/03/1914	8.0
9/03/1914	0.0
10/03/1914	0.0
11/03/1914	0.0
12/03/1914	0.0
13/03/1914	0.0
14/03/1914	0.0
15/03/1914	0.0
16/03/1914	0.0
17/03/1914	0.0
18/03/1914	0.0
19/03/1914	0.0
20/03/1914	3264.4
21/03/1914	492.0
22/03/1914	1089.4
23/03/1914	1237.4
24/03/1914	182.4
25/03/1914	54.4
26/03/1914	0.0
27/03/1914	0.0
28/03/1914	212.4
29/03/1914	0.0
30/03/1914	0.0
31/03/1914	0.0
1/04/1914	0.0
2/04/1914	0.0
3/04/1914	0.0
4/04/1914	0.0
5/04/1914	0.0
6/04/1914	0.0
7/04/1914	0.0
8/04/1914	0.0
9/04/1914	0.0
10/04/1914	0.0
11/04/1914	0.0
12/04/1914	0.0
13/04/1914	0.0
14/04/1914	0.0
15/04/1914	0.0
16/04/1914	939.8
17/04/1914	211.7
18/04/1914	0.0
19/04/1914	0.0
20/04/1914	0.0
21/04/1914	42.8
22/04/1914	0.0
23/04/1914	0.0

24/04/1914	0.0
25/04/1914	0.0
26/04/1914	0.0
27/04/1914	0.0
28/04/1914	0.0
29/04/1914	0.0
30/04/1914	0.0
1/05/1914	0.0
2/05/1914	0.0
3/05/1914	0.0
4/05/1914	0.0
5/05/1914	0.0
6/05/1914	0.0
7/05/1914	0.0
8/05/1914	0.0
9/05/1914	0.0
10/05/1914	6.0
11/05/1914	0.0
12/05/1914	0.0
13/05/1914	0.0
14/05/1914	0.0
15/05/1914	0.0
16/05/1914	601.9
17/05/1914	6.7
18/05/1914	23.3
19/05/1914	0.0
20/05/1914	146.0
21/05/1914	1221.4
22/05/1914	2.6
23/05/1914	0.0
24/05/1914	0.0
25/05/1914	0.0
26/05/1914	0.0
27/05/1914	0.0
28/05/1914	0.0
29/05/1914	0.0
30/05/1914	0.0
31/05/1914	0.0
1/06/1914	0.0
2/06/1914	0.0
3/06/1914	0.0
4/06/1914	0.0
5/06/1914	0.0
6/06/1914	0.0
7/06/1914	0.0
8/06/1914	876.7
9/06/1914	116.2
10/06/1914	0.0
11/06/1914	0.0
12/06/1914	0.0
13/06/1914	0.0
14/06/1914	0.0
15/06/1914	0.0

16/06/1914	609.2
17/06/1914	1022.6
18/06/1914	88.2
19/06/1914	402.8
20/06/1914	45.4
21/06/1914	0.0
22/06/1914	0.0
23/06/1914	0.0
24/06/1914	0.0
25/06/1914	0.0
26/06/1914	109.6
27/06/1914	0.0
28/06/1914	0.0
29/06/1914	0.0
30/06/1914	179.7
1/07/1914	785.8
2/07/1914	2314.9
3/07/1914	0.0
4/07/1914	156.6
5/07/1914	514.4
6/07/1914	85.5
7/07/1914	0.0
8/07/1914	0.0
9/07/1914	0.0
10/07/1914	0.0
11/07/1914	0.0
12/07/1914	0.0
13/07/1914	0.0
14/07/1914	0.0
15/07/1914	0.0
16/07/1914	31.7
17/07/1914	645.6
18/07/1914	147.6
19/07/1914	146.3
20/07/1914	280.2
21/07/1914	724.8
22/07/1914	46.8
23/07/1914	0.0
24/07/1914	0.0
25/07/1914	254.8
26/07/1914	0.0
27/07/1914	0.0
28/07/1914	0.0
29/07/1914	0.0
30/07/1914	0.0
31/07/1914	0.0
1/08/1914	0.0
2/08/1914	0.0
3/08/1914	0.0
4/08/1914	0.0
5/08/1914	0.0
6/08/1914	0.0
7/08/1914	0.0

8/08/1914	0.0
9/08/1914	76.8
10/08/1914	0.0
11/08/1914	0.0
12/08/1914	0.0
13/08/1914	0.0
14/08/1914	0.0
15/08/1914	0.0
16/08/1914	0.0
17/08/1914	0.0
18/08/1914	0.0
19/08/1914	136.6
20/08/1914	767.2
21/08/1914	82.1
22/08/1914	0.0
23/08/1914	0.0
24/08/1914	175.0
25/08/1914	260.9
26/08/1914	0.0
27/08/1914	0.0
28/08/1914	0.0
29/08/1914	0.0
30/08/1914	0.0
31/08/1914	0.0
1/09/1914	0.0
2/09/1914	0.0
3/09/1914	0.0
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5/09/1914	0.0
6/09/1914	0.0
7/09/1914	0.0
8/09/1914	0.0
9/09/1914	0.0
10/09/1914	0.0
11/09/1914	0.0
12/09/1914	312.1
13/09/1914	450.5
14/09/1914	0.0
15/09/1914	924.7
16/09/1914	149.3
17/09/1914	940.8
18/09/1914	109.2
19/09/1914	269.9
20/09/1914	342.0
21/09/1914	0.0
22/09/1914	0.0
23/09/1914	0.0
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25/09/1914	0.0
26/09/1914	0.0
27/09/1914	0.0
28/09/1914	0.0
29/09/1914	0.0



30/09/1914	0.0
1/10/1914	0.0
2/10/1914	368.7
3/10/1914	0.0
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5/10/1914	0.0
6/10/1914	0.0
7/10/1914	0.0
8/10/1914	0.0
9/10/1914	0.0
10/10/1914	7.7
11/10/1914	149.3
12/10/1914	0.0
13/10/1914	0.0
14/10/1914	148.6
15/10/1914	0.0
16/10/1914	4.7
17/10/1914	1867.0
18/10/1914	752.8
19/10/1914	992.6
20/10/1914	737.8
21/10/1914	0.0
22/10/1914	0.0
23/10/1914	0.0
24/10/1914	0.0
25/10/1914	0.0
26/10/1914	0.0
27/10/1914	0.0
28/10/1914	0.0
29/10/1914	0.0
30/10/1914	0.0
31/10/1914	0.0
1/11/1914	0.0
2/11/1914	201.1
3/11/1914	0.0
4/11/1914	40.4
5/11/1914	0.0
6/11/1914	0.0
7/11/1914	42.8
8/11/1914	0.0
9/11/1914	280.6
10/11/1914	38.4
11/11/1914	0.0
12/11/1914	93.9
13/11/1914	0.0
14/11/1914	0.3
15/11/1914	0.0
16/11/1914	0.0
17/11/1914	51.4
18/11/1914	0.0
19/11/1914	0.0
20/11/1914	1.0
21/11/1914	0.0

22/11/1914	0.0
23/11/1914	735.1
24/11/1914	97.2
25/11/1914	60.1
26/11/1914	0.0
27/11/1914	0.0
28/11/1914	0.0
29/11/1914	0.0
30/11/1914	0.0
1/12/1914	0.0
2/12/1914	0.0
3/12/1914	280.2
4/12/1914	0.0
5/12/1914	0.0
6/12/1914	0.0
7/12/1914	254.5
8/12/1914	0.0
9/12/1914	0.0
10/12/1914	0.0
11/12/1914	0.0
12/12/1914	0.0
13/12/1914	0.0
14/12/1914	0.6
15/12/1914	0.3
16/12/1914	0.0
17/12/1914	0.0
18/12/1914	136.2
19/12/1914	0.0
20/12/1914	8.3
21/12/1914	805.9
22/12/1914	868.1
23/12/1914	0.0
24/12/1914	0.0
25/12/1914	0.0
26/12/1914	26.1
27/12/1914	0.0
28/12/1914	2.3
29/12/1914	1702.3
30/12/1914	861.0
31/12/1914	34.7
1/01/1915	46.7
2/01/1915	0.0
3/01/1915	0.0
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5/01/1915	0.0
6/01/1915	0.0
7/01/1915	0.0
8/01/1915	388.7
9/01/1915	79.5
10/01/1915	0.0
11/01/1915	0.0
12/01/1915	102.2
13/01/1915	0.0

14/01/1915	0.0
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16/01/1915	0.0
17/01/1915	0.0
18/01/1915	0.0
19/01/1915	0.0
20/01/1915	0.0
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22/01/1915	0.0
23/01/1915	0.0
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25/01/1915	0.0
26/01/1915	0.0
27/01/1915	0.0
28/01/1915	41.1
29/01/1915	11.0
30/01/1915	34.4
31/01/1915	153.3
1/02/1915	68.1
2/02/1915	0.0
3/02/1915	0.0
4/02/1915	0.0
5/02/1915	0.0
6/02/1915	0.0
7/02/1915	8.9
8/02/1915	76.2
9/02/1915	3.8
10/02/1915	0.0
11/02/1915	0.0
12/02/1915	0.0
13/02/1915	0.0
14/02/1915	0.0
15/02/1915	0.0
16/02/1915	0.0
17/02/1915	0.0
18/02/1915	0.0
19/02/1915	0.0
20/02/1915	0.0
21/02/1915	195.4
22/02/1915	229.8
23/02/1915	0.0
24/02/1915	0.0
25/02/1915	0.0
26/02/1915	0.0
27/02/1915	0.0
28/02/1915	0.0
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3/03/1915	0.0
4/03/1915	0.0
5/03/1915	0.0
6/03/1915	0.0
7/03/1915	0.0

8/03/1915	0.0
9/03/1915	0.0
10/03/1915	0.0
11/03/1915	0.0
12/03/1915	0.0
13/03/1915	0.0
14/03/1915	0.0
15/03/1915	172.7
16/03/1915	0.0
17/03/1915	39.4
18/03/1915	0.0
19/03/1915	0.0
20/03/1915	0.0
21/03/1915	8.8
22/03/1915	54.3
23/03/1915	0.0
24/03/1915	0.0
25/03/1915	0.0
26/03/1915	212.4
27/03/1915	0.0
28/03/1915	0.0
29/03/1915	449.6
30/03/1915	1215.7
31/03/1915	556.1
1/04/1915	0.0
2/04/1915	117.6
3/04/1915	300.6
4/04/1915	1059.0
5/04/1915	254.5
6/04/1915	2063.0
7/04/1915	1465.5
8/04/1915	100.5
9/04/1915	131.9
10/04/1915	0.0
11/04/1915	0.0
12/04/1915	0.0
13/04/1915	0.0
14/04/1915	267.5
15/04/1915	0.0
16/04/1915	0.0
17/04/1915	0.0
18/04/1915	0.0
19/04/1915	0.0
20/04/1915	0.0
21/04/1915	0.0
22/04/1915	0.0
23/04/1915	787.9
24/04/1915	439.2
25/04/1915	0.0
26/04/1915	0.0
27/04/1915	0.0
28/04/1915	0.0
29/04/1915	0.0

30/04/1915	0.0
1/05/1915	0.0
2/05/1915	0.0
3/05/1915	0.0
4/05/1915	572.5
5/05/1915	845.7
6/05/1915	742.5
7/05/1915	847.4
8/05/1915	0.0
9/05/1915	0.0
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11/05/1915	0.0
12/05/1915	0.0
13/05/1915	0.0
14/05/1915	179.0
15/05/1915	687.0
16/05/1915	0.0
17/05/1915	0.0
18/05/1915	0.0
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20/05/1915	0.0
21/05/1915	0.0
22/05/1915	0.0
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26/05/1915	0.0
27/05/1915	0.0
28/05/1915	0.0
29/05/1915	0.0
30/05/1915	0.0
31/05/1915	0.0
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3/06/1915	0.0
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5/06/1915	0.0
6/06/1915	0.0
7/06/1915	0.0
8/06/1915	0.0
9/06/1915	288.2
10/06/1915	692.7
11/06/1915	24.7
12/06/1915	0.0
13/06/1915	0.0
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15/06/1915	0.0
16/06/1915	0.0
17/06/1915	0.0
18/06/1915	0.0
19/06/1915	0.0
20/06/1915	0.0
21/06/1915	0.0

22/06/1915	0.0
23/06/1915	0.0
24/06/1915	0.0
25/06/1915	0.0
26/06/1915	0.0
27/06/1915	0.0
28/06/1915	0.0
29/06/1915	0.0
30/06/1915	0.0
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3/07/1915	0.0
4/07/1915	0.0
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6/07/1915	0.0
7/07/1915	76.8
8/07/1915	0.0
9/07/1915	0.0
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11/07/1915	0.0
12/07/1915	0.0
13/07/1915	8.7
14/07/1915	584.2
15/07/1915	2061.0
16/07/1915	0.0
17/07/1915	0.0
18/07/1915	0.0
19/07/1915	0.0
20/07/1915	0.0
21/07/1915	26.4
22/07/1915	0.0
23/07/1915	0.0
24/07/1915	0.0
25/07/1915	0.0
26/07/1915	13.7
27/07/1915	586.2
28/07/1915	0.0
29/07/1915	0.0
30/07/1915	9.0
31/07/1915	53.4
1/08/1915	0.0
2/08/1915	0.0
3/08/1915	0.0
4/08/1915	136.3
5/08/1915	0.0
6/08/1915	0.0
7/08/1915	0.0
8/08/1915	0.0
9/08/1915	0.0
10/08/1915	0.0
11/08/1915	0.0
12/08/1915	34.4
13/08/1915	0.0

14/08/1915	0.0
15/08/1915	0.0
16/08/1915	0.0
17/08/1915	195.4
18/08/1915	176.4
19/08/1915	172.0
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21/08/1915	0.0
22/08/1915	0.0
23/08/1915	0.0
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8/09/1915	0.0
9/09/1915	0.0
10/09/1915	0.0
11/09/1915	402.1
12/09/1915	320.3
13/09/1915	0.0
14/09/1915	0.0
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16/09/1915	0.0
17/09/1915	0.0
18/09/1915	0.0
19/09/1915	241.1
20/09/1915	5.7
21/09/1915	0.0
22/09/1915	0.0
23/09/1915	0.0
24/09/1915	49.8
25/09/1915	0.0
26/09/1915	0.0
27/09/1915	0.0
28/09/1915	0.0
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2/10/1915	0.0
3/10/1915	0.0
4/10/1915	0.0
5/10/1915	0.0

6/10/1915	283.2
7/10/1915	0.0
8/10/1915	0.0
9/10/1915	0.0
10/10/1915	0.0
11/10/1915	0.0
12/10/1915	91.2
13/10/1915	167.7
14/10/1915	5.3
15/10/1915	0.0
16/10/1915	0.0
17/10/1915	0.0
18/10/1915	0.0
19/10/1915	0.0
20/10/1915	0.0
21/10/1915	0.0
22/10/1915	0.0
23/10/1915	76.8
24/10/1915	0.0
25/10/1915	0.0
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27/10/1915	0.0
28/10/1915	0.0
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26/11/1915	0.0
27/11/1915	0.0



28/11/1915	0.0
29/11/1915	0.0
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10/12/1915	0.0
11/12/1915	0.0
12/12/1915	0.0
13/12/1915	0.0
14/12/1915	0.0
15/12/1915	421.8
16/12/1915	651.3
17/12/1915	484.2
18/12/1915	296.4
19/12/1915	0.0
20/12/1915	0.0
21/12/1915	208.4
22/12/1915	0.0
23/12/1915	0.0
24/12/1915	0.0
25/12/1915	0.0
26/12/1915	0.0
27/12/1915	30.4
28/12/1915	0.0
29/12/1915	60.1
30/12/1915	0.3
31/12/1915	0.0
1/01/1916	0.0
2/01/1916	0.0
3/01/1916	0.0
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13/01/1916	0.0
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15/01/1916	0.0
16/01/1916	0.0
17/01/1916	0.0
18/01/1916	0.0
19/01/1916	0.0

20/01/1916	283.9
21/01/1916	0.0
22/01/1916	0.0
23/01/1916	0.0
24/01/1916	0.0
25/01/1916	0.0
26/01/1916	0.0
27/01/1916	0.0
28/01/1916	836.6
29/01/1916	0.0
30/01/1916	0.0
31/01/1916	0.0
1/02/1916	0.0
2/02/1916	0.0
3/02/1916	8.7
4/02/1916	0.0
5/02/1916	136.2
6/02/1916	0.0
7/02/1916	0.0
8/02/1916	0.7
9/02/1916	136.2
10/02/1916	31.7
11/02/1916	237.1
12/02/1916	0.0
13/02/1916	0.0
14/02/1916	0.0
15/02/1916	0.0
16/02/1916	0.0
17/02/1916	0.0
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20/02/1916	0.0
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22/02/1916	0.0
23/02/1916	627.3
24/02/1916	0.0
25/02/1916	233.1
26/02/1916	3.7
27/02/1916	433.2
28/02/1916	0.0
29/02/1916	0.0
1/03/1916	78.9
2/03/1916	174.3
3/03/1916	0.0
4/03/1916	0.0
5/03/1916	35.7
6/03/1916	587.5
7/03/1916	585.8
8/03/1916	0.0
9/03/1916	0.0
10/03/1916	0.0
11/03/1916	0.0
12/03/1916	0.0

13/03/1916	0.0
14/03/1916	0.0
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21/03/1916	0.0
22/03/1916	0.0
23/03/1916	0.0
24/03/1916	0.0
25/03/1916	0.0
26/03/1916	0.0
27/03/1916	229.5
28/03/1916	0.0
29/03/1916	0.0
30/03/1916	0.0
31/03/1916	854.9
1/04/1916	32.7
2/04/1916	0.0
3/04/1916	450.2
4/04/1916	0.0
5/04/1916	0.0
6/04/1916	0.0
7/04/1916	11.3
8/04/1916	489.6
9/04/1916	523.0
10/04/1916	1544.0
11/04/1916	0.0
12/04/1916	0.0
13/04/1916	0.0
14/04/1916	17.7
15/04/1916	0.0
16/04/1916	0.0
17/04/1916	0.0
18/04/1916	0.0
19/04/1916	0.0
20/04/1916	0.0
21/04/1916	450.2
22/04/1916	0.0
23/04/1916	0.0
24/04/1916	0.0
25/04/1916	0.0
26/04/1916	0.0
27/04/1916	0.0
28/04/1916	0.0
29/04/1916	0.0
30/04/1916	0.0
1/05/1916	0.0
2/05/1916	0.0
3/05/1916	0.0
4/05/1916	799.9

5/05/1916	0.0
6/05/1916	0.0
7/05/1916	0.0
8/05/1916	0.0
9/05/1916	0.0
10/05/1916	0.0
11/05/1916	0.0
12/05/1916	0.0
13/05/1916	0.0
14/05/1916	0.0
15/05/1916	0.0
16/05/1916	0.0
17/05/1916	83.8
18/05/1916	0.0
19/05/1916	0.0
20/05/1916	0.0
21/05/1916	0.0
22/05/1916	0.0
23/05/1916	276.9
24/05/1916	303.6
25/05/1916	0.0
26/05/1916	137.9
27/05/1916	0.0
28/05/1916	0.0
29/05/1916	0.0
30/05/1916	0.0
31/05/1916	0.0
1/06/1916	9.0
2/06/1916	0.0
3/06/1916	0.0
4/06/1916	0.0
5/06/1916	0.0
6/06/1916	0.0
7/06/1916	0.0
8/06/1916	0.0
9/06/1916	0.0
10/06/1916	0.0
11/06/1916	0.0
12/06/1916	854.0
13/06/1916	156.6
14/06/1916	76.8
15/06/1916	0.0
16/06/1916	305.3
17/06/1916	88.5
18/06/1916	0.0
19/06/1916	0.0
20/06/1916	0.0
21/06/1916	0.0
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25/06/1916	0.0
26/06/1916	0.0

27/06/1916	32.7
28/06/1916	0.0
29/06/1916	0.0
30/06/1916	17.4
1/07/1916	16.7
2/07/1916	68.1
3/07/1916	0.0
4/07/1916	0.0
5/07/1916	0.0
6/07/1916	0.0
7/07/1916	24.0
8/07/1916	0.0
9/07/1916	0.0
10/07/1916	0.0
11/07/1916	35.4
12/07/1916	296.3
13/07/1916	0.0
14/07/1916	0.0
15/07/1916	0.0
16/07/1916	0.0
17/07/1916	0.0
18/07/1916	320.6
19/07/1916	11.0
20/07/1916	0.0
21/07/1916	0.0
22/07/1916	0.0
23/07/1916	0.0
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29/07/1916	875.0
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31/07/1916	373.7
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23/09/1916	0.0
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25/09/1916	49.1
26/09/1916	0.0
27/09/1916	833.3
28/09/1916	330.3
29/09/1916	1959.8
30/09/1916	790.1
1/10/1916	86.2
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3/10/1916	3.7
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5/10/1916	463.2
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22/11/1916	306.6
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25/11/1916	76.8
26/11/1916	0.0
27/11/1916	255.8
28/11/1916	67.5
29/11/1916	252.2
30/11/1916	87.2
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2/12/1916	195.4

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23/12/1916	0.0
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30/01/1917	700.7
31/01/1917	380.7
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2/02/1917	998.3
3/02/1917	411.8
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5/02/1917	228.3
6/02/1917	197.7
7/02/1917	665.0
8/02/1917	160.0
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19/02/1917	110.2
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21/02/1917	0.0
22/02/1917	0.0
23/02/1917	179.2
24/02/1917	237.6
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9/03/1917	0.0
10/03/1917	0.3
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12/03/1917	0.7
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15/03/1917	59.8
16/03/1917	220.1
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26/06/1917	524.7
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8/01/1921	15.0
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3/04/1921	825.6
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20/07/1921	10.4
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23/07/1921	367.4
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12/08/1921	25.4
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26/12/1921	419.2
27/12/1921	910.7
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29/12/1921	78.8
30/12/1921	892.4
31/12/1921	83.5

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19/02/1922	285.2
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23/04/1922	0.0
24/04/1922	51.1
25/04/1922	448.2
26/04/1922	0.0
27/04/1922	102.2
28/04/1922	225.5
29/04/1922	0.0
30/04/1922	0.0
1/05/1922	0.0
2/05/1922	0.0
3/05/1922	0.0
4/05/1922	34.4
5/05/1922	0.0
6/05/1922	0.0
7/05/1922	0.0
8/05/1922	0.0
9/05/1922	0.0
10/05/1922	0.0
11/05/1922	0.0
12/05/1922	51.4
13/05/1922	716.7
14/05/1922	156.0
15/05/1922	0.0
16/05/1922	0.0
17/05/1922	0.0
18/05/1922	59.8
19/05/1922	0.0
20/05/1922	0.0
21/05/1922	51.4
22/05/1922	0.0
23/05/1922	0.0
24/05/1922	194.7
25/05/1922	552.4
26/05/1922	234.5
27/05/1922	242.5
28/05/1922	0.0
29/05/1922	59.1
30/05/1922	35.4
31/05/1922	59.8
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6/06/1922	0.0
7/06/1922	0.0
8/06/1922	0.0

9/06/1922	0.0
10/06/1922	0.0
11/06/1922	0.0
12/06/1922	0.0
13/06/1922	0.3
14/06/1922	0.0
15/06/1922	13.7
16/06/1922	174.0
17/06/1922	63.8
18/06/1922	233.0
19/06/1922	210.9
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27/06/1922	0.0
28/06/1922	0.0
29/06/1922	0.0
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1/07/1922	0.0
2/07/1922	1390.0
3/07/1922	352.6
4/07/1922	8.6
5/07/1922	0.0
6/07/1922	42.1
7/07/1922	0.0
8/07/1922	0.0
9/07/1922	256.5
10/07/1922	0.0
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21/07/1922	0.0
22/07/1922	0.0
23/07/1922	940.4
24/07/1922	1824.5
25/07/1922	1876.3
26/07/1922	0.0
27/07/1922	0.0
28/07/1922	441.3
29/07/1922	221.3
30/07/1922	137.3
31/07/1922	59.1

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3/08/1922	906.8
4/08/1922	249.2
5/08/1922	5.7
6/08/1922	0.0
7/08/1922	0.0
8/08/1922	0.0
9/08/1922	0.0
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12/08/1922	0.0
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22/08/1922	0.0
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26/08/1922	0.0
27/08/1922	0.0
28/08/1922	0.0
29/08/1922	0.0
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2/09/1922	0.0
3/09/1922	0.0
4/09/1922	0.0
5/09/1922	0.0
6/09/1922	51.4
7/09/1922	280.2
8/09/1922	0.0
9/09/1922	119.6
10/09/1922	0.0
11/09/1922	362.1
12/09/1922	3.7
13/09/1922	0.0
14/09/1922	589.2
15/09/1922	240.5
16/09/1922	0.0
17/09/1922	424.8
18/09/1922	0.0
19/09/1922	22.4
20/09/1922	479.3
21/09/1922	0.0
22/09/1922	0.0

23/09/1922	577.2
24/09/1922	0.0
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26/09/1922	0.0
27/09/1922	0.0
28/09/1922	0.0
29/09/1922	0.0
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27/10/1922	170.7
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6/12/1922	312.6
7/12/1922	404.1
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14/12/1922	51.4
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5/01/1923	168.6
6/01/1923	10.4

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11/01/1923	12.0
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13/01/1923	0.0
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15/01/1923	17.4
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26/01/1923	12.0
27/01/1923	0.0
28/01/1923	0.0
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22/02/1923	0.0
23/02/1923	0.0
24/02/1923	0.0
25/02/1923	0.0
26/02/1923	165.3
27/02/1923	48.1
28/02/1923	0.0

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3/03/1923	0.0
4/03/1923	0.0
5/03/1923	32.4
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18/03/1923	330.3
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4/04/1923	0.0
5/04/1923	1771.8
6/04/1923	0.0
7/04/1923	317.6
8/04/1923	83.5
9/04/1923	338.6
10/04/1923	0.0
11/04/1923	3.3
12/04/1923	463.9
13/04/1923	126.6
14/04/1923	12.9
15/04/1923	31.5
16/04/1923	64.8
17/04/1923	0.0
18/04/1923	0.0
19/04/1923	0.0
20/04/1923	0.0
21/04/1923	119.9
22/04/1923	0.0

23/04/1923	34.4
24/04/1923	15.7
25/04/1923	1080.7
26/04/1923	519.4
27/04/1923	887.4
28/04/1923	238.1
29/04/1923	45.4
30/04/1923	0.0
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2/05/1923	0.0
3/05/1923	0.0
4/05/1923	531.4
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26/05/1923	0.0
27/05/1923	7.7
28/05/1923	0.0
29/05/1923	0.0
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3/06/1923	58.4
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14/06/1923	0.0

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24/06/1923	0.0
25/06/1923	272.2
26/06/1923	1020.6
27/06/1923	824.0
28/06/1923	0.0
29/06/1923	0.0
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6/07/1923	9.0
7/07/1923	531.4
8/07/1923	1604.5
9/07/1923	0.0
10/07/1923	458.6
11/07/1923	894.4
12/07/1923	121.6
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16/07/1923	59.8
17/07/1923	0.0
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25/07/1923	285.9
26/07/1923	924.2
27/07/1923	514.0
28/07/1923	130.3
29/07/1923	0.0
30/07/1923	348.4
31/07/1923	0.0
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3/08/1923	0.0
4/08/1923	0.0
5/08/1923	403.4
6/08/1923	1156.9

7/08/1923	594.5
8/08/1923	12.6
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15/08/1923	0.0
16/08/1923	0.0
17/08/1923	0.0
18/08/1923	42.1
19/08/1923	136.3
20/08/1923	244.5
21/08/1923	0.0
22/08/1923	77.8
23/08/1923	58.8
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26/08/1923	0.0
27/08/1923	0.0
28/08/1923	0.0
29/08/1923	7.3
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1/09/1923	0.0
2/09/1923	221.1
3/09/1923	0.0
4/09/1923	705.1
5/09/1923	112.9
6/09/1923	144.3
7/09/1923	86.8
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13/09/1923	44.4
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23/09/1923	0.0
24/09/1923	44.4
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26/09/1923	0.0
27/09/1923	0.0
28/09/1923	0.0

29/09/1923	0.0
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19/10/1923	214.7
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29/10/1923	0.0
30/10/1923	170.3
31/10/1923	0.0
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4/11/1923	0.0
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26/11/1923	0.0
27/11/1923	0.0
28/11/1923	9.0
29/11/1923	0.0
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21/12/1923	0.0
22/12/1923	0.0
23/12/1923	0.0
24/12/1923	0.0
25/12/1923	136.3
26/12/1923	448.2
27/12/1923	34.7
28/12/1923	154.6
29/12/1923	0.0
30/12/1923	0.0
31/12/1923	0.0
1/01/1924	51.1
2/01/1924	0.0
3/01/1924	4.7
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18/01/1924	0.0
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21/01/1924	1221.4
22/01/1924	151.3
23/01/1924	1274.1
24/01/1924	20.7
25/01/1924	231.1
26/01/1924	46.0
27/01/1924	0.0
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6/02/1924	97.5
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13/02/1924	0.0
14/02/1924	843.0
15/02/1924	13.4
16/02/1924	10.4
17/02/1924	0.0
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26/02/1924	0.0
27/02/1924	97.5
28/02/1924	9.0
29/02/1924	0.0
1/03/1924	0.0
2/03/1924	0.0
3/03/1924	460.6
4/03/1924	0.0
5/03/1924	0.0

6/03/1924	0.0
7/03/1924	0.0
8/03/1924	0.0
9/03/1924	0.0
10/03/1924	0.0
11/03/1924	23.8
12/03/1924	0.0
13/03/1924	30.7
14/03/1924	139.6
15/03/1924	0.0
16/03/1924	0.0
17/03/1924	0.0
18/03/1924	0.0
19/03/1924	107.9
20/03/1924	71.1
21/03/1924	246.5
22/03/1924	1012.3
23/03/1924	215.8
24/03/1924	573.5
25/03/1924	3.0
26/03/1924	0.0
27/03/1924	0.0
28/03/1924	0.0
29/03/1924	0.0
30/03/1924	0.0
31/03/1924	0.0
1/04/1924	0.0
2/04/1924	481.3
3/04/1924	1044.4
4/04/1924	895.5
5/04/1924	79.8
6/04/1924	1036.7
7/04/1924	239.8
8/04/1924	434.9
9/04/1924	52.8
10/04/1924	577.5
11/04/1924	0.0
12/04/1924	0.0
13/04/1924	0.0
14/04/1924	0.0
15/04/1924	0.0
16/04/1924	0.0
17/04/1924	0.0
18/04/1924	0.0
19/04/1924	0.0
20/04/1924	200.0
21/04/1924	0.0
22/04/1924	0.0
23/04/1924	0.0
24/04/1924	0.0
25/04/1924	0.0
26/04/1924	0.0
27/04/1924	0.0

28/04/1924	0.0
29/04/1924	0.0
30/04/1924	0.0
1/05/1924	0.0
2/05/1924	25.7
3/05/1924	65.8
4/05/1924	104.9
5/05/1924	0.0
6/05/1924	51.4
7/05/1924	194.4
8/05/1924	0.0
9/05/1924	0.0
10/05/1924	0.0
11/05/1924	0.0
12/05/1924	0.0
13/05/1924	0.0
14/05/1924	0.0
15/05/1924	355.4
16/05/1924	1058.0
17/05/1924	0.0
18/05/1924	0.0
19/05/1924	0.0
20/05/1924	0.0
21/05/1924	0.0
22/05/1924	0.0
23/05/1924	0.0
24/05/1924	0.0
25/05/1924	0.0
26/05/1924	0.0
27/05/1924	0.0
28/05/1924	0.0
29/05/1924	0.0
30/05/1924	0.0
31/05/1924	0.0
1/06/1924	0.0
2/06/1924	0.0
3/06/1924	170.7
4/06/1924	0.0
5/06/1924	0.0
6/06/1924	0.0
7/06/1924	0.0
8/06/1924	0.0
9/06/1924	0.0
10/06/1924	0.0
11/06/1924	80.8
12/06/1924	120.6
13/06/1924	362.0
14/06/1924	85.5
15/06/1924	0.0
16/06/1924	0.0
17/06/1924	0.0
18/06/1924	0.0
19/06/1924	0.0

20/06/1924	0.0
21/06/1924	0.0
22/06/1924	0.0
23/06/1924	0.0
24/06/1924	0.0
25/06/1924	0.0
26/06/1924	0.0
27/06/1924	274.8
28/06/1924	328.7
29/06/1924	0.0
30/06/1924	0.0
1/07/1924	0.0
2/07/1924	0.0
3/07/1924	0.0
4/07/1924	0.0
5/07/1924	41.0
6/07/1924	27.7
7/07/1924	0.0
8/07/1924	16.9
9/07/1924	0.0
10/07/1924	0.0
11/07/1924	0.0
12/07/1924	0.0
13/07/1924	0.0
14/07/1924	0.0
15/07/1924	0.0
16/07/1924	0.0
17/07/1924	0.0
18/07/1924	0.0
19/07/1924	0.0
20/07/1924	0.0
21/07/1924	74.5
22/07/1924	512.0
23/07/1924	0.0
24/07/1924	436.2
25/07/1924	0.0
26/07/1924	0.0
27/07/1924	0.0
28/07/1924	0.0
29/07/1924	0.0
30/07/1924	0.0
31/07/1924	0.0
1/08/1924	0.0
2/08/1924	0.0
3/08/1924	0.0
4/08/1924	0.0
5/08/1924	0.0
6/08/1924	0.0
7/08/1924	0.0
8/08/1924	0.0
9/08/1924	0.0
10/08/1924	930.8
11/08/1924	0.0

12/08/1924	0.0
13/08/1924	0.0
14/08/1924	0.0
15/08/1924	0.0
16/08/1924	0.0
17/08/1924	0.0
18/08/1924	0.0
19/08/1924	185.7
20/08/1924	0.0
21/08/1924	0.0
22/08/1924	0.0
23/08/1924	0.0
24/08/1924	0.0
25/08/1924	0.0
26/08/1924	0.0
27/08/1924	0.0
28/08/1924	0.0
29/08/1924	348.4
30/08/1924	0.0
31/08/1924	0.0
1/09/1924	0.0
2/09/1924	0.0
3/09/1924	0.0
4/09/1924	0.0
5/09/1924	0.0
6/09/1924	33.1
7/09/1924	0.0
8/09/1924	0.0
9/09/1924	0.0
10/09/1924	0.0
11/09/1924	76.8
12/09/1924	0.0
13/09/1924	0.0
14/09/1924	26.1
15/09/1924	0.0
16/09/1924	0.0
17/09/1924	0.0
18/09/1924	0.0
19/09/1924	0.0
20/09/1924	0.0
21/09/1924	0.0
22/09/1924	706.7
23/09/1924	59.8
24/09/1924	51.4
25/09/1924	0.0
26/09/1924	0.0
27/09/1924	17.7
28/09/1924	473.9
29/09/1924	561.8
30/09/1924	0.0
1/10/1924	0.0
2/10/1924	0.0
3/10/1924	0.0

4/10/1924	0.3
5/10/1924	212.7
6/10/1924	0.0
7/10/1924	0.0
8/10/1924	0.0
9/10/1924	0.0
10/10/1924	0.0
11/10/1924	0.0
12/10/1924	0.0
13/10/1924	0.0
14/10/1924	0.0
15/10/1924	195.4
16/10/1924	0.0
17/10/1924	0.0
18/10/1924	0.0
19/10/1924	0.0
20/10/1924	0.0
21/10/1924	67.8
22/10/1924	1.3
23/10/1924	0.0
24/10/1924	0.0
25/10/1924	0.0
26/10/1924	0.0
27/10/1924	0.0
28/10/1924	255.2
29/10/1924	0.0
30/10/1924	76.8
31/10/1924	0.0
1/11/1924	323.6
2/11/1924	25.0
3/11/1924	0.0
4/11/1924	0.0
5/11/1924	0.0
6/11/1924	211.4
7/11/1924	0.0
8/11/1924	570.1
9/11/1924	0.0
10/11/1924	0.0
11/11/1924	93.2
12/11/1924	159.2
13/11/1924	0.0
14/11/1924	0.0
15/11/1924	0.0
16/11/1924	77.1
17/11/1924	0.0
18/11/1924	0.0
19/11/1924	0.0
20/11/1924	144.6
21/11/1924	43.1
22/11/1924	1.3
23/11/1924	576.5
24/11/1924	0.0
25/11/1924	0.0

26/11/1924	0.0
27/11/1924	0.0
28/11/1924	0.0
29/11/1924	0.0
30/11/1924	0.0
1/12/1924	16.0
2/12/1924	0.0
3/12/1924	0.0
4/12/1924	0.0
5/12/1924	0.0
6/12/1924	215.1
7/12/1924	525.4
8/12/1924	0.0
9/12/1924	0.0
10/12/1924	0.0
11/12/1924	0.0
12/12/1924	0.0
13/12/1924	0.0
14/12/1924	0.0
15/12/1924	313.0
16/12/1924	0.0
17/12/1924	45.8
18/12/1924	0.0
19/12/1924	0.0
20/12/1924	0.0
21/12/1924	0.0
22/12/1924	51.4
23/12/1924	0.0
24/12/1924	0.0
25/12/1924	0.0
26/12/1924	458.5
27/12/1924	297.6
28/12/1924	0.0
29/12/1924	0.0
30/12/1924	0.0
31/12/1924	0.0
1/01/1925	0.0
2/01/1925	0.0
3/01/1925	0.0
4/01/1925	1.3
5/01/1925	202.7
6/01/1925	0.0
7/01/1925	0.0
8/01/1925	0.0
9/01/1925	0.0
10/01/1925	9.4
11/01/1925	0.0
12/01/1925	0.0
13/01/1925	0.0
14/01/1925	0.0
15/01/1925	924.7
16/01/1925	459.9
17/01/1925	249.1

18/01/1925	112.9
19/01/1925	0.0
20/01/1925	0.0
21/01/1925	314.6
22/01/1925	107.5
23/01/1925	457.2
24/01/1925	0.0
25/01/1925	0.0
26/01/1925	0.0
27/01/1925	0.0
28/01/1925	0.0
29/01/1925	121.2
30/01/1925	286.2
31/01/1925	0.0
1/02/1925	0.0
2/02/1925	0.0
3/02/1925	0.0
4/02/1925	551.8
5/02/1925	0.0
6/02/1925	0.0
7/02/1925	564.1
8/02/1925	112.2
9/02/1925	0.7
10/02/1925	0.0
11/02/1925	204.1
12/02/1925	0.0
13/02/1925	0.0
14/02/1925	0.0
15/02/1925	0.0
16/02/1925	0.0
17/02/1925	0.0
18/02/1925	0.0
19/02/1925	0.0
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21/02/1925	0.0
22/02/1925	0.0
23/02/1925	0.0
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25/02/1925	0.0
26/02/1925	0.0
27/02/1925	0.0
28/02/1925	0.0
1/03/1925	0.0
2/03/1925	0.0
3/03/1925	808.9
4/03/1925	431.2
5/03/1925	0.0
6/03/1925	87.5
7/03/1925	43.1
8/03/1925	0.0
9/03/1925	0.0
10/03/1925	0.0
11/03/1925	0.0



12/03/1925	0.0
13/03/1925	0.0
14/03/1925	0.0
15/03/1925	93.8
16/03/1925	0.0
17/03/1925	0.0
18/03/1925	0.0
19/03/1925	30.7
20/03/1925	0.0
21/03/1925	0.0
22/03/1925	518.0
23/03/1925	0.0
24/03/1925	0.0
25/03/1925	0.0
26/03/1925	0.0
27/03/1925	0.0
28/03/1925	0.0
29/03/1925	0.0
30/03/1925	204.1
31/03/1925	0.0
1/04/1925	0.0
2/04/1925	0.0
3/04/1925	19.7
4/04/1925	0.0
5/04/1925	0.0
6/04/1925	0.0
7/04/1925	0.0
8/04/1925	44.1
9/04/1925	215.8
10/04/1925	575.5
11/04/1925	13.4
12/04/1925	0.0
13/04/1925	0.0
14/04/1925	0.0
15/04/1925	17.0
16/04/1925	505.3
17/04/1925	0.0
18/04/1925	0.0
19/04/1925	0.0
20/04/1925	0.0
21/04/1925	0.0
22/04/1925	17.4
23/04/1925	0.0
24/04/1925	0.0
25/04/1925	4.3
26/04/1925	0.0
27/04/1925	0.0
28/04/1925	0.0
29/04/1925	0.0
30/04/1925	0.0
1/05/1925	46.1
2/05/1925	598.2
3/05/1925	419.2

4/05/1925	1871.0
5/05/1925	831.9
6/05/1925	505.3
7/05/1925	0.0
8/05/1925	106.8
9/05/1925	436.2
10/05/1925	5627.2
11/05/1925	0.0
12/05/1925	0.0
13/05/1925	0.0
14/05/1925	0.0
15/05/1925	135.9
16/05/1925	697.1
17/05/1925	116.9
18/05/1925	0.0
19/05/1925	357.0
20/05/1925	0.0
21/05/1925	0.0
22/05/1925	0.0
23/05/1925	0.0
24/05/1925	0.0
25/05/1925	1740.4
26/05/1925	994.9
27/05/1925	0.0
28/05/1925	0.0
29/05/1925	0.0
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6/06/1925	0.0
7/06/1925	0.0
8/06/1925	0.0
9/06/1925	0.0
10/06/1925	114.2
11/06/1925	107.2
12/06/1925	20.7
13/06/1925	0.0
14/06/1925	92.5
15/06/1925	0.0
16/06/1925	0.0
17/06/1925	46.1
18/06/1925	580.2
19/06/1925	871.4
20/06/1925	215.1
21/06/1925	397.1
22/06/1925	500.3
23/06/1925	416.8
24/06/1925	0.0
25/06/1925	75.5

26/06/1925	0.0
27/06/1925	0.0
28/06/1925	206.1
29/06/1925	830.7
30/06/1925	5.6
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9/07/1925	0.0
10/07/1925	83.1
11/07/1925	0.0
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30/07/1925	0.0
31/07/1925	0.0
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2/08/1925	0.0
3/08/1925	0.0
4/08/1925	0.0
5/08/1925	0.0
6/08/1925	0.0
7/08/1925	25.7
8/08/1925	608.2
9/08/1925	560.8
10/08/1925	188.7
11/08/1925	29.4
12/08/1925	708.1
13/08/1925	451.9
14/08/1925	0.0
15/08/1925	0.0
16/08/1925	0.0
17/08/1925	0.0

18/08/1925	0.0
19/08/1925	29.7
20/08/1925	0.0
21/08/1925	0.0
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23/08/1925	0.0
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25/08/1925	0.0
26/08/1925	0.0
27/08/1925	0.0
28/08/1925	0.0
29/08/1925	636.2
30/08/1925	298.3
31/08/1925	684.0
1/09/1925	107.5
2/09/1925	0.0
3/09/1925	0.0
4/09/1925	0.0
5/09/1925	0.0
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7/09/1925	0.0
8/09/1925	0.0
9/09/1925	0.0
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11/09/1925	0.0
12/09/1925	0.7
13/09/1925	0.0
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3/10/1925	0.0
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5/10/1925	0.0
6/10/1925	0.0
7/10/1925	0.7
8/10/1925	0.0
9/10/1925	0.0

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11/10/1925	0.0
12/10/1925	136.3
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26/10/1925	0.0
27/10/1925	36.0
28/10/1925	0.0
29/10/1925	0.0
30/10/1925	24.7
31/10/1925	0.0
1/11/1925	0.0
2/11/1925	0.0
3/11/1925	0.0
4/11/1925	0.0
5/11/1925	3.6
6/11/1925	60.5
7/11/1925	0.0
8/11/1925	0.0
9/11/1925	0.0
10/11/1925	0.0
11/11/1925	53.4
12/11/1925	4.2
13/11/1925	0.0
14/11/1925	0.0
15/11/1925	0.0
16/11/1925	0.0
17/11/1925	0.0
18/11/1925	2480.5
19/11/1925	263.0
20/11/1925	280.7
21/11/1925	207.4
22/11/1925	25.0
23/11/1925	0.0
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27/11/1925	0.0
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29/11/1925	0.0
30/11/1925	0.0
1/12/1925	0.0

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3/12/1925	0.0
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6/12/1925	0.0
7/12/1925	34.4
8/12/1925	0.0
9/12/1925	0.0
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13/12/1925	0.0
14/12/1925	93.8
15/12/1925	0.0
16/12/1925	0.0
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28/12/1925	0.0
29/12/1925	0.0
30/12/1925	0.0
31/12/1925	6.3
1/01/1926	0.0
2/01/1926	92.5
3/01/1926	0.0
4/01/1926	7.7
5/01/1926	0.0
6/01/1926	9.0
7/01/1926	195.7
8/01/1926	109.6
9/01/1926	0.0
10/01/1926	0.0
11/01/1926	0.0
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16/01/1926	0.0
17/01/1926	0.0
18/01/1926	0.0
19/01/1926	1908.4
20/01/1926	0.0
21/01/1926	0.0
22/01/1926	0.0
23/01/1926	0.0

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6/02/1926	0.0
7/02/1926	0.0
8/02/1926	17.4
9/02/1926	662.3
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22/02/1926	21.0
23/02/1926	0.0
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25/02/1926	0.0
26/02/1926	0.0
27/02/1926	0.0
28/02/1926	0.0
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11/03/1926	0.0
12/03/1926	0.0
13/03/1926	0.0
14/03/1926	0.0
15/03/1926	843.0
16/03/1926	87.5
17/03/1926	681.4

18/03/1926	463.6
19/03/1926	0.0
20/03/1926	0.0
21/03/1926	0.0
22/03/1926	133.6
23/03/1926	343.4
24/03/1926	3956.2
25/03/1926	665.3
26/03/1926	1227.3
27/03/1926	397.5
28/03/1926	163.3
29/03/1926	0.0
30/03/1926	105.5
31/03/1926	219.4
1/04/1926	0.0
2/04/1926	0.0
3/04/1926	0.0
4/04/1926	0.0
5/04/1926	0.0
6/04/1926	81.2
7/04/1926	38.4
8/04/1926	0.0
9/04/1926	0.0
10/04/1926	0.0
11/04/1926	0.0
12/04/1926	178.7
13/04/1926	0.0
14/04/1926	145.0
15/04/1926	0.0
16/04/1926	270.5
17/04/1926	632.6
18/04/1926	863.1
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20/04/1926	0.0
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22/04/1926	0.0
23/04/1926	0.0
24/04/1926	143.3
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26/04/1926	0.0
27/04/1926	0.0
28/04/1926	0.0
29/04/1926	0.0
30/04/1926	0.0
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8/05/1926	0.0
9/05/1926	0.0



10/05/1926	251.2
11/05/1926	852.7
12/05/1926	0.0
13/05/1926	42.4
14/05/1926	40.4
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16/05/1926	129.6
17/05/1926	94.5
18/05/1926	121.6
19/05/1926	63.8
20/05/1926	95.9
21/05/1926	76.8
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30/05/1926	0.0
31/05/1926	438.5
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2/06/1926	67.1
3/06/1926	39.7
4/06/1926	0.0
5/06/1926	0.0
6/06/1926	76.2
7/06/1926	10.7
8/06/1926	96.2
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26/06/1926	0.0
27/06/1926	0.0
28/06/1926	127.6
29/06/1926	119.2
30/06/1926	103.8
1/07/1926	627.9

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22/07/1926	0.0
23/07/1926	177.0
24/07/1926	10.7
25/07/1926	0.0
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3/08/1926	42.8
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8/08/1926	68.5
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16/08/1926	0.0
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22/08/1926	26.0
23/08/1926	0.7

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8/09/1926	0.0
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23/09/1926	0.0
24/09/1926	0.0
25/09/1926	0.0
26/09/1926	11.6
27/09/1926	26.4
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29/09/1926	0.0
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6/12/1926	75.5
7/12/1926	62.8

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16/12/1926	99.2
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18/12/1926	509.3
19/12/1926	0.0
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26/12/1926	0.0
27/12/1926	674.7
28/12/1926	1831.6
29/12/1926	373.7
30/12/1926	38.1
31/12/1926	0.0
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9/01/1927	908.1
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14/01/1927	0.0
15/01/1927	0.0
16/01/1927	0.0
17/01/1927	930.2
18/01/1927	29.4
19/01/1927	0.0
20/01/1927	0.0
21/01/1927	546.8
22/01/1927	421.2
23/01/1927	0.0
24/01/1927	0.0
25/01/1927	0.0
26/01/1927	17.4
27/01/1927	32.1
28/01/1927	62.5
29/01/1927	16.0

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31/01/1927	0.0
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21/02/1927	276.5
22/02/1927	0.0
23/02/1927	0.0
24/02/1927	117.2
25/02/1927	49.4
26/02/1927	0.0
27/02/1927	0.0
28/02/1927	0.0
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19/04/1927	1534.7
20/04/1927	765.9
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22/05/1927	42.8
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28/05/1927	0.0
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30/05/1927	12.3
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12/06/1927	44.1
13/06/1927	156.0
14/06/1927	176.0
15/06/1927	162.0
16/06/1927	691.7
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29/09/1927	6.3
30/09/1927	241.5
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21/10/1927	42.8

22/10/1927	17.4
23/10/1927	169.0
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26/10/1927	0.0
27/10/1927	60.1
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20/11/1927	0.0
21/11/1927	0.0
22/11/1927	0.0
23/11/1927	63.5
24/11/1927	1579.8
25/11/1927	465.3
26/11/1927	839.6
27/11/1927	0.0
28/11/1927	0.0
29/11/1927	0.0
30/11/1927	0.7
1/12/1927	0.0
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6/12/1927	0.0
7/12/1927	0.0
8/12/1927	0.0
9/12/1927	220.8
10/12/1927	195.1
11/12/1927	1.3
12/12/1927	805.6
13/12/1927	0.0

14/12/1927	0.0
15/12/1927	0.0
16/12/1927	103.9
17/12/1927	0.0
18/12/1927	0.0
19/12/1927	51.4
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26/12/1927	0.0
27/12/1927	11.7
28/12/1927	319.3
29/12/1927	0.0
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31/12/1927	0.0
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3/01/1928	0.0
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5/01/1928	509.3
6/01/1928	0.0
7/01/1928	0.0
8/01/1928	482.3
9/01/1928	51.1
10/01/1928	0.0
11/01/1928	0.0
12/01/1928	0.0
13/01/1928	68.5
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15/01/1928	105.9
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27/01/1928	0.0
28/01/1928	122.5
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31/01/1928	0.0
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3/02/1928	0.0
4/02/1928	0.0

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6/02/1928	0.0
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8/02/1928	85.8
9/02/1928	0.0
10/02/1928	433.2
11/02/1928	0.0
12/02/1928	0.0
13/02/1928	93.9
14/02/1928	1510.6
15/02/1928	0.0
16/02/1928	381.1
17/02/1928	434.5
18/02/1928	701.1
19/02/1928	0.0
20/02/1928	0.7
21/02/1928	195.7
22/02/1928	0.0
23/02/1928	59.8
24/02/1928	0.0
25/02/1928	0.0
26/02/1928	195.7
27/02/1928	0.0
28/02/1928	0.0
29/02/1928	0.0
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16/03/1928	198.1
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26/03/1928	182.4
27/03/1928	318.3
28/03/1928	42.4

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6/05/1928	112.2
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27/05/1928	0.0
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9/12/1928	191.0
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5/02/1929	638.8
6/02/1929	156.4
7/02/1929	266.5
8/02/1929	231.5
9/02/1929	207.4

10/02/1929	1010.3
11/02/1929	2310.9
12/02/1929	325.3
13/02/1929	101.5
14/02/1929	1663.9
15/02/1929	7.3
16/02/1929	82.8
17/02/1929	52.8
18/02/1929	0.0
19/02/1929	373.7
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17/03/1929	280.6
18/03/1929	229.8
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27/03/1929	0.0
28/03/1929	139.3
29/03/1929	127.3
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2/04/1929	94.2
3/04/1929	1206.3

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26/04/1929	51.4
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13/05/1929	704.7
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23/05/1929	0.0
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25/05/1929	43.1
26/05/1929	187.3

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28/05/1929	286.2
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26/06/1929	0.0
27/06/1929	102.2
28/06/1929	663.0
29/06/1929	783.6
30/06/1929	352.4
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27/07/1929	0.0
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29/07/1929	886.4
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11/09/1929	122.9
12/09/1929	49.4
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26/09/1929	0.0
27/09/1929	0.0
28/09/1929	125.9
29/09/1929	0.0
30/09/1929	0.0
1/10/1929	0.0
2/10/1929	0.0
3/10/1929	0.0
4/10/1929	0.0
5/10/1929	0.0
6/10/1929	0.0
7/10/1929	0.0
8/10/1929	244.2
9/10/1929	1167.3
10/10/1929	316.0
11/10/1929	0.0
12/10/1929	773.9
13/10/1929	1441.1
14/10/1929	1211.7
15/10/1929	221.4
16/10/1929	0.0
17/10/1929	0.0
18/10/1929	33.7
19/10/1929	25.7
20/10/1929	0.0
21/10/1929	0.0
22/10/1929	0.0
23/10/1929	0.0
24/10/1929	0.0
25/10/1929	786.1
26/10/1929	0.0
27/10/1929	0.0
28/10/1929	0.0
29/10/1929	9.0
30/10/1929	0.0
31/10/1929	0.0
1/11/1929	0.0



2/11/1929	0.0
3/11/1929	13.4
4/11/1929	216.8
5/11/1929	63.5
6/11/1929	75.8
7/11/1929	49.8
8/11/1929	0.0
9/11/1929	0.0
10/11/1929	178.7
11/11/1929	160.3
12/11/1929	0.0
13/11/1929	0.0
14/11/1929	414.5
15/11/1929	0.0
16/11/1929	0.0
17/11/1929	686.4
18/11/1929	278.6
19/11/1929	3.7
20/11/1929	0.0
21/11/1929	0.0
22/11/1929	0.0
23/11/1929	0.0
24/11/1929	0.0
25/11/1929	26.1
26/11/1929	0.0
27/11/1929	0.0
28/11/1929	0.0
29/11/1929	0.0
30/11/1929	0.0
1/12/1929	0.0
2/12/1929	484.0
3/12/1929	0.0
4/12/1929	0.0
5/12/1929	0.0
6/12/1929	0.0
7/12/1929	0.0
8/12/1929	0.0
9/12/1929	0.0
10/12/1929	0.0
11/12/1929	612.2
12/12/1929	0.0
13/12/1929	9.4
14/12/1929	0.0
15/12/1929	0.0
16/12/1929	0.0
17/12/1929	0.0
18/12/1929	0.0
19/12/1929	0.0
20/12/1929	0.0
21/12/1929	0.0
22/12/1929	0.0
23/12/1929	0.0
24/12/1929	0.0

25/12/1929	0.0
26/12/1929	178.6
27/12/1929	0.0
28/12/1929	0.0
29/12/1929	0.0
30/12/1929	30.6
31/12/1929	309.0
1/01/1930	0.0
2/01/1930	0.0
3/01/1930	0.0
4/01/1930	0.0
5/01/1930	0.0
6/01/1930	0.0
7/01/1930	0.0
8/01/1930	0.0
9/01/1930	0.0
10/01/1930	0.0
11/01/1930	416.2
12/01/1930	33.1
13/01/1930	0.0
14/01/1930	0.0
15/01/1930	0.0
16/01/1930	0.0
17/01/1930	92.2
18/01/1930	0.0
19/01/1930	0.0
20/01/1930	0.0
21/01/1930	0.0
22/01/1930	0.0
23/01/1930	539.1
24/01/1930	1691.6
25/01/1930	91.2
26/01/1930	0.0
27/01/1930	71.8
28/01/1930	0.0
29/01/1930	0.0
30/01/1930	0.0
31/01/1930	0.0
1/02/1930	0.0
2/02/1930	0.0
3/02/1930	0.0
4/02/1930	0.0
5/02/1930	0.0
6/02/1930	0.0
7/02/1930	0.0
8/02/1930	0.0
9/02/1930	0.0
10/02/1930	0.0
11/02/1930	0.0
12/02/1930	0.0
13/02/1930	0.0
14/02/1930	0.0
15/02/1930	229.4

16/02/1930	9.0
17/02/1930	17.4
18/02/1930	0.0
19/02/1930	0.0
20/02/1930	0.0
21/02/1930	0.0
22/02/1930	0.0
23/02/1930	0.0
24/02/1930	26.7
25/02/1930	26.7
26/02/1930	0.0
27/02/1930	0.0
28/02/1930	0.0
1/03/1930	0.0
2/03/1930	0.0
3/03/1930	0.0
4/03/1930	0.0
5/03/1930	0.0
6/03/1930	0.0
7/03/1930	0.0
8/03/1930	10.7
9/03/1930	0.0
10/03/1930	361.4
11/03/1930	165.7
12/03/1930	0.0
13/03/1930	25.0
14/03/1930	664.3
15/03/1930	188.0
16/03/1930	0.0
17/03/1930	166.0
18/03/1930	985.2
19/03/1930	0.0
20/03/1930	59.1
21/03/1930	63.8
22/03/1930	0.0
23/03/1930	0.0
24/03/1930	0.0
25/03/1930	0.0
26/03/1930	195.7
27/03/1930	0.0
28/03/1930	0.0
29/03/1930	0.0
30/03/1930	0.0
31/03/1930	0.0
1/04/1930	0.0
2/04/1930	0.0
3/04/1930	0.0
4/04/1930	314.3
5/04/1930	70.8
6/04/1930	0.0
7/04/1930	0.0
8/04/1930	0.0
9/04/1930	0.0

10/04/1930	513.4
11/04/1930	564.1
12/04/1930	0.0
13/04/1930	0.0
14/04/1930	0.0
15/04/1930	139.3
16/04/1930	1777.1
17/04/1930	0.0
18/04/1930	0.0
19/04/1930	0.0
20/04/1930	0.0
21/04/1930	0.0
22/04/1930	0.0
23/04/1930	0.0
24/04/1930	142.5
25/04/1930	0.0
26/04/1930	0.0
27/04/1930	0.0
28/04/1930	0.0
29/04/1930	0.0
30/04/1930	0.0
1/05/1930	383.7
2/05/1930	1227.7
3/05/1930	1350.3
4/05/1930	52.4
5/05/1930	8.7
6/05/1930	0.0
7/05/1930	0.0
8/05/1930	0.0
9/05/1930	0.0
10/05/1930	0.0
11/05/1930	0.0
12/05/1930	127.6
13/05/1930	0.0
14/05/1930	0.0
15/05/1930	0.0
16/05/1930	0.0
17/05/1930	0.0
18/05/1930	0.0
19/05/1930	86.5
20/05/1930	133.9
21/05/1930	0.0
22/05/1930	0.0
23/05/1930	0.0
24/05/1930	0.0
25/05/1930	0.0
26/05/1930	0.0
27/05/1930	0.0
28/05/1930	0.0
29/05/1930	0.0
30/05/1930	0.0
31/05/1930	416.2
1/06/1930	1004.2

2/06/1930	0.0
3/06/1930	0.0
4/06/1930	0.0
5/06/1930	0.0
6/06/1930	0.0
7/06/1930	68.5
8/06/1930	0.0
9/06/1930	0.0
10/06/1930	0.0
11/06/1930	0.0
12/06/1930	51.4
13/06/1930	9.0
14/06/1930	0.0
15/06/1930	1105.4
16/06/1930	184.4
17/06/1930	821.3
18/06/1930	72.8
19/06/1930	259.8
20/06/1930	0.0
21/06/1930	0.0
22/06/1930	833.6
23/06/1930	800.9
24/06/1930	731.7
25/06/1930	447.5
26/06/1930	144.3
27/06/1930	149.3
28/06/1930	490.6
29/06/1930	598.9
30/06/1930	0.0
1/07/1930	0.0
2/07/1930	0.0
3/07/1930	68.5
4/07/1930	128.3
5/07/1930	910.0
6/07/1930	0.0
7/07/1930	0.0
8/07/1930	0.0
9/07/1930	0.0
10/07/1930	0.0
11/07/1930	0.0
12/07/1930	0.0
13/07/1930	0.0
14/07/1930	0.0
15/07/1930	0.0
16/07/1930	0.0
17/07/1930	0.0
18/07/1930	0.0
19/07/1930	0.0
20/07/1930	0.0
21/07/1930	0.0
22/07/1930	0.0
23/07/1930	15.7
24/07/1930	787.5

25/07/1930	347.0
26/07/1930	172.7
27/07/1930	0.0
28/07/1930	0.0
29/07/1930	0.0
30/07/1930	0.0
31/07/1930	0.0
1/08/1930	0.0
2/08/1930	0.0
3/08/1930	25.7
4/08/1930	0.0
5/08/1930	0.0
6/08/1930	0.0
7/08/1930	51.4
8/08/1930	0.0
9/08/1930	0.0
10/08/1930	0.0
11/08/1930	51.8
12/08/1930	0.0
13/08/1930	0.0
14/08/1930	0.0
15/08/1930	0.0
16/08/1930	0.0
17/08/1930	0.0
18/08/1930	0.0
19/08/1930	0.0
20/08/1930	0.0
21/08/1930	0.0
22/08/1930	0.0
23/08/1930	0.0
24/08/1930	121.6
25/08/1930	512.0
26/08/1930	0.0
27/08/1930	0.0
28/08/1930	0.0
29/08/1930	0.0
30/08/1930	0.0
31/08/1930	0.0
1/09/1930	0.0
2/09/1930	0.0
3/09/1930	0.0
4/09/1930	0.0
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8/09/1930	0.0
9/09/1930	0.0
10/09/1930	0.0
11/09/1930	0.0
12/09/1930	0.0
13/09/1930	0.0
14/09/1930	0.0
15/09/1930	0.0

16/09/1930	0.0
17/09/1930	0.0
18/09/1930	0.0
19/09/1930	0.0
20/09/1930	17.7
21/09/1930	0.0
22/09/1930	0.0
23/09/1930	0.3
24/09/1930	0.0
25/09/1930	0.0
26/09/1930	0.0
27/09/1930	0.0
28/09/1930	0.0
29/09/1930	0.0
30/09/1930	0.0
1/10/1930	0.0
2/10/1930	0.0
3/10/1930	0.0
4/10/1930	0.0
5/10/1930	0.0
6/10/1930	0.0
7/10/1930	0.0
8/10/1930	66.1
9/10/1930	0.0
10/10/1930	0.0
11/10/1930	602.8
12/10/1930	0.0
13/10/1930	0.0
14/10/1930	164.0
15/10/1930	122.3
16/10/1930	0.0
17/10/1930	0.0
18/10/1930	0.0
19/10/1930	0.0
20/10/1930	0.0
21/10/1930	9.0
22/10/1930	0.0
23/10/1930	217.4
24/10/1930	160.0
25/10/1930	40.4
26/10/1930	0.0
27/10/1930	0.0
28/10/1930	0.0
29/10/1930	26.1
30/10/1930	0.0
31/10/1930	0.0
1/11/1930	0.0
2/11/1930	0.0
3/11/1930	0.0
4/11/1930	0.0
5/11/1930	0.0
6/11/1930	0.0
7/11/1930	0.0

8/11/1930	0.0
9/11/1930	0.0
10/11/1930	0.0
11/11/1930	0.0
12/11/1930	0.0
13/11/1930	0.0
14/11/1930	0.0
15/11/1930	0.0
16/11/1930	0.0
17/11/1930	17.7
18/11/1930	0.0
19/11/1930	0.0
20/11/1930	0.0
21/11/1930	0.0
22/11/1930	17.4
23/11/1930	0.0
24/11/1930	170.3
25/11/1930	0.0
26/11/1930	0.3
27/11/1930	0.0
28/11/1930	0.0
29/11/1930	170.6
30/11/1930	10.4
1/12/1930	0.0
2/12/1930	0.0
3/12/1930	0.0
4/12/1930	0.0
5/12/1930	0.0
6/12/1930	0.0
7/12/1930	0.0
8/12/1930	305.6
9/12/1930	0.0
10/12/1930	0.0
11/12/1930	0.0
12/12/1930	0.0
13/12/1930	0.0
14/12/1930	126.3
15/12/1930	530.7
16/12/1930	134.9
17/12/1930	130.3
18/12/1930	39.1
19/12/1930	0.0
20/12/1930	0.0
21/12/1930	0.0
22/12/1930	0.0
23/12/1930	0.0
24/12/1930	0.0
25/12/1930	263.5
26/12/1930	0.0
27/12/1930	0.0
28/12/1930	823.6
29/12/1930	1005.3
30/12/1930	437.5



31/12/1930	0.0
1/01/1931	0.0
2/01/1931	270.2
3/01/1931	0.0
4/01/1931	0.0
5/01/1931	0.0
6/01/1931	0.0
7/01/1931	4.3
8/01/1931	22.0
9/01/1931	0.0
10/01/1931	0.0
11/01/1931	0.0
12/01/1931	0.0
13/01/1931	3.6
14/01/1931	65.5
15/01/1931	0.0
16/01/1931	22.7
17/01/1931	2.0
18/01/1931	153.8
19/01/1931	0.0
20/01/1931	27.1
21/01/1931	0.0
22/01/1931	0.0
23/01/1931	0.0
24/01/1931	144.0
25/01/1931	196.4
26/01/1931	0.0
27/01/1931	84.8
28/01/1931	252.3
29/01/1931	0.0
30/01/1931	0.0
31/01/1931	0.0
1/02/1931	0.0
2/02/1931	212.7
3/02/1931	0.0
4/02/1931	0.0
5/02/1931	36.1
6/02/1931	83.8
7/02/1931	0.0
8/02/1931	0.0
9/02/1931	0.0
10/02/1931	0.0
11/02/1931	102.2
12/02/1931	0.0
13/02/1931	0.0
14/02/1931	113.6
15/02/1931	0.0
16/02/1931	0.0
17/02/1931	51.4
18/02/1931	81.8
19/02/1931	0.0
20/02/1931	153.3
21/02/1931	0.0

22/02/1931	0.0
23/02/1931	0.0
24/02/1931	0.0
25/02/1931	0.0
26/02/1931	0.0
27/02/1931	0.0
28/02/1931	98.5
1/03/1931	0.0
2/03/1931	17.3
3/03/1931	10.7
4/03/1931	0.0
5/03/1931	560.5
6/03/1931	76.8
7/03/1931	0.0
8/03/1931	0.0
9/03/1931	0.0
10/03/1931	336.0
11/03/1931	29.7
12/03/1931	0.0
13/03/1931	0.0
14/03/1931	28.4
15/03/1931	1505.2
16/03/1931	0.0
17/03/1931	56.1
18/03/1931	0.0
19/03/1931	0.0
20/03/1931	944.9
21/03/1931	0.0
22/03/1931	0.0
23/03/1931	854.3
24/03/1931	533.2
25/03/1931	0.0
26/03/1931	187.0
27/03/1931	0.0
28/03/1931	0.0
29/03/1931	0.0
30/03/1931	0.0
31/03/1931	58.1
1/04/1931	601.9
2/04/1931	0.0
3/04/1931	0.0
4/04/1931	0.0
5/04/1931	0.0
6/04/1931	119.2
7/04/1931	0.0
8/04/1931	0.0
9/04/1931	0.0
10/04/1931	0.0
11/04/1931	0.0
12/04/1931	0.0
13/04/1931	0.0
14/04/1931	27.7
15/04/1931	21.6

16/04/1931	225.2
17/04/1931	0.0
18/04/1931	0.0
19/04/1931	111.5
20/04/1931	991.0
21/04/1931	107.5
22/04/1931	344.7
23/04/1931	15.0
24/04/1931	1834.6
25/04/1931	55.1
26/04/1931	695.1
27/04/1931	72.5
28/04/1931	0.0
29/04/1931	0.0
30/04/1931	0.0
1/05/1931	0.0
2/05/1931	0.0
3/05/1931	0.0
4/05/1931	0.0
5/05/1931	34.4
6/05/1931	0.0
7/05/1931	124.2
8/05/1931	0.0
9/05/1931	0.0
10/05/1931	0.0
11/05/1931	0.0
12/05/1931	0.0
13/05/1931	0.0
14/05/1931	100.2
15/05/1931	0.0
16/05/1931	0.0
17/05/1931	0.0
18/05/1931	0.0
19/05/1931	0.0
20/05/1931	0.0
21/05/1931	0.0
22/05/1931	0.0
23/05/1931	56.6
24/05/1931	0.0
25/05/1931	0.0
26/05/1931	0.0
27/05/1931	1200.0
28/05/1931	817.3
29/05/1931	0.0
30/05/1931	0.0
31/05/1931	0.0
1/06/1931	0.0
2/06/1931	0.0
3/06/1931	0.0
4/06/1931	8.7
5/06/1931	60.8
6/06/1931	0.0
7/06/1931	26.1

8/06/1931	0.0
9/06/1931	0.0
10/06/1931	0.0
11/06/1931	0.0
12/06/1931	0.0
13/06/1931	0.0
14/06/1931	0.0
15/06/1931	0.0
16/06/1931	681.3
17/06/1931	391.7
18/06/1931	87.5
19/06/1931	0.0
20/06/1931	0.0
21/06/1931	0.0
22/06/1931	96.2
23/06/1931	13.7
24/06/1931	86.8
25/06/1931	68.5
26/06/1931	0.0
27/06/1931	0.0
28/06/1931	0.0
29/06/1931	0.0
30/06/1931	0.0
1/07/1931	0.0
2/07/1931	0.0
3/07/1931	0.0
4/07/1931	32.7
5/07/1931	725.1
6/07/1931	6269.1
7/07/1931	2387.0
8/07/1931	76.8
9/07/1931	321.6
10/07/1931	0.0
11/07/1931	0.0
12/07/1931	0.0
13/07/1931	0.0
14/07/1931	0.0
15/07/1931	0.0
16/07/1931	0.0
17/07/1931	0.0
18/07/1931	0.0
19/07/1931	0.0
20/07/1931	0.0
21/07/1931	171.7
22/07/1931	0.0
23/07/1931	0.0
24/07/1931	0.0
25/07/1931	0.0
26/07/1931	0.0
27/07/1931	0.0
28/07/1931	0.0
29/07/1931	0.0
30/07/1931	0.0

31/07/1931	0.0
1/08/1931	0.0
2/08/1931	0.0
3/08/1931	96.9
4/08/1931	0.0
5/08/1931	0.0
6/08/1931	0.0
7/08/1931	0.0
8/08/1931	0.0
9/08/1931	0.0
10/08/1931	59.8
11/08/1931	0.0
12/08/1931	0.0
13/08/1931	0.0
14/08/1931	0.0
15/08/1931	0.0
16/08/1931	0.0
17/08/1931	0.0
18/08/1931	0.0
19/08/1931	0.0
20/08/1931	0.0
21/08/1931	0.0
22/08/1931	0.0
23/08/1931	0.0
24/08/1931	0.0
25/08/1931	0.0
26/08/1931	0.0
27/08/1931	0.0
28/08/1931	0.0
29/08/1931	0.0
30/08/1931	0.0
31/08/1931	0.0
1/09/1931	151.6
2/09/1931	0.0
3/09/1931	21.4
4/09/1931	1896.7
5/09/1931	0.0
6/09/1931	0.0
7/09/1931	0.0
8/09/1931	0.0
9/09/1931	34.7
10/09/1931	0.0
11/09/1931	263.2
12/09/1931	0.0
13/09/1931	0.0
14/09/1931	0.0
15/09/1931	0.0
16/09/1931	0.0
17/09/1931	0.0
18/09/1931	0.0
19/09/1931	0.0
20/09/1931	0.0
21/09/1931	0.0

22/09/1931	0.0
23/09/1931	0.0
24/09/1931	0.0
25/09/1931	17.3
26/09/1931	931.8
27/09/1931	0.0
28/09/1931	0.0
29/09/1931	0.0
30/09/1931	88.6
1/10/1931	0.0
2/10/1931	38.1
3/10/1931	47.1
4/10/1931	0.0
5/10/1931	0.0
6/10/1931	0.0
7/10/1931	0.0
8/10/1931	0.0
9/10/1931	0.0
10/10/1931	0.0
11/10/1931	0.0
12/10/1931	0.0
13/10/1931	0.0
14/10/1931	0.0
15/10/1931	0.0
16/10/1931	0.0
17/10/1931	0.0
18/10/1931	9.0
19/10/1931	0.0
20/10/1931	0.0
21/10/1931	0.0
22/10/1931	0.0
23/10/1931	204.1
24/10/1931	0.0
25/10/1931	0.0
26/10/1931	0.0
27/10/1931	0.0
28/10/1931	0.0
29/10/1931	0.0
30/10/1931	135.9
31/10/1931	0.0
1/11/1931	317.3
2/11/1931	0.0
3/11/1931	0.0
4/11/1931	0.0
5/11/1931	56.6
6/11/1931	0.0
7/11/1931	0.0
8/11/1931	716.1
9/11/1931	371.1
10/11/1931	0.0
11/11/1931	0.0
12/11/1931	0.0
13/11/1931	0.0

14/11/1931	0.0
15/11/1931	0.0
16/11/1931	76.8
17/11/1931	0.0
18/11/1931	0.0
19/11/1931	306.3
20/11/1931	0.0
21/11/1931	406.1
22/11/1931	0.0
23/11/1931	0.0
24/11/1931	0.0
25/11/1931	0.0
26/11/1931	0.0
27/11/1931	0.0
28/11/1931	9.0
29/11/1931	0.0
30/11/1931	0.0
1/12/1931	0.0
2/12/1931	101.9
3/12/1931	449.2
4/12/1931	0.0
5/12/1931	136.3
6/12/1931	0.0
7/12/1931	0.0
8/12/1931	21.8
9/12/1931	491.6
10/12/1931	0.0
11/12/1931	0.0
12/12/1931	0.0
13/12/1931	0.0
14/12/1931	0.0
15/12/1931	0.0
16/12/1931	0.0
17/12/1931	0.0
18/12/1931	0.0
19/12/1931	0.0
20/12/1931	0.0
21/12/1931	0.0
22/12/1931	985.6
23/12/1931	56.1
24/12/1931	0.0
25/12/1931	0.0
26/12/1931	0.0
27/12/1931	0.0
28/12/1931	0.0
29/12/1931	0.0
30/12/1931	0.0
31/12/1931	25.7
1/01/1932	0.0
2/01/1932	0.0
3/01/1932	0.0
4/01/1932	0.0
5/01/1932	0.0

6/01/1932	0.0
7/01/1932	0.0
8/01/1932	0.0
9/01/1932	0.0
10/01/1932	0.0
11/01/1932	0.0
12/01/1932	0.0
13/01/1932	0.0
14/01/1932	0.0
15/01/1932	0.0
16/01/1932	0.0
17/01/1932	0.0
18/01/1932	0.0
19/01/1932	0.0
20/01/1932	0.0
21/01/1932	0.0
22/01/1932	0.0
23/01/1932	170.0
24/01/1932	0.0
25/01/1932	0.0
26/01/1932	0.0
27/01/1932	0.0
28/01/1932	0.0
29/01/1932	0.0
30/01/1932	0.0
31/01/1932	0.0
1/02/1932	51.1
2/02/1932	0.0
3/02/1932	0.0
4/02/1932	0.0
5/02/1932	0.0
6/02/1932	783.9
7/02/1932	76.8
8/02/1932	0.0
9/02/1932	0.0
10/02/1932	0.0
11/02/1932	0.0
12/02/1932	0.0
13/02/1932	288.9
14/02/1932	0.0
15/02/1932	380.1
16/02/1932	2545.3
17/02/1932	8.3
18/02/1932	0.0
19/02/1932	0.0
20/02/1932	0.0
21/02/1932	0.0
22/02/1932	0.0
23/02/1932	0.0
24/02/1932	0.0
25/02/1932	0.0
26/02/1932	0.0
27/02/1932	0.0



28/02/1932	0.0
29/02/1932	0.0
1/03/1932	0.0
2/03/1932	0.0
3/03/1932	0.0
4/03/1932	0.0
5/03/1932	0.0
6/03/1932	0.0
7/03/1932	0.0
8/03/1932	9.0
9/03/1932	51.1
10/03/1932	0.0
11/03/1932	0.0
12/03/1932	0.0
13/03/1932	0.0
14/03/1932	0.0
15/03/1932	125.6
16/03/1932	439.5
17/03/1932	1476.5
18/03/1932	0.0
19/03/1932	0.0
20/03/1932	0.0
21/03/1932	0.0
22/03/1932	0.0
23/03/1932	0.0
24/03/1932	0.0
25/03/1932	0.0
26/03/1932	0.0
27/03/1932	0.0
28/03/1932	0.0
29/03/1932	0.0
30/03/1932	0.0
31/03/1932	0.0
1/04/1932	0.0
2/04/1932	0.0
3/04/1932	0.0
4/04/1932	93.8
5/04/1932	119.9
6/04/1932	763.5
7/04/1932	0.0
8/04/1932	263.5
9/04/1932	0.0
10/04/1932	0.0
11/04/1932	0.0
12/04/1932	43.1
13/04/1932	0.0
14/04/1932	46.1
15/04/1932	0.0
16/04/1932	0.0
17/04/1932	567.1
18/04/1932	0.0
19/04/1932	0.0
20/04/1932	0.0

21/04/1932	0.0
22/04/1932	0.0
23/04/1932	497.6
24/04/1932	0.0
25/04/1932	0.0
26/04/1932	0.0
27/04/1932	0.0
28/04/1932	0.0
29/04/1932	1.3
30/04/1932	109.9
1/05/1932	0.0
2/05/1932	51.1
3/05/1932	0.0
4/05/1932	0.0
5/05/1932	17.7
6/05/1932	0.0
7/05/1932	0.0
8/05/1932	0.0
9/05/1932	0.0
10/05/1932	0.0
11/05/1932	2.6
12/05/1932	0.0
13/05/1932	0.0
14/05/1932	0.0
15/05/1932	0.0
16/05/1932	0.0
17/05/1932	47.1
18/05/1932	0.0
19/05/1932	0.0
20/05/1932	66.1
21/05/1932	199.1
22/05/1932	114.6
23/05/1932	69.8
24/05/1932	0.0
25/05/1932	396.5
26/05/1932	0.0
27/05/1932	102.2
28/05/1932	0.3
29/05/1932	177.7
30/05/1932	35.7
31/05/1932	0.0
1/06/1932	0.0
2/06/1932	0.0
3/06/1932	51.4
4/06/1932	0.0
5/06/1932	0.0
6/06/1932	0.0
7/06/1932	0.0
8/06/1932	0.0
9/06/1932	0.0
10/06/1932	0.0
11/06/1932	0.0
12/06/1932	94.0

13/06/1932	42.6
14/06/1932	0.0
15/06/1932	76.8
16/06/1932	0.0
17/06/1932	0.0
18/06/1932	0.0
19/06/1932	0.0
20/06/1932	0.0
21/06/1932	76.8
22/06/1932	0.0
23/06/1932	0.0
24/06/1932	0.0
25/06/1932	0.0
26/06/1932	0.0
27/06/1932	406.1
28/06/1932	0.0
29/06/1932	0.0
30/06/1932	0.0
1/07/1932	0.0
2/07/1932	0.0
3/07/1932	0.0
4/07/1932	0.0
5/07/1932	0.0
6/07/1932	187.3
7/07/1932	820.6
8/07/1932	0.0
9/07/1932	0.0
10/07/1932	82.2
11/07/1932	826.7
12/07/1932	42.8
13/07/1932	0.0
14/07/1932	0.0
15/07/1932	0.0
16/07/1932	0.0
17/07/1932	0.0
18/07/1932	0.0
19/07/1932	0.0
20/07/1932	0.0
21/07/1932	0.0
22/07/1932	0.0
23/07/1932	0.0
24/07/1932	0.0
25/07/1932	0.0
26/07/1932	0.0
27/07/1932	0.0
28/07/1932	0.0
29/07/1932	0.0
30/07/1932	0.0
31/07/1932	301.6
1/08/1932	98.2
2/08/1932	651.3
3/08/1932	104.9
4/08/1932	0.0

5/08/1932	0.0
6/08/1932	0.0
7/08/1932	0.0
8/08/1932	0.0
9/08/1932	0.0
10/08/1932	0.0
11/08/1932	0.0
12/08/1932	37.9
13/08/1932	0.0
14/08/1932	0.0
15/08/1932	0.0
16/08/1932	0.0
17/08/1932	0.0
18/08/1932	0.0
19/08/1932	0.0
20/08/1932	0.0
21/08/1932	0.0
22/08/1932	0.0
23/08/1932	0.0
24/08/1932	0.0
25/08/1932	0.0
26/08/1932	0.0
27/08/1932	25.4
28/08/1932	136.9
29/08/1932	0.0
30/08/1932	271.8
31/08/1932	0.0
1/09/1932	0.0
2/09/1932	0.0
3/09/1932	0.0
4/09/1932	0.0
5/09/1932	315.6
6/09/1932	10.4
7/09/1932	0.0
8/09/1932	104.5
9/09/1932	289.9
10/09/1932	965.9
11/09/1932	183.0
12/09/1932	378.8
13/09/1932	0.0
14/09/1932	72.5
15/09/1932	419.1
16/09/1932	0.0
17/09/1932	26.8
18/09/1932	348.0
19/09/1932	35.1
20/09/1932	0.0
21/09/1932	0.0
22/09/1932	1706.0
23/09/1932	98.5
24/09/1932	588.8
25/09/1932	62.1
26/09/1932	7.7

27/09/1932	61.1
28/09/1932	48.3
29/09/1932	0.0
30/09/1932	0.0
1/10/1932	0.0
2/10/1932	0.0
3/10/1932	0.0
4/10/1932	0.0
5/10/1932	85.1
6/10/1932	0.0
7/10/1932	0.0
8/10/1932	68.5
9/10/1932	0.0
10/10/1932	0.0
11/10/1932	0.0
12/10/1932	0.0
13/10/1932	146.5
14/10/1932	0.0
15/10/1932	0.0
16/10/1932	52.8
17/10/1932	0.0
18/10/1932	43.4
19/10/1932	0.0
20/10/1932	0.0
21/10/1932	0.0
22/10/1932	0.0
23/10/1932	23.7
24/10/1932	1.7
25/10/1932	0.0
26/10/1932	0.0
27/10/1932	0.0
28/10/1932	0.0
29/10/1932	0.0
30/10/1932	0.0
31/10/1932	67.1
1/11/1932	0.0
2/11/1932	0.0
3/11/1932	0.0
4/11/1932	0.0
5/11/1932	0.0
6/11/1932	0.0
7/11/1932	0.0
8/11/1932	0.0
9/11/1932	0.0
10/11/1932	0.0
11/11/1932	0.0
12/11/1932	0.0
13/11/1932	110.6
14/11/1932	0.0
15/11/1932	119.2
16/11/1932	0.0
17/11/1932	0.0
18/11/1932	2.0

19/11/1932	24.3
20/11/1932	2177.9
21/11/1932	0.0
22/11/1932	119.2
23/11/1932	0.0
24/11/1932	0.0
25/11/1932	0.0
26/11/1932	0.0
27/11/1932	0.0
28/11/1932	0.0
29/11/1932	0.0
30/11/1932	0.0
1/12/1932	0.0
2/12/1932	0.0
3/12/1932	0.0
4/12/1932	34.4
5/12/1932	0.0
6/12/1932	0.0
7/12/1932	0.0
8/12/1932	0.0
9/12/1932	0.0
10/12/1932	0.0
11/12/1932	0.0
12/12/1932	0.0
13/12/1932	134.9
14/12/1932	0.0
15/12/1932	670.3
16/12/1932	759.4
17/12/1932	0.0
18/12/1932	0.0
19/12/1932	0.0
20/12/1932	0.0
21/12/1932	0.0
22/12/1932	0.0
23/12/1932	217.1
24/12/1932	501.9
25/12/1932	0.0
26/12/1932	0.0
27/12/1932	0.0
28/12/1932	0.0
29/12/1932	9.0
30/12/1932	694.7
31/12/1932	0.0
1/01/1933	0.0
2/01/1933	0.0
3/01/1933	0.0
4/01/1933	144.6
5/01/1933	0.0
6/01/1933	0.0
7/01/1933	0.0
8/01/1933	0.0
9/01/1933	0.0
10/01/1933	0.0

11/01/1933	0.0
12/01/1933	0.0
13/01/1933	0.0
14/01/1933	0.0
15/01/1933	127.9
16/01/1933	0.0
17/01/1933	0.0
18/01/1933	0.0
19/01/1933	0.0
20/01/1933	16.0
21/01/1933	567.5
22/01/1933	273.5
23/01/1933	2801.2
24/01/1933	0.0
25/01/1933	0.0
26/01/1933	273.9
27/01/1933	414.1
28/01/1933	0.0
29/01/1933	150.3
30/01/1933	0.0
31/01/1933	34.4
1/02/1933	0.0
2/02/1933	0.0
3/02/1933	0.0
4/02/1933	28.7
5/02/1933	0.0
6/02/1933	0.0
7/02/1933	0.0
8/02/1933	0.0
9/02/1933	0.0
10/02/1933	0.0
11/02/1933	0.0
12/02/1933	0.0
13/02/1933	0.0
14/02/1933	0.0
15/02/1933	0.0
16/02/1933	0.0
17/02/1933	0.0
18/02/1933	0.0
19/02/1933	0.0
20/02/1933	0.0
21/02/1933	0.0
22/02/1933	0.0
23/02/1933	0.0
24/02/1933	0.0
25/02/1933	0.0
26/02/1933	0.0
27/02/1933	0.0
28/02/1933	0.0
1/03/1933	0.0
2/03/1933	0.0
3/03/1933	813.3
4/03/1933	0.0

5/03/1933	8.3
6/03/1933	0.0
7/03/1933	0.0
8/03/1933	0.0
9/03/1933	26.1
10/03/1933	0.0
11/03/1933	0.0
12/03/1933	0.0
13/03/1933	0.0
14/03/1933	0.0
15/03/1933	0.0
16/03/1933	0.0
17/03/1933	0.0
18/03/1933	0.0
19/03/1933	0.0
20/03/1933	51.4
21/03/1933	0.0
22/03/1933	0.0
23/03/1933	0.0
24/03/1933	0.0
25/03/1933	0.0
26/03/1933	0.0
27/03/1933	302.2
28/03/1933	284.2
29/03/1933	0.0
30/03/1933	1.3
31/03/1933	119.6
1/04/1933	47.4
2/04/1933	0.0
3/04/1933	363.4
4/04/1933	300.6
5/04/1933	1365.0
6/04/1933	2700.7
7/04/1933	0.0
8/04/1933	0.0
9/04/1933	0.0
10/04/1933	0.0
11/04/1933	0.0
12/04/1933	0.0
13/04/1933	0.0
14/04/1933	0.0
15/04/1933	0.0
16/04/1933	0.0
17/04/1933	0.0
18/04/1933	0.0
19/04/1933	0.0
20/04/1933	0.0
21/04/1933	0.0
22/04/1933	0.0
23/04/1933	0.0
24/04/1933	49.8
25/04/1933	104.5
26/04/1933	31.0



27/04/1933	26.1
28/04/1933	0.0
29/04/1933	327.0
30/04/1933	0.0
1/05/1933	0.0
2/05/1933	0.0
3/05/1933	0.0
4/05/1933	0.0
5/05/1933	0.0
6/05/1933	0.0
7/05/1933	0.0
8/05/1933	0.0
9/05/1933	0.0
10/05/1933	0.0
11/05/1933	0.0
12/05/1933	0.0
13/05/1933	0.0
14/05/1933	59.8
15/05/1933	0.0
16/05/1933	0.0
17/05/1933	0.0
18/05/1933	195.0
19/05/1933	3609.8
20/05/1933	281.2
21/05/1933	204.0
22/05/1933	0.0
23/05/1933	40.7
24/05/1933	0.0
25/05/1933	0.0
26/05/1933	0.0
27/05/1933	0.0
28/05/1933	0.0
29/05/1933	0.0
30/05/1933	0.0
31/05/1933	0.0
1/06/1933	0.0
2/06/1933	0.0
3/06/1933	0.0
4/06/1933	43.1
5/06/1933	47.1
6/06/1933	479.9
7/06/1933	0.0
8/06/1933	0.0
9/06/1933	185.7
10/06/1933	244.9
11/06/1933	17.9
12/06/1933	28.4
13/06/1933	0.0
14/06/1933	0.0
15/06/1933	0.0
16/06/1933	0.0
17/06/1933	0.0
18/06/1933	0.0

19/06/1933	17.4
20/06/1933	0.0
21/06/1933	0.0
22/06/1933	0.0
23/06/1933	110.5
24/06/1933	0.0
25/06/1933	0.0
26/06/1933	0.0
27/06/1933	0.0
28/06/1933	0.0
29/06/1933	0.0
30/06/1933	0.0
1/07/1933	39.7
2/07/1933	0.0
3/07/1933	873.3
4/07/1933	57.8
5/07/1933	0.0
6/07/1933	0.0
7/07/1933	0.0
8/07/1933	0.0
9/07/1933	0.7
10/07/1933	0.0
11/07/1933	0.0
12/07/1933	0.0
13/07/1933	110.9
14/07/1933	0.0
15/07/1933	42.8
16/07/1933	0.0
17/07/1933	0.0
18/07/1933	0.0
19/07/1933	0.0
20/07/1933	0.0
21/07/1933	0.0
22/07/1933	0.0
23/07/1933	0.0
24/07/1933	438.9
25/07/1933	213.1
26/07/1933	231.8
27/07/1933	212.8
28/07/1933	9.0
29/07/1933	0.0
30/07/1933	0.0
31/07/1933	0.0
1/08/1933	0.0
2/08/1933	0.0
3/08/1933	0.0
4/08/1933	0.0
5/08/1933	0.0
6/08/1933	0.0
7/08/1933	0.0
8/08/1933	0.0
9/08/1933	0.0
10/08/1933	0.0

11/08/1933	0.0
12/08/1933	67.8
13/08/1933	9.4
14/08/1933	0.7
15/08/1933	0.0
16/08/1933	0.0
17/08/1933	0.0
18/08/1933	0.0
19/08/1933	0.0
20/08/1933	0.0
21/08/1933	0.0
22/08/1933	0.0
23/08/1933	0.0
24/08/1933	0.0
25/08/1933	0.0
26/08/1933	0.0
27/08/1933	0.0
28/08/1933	0.0
29/08/1933	0.0
30/08/1933	0.0
31/08/1933	0.0
1/09/1933	58.4
2/09/1933	0.0
3/09/1933	0.0
4/09/1933	0.0
5/09/1933	17.4
6/09/1933	0.0
7/09/1933	0.0
8/09/1933	365.4
9/09/1933	0.0
10/09/1933	0.0
11/09/1933	18.5
12/09/1933	0.0
13/09/1933	3.7
14/09/1933	0.0
15/09/1933	0.0
16/09/1933	0.0
17/09/1933	0.0
18/09/1933	0.0
19/09/1933	0.0
20/09/1933	0.0
21/09/1933	0.0
22/09/1933	0.0
23/09/1933	186.4
24/09/1933	552.8
25/09/1933	0.0
26/09/1933	148.3
27/09/1933	274.5
28/09/1933	199.7
29/09/1933	92.5
30/09/1933	0.0
1/10/1933	869.0
2/10/1933	11.0

3/10/1933	0.0
4/10/1933	0.0
5/10/1933	0.0
6/10/1933	0.0
7/10/1933	0.0
8/10/1933	0.0
9/10/1933	433.2
10/10/1933	0.0
11/10/1933	0.0
12/10/1933	0.0
13/10/1933	0.0
14/10/1933	0.0
15/10/1933	0.0
16/10/1933	0.0
17/10/1933	0.0
18/10/1933	0.0
19/10/1933	0.0
20/10/1933	0.0
21/10/1933	0.0
22/10/1933	0.0
23/10/1933	0.0
24/10/1933	239.8
25/10/1933	0.0
26/10/1933	786.5
27/10/1933	176.9
28/10/1933	0.0
29/10/1933	0.0
30/10/1933	43.1
31/10/1933	0.0
1/11/1933	0.0
2/11/1933	0.0
3/11/1933	0.0
4/11/1933	110.5
5/11/1933	0.0
6/11/1933	981.2
7/11/1933	679.7
8/11/1933	0.0
9/11/1933	0.0
10/11/1933	0.0
11/11/1933	17.4
12/11/1933	0.0
13/11/1933	0.0
14/11/1933	0.0
15/11/1933	207.7
16/11/1933	0.0
17/11/1933	0.0
18/11/1933	122.2
19/11/1933	404.4
20/11/1933	4.3
21/11/1933	146.6
22/11/1933	458.2
23/11/1933	0.0
24/11/1933	0.0

25/11/1933	0.0
26/11/1933	0.0
27/11/1933	0.0
28/11/1933	0.0
29/11/1933	0.0
30/11/1933	23.4
1/12/1933	163.7
2/12/1933	0.0
3/12/1933	68.5
4/12/1933	0.0
5/12/1933	493.1
6/12/1933	0.0
7/12/1933	0.0
8/12/1933	436.9
9/12/1933	245.2
10/12/1933	79.9
11/12/1933	23.0
12/12/1933	261.2
13/12/1933	0.0
14/12/1933	0.7
15/12/1933	0.0
16/12/1933	0.0
17/12/1933	21.4
18/12/1933	0.0
19/12/1933	0.0
20/12/1933	9.0
21/12/1933	0.0
22/12/1933	417.1
23/12/1933	0.0
24/12/1933	9.0
25/12/1933	0.0
26/12/1933	0.0
27/12/1933	0.0
28/12/1933	0.0
29/12/1933	0.0
30/12/1933	0.0
31/12/1933	0.0
1/01/1934	0.0
2/01/1934	0.0
3/01/1934	9.0
4/01/1934	0.0
5/01/1934	195.4
6/01/1934	737.5
7/01/1934	358.0
8/01/1934	0.0
9/01/1934	0.0
10/01/1934	39.4
11/01/1934	0.0
12/01/1934	0.0
13/01/1934	0.0
14/01/1934	0.0
15/01/1934	0.0
16/01/1934	0.0

17/01/1934	0.0
18/01/1934	0.0
19/01/1934	0.0
20/01/1934	0.0
21/01/1934	110.9
22/01/1934	0.0
23/01/1934	0.0
24/01/1934	0.0
25/01/1934	0.0
26/01/1934	0.0
27/01/1934	0.0
28/01/1934	0.0
29/01/1934	0.0
30/01/1934	201.1
31/01/1934	37.4
1/02/1934	309.6
2/02/1934	2615.1
3/02/1934	0.0
4/02/1934	0.0
5/02/1934	5.0
6/02/1934	0.0
7/02/1934	0.0
8/02/1934	0.0
9/02/1934	0.0
10/02/1934	0.0
11/02/1934	0.0
12/02/1934	0.0
13/02/1934	9.0
14/02/1934	0.0
15/02/1934	0.0
16/02/1934	0.0
17/02/1934	0.0
18/02/1934	153.3
19/02/1934	0.0
20/02/1934	528.7
21/02/1934	894.1
22/02/1934	1570.4
23/02/1934	119.2
24/02/1934	0.0
25/02/1934	0.0
26/02/1934	59.8
27/02/1934	0.0
28/02/1934	0.0
1/03/1934	0.0
2/03/1934	0.0
3/03/1934	0.0
4/03/1934	0.0
5/03/1934	0.0
6/03/1934	0.0
7/03/1934	0.0
8/03/1934	0.0
9/03/1934	0.0
10/03/1934	0.0

11/03/1934	0.0
12/03/1934	0.0
13/03/1934	10.4
14/03/1934	0.0
15/03/1934	0.0
16/03/1934	0.0
17/03/1934	0.0
18/03/1934	379.4
19/03/1934	207.0
20/03/1934	0.0
21/03/1934	0.0
22/03/1934	0.0
23/03/1934	0.0
24/03/1934	0.0
25/03/1934	0.0
26/03/1934	399.1
27/03/1934	105.5
28/03/1934	131.6
29/03/1934	0.0
30/03/1934	0.0
31/03/1934	172.0
1/04/1934	0.0
2/04/1934	6.0
3/04/1934	0.0
4/04/1934	0.0
5/04/1934	294.9
6/04/1934	274.5
7/04/1934	0.0
8/04/1934	0.0
9/04/1934	49.4
10/04/1934	357.3
11/04/1934	469.9
12/04/1934	2464.2
13/04/1934	26.7
14/04/1934	0.0
15/04/1934	873.1
16/04/1934	0.0
17/04/1934	0.0
18/04/1934	0.0
19/04/1934	0.0
20/04/1934	0.0
21/04/1934	0.0
22/04/1934	0.0
23/04/1934	0.0
24/04/1934	0.0
25/04/1934	453.9
26/04/1934	404.1
27/04/1934	0.0
28/04/1934	88.5
29/04/1934	98.9
30/04/1934	0.0
1/05/1934	0.0
2/05/1934	0.0

3/05/1934	254.2
4/05/1934	50.8
5/05/1934	682.0
6/05/1934	512.0
7/05/1934	921.1
8/05/1934	903.8
9/05/1934	0.0
10/05/1934	7.0
11/05/1934	0.0
12/05/1934	0.0
13/05/1934	0.0
14/05/1934	0.0
15/05/1934	0.0
16/05/1934	0.0
17/05/1934	0.0
18/05/1934	0.0
19/05/1934	0.0
20/05/1934	0.0
21/05/1934	0.0
22/05/1934	0.0
23/05/1934	0.0
24/05/1934	22.7
25/05/1934	347.0
26/05/1934	0.0
27/05/1934	15.7
28/05/1934	148.0
29/05/1934	0.0
30/05/1934	0.0
31/05/1934	96.5
1/06/1934	945.5
2/06/1934	95.9
3/06/1934	0.0
4/06/1934	0.0
5/06/1934	186.4
6/06/1934	0.0
7/06/1934	0.0
8/06/1934	0.0
9/06/1934	0.0
10/06/1934	202.4
11/06/1934	634.9
12/06/1934	56.1
13/06/1934	0.0
14/06/1934	0.0
15/06/1934	34.4
16/06/1934	0.0
17/06/1934	0.0
18/06/1934	9.0
19/06/1934	0.0
20/06/1934	0.0
21/06/1934	0.0
22/06/1934	0.0
23/06/1934	0.0
24/06/1934	488.9



25/06/1934	326.7
26/06/1934	0.0
27/06/1934	0.0
28/06/1934	0.0
29/06/1934	0.0
30/06/1934	390.4
1/07/1934	333.3
2/07/1934	107.5
3/07/1934	34.4
4/07/1934	3.7
5/07/1934	0.0
6/07/1934	0.0
7/07/1934	0.0
8/07/1934	0.0
9/07/1934	0.0
10/07/1934	0.0
11/07/1934	0.0
12/07/1934	0.0
13/07/1934	0.0
14/07/1934	0.0
15/07/1934	0.0
16/07/1934	0.0
17/07/1934	0.0
18/07/1934	0.0
19/07/1934	0.0
20/07/1934	76.8
21/07/1934	0.0
22/07/1934	0.0
23/07/1934	848.7
24/07/1934	250.8
25/07/1934	30.0
26/07/1934	7.6
27/07/1934	39.1
28/07/1934	1483.5
29/07/1934	1798.2
30/07/1934	885.0
31/07/1934	0.0
1/08/1934	110.6
2/08/1934	0.0
3/08/1934	0.0
4/08/1934	0.0
5/08/1934	0.0
6/08/1934	0.0
7/08/1934	0.0
8/08/1934	0.0
9/08/1934	0.0
10/08/1934	305.9
11/08/1934	0.0
12/08/1934	0.0
13/08/1934	0.0
14/08/1934	71.5
15/08/1934	0.0
16/08/1934	0.0

17/08/1934	0.0
18/08/1934	26.1
19/08/1934	0.0
20/08/1934	1608.4
21/08/1934	1343.6
22/08/1934	216.4
23/08/1934	77.2
24/08/1934	189.7
25/08/1934	2.9
26/08/1934	0.0
27/08/1934	37.6
28/08/1934	110.9
29/08/1934	0.0
30/08/1934	12.7
31/08/1934	52.1
1/09/1934	853.4
2/09/1934	1268.8
3/09/1934	978.2
4/09/1934	76.5
5/09/1934	0.0
6/09/1934	894.4
7/09/1934	0.0
8/09/1934	147.4
9/09/1934	485.9
10/09/1934	236.8
11/09/1934	0.0
12/09/1934	0.0
13/09/1934	0.0
14/09/1934	0.0
15/09/1934	3.3
16/09/1934	0.0
17/09/1934	0.0
18/09/1934	0.0
19/09/1934	0.0
20/09/1934	0.0
21/09/1934	85.2
22/09/1934	0.0
23/09/1934	0.0
24/09/1934	0.0
25/09/1934	0.0
26/09/1934	9.0
27/09/1934	0.0
28/09/1934	0.0
29/09/1934	0.0
30/09/1934	244.2
1/10/1934	308.3
2/10/1934	0.0
3/10/1934	0.0
4/10/1934	0.0
5/10/1934	0.0
6/10/1934	0.0
7/10/1934	0.0
8/10/1934	0.0

9/10/1934	0.0
10/10/1934	0.0
11/10/1934	212.8
12/10/1934	0.0
13/10/1934	0.0
14/10/1934	0.0
15/10/1934	85.2
16/10/1934	0.0
17/10/1934	0.0
18/10/1934	0.0
19/10/1934	6.0
20/10/1934	0.0
21/10/1934	0.0
22/10/1934	0.0
23/10/1934	0.0
24/10/1934	0.0
25/10/1934	628.3
26/10/1934	0.0
27/10/1934	0.0
28/10/1934	0.0
29/10/1934	0.0
30/10/1934	0.0
31/10/1934	0.0
1/11/1934	0.0
2/11/1934	0.0
3/11/1934	24.0
4/11/1934	935.5
5/11/1934	0.0
6/11/1934	0.0
7/11/1934	0.3
8/11/1934	0.0
9/11/1934	0.0
10/11/1934	0.0
11/11/1934	743.1
12/11/1934	80.8
13/11/1934	144.6
14/11/1934	79.5
15/11/1934	0.0
16/11/1934	0.0
17/11/1934	12.7
18/11/1934	0.0
19/11/1934	0.0
20/11/1934	19.5
21/11/1934	0.0
22/11/1934	0.0
23/11/1934	0.0
24/11/1934	0.0
25/11/1934	0.0
26/11/1934	85.5
27/11/1934	0.0
28/11/1934	42.8
29/11/1934	104.9
30/11/1934	507.0

1/12/1934	0.0
2/12/1934	52.1
3/12/1934	209.4
4/12/1934	0.0
5/12/1934	0.0
6/12/1934	88.8
7/12/1934	0.0
8/12/1934	0.0
9/12/1934	113.9
10/12/1934	161.0
11/12/1934	533.1
12/12/1934	0.0
13/12/1934	0.0
14/12/1934	0.0
15/12/1934	0.0
16/12/1934	313.0
17/12/1934	0.0
18/12/1934	0.0
19/12/1934	147.6
20/12/1934	0.0
21/12/1934	0.0
22/12/1934	24.7
23/12/1934	881.0
24/12/1934	0.0
25/12/1934	42.8
26/12/1934	0.0
27/12/1934	0.0
28/12/1934	60.1
29/12/1934	1066.4
30/12/1934	399.1
31/12/1934	0.0
1/01/1935	0.0
2/01/1935	0.0
3/01/1935	170.0
4/01/1935	0.0
5/01/1935	837.3
6/01/1935	0.0
7/01/1935	0.0
8/01/1935	0.0
9/01/1935	105.5
10/01/1935	56.8
11/01/1935	0.0
12/01/1935	0.0
13/01/1935	423.2
14/01/1935	71.1
15/01/1935	87.5
16/01/1935	92.9
17/01/1935	85.8
18/01/1935	0.0
19/01/1935	0.0
20/01/1935	0.0
21/01/1935	0.0
22/01/1935	0.0

23/01/1935	0.0
24/01/1935	9.0
25/01/1935	0.0
26/01/1935	0.0
27/01/1935	0.0
28/01/1935	0.0
29/01/1935	0.0
30/01/1935	0.0
31/01/1935	0.0
1/02/1935	0.0
2/02/1935	0.0
3/02/1935	0.0
4/02/1935	0.0
5/02/1935	0.0
6/02/1935	0.0
7/02/1935	0.0
8/02/1935	204.7
9/02/1935	1665.6
10/02/1935	206.4
11/02/1935	0.0
12/02/1935	0.0
13/02/1935	143.3
14/02/1935	39.0
15/02/1935	126.6
16/02/1935	0.0
17/02/1935	0.0
18/02/1935	0.0
19/02/1935	0.0
20/02/1935	0.0
21/02/1935	0.0
22/02/1935	0.0
23/02/1935	0.0
24/02/1935	9.0
25/02/1935	0.0
26/02/1935	0.0
27/02/1935	0.0
28/02/1935	0.0
1/03/1935	0.0
2/03/1935	0.0
3/03/1935	0.0
4/03/1935	280.2
5/03/1935	71.8
6/03/1935	89.8
7/03/1935	0.0
8/03/1935	0.0
9/03/1935	0.0
10/03/1935	0.0
11/03/1935	279.2
12/03/1935	935.9
13/03/1935	27.0
14/03/1935	0.0
15/03/1935	0.0
16/03/1935	0.0

17/03/1935	0.0
18/03/1935	0.0
19/03/1935	0.0
20/03/1935	0.0
21/03/1935	0.0
22/03/1935	0.0
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27/03/1935	0.0
28/03/1935	0.0
29/03/1935	0.0
30/03/1935	0.0
31/03/1935	0.0
1/04/1935	0.0
2/04/1935	0.0
3/04/1935	9.0
4/04/1935	0.0
5/04/1935	0.0
6/04/1935	0.0
7/04/1935	0.0
8/04/1935	0.0
9/04/1935	0.0
10/04/1935	0.0
11/04/1935	0.0
12/04/1935	0.0
13/04/1935	305.9
14/04/1935	0.0
15/04/1935	0.0
16/04/1935	0.0
17/04/1935	0.0
18/04/1935	0.0
19/04/1935	43.1
20/04/1935	0.0
21/04/1935	77.2
22/04/1935	0.0
23/04/1935	0.0
24/04/1935	0.0
25/04/1935	0.0
26/04/1935	0.0
27/04/1935	0.0
28/04/1935	0.0
29/04/1935	136.3
30/04/1935	0.0
1/05/1935	0.0
2/05/1935	0.0
3/05/1935	68.8
4/05/1935	0.0
5/05/1935	0.0
6/05/1935	421.5
7/05/1935	0.0
8/05/1935	0.0

9/05/1935	0.0
10/05/1935	17.4
11/05/1935	0.0
12/05/1935	0.0
13/05/1935	0.0
14/05/1935	0.0
15/05/1935	0.0
16/05/1935	0.0
17/05/1935	0.0
18/05/1935	0.0
19/05/1935	68.5
20/05/1935	0.0
21/05/1935	0.0
22/05/1935	59.8
23/05/1935	0.0
24/05/1935	0.0
25/05/1935	341.0
26/05/1935	190.4
27/05/1935	215.4
28/05/1935	0.0
29/05/1935	0.0
30/05/1935	0.0
31/05/1935	0.0
1/06/1935	0.3
2/06/1935	0.0
3/06/1935	665.0
4/06/1935	871.7
5/06/1935	409.5
6/06/1935	7.0
7/06/1935	0.0
8/06/1935	0.0
9/06/1935	0.0
10/06/1935	0.0
11/06/1935	0.0
12/06/1935	0.7
13/06/1935	0.0
14/06/1935	1282.8
15/06/1935	7.3
16/06/1935	0.0
17/06/1935	0.0
18/06/1935	0.0
19/06/1935	0.0
20/06/1935	0.0
21/06/1935	0.0
22/06/1935	0.0
23/06/1935	0.0
24/06/1935	0.0
25/06/1935	0.0
26/06/1935	0.0
27/06/1935	0.0
28/06/1935	0.0
29/06/1935	0.0
30/06/1935	440.2

1/07/1935	52.4
2/07/1935	0.0
3/07/1935	26.0
4/07/1935	0.0
5/07/1935	0.0
6/07/1935	20.7
7/07/1935	161.0
8/07/1935	40.7
9/07/1935	0.0
10/07/1935	53.4
11/07/1935	108.9
12/07/1935	0.0
13/07/1935	0.0
14/07/1935	0.0
15/07/1935	0.0
16/07/1935	0.0
17/07/1935	0.0
18/07/1935	0.0
19/07/1935	0.0
20/07/1935	34.4
21/07/1935	0.0
22/07/1935	0.0
23/07/1935	0.0
24/07/1935	0.0
25/07/1935	0.0
26/07/1935	0.0
27/07/1935	0.0
28/07/1935	0.0
29/07/1935	0.0
30/07/1935	45.4
31/07/1935	0.0
1/08/1935	0.0
2/08/1935	0.0
3/08/1935	0.0
4/08/1935	0.0
5/08/1935	0.0
6/08/1935	0.0
7/08/1935	0.0
8/08/1935	0.0
9/08/1935	0.0
10/08/1935	0.0
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12/08/1935	0.0
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14/08/1935	0.0
15/08/1935	0.0
16/08/1935	0.0
17/08/1935	0.0
18/08/1935	0.0
19/08/1935	0.0
20/08/1935	0.0
21/08/1935	0.0
22/08/1935	0.0



23/08/1935	0.0
24/08/1935	0.0
25/08/1935	0.0
26/08/1935	0.0
27/08/1935	0.0
28/08/1935	0.0
29/08/1935	0.0
30/08/1935	0.0
31/08/1935	110.9
1/09/1935	0.0
2/09/1935	0.0
3/09/1935	0.0
4/09/1935	9.0
5/09/1935	0.0
6/09/1935	0.0
7/09/1935	0.0
8/09/1935	0.0
9/09/1935	0.0
10/09/1935	103.9
11/09/1935	211.1
12/09/1935	611.6
13/09/1935	177.0
14/09/1935	0.0
15/09/1935	0.0
16/09/1935	0.0
17/09/1935	0.0
18/09/1935	0.0
19/09/1935	0.0
20/09/1935	0.0
21/09/1935	249.1
22/09/1935	0.0
23/09/1935	0.0
24/09/1935	0.0
25/09/1935	0.0
26/09/1935	80.8
27/09/1935	5.0
28/09/1935	0.0
29/09/1935	0.0
30/09/1935	0.0
1/10/1935	0.0
2/10/1935	0.0
3/10/1935	0.0
4/10/1935	0.0
5/10/1935	0.0
6/10/1935	0.0
7/10/1935	0.0
8/10/1935	0.0
9/10/1935	0.0
10/10/1935	0.0
11/10/1935	0.0
12/10/1935	0.0
13/10/1935	0.0
14/10/1935	0.0

15/10/1935	34.4
16/10/1935	0.0
17/10/1935	0.3
18/10/1935	0.0
19/10/1935	0.0
20/10/1935	682.5
21/10/1935	552.1
22/10/1935	620.6
23/10/1935	0.0
24/10/1935	39.7
25/10/1935	70.5
26/10/1935	0.0
27/10/1935	0.0
28/10/1935	0.0
29/10/1935	0.0
30/10/1935	257.2
31/10/1935	340.3
1/11/1935	0.0
2/11/1935	0.0
3/11/1935	0.0
4/11/1935	0.0
5/11/1935	0.0
6/11/1935	0.0
7/11/1935	0.0
8/11/1935	0.0
9/11/1935	0.0
10/11/1935	0.0
11/11/1935	0.0
12/11/1935	263.5
13/11/1935	0.0
14/11/1935	0.0
15/11/1935	0.0
16/11/1935	0.0
17/11/1935	0.0
18/11/1935	0.0
19/11/1935	0.0
20/11/1935	0.0
21/11/1935	0.0
22/11/1935	0.0
23/11/1935	0.0
24/11/1935	0.0
25/11/1935	0.0
26/11/1935	0.0
27/11/1935	0.0
28/11/1935	136.3
29/11/1935	365.4
30/11/1935	111.2
1/12/1935	75.8
2/12/1935	164.7
3/12/1935	1118.5
4/12/1935	751.1
5/12/1935	0.0
6/12/1935	0.0

7/12/1935	0.0
8/12/1935	0.0
9/12/1935	75.1
10/12/1935	0.0
11/12/1935	86.8
12/12/1935	0.0
13/12/1935	0.0
14/12/1935	0.0
15/12/1935	0.0
16/12/1935	331.3
17/12/1935	61.5
18/12/1935	0.0
19/12/1935	0.0
20/12/1935	0.0
21/12/1935	0.0
22/12/1935	0.0
23/12/1935	0.0
24/12/1935	0.0
25/12/1935	0.0
26/12/1935	110.9
27/12/1935	0.0
28/12/1935	0.0
29/12/1935	42.8
30/12/1935	0.0
31/12/1935	0.0
1/01/1936	0.0
2/01/1936	0.0
3/01/1936	0.0
4/01/1936	265.2
5/01/1936	736.8
6/01/1936	0.0
7/01/1936	221.1
8/01/1936	0.0
9/01/1936	0.0
10/01/1936	18.0
11/01/1936	0.0
12/01/1936	185.0
13/01/1936	813.9
14/01/1936	0.0
15/01/1936	0.0
16/01/1936	247.5
17/01/1936	603.8
18/01/1936	36.0
19/01/1936	0.0
20/01/1936	0.0
21/01/1936	0.0
22/01/1936	0.0
23/01/1936	0.0
24/01/1936	0.0
25/01/1936	0.0
26/01/1936	0.0
27/01/1936	0.0
28/01/1936	0.0

29/01/1936	0.0
30/01/1936	0.0
31/01/1936	0.0
1/02/1936	31.7
2/02/1936	134.3
3/02/1936	0.0
4/02/1936	0.0
5/02/1936	0.0
6/02/1936	0.0
7/02/1936	141.7
8/02/1936	0.0
9/02/1936	271.9
10/02/1936	0.0
11/02/1936	0.0
12/02/1936	0.0
13/02/1936	602.9
14/02/1936	0.0
15/02/1936	13.0
16/02/1936	0.0
17/02/1936	0.0
18/02/1936	0.0
19/02/1936	0.0
20/02/1936	53.4
21/02/1936	149.9
22/02/1936	103.9
23/02/1936	0.0
24/02/1936	0.0
25/02/1936	0.0
26/02/1936	0.0
27/02/1936	798.6
28/02/1936	1261.1
29/02/1936	0.0
1/03/1936	921.2
2/03/1936	275.9
3/03/1936	0.0
4/03/1936	0.0
5/03/1936	0.0
6/03/1936	0.0
7/03/1936	953.1
8/03/1936	0.0
9/03/1936	0.0
10/03/1936	0.0
11/03/1936	0.0
12/03/1936	0.0
13/03/1936	0.0
14/03/1936	0.0
15/03/1936	85.5
16/03/1936	0.0
17/03/1936	0.0
18/03/1936	136.4
19/03/1936	0.0
20/03/1936	0.0
21/03/1936	0.0

22/03/1936	180.4
23/03/1936	128.9
24/03/1936	0.0
25/03/1936	58.1
26/03/1936	0.0
27/03/1936	0.0
28/03/1936	0.0
29/03/1936	0.0
30/03/1936	0.0
31/03/1936	0.0
1/04/1936	0.0
2/04/1936	0.0
3/04/1936	0.0
4/04/1936	0.0
5/04/1936	0.0
6/04/1936	0.0
7/04/1936	584.5
8/04/1936	0.0
9/04/1936	0.0
10/04/1936	0.0
11/04/1936	0.0
12/04/1936	20.7
13/04/1936	252.5
14/04/1936	299.3
15/04/1936	0.6
16/04/1936	1.0
17/04/1936	0.0
18/04/1936	17.7
19/04/1936	0.0
20/04/1936	0.0
21/04/1936	0.0
22/04/1936	50.1
23/04/1936	0.0
24/04/1936	0.0
25/04/1936	0.0
26/04/1936	0.0
27/04/1936	0.0
28/04/1936	0.0
29/04/1936	0.0
30/04/1936	9.0
1/05/1936	0.0
2/05/1936	0.0
3/05/1936	0.0
4/05/1936	0.0
5/05/1936	0.0
6/05/1936	0.0
7/05/1936	0.0
8/05/1936	0.0
9/05/1936	0.0
10/05/1936	0.0
11/05/1936	0.0
12/05/1936	0.0
13/05/1936	85.1

14/05/1936	0.0
15/05/1936	0.0
16/05/1936	0.0
17/05/1936	0.0
18/05/1936	0.0
19/05/1936	0.0
20/05/1936	0.0
21/05/1936	0.0
22/05/1936	311.6
23/05/1936	10.4
24/05/1936	169.0
25/05/1936	513.3
26/05/1936	403.1
27/05/1936	41.1
28/05/1936	0.0
29/05/1936	0.0
30/05/1936	0.0
31/05/1936	0.0
1/06/1936	77.1
2/06/1936	0.0
3/06/1936	0.0
4/06/1936	0.0
5/06/1936	0.0
6/06/1936	0.0
7/06/1936	0.0
8/06/1936	0.0
9/06/1936	43.1
10/06/1936	63.1
11/06/1936	78.5
12/06/1936	145.6
13/06/1936	0.0
14/06/1936	239.5
15/06/1936	0.0
16/06/1936	0.0
17/06/1936	0.0
18/06/1936	0.0
19/06/1936	0.0
20/06/1936	0.0
21/06/1936	0.0
22/06/1936	0.0
23/06/1936	1176.6
24/06/1936	0.0
25/06/1936	0.0
26/06/1936	0.0
27/06/1936	0.0
28/06/1936	0.0
29/06/1936	0.0
30/06/1936	0.0
1/07/1936	0.0
2/07/1936	0.0
3/07/1936	75.8
4/07/1936	0.0
5/07/1936	0.0

6/07/1936	0.0
7/07/1936	0.0
8/07/1936	0.0
9/07/1936	0.0
10/07/1936	0.0
11/07/1936	0.0
12/07/1936	0.0
13/07/1936	0.0
14/07/1936	0.0
15/07/1936	0.0
16/07/1936	9.0
17/07/1936	0.0
18/07/1936	0.0
19/07/1936	0.0
20/07/1936	0.0
21/07/1936	0.0
22/07/1936	0.0
23/07/1936	0.0
24/07/1936	26.0
25/07/1936	247.5
26/07/1936	84.5
27/07/1936	0.0
28/07/1936	0.0
29/07/1936	0.0
30/07/1936	0.0
31/07/1936	0.0
1/08/1936	68.1
2/08/1936	0.0
3/08/1936	86.5
4/08/1936	0.0
5/08/1936	0.0
6/08/1936	0.0
7/08/1936	0.0
8/08/1936	0.0
9/08/1936	0.0
10/08/1936	0.0
11/08/1936	0.0
12/08/1936	0.0
13/08/1936	0.0
14/08/1936	0.0
15/08/1936	0.0
16/08/1936	0.0
17/08/1936	85.5
18/08/1936	0.0
19/08/1936	0.0
20/08/1936	0.0
21/08/1936	0.0
22/08/1936	0.0
23/08/1936	0.0
24/08/1936	0.0
25/08/1936	0.0
26/08/1936	0.0
27/08/1936	122.5

28/08/1936	0.0
29/08/1936	0.0
30/08/1936	325.7
31/08/1936	310.6
1/09/1936	37.7
2/09/1936	0.0
3/09/1936	0.0
4/09/1936	0.0
5/09/1936	0.0
6/09/1936	0.0
7/09/1936	76.2
8/09/1936	153.6
9/09/1936	0.0
10/09/1936	0.0
11/09/1936	0.0
12/09/1936	0.0
13/09/1936	0.0
14/09/1936	0.0
15/09/1936	0.0
16/09/1936	109.9
17/09/1936	52.0
18/09/1936	0.0
19/09/1936	0.0
20/09/1936	65.8
21/09/1936	67.8
22/09/1936	0.0
23/09/1936	0.0
24/09/1936	5.0
25/09/1936	0.0
26/09/1936	0.0
27/09/1936	39.4
28/09/1936	0.0
29/09/1936	0.0
30/09/1936	0.0
1/10/1936	0.0
2/10/1936	0.0
3/10/1936	0.0
4/10/1936	0.0
5/10/1936	0.0
6/10/1936	0.0
7/10/1936	0.0
8/10/1936	0.0
9/10/1936	0.0
10/10/1936	0.0
11/10/1936	0.0
12/10/1936	653.6
13/10/1936	0.0
14/10/1936	0.0
15/10/1936	0.0
16/10/1936	0.0
17/10/1936	0.0
18/10/1936	9.0
19/10/1936	0.0



20/10/1936	0.0
21/10/1936	59.8
22/10/1936	0.0
23/10/1936	0.0
24/10/1936	0.0
25/10/1936	44.7
26/10/1936	0.0
27/10/1936	0.0
28/10/1936	0.0
29/10/1936	36.1
30/10/1936	0.0
31/10/1936	0.0
1/11/1936	0.0
2/11/1936	0.0
3/11/1936	0.0
4/11/1936	0.0
5/11/1936	0.0
6/11/1936	0.0
7/11/1936	0.0
8/11/1936	0.0
9/11/1936	0.0
10/11/1936	0.0
11/11/1936	0.0
12/11/1936	0.0
13/11/1936	0.0
14/11/1936	0.0
15/11/1936	178.7
16/11/1936	0.0
17/11/1936	0.0
18/11/1936	0.0
19/11/1936	0.0
20/11/1936	0.0
21/11/1936	0.0
22/11/1936	0.0
23/11/1936	0.0
24/11/1936	0.0
25/11/1936	0.0
26/11/1936	0.0
27/11/1936	0.0
28/11/1936	0.0
29/11/1936	0.0
30/11/1936	0.0
1/12/1936	0.0
2/12/1936	407.4
3/12/1936	0.0
4/12/1936	153.3
5/12/1936	0.0
6/12/1936	0.0
7/12/1936	0.0
8/12/1936	0.0
9/12/1936	0.0
10/12/1936	43.1
11/12/1936	0.0

12/12/1936	0.0
13/12/1936	0.0
14/12/1936	0.0
15/12/1936	120.0
16/12/1936	0.0
17/12/1936	0.0
18/12/1936	0.0
19/12/1936	121.9
20/12/1936	168.0
21/12/1936	616.1
22/12/1936	37.5
23/12/1936	0.0
24/12/1936	0.0
25/12/1936	71.8
26/12/1936	927.1
27/12/1936	628.6
28/12/1936	0.0
29/12/1936	0.0
30/12/1936	0.0
31/12/1936	0.0
1/01/1937	373.7
2/01/1937	0.0
3/01/1937	85.1
4/01/1937	0.0
5/01/1937	0.0
6/01/1937	0.0
7/01/1937	0.0
8/01/1937	0.0
9/01/1937	654.3
10/01/1937	0.0
11/01/1937	0.0
12/01/1937	129.9
13/01/1937	0.0
14/01/1937	0.0
15/01/1937	0.0
16/01/1937	0.0
17/01/1937	0.0
18/01/1937	0.0
19/01/1937	0.0
20/01/1937	0.3
21/01/1937	0.0
22/01/1937	0.0
23/01/1937	0.0
24/01/1937	0.0
25/01/1937	45.4
26/01/1937	0.0
27/01/1937	0.0
28/01/1937	0.0
29/01/1937	0.0
30/01/1937	0.0
31/01/1937	153.3
1/02/1937	0.0
2/02/1937	0.0

3/02/1937	0.0
4/02/1937	0.0
5/02/1937	0.0
6/02/1937	0.0
7/02/1937	0.0
8/02/1937	0.0
9/02/1937	0.0
10/02/1937	156.0
11/02/1937	211.4
12/02/1937	211.4
13/02/1937	0.0
14/02/1937	0.0
15/02/1937	44.4
16/02/1937	0.0
17/02/1937	0.0
18/02/1937	9.0
19/02/1937	0.0
20/02/1937	0.7
21/02/1937	0.0
22/02/1937	0.0
23/02/1937	171.7
24/02/1937	0.0
25/02/1937	0.0
26/02/1937	0.0
27/02/1937	0.0
28/02/1937	0.0
1/03/1937	0.0
2/03/1937	158.3
3/03/1937	598.5
4/03/1937	439.2
5/03/1937	0.0
6/03/1937	65.1
7/03/1937	376.4
8/03/1937	420.8
9/03/1937	325.3
10/03/1937	0.0
11/03/1937	398.5
12/03/1937	647.0
13/03/1937	0.0
14/03/1937	0.0
15/03/1937	2125.5
16/03/1937	1086.1
17/03/1937	0.0
18/03/1937	0.0
19/03/1937	0.0
20/03/1937	0.0
21/03/1937	0.0
22/03/1937	0.0
23/03/1937	0.0
24/03/1937	0.0
25/03/1937	0.0
26/03/1937	0.0
27/03/1937	0.0

28/03/1937	0.0
29/03/1937	0.0
30/03/1937	0.0
31/03/1937	0.0
1/04/1937	0.0
2/04/1937	115.2
3/04/1937	20.7
4/04/1937	0.0
5/04/1937	24.4
6/04/1937	20.4
7/04/1937	0.0
8/04/1937	74.5
9/04/1937	122.6
10/04/1937	150.0
11/04/1937	184.4
12/04/1937	0.0
13/04/1937	0.0
14/04/1937	129.9
15/04/1937	813.6
16/04/1937	82.8
17/04/1937	43.1
18/04/1937	0.0
19/04/1937	0.0
20/04/1937	0.0
21/04/1937	0.0
22/04/1937	0.0
23/04/1937	1123.8
24/04/1937	721.1
25/04/1937	0.0
26/04/1937	0.0
27/04/1937	0.0
28/04/1937	0.0
29/04/1937	0.0
30/04/1937	0.0
1/05/1937	0.0
2/05/1937	25.7
3/05/1937	0.0
4/05/1937	0.0
5/05/1937	0.0
6/05/1937	0.0
7/05/1937	0.0
8/05/1937	0.0
9/05/1937	0.0
10/05/1937	0.0
11/05/1937	0.0
12/05/1937	0.0
13/05/1937	0.0
14/05/1937	0.0
15/05/1937	126.6
16/05/1937	18.7
17/05/1937	0.0
18/05/1937	0.0
19/05/1937	0.0

20/05/1937	0.0
21/05/1937	0.6
22/05/1937	0.0
23/05/1937	0.0
24/05/1937	0.0
25/05/1937	0.0
26/05/1937	0.0
27/05/1937	280.5
28/05/1937	0.0
29/05/1937	0.0
30/05/1937	0.0
31/05/1937	0.0
1/06/1937	0.0
2/06/1937	0.0
3/06/1937	0.0
4/06/1937	1322.9
5/06/1937	346.7
6/06/1937	555.4
7/06/1937	482.0
8/06/1937	466.3
9/06/1937	0.0
10/06/1937	0.0
11/06/1937	0.0
12/06/1937	91.5
13/06/1937	0.0
14/06/1937	0.0
15/06/1937	0.0
16/06/1937	0.0
17/06/1937	196.7
18/06/1937	657.0
19/06/1937	1770.4
20/06/1937	1297.5
21/06/1937	890.1
22/06/1937	80.5
23/06/1937	105.9
24/06/1937	156.3
25/06/1937	1034.7
26/06/1937	436.2
27/06/1937	689.0
28/06/1937	28.7
29/06/1937	438.5
30/06/1937	842.3
1/07/1937	53.6
2/07/1937	0.0
3/07/1937	0.0
4/07/1937	105.5
5/07/1937	1226.0
6/07/1937	120.9
7/07/1937	0.0
8/07/1937	0.0
9/07/1937	0.0
10/07/1937	0.0
11/07/1937	0.0

12/07/1937	0.0
13/07/1937	0.0
14/07/1937	82.8
15/07/1937	70.8
16/07/1937	0.0
17/07/1937	0.0
18/07/1937	0.0
19/07/1937	0.0
20/07/1937	0.0
21/07/1937	10.4
22/07/1937	0.0
23/07/1937	0.0
24/07/1937	42.8
25/07/1937	0.0
26/07/1937	0.0
27/07/1937	0.0
28/07/1937	0.0
29/07/1937	0.0
30/07/1937	0.0
31/07/1937	0.0
1/08/1937	144.6
2/08/1937	0.0
3/08/1937	168.7
4/08/1937	0.0
5/08/1937	0.0
6/08/1937	0.0
7/08/1937	0.0
8/08/1937	0.0
9/08/1937	0.0
10/08/1937	0.0
11/08/1937	0.0
12/08/1937	464.6
13/08/1937	438.8
14/08/1937	61.5
15/08/1937	0.0
16/08/1937	0.0
17/08/1937	9.0
18/08/1937	0.0
19/08/1937	0.0
20/08/1937	0.0
21/08/1937	277.9
22/08/1937	0.0
23/08/1937	0.0
24/08/1937	0.0
25/08/1937	0.0
26/08/1937	45.7
27/08/1937	1088.4
28/08/1937	0.0
29/08/1937	0.0
30/08/1937	0.0
31/08/1937	95.5
1/09/1937	194.1
2/09/1937	0.0

3/09/1937	0.0
4/09/1937	0.0
5/09/1937	0.0
6/09/1937	0.0
7/09/1937	0.0
8/09/1937	0.0
9/09/1937	0.0
10/09/1937	0.0
11/09/1937	0.0
12/09/1937	0.0
13/09/1937	0.0
14/09/1937	0.0
15/09/1937	97.2
16/09/1937	0.0
17/09/1937	0.0
18/09/1937	0.0
19/09/1937	0.0
20/09/1937	0.0
21/09/1937	0.0
22/09/1937	0.0
23/09/1937	0.0
24/09/1937	0.0
25/09/1937	0.0
26/09/1937	0.0
27/09/1937	0.0
28/09/1937	0.0
29/09/1937	9.0
30/09/1937	110.9
1/10/1937	461.9
2/10/1937	319.3
3/10/1937	0.0
4/10/1937	0.0
5/10/1937	0.0
6/10/1937	0.0
7/10/1937	0.0
8/10/1937	0.0
9/10/1937	17.7
10/10/1937	263.5
11/10/1937	0.0
12/10/1937	0.0
13/10/1937	1.3
14/10/1937	8.3
15/10/1937	0.0
16/10/1937	348.4
17/10/1937	0.0
18/10/1937	0.0
19/10/1937	40.0
20/10/1937	0.0
21/10/1937	0.0
22/10/1937	0.0
23/10/1937	0.0
24/10/1937	0.0
25/10/1937	0.0

26/10/1937	151.0
27/10/1937	581.8
28/10/1937	0.0
29/10/1937	0.0
30/10/1937	0.0
31/10/1937	0.0
1/11/1937	410.8
2/11/1937	907.1
3/11/1937	677.4
4/11/1937	176.4
5/11/1937	156.0
6/11/1937	0.0
7/11/1937	6.4
8/11/1937	131.8
9/11/1937	0.0
10/11/1937	18.0
11/11/1937	0.0
12/11/1937	0.0
13/11/1937	0.0
14/11/1937	0.0
15/11/1937	187.4
16/11/1937	0.0
17/11/1937	0.0
18/11/1937	0.0
19/11/1937	0.0
20/11/1937	0.0
21/11/1937	0.0
22/11/1937	17.4
23/11/1937	0.0
24/11/1937	0.0
25/11/1937	0.0
26/11/1937	0.0
27/11/1937	0.0
28/11/1937	0.0
29/11/1937	0.0
30/11/1937	0.0
1/12/1937	0.0
2/12/1937	0.0
3/12/1937	198.8
4/12/1937	195.7
5/12/1937	0.0
6/12/1937	0.0
7/12/1937	0.0
8/12/1937	359.0
9/12/1937	0.0
10/12/1937	0.0
11/12/1937	42.8
12/12/1937	0.0
13/12/1937	0.0
14/12/1937	0.0
15/12/1937	0.0
16/12/1937	0.0
17/12/1937	0.0



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19/12/1937	0.0
20/12/1937	0.0
21/12/1937	0.0
22/12/1937	0.0
23/12/1937	0.0
24/12/1937	0.0
25/12/1937	0.0
26/12/1937	0.0
27/12/1937	2.3
28/12/1937	76.2
29/12/1937	690.4
30/12/1937	65.8
31/12/1937	34.4
1/01/1938	0.0
2/01/1938	0.0
3/01/1938	0.0
4/01/1938	0.0
5/01/1938	0.0
6/01/1938	0.0
7/01/1938	0.0
8/01/1938	0.0
9/01/1938	0.0
10/01/1938	0.0
11/01/1938	0.0
12/01/1938	0.0
13/01/1938	0.0
14/01/1938	0.0
15/01/1938	0.0
16/01/1938	176.4
17/01/1938	58.1
18/01/1938	0.0
19/01/1938	399.8
20/01/1938	375.4
21/01/1938	321.6
22/01/1938	465.6
23/01/1938	38.1
24/01/1938	0.0
25/01/1938	0.0
26/01/1938	16.0
27/01/1938	875.7
28/01/1938	0.0
29/01/1938	0.0
30/01/1938	0.0
31/01/1938	5502.2
1/02/1938	161.0
2/02/1938	719.0
3/02/1938	0.0
4/02/1938	0.0
5/02/1938	0.0
6/02/1938	0.0
7/02/1938	0.0
8/02/1938	0.0

9/02/1938	0.0
10/02/1938	0.0
11/02/1938	0.0
12/02/1938	0.0
13/02/1938	17.7
14/02/1938	0.0
15/02/1938	0.0
16/02/1938	0.0
17/02/1938	0.0
18/02/1938	0.0
19/02/1938	0.0
20/02/1938	0.0
21/02/1938	291.6
22/02/1938	176.0
23/02/1938	0.0
24/02/1938	0.0
25/02/1938	0.0
26/02/1938	187.0
27/02/1938	0.0
28/02/1938	0.0
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2/03/1938	0.0
3/03/1938	0.3
4/03/1938	0.0
5/03/1938	0.0
6/03/1938	0.0
7/03/1938	0.0
8/03/1938	0.0
9/03/1938	0.0
10/03/1938	0.0
11/03/1938	0.0
12/03/1938	314.6
13/03/1938	0.0
14/03/1938	68.1
15/03/1938	0.0
16/03/1938	0.0
17/03/1938	0.0
18/03/1938	0.0
19/03/1938	119.2
20/03/1938	0.0
21/03/1938	26.1
22/03/1938	0.0
23/03/1938	0.0
24/03/1938	0.0
25/03/1938	0.0
26/03/1938	213.7
27/03/1938	143.6
28/03/1938	0.0
29/03/1938	0.0
30/03/1938	0.0
31/03/1938	0.0
1/04/1938	0.0
2/04/1938	0.0

3/04/1938	0.0
4/04/1938	0.0
5/04/1938	0.0
6/04/1938	0.0
7/04/1938	0.0
8/04/1938	42.8
9/04/1938	176.7
10/04/1938	437.8
11/04/1938	156.6
12/04/1938	0.0
13/04/1938	0.0
14/04/1938	0.0
15/04/1938	0.0
16/04/1938	0.0
17/04/1938	8.7
18/04/1938	0.0
19/04/1938	0.0
20/04/1938	292.2
21/04/1938	253.5
22/04/1938	153.0
23/04/1938	0.0
24/04/1938	0.0
25/04/1938	0.0
26/04/1938	125.6
27/04/1938	0.0
28/04/1938	0.0
29/04/1938	0.0
30/04/1938	0.0
1/05/1938	0.0
2/05/1938	0.0
3/05/1938	42.8
4/05/1938	0.0
5/05/1938	0.0
6/05/1938	0.0
7/05/1938	0.0
8/05/1938	85.2
9/05/1938	0.0
10/05/1938	239.1
11/05/1938	13.4
12/05/1938	38.1
13/05/1938	0.0
14/05/1938	0.0
15/05/1938	0.0
16/05/1938	0.0
17/05/1938	0.0
18/05/1938	422.1
19/05/1938	297.6
20/05/1938	0.0
21/05/1938	0.0
22/05/1938	0.0
23/05/1938	0.0
24/05/1938	42.8
25/05/1938	617.9

26/05/1938	927.5
27/05/1938	0.0
28/05/1938	77.1
29/05/1938	0.0
30/05/1938	0.0
31/05/1938	0.0
1/06/1938	0.0
2/06/1938	0.0
3/06/1938	0.0
4/06/1938	0.0
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8/06/1938	0.0
9/06/1938	0.0
10/06/1938	0.0
11/06/1938	0.0
12/06/1938	0.0
13/06/1938	0.0
14/06/1938	0.0
15/06/1938	0.0
16/06/1938	42.8
17/06/1938	0.0
18/06/1938	0.0
19/06/1938	0.0
20/06/1938	0.0
21/06/1938	0.0
22/06/1938	0.0
23/06/1938	0.0
24/06/1938	119.2
25/06/1938	0.0
26/06/1938	0.0
27/06/1938	0.0
28/06/1938	26.1
29/06/1938	0.0
30/06/1938	0.0
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2/07/1938	0.0
3/07/1938	0.0
4/07/1938	0.0
5/07/1938	0.0
6/07/1938	0.0
7/07/1938	0.0
8/07/1938	85.2
9/07/1938	0.0
10/07/1938	0.0
11/07/1938	0.0
12/07/1938	0.0
13/07/1938	0.0
14/07/1938	0.0
15/07/1938	0.0
16/07/1938	0.0
17/07/1938	0.0

18/07/1938	0.0
19/07/1938	0.0
20/07/1938	0.0
21/07/1938	0.7
22/07/1938	0.0
23/07/1938	0.0
24/07/1938	289.2
25/07/1938	0.0
26/07/1938	11.7
27/07/1938	0.0
28/07/1938	0.0
29/07/1938	1186.3
30/07/1938	235.5
31/07/1938	0.0
1/08/1938	0.0
2/08/1938	0.0
3/08/1938	0.0
4/08/1938	0.0
5/08/1938	0.0
6/08/1938	0.0
7/08/1938	59.8
8/08/1938	43.1
9/08/1938	0.0
10/08/1938	0.0
11/08/1938	0.0
12/08/1938	0.0
13/08/1938	0.0
14/08/1938	0.0
15/08/1938	34.4
16/08/1938	0.0
17/08/1938	0.0
18/08/1938	0.0
19/08/1938	252.5
20/08/1938	464.9
21/08/1938	1429.8
22/08/1938	1638.5
23/08/1938	371.0
24/08/1938	696.1
25/08/1938	742.4
26/08/1938	0.0
27/08/1938	0.0
28/08/1938	9.0
29/08/1938	0.0
30/08/1938	0.0
31/08/1938	0.0
1/09/1938	0.0
2/09/1938	0.0
3/09/1938	0.0
4/09/1938	0.0
5/09/1938	0.0
6/09/1938	0.0
7/09/1938	15.7
8/09/1938	0.0

9/09/1938	0.0
10/09/1938	81.5
11/09/1938	325.6
12/09/1938	0.0
13/09/1938	0.0
14/09/1938	0.0
15/09/1938	0.0
16/09/1938	0.0
17/09/1938	0.0
18/09/1938	0.0
19/09/1938	356.0
20/09/1938	144.6
21/09/1938	0.0
22/09/1938	0.0
23/09/1938	238.1
24/09/1938	0.0
25/09/1938	0.0
26/09/1938	0.0
27/09/1938	0.0
28/09/1938	0.0
29/09/1938	72.5
30/09/1938	53.8
1/10/1938	0.0
2/10/1938	0.0
3/10/1938	0.0
4/10/1938	0.0
5/10/1938	0.0
6/10/1938	0.0
7/10/1938	0.0
8/10/1938	0.0
9/10/1938	0.3
10/10/1938	16.4
11/10/1938	0.0
12/10/1938	0.0
13/10/1938	4.3
14/10/1938	275.9
15/10/1938	0.0
16/10/1938	0.0
17/10/1938	0.0
18/10/1938	0.0
19/10/1938	2.0
20/10/1938	0.0
21/10/1938	0.0
22/10/1938	0.0
23/10/1938	89.8
24/10/1938	367.7
25/10/1938	942.1
26/10/1938	85.5
27/10/1938	0.0
28/10/1938	0.0
29/10/1938	0.0
30/10/1938	0.0
31/10/1938	453.2

1/11/1938	8.0
2/11/1938	0.0
3/11/1938	0.0
4/11/1938	12.7
5/11/1938	38.1
6/11/1938	0.3
7/11/1938	0.0
8/11/1938	0.0
9/11/1938	0.0
10/11/1938	0.0
11/11/1938	0.0
12/11/1938	0.0
13/11/1938	0.0
14/11/1938	32.7
15/11/1938	0.0
16/11/1938	0.0
17/11/1938	0.0
18/11/1938	25.4
19/11/1938	204.7
20/11/1938	0.0
21/11/1938	0.0
22/11/1938	315.0
23/11/1938	0.3
24/11/1938	0.0
25/11/1938	0.0
26/11/1938	0.0
27/11/1938	0.0
28/11/1938	0.0
29/11/1938	0.0
30/11/1938	0.0
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15/12/1938	0.0
16/12/1938	0.0
17/12/1938	0.0
18/12/1938	0.0
19/12/1938	0.0
20/12/1938	0.0
21/12/1938	0.0
22/12/1938	0.0
23/12/1938	161.7

24/12/1938	0.0
25/12/1938	0.0
26/12/1938	0.0
27/12/1938	0.0
28/12/1938	112.9
29/12/1938	15.4
30/12/1938	0.0
31/12/1938	119.2
1/01/1939	0.0
2/01/1939	0.0
3/01/1939	0.0
4/01/1939	314.3
5/01/1939	0.0
6/01/1939	0.0
7/01/1939	0.0
8/01/1939	0.0
9/01/1939	0.0
10/01/1939	0.0
11/01/1939	0.0
12/01/1939	0.0
13/01/1939	0.0
14/01/1939	0.0
15/01/1939	0.0
16/01/1939	244.5
17/01/1939	584.1
18/01/1939	174.0
19/01/1939	0.0
20/01/1939	215.1
21/01/1939	0.0
22/01/1939	0.0
23/01/1939	0.0
24/01/1939	0.0
25/01/1939	24.7
26/01/1939	630.9
27/01/1939	10.4
28/01/1939	0.0
29/01/1939	11.0
30/01/1939	0.0
31/01/1939	0.0
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3/02/1939	0.0
4/02/1939	0.0
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12/02/1939	0.0
13/02/1939	0.0
14/02/1939	0.0



15/02/1939	0.0
16/02/1939	0.0
17/02/1939	34.4
18/02/1939	0.0
19/02/1939	0.0
20/02/1939	0.0
21/02/1939	0.0
22/02/1939	0.0
23/02/1939	0.0
24/02/1939	0.0
25/02/1939	0.0
26/02/1939	0.0
27/02/1939	0.0
28/02/1939	0.0
1/03/1939	0.0
2/03/1939	191.7
3/03/1939	617.5
4/03/1939	549.4
5/03/1939	921.2
6/03/1939	2191.3
7/03/1939	23.0
8/03/1939	93.2
9/03/1939	755.5
10/03/1939	728.1
11/03/1939	0.0
12/03/1939	0.0
13/03/1939	0.0
14/03/1939	260.2
15/03/1939	674.3
16/03/1939	0.0
17/03/1939	0.0
18/03/1939	0.3
19/03/1939	0.0
20/03/1939	65.1
21/03/1939	4.7
22/03/1939	78.8
23/03/1939	30.7
24/03/1939	0.0
25/03/1939	448.9
26/03/1939	418.8
27/03/1939	165.3
28/03/1939	0.0
29/03/1939	0.0
30/03/1939	0.0
31/03/1939	0.0
1/04/1939	25.7
2/04/1939	0.0
3/04/1939	437.2
4/04/1939	753.4
5/04/1939	69.5
6/04/1939	0.0
7/04/1939	0.0
8/04/1939	0.0

9/04/1939	0.0
10/04/1939	0.0
11/04/1939	0.0
12/04/1939	0.0
13/04/1939	0.0
14/04/1939	103.9
15/04/1939	84.5
16/04/1939	0.0
17/04/1939	0.0
18/04/1939	136.3
19/04/1939	364.7
20/04/1939	81.5
21/04/1939	195.1
22/04/1939	27.4
23/04/1939	0.0
24/04/1939	236.5
25/04/1939	0.0
26/04/1939	0.0
27/04/1939	0.0
28/04/1939	0.0
29/04/1939	61.5
30/04/1939	141.6
1/05/1939	257.8
2/05/1939	223.4
3/05/1939	0.0
4/05/1939	0.0
5/05/1939	472.6
6/05/1939	512.7
7/05/1939	85.2
8/05/1939	0.0
9/05/1939	0.0
10/05/1939	0.0
11/05/1939	0.0
12/05/1939	0.0
13/05/1939	0.0
14/05/1939	0.0
15/05/1939	0.0
16/05/1939	9.7
17/05/1939	127.3
18/05/1939	0.0
19/05/1939	0.0
20/05/1939	0.0
21/05/1939	0.0
22/05/1939	187.0
23/05/1939	110.9
24/05/1939	0.0
25/05/1939	0.0
26/05/1939	34.4
27/05/1939	0.0
28/05/1939	0.0
29/05/1939	0.0
30/05/1939	0.0
31/05/1939	301.2

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2/06/1939	0.0
3/06/1939	0.0
4/06/1939	0.0
5/06/1939	0.0
6/06/1939	0.0
7/06/1939	0.0
8/06/1939	0.0
9/06/1939	0.0
10/06/1939	0.0
11/06/1939	0.0
12/06/1939	0.0
13/06/1939	0.0
14/06/1939	0.0
15/06/1939	0.0
16/06/1939	0.0
17/06/1939	138.3
18/06/1939	0.0
19/06/1939	0.0
20/06/1939	0.0
21/06/1939	0.0
22/06/1939	0.0
23/06/1939	0.0
24/06/1939	0.0
25/06/1939	0.0
26/06/1939	0.0
27/06/1939	0.0
28/06/1939	0.0
29/06/1939	34.4
30/06/1939	0.0
1/07/1939	0.0
2/07/1939	0.0
3/07/1939	0.0
4/07/1939	131.3
5/07/1939	323.6
6/07/1939	0.0
7/07/1939	0.0
8/07/1939	78.1
9/07/1939	33.1
10/07/1939	0.0
11/07/1939	17.7
12/07/1939	0.0
13/07/1939	0.0
14/07/1939	0.0
15/07/1939	0.0
16/07/1939	0.0
17/07/1939	0.0
18/07/1939	0.0
19/07/1939	0.0
20/07/1939	0.0
21/07/1939	0.0
22/07/1939	0.0
23/07/1939	0.0

24/07/1939	0.0
25/07/1939	49.1
26/07/1939	80.5
27/07/1939	0.0
28/07/1939	0.0
29/07/1939	0.0
30/07/1939	0.0
31/07/1939	0.0
1/08/1939	0.0
2/08/1939	1167.9
3/08/1939	416.1
4/08/1939	0.0
5/08/1939	0.0
6/08/1939	0.0
7/08/1939	0.0
8/08/1939	0.0
9/08/1939	0.0
10/08/1939	0.0
11/08/1939	348.4
12/08/1939	0.0
13/08/1939	0.0
14/08/1939	0.0
15/08/1939	0.0
16/08/1939	0.0
17/08/1939	0.0
18/08/1939	0.0
19/08/1939	0.0
20/08/1939	0.0
21/08/1939	0.0
22/08/1939	68.5
23/08/1939	0.0
24/08/1939	0.0
25/08/1939	0.0
26/08/1939	0.0
27/08/1939	0.0
28/08/1939	0.0
29/08/1939	0.0
30/08/1939	0.0
31/08/1939	0.0
1/09/1939	0.0
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3/09/1939	0.0
4/09/1939	0.0
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8/09/1939	0.0
9/09/1939	0.0
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12/09/1939	0.0
13/09/1939	0.0
14/09/1939	0.0

15/09/1939	0.0
16/09/1939	0.0
17/09/1939	0.0
18/09/1939	0.0
19/09/1939	0.0
20/09/1939	0.0
21/09/1939	77.8
22/09/1939	0.0
23/09/1939	0.0
24/09/1939	0.0
25/09/1939	0.0
26/09/1939	127.9
27/09/1939	499.3
28/09/1939	821.6
29/09/1939	411.5
30/09/1939	0.0
1/10/1939	0.0
2/10/1939	0.0
3/10/1939	0.0
4/10/1939	0.0
5/10/1939	0.0
6/10/1939	348.7
7/10/1939	0.0
8/10/1939	0.0
9/10/1939	0.0
10/10/1939	0.0
11/10/1939	0.0
12/10/1939	0.0
13/10/1939	0.0
14/10/1939	0.3
15/10/1939	0.0
16/10/1939	0.0
17/10/1939	0.0
18/10/1939	0.0
19/10/1939	0.0
20/10/1939	0.0
21/10/1939	0.0
22/10/1939	0.0
23/10/1939	144.3
24/10/1939	0.0
25/10/1939	854.4
26/10/1939	80.2
27/10/1939	0.0
28/10/1939	0.0
29/10/1939	0.0
30/10/1939	0.0
31/10/1939	0.0
1/11/1939	0.0
2/11/1939	153.4
3/11/1939	0.0
4/11/1939	9.4
5/11/1939	0.0
6/11/1939	0.0

7/11/1939	0.0
8/11/1939	0.0
9/11/1939	0.0
10/11/1939	0.0
11/11/1939	140.6
12/11/1939	89.5
13/11/1939	93.8
14/11/1939	0.0
15/11/1939	0.0
16/11/1939	0.0
17/11/1939	120.9
18/11/1939	0.0
19/11/1939	0.0
20/11/1939	93.8
21/11/1939	562.1
22/11/1939	61.1
23/11/1939	0.0
24/11/1939	0.0
25/11/1939	0.0
26/11/1939	23.0
27/11/1939	0.0
28/11/1939	0.0
29/11/1939	0.0
30/11/1939	0.0
1/12/1939	0.0
2/12/1939	0.0
3/12/1939	0.0
4/12/1939	0.0
5/12/1939	0.0
6/12/1939	0.0
7/12/1939	0.0
8/12/1939	40.4
9/12/1939	54.1
10/12/1939	0.0
11/12/1939	0.0
12/12/1939	0.0
13/12/1939	161.7
14/12/1939	0.0
15/12/1939	0.0
16/12/1939	0.0
17/12/1939	0.0
18/12/1939	0.7
19/12/1939	0.0
20/12/1939	0.0
21/12/1939	0.0
22/12/1939	0.0
23/12/1939	0.0
24/12/1939	0.0
25/12/1939	0.0
26/12/1939	0.0
27/12/1939	0.0
28/12/1939	0.0
29/12/1939	0.0

30/12/1939	0.0
31/12/1939	85.1
1/01/1940	0.0
2/01/1940	0.0
3/01/1940	0.0
4/01/1940	0.0
5/01/1940	0.0
6/01/1940	57.8
7/01/1940	78.8
8/01/1940	0.0
9/01/1940	0.0
10/01/1940	0.0
11/01/1940	0.0
12/01/1940	0.0
13/01/1940	0.0
14/01/1940	0.0
15/01/1940	17.7
16/01/1940	0.3
17/01/1940	0.0
18/01/1940	0.0
19/01/1940	3.3
20/01/1940	0.0
21/01/1940	0.0
22/01/1940	0.0
23/01/1940	0.0
24/01/1940	0.0
25/01/1940	0.0
26/01/1940	0.0
27/01/1940	0.0
28/01/1940	0.0
29/01/1940	0.0
30/01/1940	0.0
31/01/1940	0.0
1/02/1940	0.0
2/02/1940	0.0
3/02/1940	0.0
4/02/1940	0.0
5/02/1940	0.0
6/02/1940	0.0
7/02/1940	0.0
8/02/1940	0.0
9/02/1940	0.3
10/02/1940	0.0
11/02/1940	0.0
12/02/1940	0.0
13/02/1940	0.0
14/02/1940	0.0
15/02/1940	0.0
16/02/1940	0.0
17/02/1940	25.4
18/02/1940	324.3
19/02/1940	0.0
20/02/1940	130.9

21/02/1940	0.0
22/02/1940	0.0
23/02/1940	0.0
24/02/1940	0.0
25/02/1940	0.0
26/02/1940	0.0
27/02/1940	0.0
28/02/1940	0.0
29/02/1940	0.0
1/03/1940	0.0
2/03/1940	0.0
3/03/1940	0.0
4/03/1940	0.0
5/03/1940	69.5
6/03/1940	135.3
7/03/1940	0.0
8/03/1940	0.0
9/03/1940	0.0
10/03/1940	0.0
11/03/1940	0.0
12/03/1940	0.0
13/03/1940	0.0
14/03/1940	0.0
15/03/1940	0.0
16/03/1940	0.0
17/03/1940	0.0
18/03/1940	60.5
19/03/1940	59.5
20/03/1940	0.0
21/03/1940	0.0
22/03/1940	0.0
23/03/1940	0.0
24/03/1940	0.0
25/03/1940	0.0
26/03/1940	0.0
27/03/1940	0.0
28/03/1940	0.0
29/03/1940	0.0
30/03/1940	0.0
31/03/1940	0.0
1/04/1940	0.0
2/04/1940	54.8
3/04/1940	65.5
4/04/1940	322.6
5/04/1940	0.0
6/04/1940	0.0
7/04/1940	0.0
8/04/1940	0.0
9/04/1940	0.0
10/04/1940	0.0
11/04/1940	0.0
12/04/1940	0.0
13/04/1940	1493.2



14/04/1940	0.0
15/04/1940	0.0
16/04/1940	0.0
17/04/1940	0.0
18/04/1940	0.0
19/04/1940	0.0
20/04/1940	0.0
21/04/1940	0.0
22/04/1940	0.0
23/04/1940	0.0
24/04/1940	0.0
25/04/1940	331.3
26/04/1940	190.7
27/04/1940	839.9
28/04/1940	579.8
29/04/1940	322.9
30/04/1940	0.0
1/05/1940	178.7
2/05/1940	0.0
3/05/1940	0.0
4/05/1940	0.0
5/05/1940	337.3
6/05/1940	878.0
7/05/1940	845.0
8/05/1940	186.7
9/05/1940	34.4
10/05/1940	0.0
11/05/1940	0.0
12/05/1940	34.4
13/05/1940	0.0
14/05/1940	0.0
15/05/1940	0.0
16/05/1940	0.0
17/05/1940	0.0
18/05/1940	0.0
19/05/1940	285.2
20/05/1940	1247.1
21/05/1940	0.0
22/05/1940	0.0
23/05/1940	0.0
24/05/1940	0.0
25/05/1940	0.0
26/05/1940	0.0
27/05/1940	0.0
28/05/1940	17.4
29/05/1940	0.0
30/05/1940	0.0
31/05/1940	0.0
1/06/1940	0.0
2/06/1940	69.1
3/06/1940	0.0
4/06/1940	0.0
5/06/1940	0.0

6/06/1940	0.0
7/06/1940	0.0
8/06/1940	0.0
9/06/1940	0.0
10/06/1940	0.0
11/06/1940	0.0
12/06/1940	0.0
13/06/1940	0.0
14/06/1940	0.0
15/06/1940	0.0
16/06/1940	0.0
17/06/1940	0.0
18/06/1940	608.2
19/06/1940	377.1
20/06/1940	0.0
21/06/1940	0.0
22/06/1940	0.0
23/06/1940	0.0
24/06/1940	0.0
25/06/1940	0.0
26/06/1940	17.4
27/06/1940	4.0
28/06/1940	2.7
29/06/1940	0.0
30/06/1940	0.0
1/07/1940	0.0
2/07/1940	0.0
3/07/1940	0.0
4/07/1940	0.0
5/07/1940	340.7
6/07/1940	1650.9
7/07/1940	980.9
8/07/1940	238.1
9/07/1940	0.0
10/07/1940	0.0
11/07/1940	0.0
12/07/1940	0.0
13/07/1940	0.0
14/07/1940	0.0
15/07/1940	0.0
16/07/1940	0.0
17/07/1940	0.0
18/07/1940	0.0
19/07/1940	0.0
20/07/1940	0.0
21/07/1940	0.0
22/07/1940	0.0
23/07/1940	0.0
24/07/1940	0.0
25/07/1940	0.0
26/07/1940	0.0
27/07/1940	0.0
28/07/1940	0.0

29/07/1940	0.0
30/07/1940	0.0
31/07/1940	0.0
1/08/1940	0.0
2/08/1940	0.0
3/08/1940	107.2
4/08/1940	0.0
5/08/1940	0.0
6/08/1940	0.0
7/08/1940	0.0
8/08/1940	0.0
9/08/1940	0.0
10/08/1940	0.0
11/08/1940	0.0
12/08/1940	0.0
13/08/1940	0.0
14/08/1940	0.0
15/08/1940	0.0
16/08/1940	0.0
17/08/1940	120.9
18/08/1940	553.8
19/08/1940	49.1
20/08/1940	131.3
21/08/1940	0.0
22/08/1940	0.0
23/08/1940	0.0
24/08/1940	0.0
25/08/1940	0.0
26/08/1940	0.0
27/08/1940	0.0
28/08/1940	0.0
29/08/1940	857.3
30/08/1940	0.0
31/08/1940	0.0
1/09/1940	0.0
2/09/1940	0.0
3/09/1940	49.8
4/09/1940	0.0
5/09/1940	0.0
6/09/1940	0.0
7/09/1940	0.0
8/09/1940	0.0
9/09/1940	0.0
10/09/1940	0.0
11/09/1940	0.0
12/09/1940	0.0
13/09/1940	136.3
14/09/1940	0.0
15/09/1940	0.0
16/09/1940	0.0
17/09/1940	0.0
18/09/1940	0.0
19/09/1940	0.0

20/09/1940	222.1
21/09/1940	324.0
22/09/1940	99.9
23/09/1940	0.0
24/09/1940	0.0
25/09/1940	0.0
26/09/1940	0.0
27/09/1940	0.0
28/09/1940	0.0
29/09/1940	1030.0
30/09/1940	655.3
1/10/1940	666.0
2/10/1940	507.3
3/10/1940	32.4
4/10/1940	0.0
5/10/1940	0.0
6/10/1940	0.0
7/10/1940	0.0
8/10/1940	0.0
9/10/1940	0.0
10/10/1940	0.0
11/10/1940	0.0
12/10/1940	0.0
13/10/1940	0.0
14/10/1940	0.0
15/10/1940	0.0
16/10/1940	0.0
17/10/1940	0.0
18/10/1940	0.0
19/10/1940	0.0
20/10/1940	289.2
21/10/1940	0.0
22/10/1940	0.0
23/10/1940	0.0
24/10/1940	17.3
25/10/1940	0.0
26/10/1940	0.0
27/10/1940	0.0
28/10/1940	0.0
29/10/1940	0.0
30/10/1940	0.0
31/10/1940	123.9
1/11/1940	0.0
2/11/1940	0.0
3/11/1940	0.0
4/11/1940	0.0
5/11/1940	0.0
6/11/1940	0.0
7/11/1940	0.0
8/11/1940	53.7
9/11/1940	116.6
10/11/1940	0.0
11/11/1940	0.0

12/11/1940	0.0
13/11/1940	0.0
14/11/1940	129.3
15/11/1940	556.4
16/11/1940	183.7
17/11/1940	0.0
18/11/1940	0.0
19/11/1940	0.0
20/11/1940	0.0
21/11/1940	119.2
22/11/1940	0.0
23/11/1940	41.8
24/11/1940	0.0
25/11/1940	3.0
26/11/1940	0.0
27/11/1940	0.0
28/11/1940	0.0
29/11/1940	170.0
30/11/1940	706.0
1/12/1940	489.6
2/12/1940	0.0
3/12/1940	110.9
4/12/1940	0.0
5/12/1940	0.0
6/12/1940	0.0
7/12/1940	0.0
8/12/1940	526.0
9/12/1940	0.0
10/12/1940	0.0
11/12/1940	0.0
12/12/1940	0.0
13/12/1940	0.0
14/12/1940	114.6
15/12/1940	0.0
16/12/1940	0.0
17/12/1940	9.0
18/12/1940	0.0
19/12/1940	0.0
20/12/1940	1339.9
21/12/1940	23.7
22/12/1940	0.0
23/12/1940	51.4
24/12/1940	0.0
25/12/1940	0.0
26/12/1940	0.0
27/12/1940	0.0
28/12/1940	0.0
29/12/1940	0.0
30/12/1940	0.0
31/12/1940	0.0
1/01/1941	25.0
2/01/1941	450.6
3/01/1941	10.7

4/01/1941	249.5
5/01/1941	14.0
6/01/1941	453.6
7/01/1941	9.0
8/01/1941	0.0
9/01/1941	51.4
10/01/1941	102.2
11/01/1941	0.0
12/01/1941	0.0
13/01/1941	0.0
14/01/1941	0.0
15/01/1941	0.0
16/01/1941	0.0
17/01/1941	0.0
18/01/1941	21.4
19/01/1941	20.7
20/01/1941	0.0
21/01/1941	0.0
22/01/1941	0.0
23/01/1941	0.0
24/01/1941	0.0
25/01/1941	828.9
26/01/1941	161.7
27/01/1941	0.0
28/01/1941	0.0
29/01/1941	0.0
30/01/1941	0.0
31/01/1941	0.0
1/02/1941	0.0
2/02/1941	427.2
3/02/1941	65.8
4/02/1941	297.6
5/02/1941	85.2
6/02/1941	90.8
7/02/1941	300.9
8/02/1941	0.0
9/02/1941	0.0
10/02/1941	0.0
11/02/1941	7.3
12/02/1941	32.1
13/02/1941	40.7
14/02/1941	17.7
15/02/1941	0.0
16/02/1941	0.0
17/02/1941	0.0
18/02/1941	0.0
19/02/1941	0.0
20/02/1941	0.0
21/02/1941	0.0
22/02/1941	0.0
23/02/1941	0.0
24/02/1941	0.0
25/02/1941	0.0

26/02/1941	0.0
27/02/1941	0.0
28/02/1941	0.0
1/03/1941	0.0
2/03/1941	0.0
3/03/1941	0.0
4/03/1941	15.7
5/03/1941	0.0
6/03/1941	0.0
7/03/1941	0.7
8/03/1941	214.1
9/03/1941	0.0
10/03/1941	0.0
11/03/1941	0.0
12/03/1941	0.0
13/03/1941	0.0
14/03/1941	3.7
15/03/1941	0.0
16/03/1941	236.5
17/03/1941	0.0
18/03/1941	0.0
19/03/1941	248.1
20/03/1941	207.4
21/03/1941	0.0
22/03/1941	0.0
23/03/1941	0.0
24/03/1941	0.0
25/03/1941	0.0
26/03/1941	0.0
27/03/1941	0.0
28/03/1941	0.0
29/03/1941	0.0
30/03/1941	0.0
31/03/1941	0.0
1/04/1941	0.0
2/04/1941	0.0
3/04/1941	0.0
4/04/1941	0.0
5/04/1941	99.2
6/04/1941	65.1
7/04/1941	0.0
8/04/1941	0.0
9/04/1941	0.0
10/04/1941	0.0
11/04/1941	0.0
12/04/1941	0.0
13/04/1941	0.0
14/04/1941	75.5
15/04/1941	562.5
16/04/1941	797.9
17/04/1941	0.0
18/04/1941	0.0
19/04/1941	0.0

20/04/1941	0.0
21/04/1941	0.0
22/04/1941	212.4
23/04/1941	0.0
24/04/1941	0.0
25/04/1941	22.0
26/04/1941	479.6
27/04/1941	0.0
28/04/1941	0.0
29/04/1941	458.5
30/04/1941	0.0
1/05/1941	0.0
2/05/1941	118.2
3/05/1941	60.4
4/05/1941	9.4
5/05/1941	0.0
6/05/1941	0.0
7/05/1941	0.0
8/05/1941	0.0
9/05/1941	229.5
10/05/1941	0.0
11/05/1941	0.0
12/05/1941	0.0
13/05/1941	112.6
14/05/1941	465.6
15/05/1941	0.0
16/05/1941	0.0
17/05/1941	0.0
18/05/1941	0.0
19/05/1941	0.0
20/05/1941	0.0
21/05/1941	0.0
22/05/1941	0.0
23/05/1941	0.0
24/05/1941	281.2
25/05/1941	0.0
26/05/1941	0.0
27/05/1941	0.0
28/05/1941	0.0
29/05/1941	0.0
30/05/1941	0.0
31/05/1941	110.9
1/06/1941	136.9
2/06/1941	272.9
3/06/1941	32.1
4/06/1941	0.0
5/06/1941	0.0
6/06/1941	0.0
7/06/1941	0.0
8/06/1941	225.1
9/06/1941	0.0
10/06/1941	0.0
11/06/1941	0.0



12/06/1941	0.0
13/06/1941	0.0
14/06/1941	0.0
15/06/1941	0.0
16/06/1941	0.0
17/06/1941	0.0
18/06/1941	0.0
19/06/1941	0.0
20/06/1941	0.0
21/06/1941	79.8
22/06/1941	209.8
23/06/1941	184.0
24/06/1941	0.0
25/06/1941	0.0
26/06/1941	0.0
27/06/1941	0.0
28/06/1941	60.5
29/06/1941	0.0
30/06/1941	0.0
1/07/1941	0.0
2/07/1941	0.0
3/07/1941	0.0
4/07/1941	0.0
5/07/1941	0.0
6/07/1941	0.0
7/07/1941	0.0
8/07/1941	0.0
9/07/1941	0.0
10/07/1941	730.1
11/07/1941	379.4
12/07/1941	0.0
13/07/1941	0.0
14/07/1941	0.0
15/07/1941	33.1
16/07/1941	0.0
17/07/1941	0.0
18/07/1941	0.0
19/07/1941	0.0
20/07/1941	0.0
21/07/1941	0.0
22/07/1941	188.4
23/07/1941	101.1
24/07/1941	0.0
25/07/1941	0.0
26/07/1941	0.0
27/07/1941	0.0
28/07/1941	0.0
29/07/1941	0.0
30/07/1941	0.0
31/07/1941	0.0
1/08/1941	0.0
2/08/1941	0.0
3/08/1941	0.0

4/08/1941	0.0
5/08/1941	0.0
6/08/1941	0.0
7/08/1941	0.0
8/08/1941	0.0
9/08/1941	0.0
10/08/1941	0.0
11/08/1941	0.0
12/08/1941	0.0
13/08/1941	0.0
14/08/1941	0.0
15/08/1941	721.7
16/08/1941	127.6
17/08/1941	0.0
18/08/1941	0.0
19/08/1941	0.0
20/08/1941	278.2
21/08/1941	166.0
22/08/1941	190.0
23/08/1941	38.1
24/08/1941	0.0
25/08/1941	481.3
26/08/1941	0.0
27/08/1941	0.0
28/08/1941	0.0
29/08/1941	40.1
30/08/1941	0.0
31/08/1941	0.0
1/09/1941	8.7
2/09/1941	119.6
3/09/1941	0.0
4/09/1941	0.0
5/09/1941	78.2
6/09/1941	0.0
7/09/1941	0.0
8/09/1941	0.0
9/09/1941	102.2
10/09/1941	0.0
11/09/1941	0.0
12/09/1941	0.0
13/09/1941	0.0
14/09/1941	0.0
15/09/1941	0.0
16/09/1941	849.0
17/09/1941	6.0
18/09/1941	0.0
19/09/1941	0.0
20/09/1941	0.0
21/09/1941	0.0
22/09/1941	0.0
23/09/1941	9.0
24/09/1941	0.0
25/09/1941	0.0

26/09/1941	0.0
27/09/1941	0.0
28/09/1941	187.0
29/09/1941	0.0
30/09/1941	0.0
1/10/1941	749.1
2/10/1941	0.0
3/10/1941	0.0
4/10/1941	0.0
5/10/1941	0.0
6/10/1941	0.0
7/10/1941	0.0
8/10/1941	0.0
9/10/1941	0.0
10/10/1941	0.0
11/10/1941	0.0
12/10/1941	0.3
13/10/1941	0.0
14/10/1941	0.0
15/10/1941	0.0
16/10/1941	9.0
17/10/1941	0.0
18/10/1941	0.0
19/10/1941	0.0
20/10/1941	0.0
21/10/1941	0.0
22/10/1941	0.0
23/10/1941	0.0
24/10/1941	26.1
25/10/1941	0.0
26/10/1941	0.0
27/10/1941	0.0
28/10/1941	0.0
29/10/1941	0.0
30/10/1941	365.4
31/10/1941	0.0
1/11/1941	0.0
2/11/1941	0.0
3/11/1941	0.0
4/11/1941	0.0
5/11/1941	42.8
6/11/1941	0.0
7/11/1941	0.0
8/11/1941	0.0
9/11/1941	100.8
10/11/1941	132.3
11/11/1941	96.5
12/11/1941	0.0
13/11/1941	0.0
14/11/1941	0.0
15/11/1941	42.8
16/11/1941	221.1
17/11/1941	0.0

18/11/1941	0.0
19/11/1941	0.0
20/11/1941	0.0
21/11/1941	0.0
22/11/1941	26.1
23/11/1941	0.0
24/11/1941	0.0
25/11/1941	0.0
26/11/1941	0.0
27/11/1941	0.0
28/11/1941	0.0
29/11/1941	0.0
30/11/1941	0.7
1/12/1941	230.1
2/12/1941	0.0
3/12/1941	0.0
4/12/1941	0.0
5/12/1941	0.0
6/12/1941	0.0
7/12/1941	0.0
8/12/1941	0.0
9/12/1941	0.0
10/12/1941	0.0
11/12/1941	0.0
12/12/1941	0.0
13/12/1941	0.0
14/12/1941	0.0
15/12/1941	0.0
16/12/1941	0.0
17/12/1941	0.0
18/12/1941	0.0
19/12/1941	0.0
20/12/1941	0.0
21/12/1941	76.8
22/12/1941	0.0
23/12/1941	0.0
24/12/1941	0.0
25/12/1941	0.0
26/12/1941	0.0
27/12/1941	0.0
28/12/1941	29.4
29/12/1941	0.0
30/12/1941	119.6
31/12/1941	0.0
1/01/1942	0.0
2/01/1942	0.0
3/01/1942	0.0
4/01/1942	0.0
5/01/1942	0.0
6/01/1942	0.0
7/01/1942	0.0
8/01/1942	0.0
9/01/1942	0.0

10/01/1942	0.0
11/01/1942	0.0
12/01/1942	0.0
13/01/1942	0.0
14/01/1942	0.0
15/01/1942	0.0
16/01/1942	0.3
17/01/1942	0.0
18/01/1942	0.0
19/01/1942	0.0
20/01/1942	0.0
21/01/1942	0.0
22/01/1942	0.0
23/01/1942	0.0
24/01/1942	0.0
25/01/1942	297.2
26/01/1942	0.0
27/01/1942	0.0
28/01/1942	0.0
29/01/1942	0.0
30/01/1942	26.1
31/01/1942	0.0
1/02/1942	74.8
2/02/1942	0.0
3/02/1942	0.0
4/02/1942	8.0
5/02/1942	94.9
6/02/1942	0.0
7/02/1942	0.0
8/02/1942	0.0
9/02/1942	0.0
10/02/1942	0.0
11/02/1942	0.0
12/02/1942	0.0
13/02/1942	0.0
14/02/1942	157.6
15/02/1942	0.0
16/02/1942	0.0
17/02/1942	442.6
18/02/1942	10.4
19/02/1942	8.0
20/02/1942	17.4
21/02/1942	0.0
22/02/1942	0.0
23/02/1942	0.0
24/02/1942	0.0
25/02/1942	0.0
26/02/1942	0.0
27/02/1942	0.0
28/02/1942	0.0
1/03/1942	0.0
2/03/1942	0.0
3/03/1942	0.0

4/03/1942	0.0
5/03/1942	0.0
6/03/1942	0.0
7/03/1942	0.0
8/03/1942	0.0
9/03/1942	0.0
10/03/1942	0.0
11/03/1942	0.0
12/03/1942	0.0
13/03/1942	0.0
14/03/1942	0.0
15/03/1942	0.0
16/03/1942	0.0
17/03/1942	186.7
18/03/1942	676.0
19/03/1942	894.8
20/03/1942	337.0
21/03/1942	707.4
22/03/1942	40.4
23/03/1942	3.3
24/03/1942	0.0
25/03/1942	1341.6
26/03/1942	64.8
27/03/1942	7738.7
28/03/1942	2788.8
29/03/1942	638.3
30/03/1942	0.0
31/03/1942	0.0
1/04/1942	0.0
2/04/1942	0.0
3/04/1942	0.0
4/04/1942	0.0
5/04/1942	0.0
6/04/1942	0.0
7/04/1942	0.0
8/04/1942	0.0
9/04/1942	0.0
10/04/1942	0.0
11/04/1942	0.0
12/04/1942	0.0
13/04/1942	0.0
14/04/1942	0.0
15/04/1942	0.0
16/04/1942	0.0
17/04/1942	0.0
18/04/1942	0.0
19/04/1942	0.0
20/04/1942	0.0
21/04/1942	0.0
22/04/1942	0.0
23/04/1942	0.0
24/04/1942	122.2
25/04/1942	78.8

26/04/1942	28.4
27/04/1942	27.7
28/04/1942	0.0
29/04/1942	0.0
30/04/1942	0.0
1/05/1942	0.0
2/05/1942	0.0
3/05/1942	0.0
4/05/1942	0.0
5/05/1942	0.0
6/05/1942	0.0
7/05/1942	0.0
8/05/1942	0.0
9/05/1942	0.0
10/05/1942	0.0
11/05/1942	0.0
12/05/1942	0.0
13/05/1942	0.0
14/05/1942	0.0
15/05/1942	0.0
16/05/1942	0.0
17/05/1942	0.0
18/05/1942	0.0
19/05/1942	0.0
20/05/1942	0.0
21/05/1942	437.2
22/05/1942	0.0
23/05/1942	0.0
24/05/1942	60.5
25/05/1942	285.6
26/05/1942	318.0
27/05/1942	0.0
28/05/1942	0.0
29/05/1942	0.0
30/05/1942	0.0
31/05/1942	0.0
1/06/1942	555.1
2/06/1942	367.0
3/06/1942	792.9
4/06/1942	0.0
5/06/1942	0.0
6/06/1942	0.0
7/06/1942	0.0
8/06/1942	133.2
9/06/1942	37.4
10/06/1942	170.3
11/06/1942	51.4
12/06/1942	0.0
13/06/1942	0.0
14/06/1942	0.0
15/06/1942	0.0
16/06/1942	0.0
17/06/1942	0.0

18/06/1942	0.0
19/06/1942	36.4
20/06/1942	0.0
21/06/1942	0.0
22/06/1942	22.0
23/06/1942	130.6
24/06/1942	256.2
25/06/1942	0.0
26/06/1942	0.0
27/06/1942	0.0
28/06/1942	34.7
29/06/1942	0.0
30/06/1942	0.0
1/07/1942	0.0
2/07/1942	0.0
3/07/1942	0.0
4/07/1942	0.0
5/07/1942	0.0
6/07/1942	0.0
7/07/1942	0.0
8/07/1942	0.0
9/07/1942	326.7
10/07/1942	322.3
11/07/1942	192.4
12/07/1942	0.0
13/07/1942	0.0
14/07/1942	0.0
15/07/1942	0.0
16/07/1942	0.0
17/07/1942	0.0
18/07/1942	0.0
19/07/1942	0.0
20/07/1942	0.0
21/07/1942	0.0
22/07/1942	0.0
23/07/1942	0.0
24/07/1942	0.0
25/07/1942	311.6
26/07/1942	28.7
27/07/1942	0.0
28/07/1942	0.0
29/07/1942	2.3
30/07/1942	127.9
31/07/1942	263.5
1/08/1942	0.0
2/08/1942	135.9
3/08/1942	103.9
4/08/1942	41.4
5/08/1942	0.0
6/08/1942	0.0
7/08/1942	0.0
8/08/1942	0.0
9/08/1942	51.8



10/08/1942	0.0
11/08/1942	0.0
12/08/1942	0.0
13/08/1942	0.0
14/08/1942	0.0
15/08/1942	0.0
16/08/1942	0.0
17/08/1942	0.0
18/08/1942	0.0
19/08/1942	0.0
20/08/1942	0.0
21/08/1942	0.0
22/08/1942	0.0
23/08/1942	0.0
24/08/1942	0.0
25/08/1942	0.0
26/08/1942	0.0
27/08/1942	0.0
28/08/1942	4.6
29/08/1942	0.0
30/08/1942	51.4
31/08/1942	0.0
1/09/1942	0.0
2/09/1942	0.0
3/09/1942	0.0
4/09/1942	0.0
5/09/1942	0.0
6/09/1942	0.0
7/09/1942	0.0
8/09/1942	0.0
9/09/1942	0.0
10/09/1942	0.0
11/09/1942	0.0
12/09/1942	560.1
13/09/1942	0.0
14/09/1942	0.0
15/09/1942	0.0
16/09/1942	26.1
17/09/1942	0.0
18/09/1942	0.0
19/09/1942	0.0
20/09/1942	0.0
21/09/1942	0.0
22/09/1942	0.0
23/09/1942	0.0
24/09/1942	0.0
25/09/1942	0.0
26/09/1942	0.0
27/09/1942	0.0
28/09/1942	0.0
29/09/1942	0.0
30/09/1942	0.0
1/10/1942	25.7

2/10/1942	0.0
3/10/1942	0.0
4/10/1942	0.0
5/10/1942	0.0
6/10/1942	2.6
7/10/1942	0.0
8/10/1942	0.0
9/10/1942	0.0
10/10/1942	0.0
11/10/1942	0.0
12/10/1942	137.9
13/10/1942	1436.1
14/10/1942	947.2
15/10/1942	509.3
16/10/1942	93.9
17/10/1942	0.0
18/10/1942	50.1
19/10/1942	0.0
20/10/1942	0.0
21/10/1942	83.5
22/10/1942	221.1
23/10/1942	80.8
24/10/1942	0.0
25/10/1942	0.0
26/10/1942	0.0
27/10/1942	0.0
28/10/1942	0.0
29/10/1942	0.0
30/10/1942	0.0
31/10/1942	0.0
1/11/1942	249.8
2/11/1942	234.1
3/11/1942	226.8
4/11/1942	238.4
5/11/1942	249.5
6/11/1942	985.3
7/11/1942	50.8
8/11/1942	0.0
9/11/1942	0.0
10/11/1942	0.0
11/11/1942	0.0
12/11/1942	0.0
13/11/1942	0.0
14/11/1942	0.0
15/11/1942	42.8
16/11/1942	0.0
17/11/1942	0.7
18/11/1942	0.0
19/11/1942	0.0
20/11/1942	17.4
21/11/1942	272.9
22/11/1942	144.0
23/11/1942	158.0

24/11/1942	714.3
25/11/1942	9.0
26/11/1942	0.0
27/11/1942	0.0
28/11/1942	0.0
29/11/1942	0.0
30/11/1942	66.8
1/12/1942	0.0
2/12/1942	0.0
3/12/1942	0.0
4/12/1942	0.0
5/12/1942	0.0
6/12/1942	0.0
7/12/1942	0.0
8/12/1942	441.5
9/12/1942	671.0
10/12/1942	0.0
11/12/1942	0.0
12/12/1942	0.0
13/12/1942	0.0
14/12/1942	0.0
15/12/1942	0.0
16/12/1942	0.0
17/12/1942	0.0
18/12/1942	0.0
19/12/1942	0.0
20/12/1942	17.0
21/12/1942	0.0
22/12/1942	0.0
23/12/1942	0.0
24/12/1942	0.0
25/12/1942	826.3
26/12/1942	260.8
27/12/1942	0.0
28/12/1942	0.0
29/12/1942	0.0
30/12/1942	535.1
31/12/1942	149.3
1/01/1943	434.8
2/01/1943	0.0
3/01/1943	504.2
4/01/1943	287.0
5/01/1943	0.0
6/01/1943	0.0
7/01/1943	0.0
8/01/1943	0.0
9/01/1943	0.0
10/01/1943	0.0
11/01/1943	0.0
12/01/1943	0.0
13/01/1943	0.0
14/01/1943	0.0
15/01/1943	0.0

16/01/1943	0.0
17/01/1943	0.0
18/01/1943	0.0
19/01/1943	0.0
20/01/1943	0.0
21/01/1943	0.0
22/01/1943	365.4
23/01/1943	0.0
24/01/1943	0.0
25/01/1943	0.0
26/01/1943	0.0
27/01/1943	0.0
28/01/1943	0.0
29/01/1943	0.0
30/01/1943	0.0
31/01/1943	0.0
1/02/1943	0.0
2/02/1943	0.0
3/02/1943	0.0
4/02/1943	0.0
5/02/1943	0.0
6/02/1943	0.0
7/02/1943	0.0
8/02/1943	0.0
9/02/1943	0.0
10/02/1943	0.0
11/02/1943	0.0
12/02/1943	58.1
13/02/1943	0.0
14/02/1943	0.0
15/02/1943	0.0
16/02/1943	0.0
17/02/1943	0.0
18/02/1943	226.1
19/02/1943	0.0
20/02/1943	0.0
21/02/1943	0.0
22/02/1943	0.0
23/02/1943	0.0
24/02/1943	0.0
25/02/1943	0.0
26/02/1943	0.0
27/02/1943	0.0
28/02/1943	0.0
1/03/1943	0.0
2/03/1943	0.0
3/03/1943	0.0
4/03/1943	0.0
5/03/1943	68.1
6/03/1943	0.0
7/03/1943	0.0
8/03/1943	0.0
9/03/1943	0.0

10/03/1943	0.0
11/03/1943	0.0
12/03/1943	0.0
13/03/1943	0.0
14/03/1943	0.0
15/03/1943	348.4
16/03/1943	0.0
17/03/1943	0.0
18/03/1943	0.0
19/03/1943	0.0
20/03/1943	0.0
21/03/1943	0.0
22/03/1943	0.0
23/03/1943	0.0
24/03/1943	0.0
25/03/1943	0.0
26/03/1943	0.0
27/03/1943	0.0
28/03/1943	0.0
29/03/1943	0.0
30/03/1943	171.1
31/03/1943	502.7
1/04/1943	79.2
2/04/1943	602.8
3/04/1943	0.0
4/04/1943	0.0
5/04/1943	26.1
6/04/1943	0.0
7/04/1943	25.7
8/04/1943	0.0
9/04/1943	0.0
10/04/1943	0.0
11/04/1943	0.7
12/04/1943	0.0
13/04/1943	119.2
14/04/1943	0.0
15/04/1943	0.0
16/04/1943	0.0
17/04/1943	0.0
18/04/1943	0.0
19/04/1943	0.0
20/04/1943	0.0
21/04/1943	0.0
22/04/1943	0.0
23/04/1943	0.0
24/04/1943	0.0
25/04/1943	0.0
26/04/1943	0.0
27/04/1943	0.0
28/04/1943	0.0
29/04/1943	0.0
30/04/1943	335.0
1/05/1943	55.1

2/05/1943	0.0
3/05/1943	0.0
4/05/1943	0.0
5/05/1943	0.0
6/05/1943	0.0
7/05/1943	0.0
8/05/1943	0.0
9/05/1943	0.0
10/05/1943	0.0
11/05/1943	0.0
12/05/1943	0.0
13/05/1943	0.0
14/05/1943	764.1
15/05/1943	1056.7
16/05/1943	473.3
17/05/1943	836.1
18/05/1943	344.1
19/05/1943	2048.0
20/05/1943	7.7
21/05/1943	941.2
22/05/1943	96.2
23/05/1943	937.5
24/05/1943	668.6
25/05/1943	185.7
26/05/1943	250.8
27/05/1943	629.3
28/05/1943	476.6
29/05/1943	310.6
30/05/1943	0.0
31/05/1943	134.3
1/06/1943	87.2
2/06/1943	0.0
3/06/1943	0.0
4/06/1943	0.0
5/06/1943	17.7
6/06/1943	0.0
7/06/1943	0.0
8/06/1943	0.0
9/06/1943	0.0
10/06/1943	0.0
11/06/1943	85.2
12/06/1943	9.1
13/06/1943	0.0
14/06/1943	0.0
15/06/1943	0.0
16/06/1943	0.0
17/06/1943	0.0
18/06/1943	0.0
19/06/1943	0.0
20/06/1943	0.7
21/06/1943	0.0
22/06/1943	17.4
23/06/1943	0.0

24/06/1943	0.0
25/06/1943	0.0
26/06/1943	0.0
27/06/1943	187.3
28/06/1943	0.0
29/06/1943	17.4
30/06/1943	0.0
1/07/1943	0.0
2/07/1943	0.0
3/07/1943	0.0
4/07/1943	0.0
5/07/1943	0.0
6/07/1943	0.0
7/07/1943	0.0
8/07/1943	0.0
9/07/1943	153.0
10/07/1943	0.0
11/07/1943	0.0
12/07/1943	0.0
13/07/1943	0.0
14/07/1943	0.0
15/07/1943	0.0
16/07/1943	0.0
17/07/1943	0.0
18/07/1943	0.0
19/07/1943	0.0
20/07/1943	0.0
21/07/1943	0.0
22/07/1943	0.0
23/07/1943	0.0
24/07/1943	0.0
25/07/1943	0.0
26/07/1943	0.0
27/07/1943	0.0
28/07/1943	0.0
29/07/1943	0.0
30/07/1943	0.0
31/07/1943	0.0
1/08/1943	0.0
2/08/1943	0.0
3/08/1943	0.0
4/08/1943	0.0
5/08/1943	0.0
6/08/1943	0.0
7/08/1943	0.0
8/08/1943	4.0
9/08/1943	124.9
10/08/1943	127.6
11/08/1943	253.8
12/08/1943	190.7
13/08/1943	204.4
14/08/1943	0.0
15/08/1943	12.3

16/08/1943	396.1
17/08/1943	0.0
18/08/1943	968.9
19/08/1943	0.0
20/08/1943	153.3
21/08/1943	0.0
22/08/1943	0.0
23/08/1943	0.0
24/08/1943	2044.3
25/08/1943	727.8
26/08/1943	0.0
27/08/1943	136.3
28/08/1943	0.0
29/08/1943	0.0
30/08/1943	0.0
31/08/1943	0.0
1/09/1943	0.0
2/09/1943	0.0
3/09/1943	178.4
4/09/1943	0.0
5/09/1943	107.5
6/09/1943	54.8
7/09/1943	0.0
8/09/1943	195.7
9/09/1943	144.6
10/09/1943	0.0
11/09/1943	187.4
12/09/1943	0.0
13/09/1943	0.0
14/09/1943	180.7
15/09/1943	0.0
16/09/1943	0.0
17/09/1943	0.0
18/09/1943	0.0
19/09/1943	0.0
20/09/1943	0.0
21/09/1943	0.0
22/09/1943	493.7
23/09/1943	0.0
24/09/1943	26.1
25/09/1943	43.1
26/09/1943	0.0
27/09/1943	0.0
28/09/1943	738.5
29/09/1943	4224.0
30/09/1943	107.9
1/10/1943	0.0
2/10/1943	0.0
3/10/1943	0.0
4/10/1943	0.0
5/10/1943	0.0
6/10/1943	0.0
7/10/1943	0.0



8/10/1943	68.5
9/10/1943	243.2
10/10/1943	454.9
11/10/1943	0.0
12/10/1943	17.7
13/10/1943	0.0
14/10/1943	9.0
15/10/1943	0.0
16/10/1943	0.0
17/10/1943	0.0
18/10/1943	0.0
19/10/1943	0.0
20/10/1943	0.0
21/10/1943	0.0
22/10/1943	0.0
23/10/1943	0.0
24/10/1943	0.0
25/10/1943	68.5
26/10/1943	0.0
27/10/1943	0.0
28/10/1943	0.0
29/10/1943	0.0
30/10/1943	0.0
31/10/1943	0.0
1/11/1943	42.8
2/11/1943	0.0
3/11/1943	599.9
4/11/1943	207.1
5/11/1943	0.0
6/11/1943	0.0
7/11/1943	802.6
8/11/1943	46.8
9/11/1943	0.0
10/11/1943	171.7
11/11/1943	0.0
12/11/1943	34.7
13/11/1943	0.0
14/11/1943	371.7
15/11/1943	700.6
16/11/1943	0.0
17/11/1943	0.0
18/11/1943	587.1
19/11/1943	474.3
20/11/1943	21.4
21/11/1943	921.8
22/11/1943	0.0
23/11/1943	0.0
24/11/1943	42.8
25/11/1943	862.3
26/11/1943	11.0
27/11/1943	168.7
28/11/1943	0.0
29/11/1943	0.0

30/11/1943	0.0
1/12/1943	0.0
2/12/1943	0.0
3/12/1943	0.0
4/12/1943	0.0
5/12/1943	0.0
6/12/1943	0.0
7/12/1943	200.1
8/12/1943	677.7
9/12/1943	0.0
10/12/1943	0.0
11/12/1943	223.4
12/12/1943	0.0
13/12/1943	0.0
14/12/1943	0.0
15/12/1943	0.0
16/12/1943	0.0
17/12/1943	17.3
18/12/1943	730.1
19/12/1943	0.0
20/12/1943	0.0
21/12/1943	0.0
22/12/1943	0.0
23/12/1943	0.0
24/12/1943	0.0
25/12/1943	0.0
26/12/1943	0.0
27/12/1943	255.1
28/12/1943	0.0
29/12/1943	0.0
30/12/1943	0.0
31/12/1943	15.7
1/01/1944	701.3
2/01/1944	0.0
3/01/1944	0.0
4/01/1944	0.0
5/01/1944	0.0
6/01/1944	0.0
7/01/1944	0.0
8/01/1944	0.0
9/01/1944	0.0
10/01/1944	593.2
11/01/1944	0.0
12/01/1944	0.0
13/01/1944	0.0
14/01/1944	0.0
15/01/1944	154.6
16/01/1944	0.0
17/01/1944	0.0
18/01/1944	0.0
19/01/1944	0.0
20/01/1944	0.0
21/01/1944	0.0

22/01/1944	0.0
23/01/1944	0.0
24/01/1944	0.0
25/01/1944	3.6
26/01/1944	0.0
27/01/1944	0.0
28/01/1944	0.0
29/01/1944	0.0
30/01/1944	0.0
31/01/1944	0.0
1/02/1944	0.0
2/02/1944	0.0
3/02/1944	0.0
4/02/1944	0.0
5/02/1944	0.0
6/02/1944	0.0
7/02/1944	0.3
8/02/1944	0.0
9/02/1944	0.0
10/02/1944	390.8
11/02/1944	0.0
12/02/1944	0.0
13/02/1944	0.0
14/02/1944	0.0
15/02/1944	0.0
16/02/1944	0.0
17/02/1944	0.0
18/02/1944	0.0
19/02/1944	1295.5
20/02/1944	815.0
21/02/1944	0.0
22/02/1944	0.0
23/02/1944	0.0
24/02/1944	0.0
25/02/1944	0.0
26/02/1944	0.0
27/02/1944	0.0
28/02/1944	0.7
29/02/1944	0.0
1/03/1944	0.0
2/03/1944	0.0
3/03/1944	0.0
4/03/1944	0.0
5/03/1944	0.0
6/03/1944	0.0
7/03/1944	0.0
8/03/1944	0.0
9/03/1944	419.5
10/03/1944	5.7
11/03/1944	0.0
12/03/1944	0.0
13/03/1944	0.0
14/03/1944	0.0

15/03/1944	0.0
16/03/1944	0.0
17/03/1944	0.0
18/03/1944	40.7
19/03/1944	0.0
20/03/1944	894.1
21/03/1944	719.8
22/03/1944	0.0
23/03/1944	0.0
24/03/1944	0.0
25/03/1944	9.0
26/03/1944	34.4
27/03/1944	0.0
28/03/1944	0.0
29/03/1944	0.0
30/03/1944	0.0
31/03/1944	0.0
1/04/1944	0.0
2/04/1944	0.0
3/04/1944	154.0
4/04/1944	314.0
5/04/1944	0.0
6/04/1944	0.0
7/04/1944	0.0
8/04/1944	0.0
9/04/1944	323.0
10/04/1944	0.0
11/04/1944	0.0
12/04/1944	0.0
13/04/1944	119.6
14/04/1944	1066.1
15/04/1944	0.0
16/04/1944	0.0
17/04/1944	0.0
18/04/1944	0.0
19/04/1944	0.0
20/04/1944	0.0
21/04/1944	0.0
22/04/1944	0.0
23/04/1944	0.0
24/04/1944	102.2
25/04/1944	0.0
26/04/1944	0.0
27/04/1944	0.0
28/04/1944	0.0
29/04/1944	0.0
30/04/1944	9.0
1/05/1944	0.0
2/05/1944	0.0
3/05/1944	0.0
4/05/1944	0.0
5/05/1944	0.0
6/05/1944	0.0

7/05/1944	0.0
8/05/1944	0.0
9/05/1944	0.0
10/05/1944	0.0
11/05/1944	0.0
12/05/1944	0.0
13/05/1944	0.0
14/05/1944	329.0
15/05/1944	554.4
16/05/1944	0.0
17/05/1944	928.1
18/05/1944	162.7
19/05/1944	0.0
20/05/1944	0.0
21/05/1944	25.7
22/05/1944	17.7
23/05/1944	35.1
24/05/1944	288.2
25/05/1944	0.0
26/05/1944	0.0
27/05/1944	0.0
28/05/1944	0.0
29/05/1944	0.0
30/05/1944	0.0
31/05/1944	0.0
1/06/1944	0.0
2/06/1944	0.0
3/06/1944	0.0
4/06/1944	0.0
5/06/1944	0.0
6/06/1944	0.0
7/06/1944	0.0
8/06/1944	0.0
9/06/1944	0.0
10/06/1944	0.0
11/06/1944	0.0
12/06/1944	246.5
13/06/1944	0.0
14/06/1944	0.0
15/06/1944	0.0
16/06/1944	0.0
17/06/1944	1210.7
18/06/1944	0.0
19/06/1944	0.0
20/06/1944	0.0
21/06/1944	0.0
22/06/1944	0.7
23/06/1944	0.0
24/06/1944	0.0
25/06/1944	0.0
26/06/1944	16.0
27/06/1944	537.4
28/06/1944	0.0

29/06/1944	0.0
30/06/1944	0.0
1/07/1944	585.5
2/07/1944	531.7
3/07/1944	541.7
4/07/1944	132.9
5/07/1944	0.0
6/07/1944	0.0
7/07/1944	85.5
8/07/1944	0.0
9/07/1944	0.0
10/07/1944	0.0
11/07/1944	0.0
12/07/1944	126.6
13/07/1944	466.6
14/07/1944	0.0
15/07/1944	178.0
16/07/1944	0.0
17/07/1944	0.0
18/07/1944	0.0
19/07/1944	0.0
20/07/1944	0.0
21/07/1944	0.0
22/07/1944	0.0
23/07/1944	0.0
24/07/1944	0.0
25/07/1944	43.1
26/07/1944	0.0
27/07/1944	0.0
28/07/1944	0.0
29/07/1944	0.0
30/07/1944	0.0
31/07/1944	0.0
1/08/1944	0.0
2/08/1944	0.0
3/08/1944	34.4
4/08/1944	0.0
5/08/1944	147.0
6/08/1944	0.0
7/08/1944	0.0
8/08/1944	0.3
9/08/1944	255.8
10/08/1944	1651.6
11/08/1944	174.7
12/08/1944	43.8
13/08/1944	0.0
14/08/1944	0.0
15/08/1944	26.1
16/08/1944	0.0
17/08/1944	0.0
18/08/1944	0.0
19/08/1944	61.8
20/08/1944	0.0

21/08/1944	0.0
22/08/1944	26.1
23/08/1944	483.9
24/08/1944	13.0
25/08/1944	30.7
26/08/1944	0.0
27/08/1944	102.2
28/08/1944	0.0
29/08/1944	0.0
30/08/1944	0.0
31/08/1944	0.0
1/09/1944	0.0
2/09/1944	0.0
3/09/1944	0.0
4/09/1944	0.0
5/09/1944	0.0
6/09/1944	0.0
7/09/1944	0.0
8/09/1944	0.0
9/09/1944	0.0
10/09/1944	0.0
11/09/1944	0.0
12/09/1944	0.0
13/09/1944	0.0
14/09/1944	253.5
15/09/1944	0.0
16/09/1944	170.0
17/09/1944	0.0
18/09/1944	0.0
19/09/1944	0.0
20/09/1944	0.0
21/09/1944	0.0
22/09/1944	189.0
23/09/1944	0.0
24/09/1944	0.0
25/09/1944	0.0
26/09/1944	0.0
27/09/1944	27.4
28/09/1944	142.0
29/09/1944	0.0
30/09/1944	0.0
1/10/1944	0.0
2/10/1944	0.0
3/10/1944	0.3
4/10/1944	0.0
5/10/1944	0.0
6/10/1944	0.0
7/10/1944	0.0
8/10/1944	0.0
9/10/1944	0.0
10/10/1944	0.0
11/10/1944	0.0
12/10/1944	0.0

13/10/1944	0.0
14/10/1944	0.0
15/10/1944	0.0
16/10/1944	498.0
17/10/1944	29.1
18/10/1944	0.0
19/10/1944	0.0
20/10/1944	0.0
21/10/1944	0.0
22/10/1944	0.0
23/10/1944	0.0
24/10/1944	68.5
25/10/1944	0.0
26/10/1944	0.0
27/10/1944	9.0
28/10/1944	0.0
29/10/1944	142.6
30/10/1944	0.0
31/10/1944	0.0
1/11/1944	0.0
2/11/1944	0.0
3/11/1944	0.0
4/11/1944	0.0
5/11/1944	0.0
6/11/1944	0.0
7/11/1944	0.0
8/11/1944	0.0
9/11/1944	0.0
10/11/1944	0.0
11/11/1944	0.0
12/11/1944	0.0
13/11/1944	0.0
14/11/1944	0.0
15/11/1944	0.0
16/11/1944	0.0
17/11/1944	0.0
18/11/1944	0.0
19/11/1944	0.0
20/11/1944	0.0
21/11/1944	0.3
22/11/1944	0.0
23/11/1944	0.0
24/11/1944	491.3
25/11/1944	0.0
26/11/1944	0.0
27/11/1944	0.0
28/11/1944	0.0
29/11/1944	65.1
30/11/1944	54.8
1/12/1944	0.0
2/12/1944	0.0
3/12/1944	0.0
4/12/1944	0.0



5/12/1944	0.0
6/12/1944	311.6
7/12/1944	0.0
8/12/1944	0.0
9/12/1944	0.0
10/12/1944	75.1
11/12/1944	0.0
12/12/1944	0.0
13/12/1944	0.0
14/12/1944	0.0
15/12/1944	0.0
16/12/1944	0.0
17/12/1944	0.0
18/12/1944	0.0
19/12/1944	0.0
20/12/1944	0.0
21/12/1944	119.2
22/12/1944	0.0
23/12/1944	0.0
24/12/1944	0.0
25/12/1944	0.0
26/12/1944	0.0
27/12/1944	0.0
28/12/1944	0.0
29/12/1944	0.0
30/12/1944	0.0
31/12/1944	0.0
1/01/1945	0.0
2/01/1945	0.0
3/01/1945	51.1
4/01/1945	0.0
5/01/1945	0.0
6/01/1945	0.0
7/01/1945	0.0
8/01/1945	0.0
9/01/1945	0.0
10/01/1945	0.0
11/01/1945	125.6
12/01/1945	654.6
13/01/1945	61.8
14/01/1945	47.8
15/01/1945	0.0
16/01/1945	382.1
17/01/1945	0.0
18/01/1945	0.0
19/01/1945	0.0
20/01/1945	0.0
21/01/1945	0.0
22/01/1945	0.0
23/01/1945	0.0
24/01/1945	0.0
25/01/1945	0.0
26/01/1945	0.0

27/01/1945	0.0
28/01/1945	0.0
29/01/1945	0.0
30/01/1945	75.1
31/01/1945	307.6
1/02/1945	0.0
2/02/1945	0.0
3/02/1945	0.0
4/02/1945	0.0
5/02/1945	0.0
6/02/1945	0.0
7/02/1945	0.0
8/02/1945	0.0
9/02/1945	0.0
10/02/1945	0.0
11/02/1945	0.0
12/02/1945	0.0
13/02/1945	0.0
14/02/1945	0.0
15/02/1945	0.0
16/02/1945	0.0
17/02/1945	10.7
18/02/1945	632.6
19/02/1945	0.0
20/02/1945	0.0
21/02/1945	432.8
22/02/1945	0.0
23/02/1945	0.0
24/02/1945	67.5
25/02/1945	195.1
26/02/1945	0.0
27/02/1945	0.0
28/02/1945	43.1
1/03/1945	0.0
2/03/1945	0.0
3/03/1945	0.0
4/03/1945	43.1
5/03/1945	0.0
6/03/1945	0.0
7/03/1945	0.0
8/03/1945	0.0
9/03/1945	0.0
10/03/1945	0.0
11/03/1945	0.0
12/03/1945	0.0
13/03/1945	0.0
14/03/1945	0.0
15/03/1945	0.0
16/03/1945	0.0
17/03/1945	0.0
18/03/1945	0.0
19/03/1945	0.0
20/03/1945	118.6

21/03/1945	1.3
22/03/1945	0.0
23/03/1945	0.0
24/03/1945	0.0
25/03/1945	0.0
26/03/1945	0.0
27/03/1945	0.0
28/03/1945	0.0
29/03/1945	0.0
30/03/1945	566.1
31/03/1945	89.5
1/04/1945	0.0
2/04/1945	0.0
3/04/1945	0.0
4/04/1945	0.0
5/04/1945	0.0
6/04/1945	0.0
7/04/1945	1050.4
8/04/1945	1707.7
9/04/1945	0.0
10/04/1945	0.0
11/04/1945	131.9
12/04/1945	556.7
13/04/1945	0.0
14/04/1945	0.0
15/04/1945	0.0
16/04/1945	26.4
17/04/1945	49.1
18/04/1945	764.5
19/04/1945	892.4
20/04/1945	4221.3
21/04/1945	2.0
22/04/1945	246.5
23/04/1945	0.0
24/04/1945	0.0
25/04/1945	153.3
26/04/1945	0.0
27/04/1945	0.0
28/04/1945	0.0
29/04/1945	0.0
30/04/1945	0.0
1/05/1945	0.0
2/05/1945	0.0
3/05/1945	0.0
4/05/1945	0.0
5/05/1945	0.0
6/05/1945	0.0
7/05/1945	94.5
8/05/1945	384.1
9/05/1945	0.0
10/05/1945	0.0
11/05/1945	0.0
12/05/1945	0.0

13/05/1945	0.0
14/05/1945	0.0
15/05/1945	722.1
16/05/1945	1470.8
17/05/1945	1382.4
18/05/1945	111.6
19/05/1945	0.0
20/05/1945	0.0
21/05/1945	0.0
22/05/1945	61.1
23/05/1945	0.0
24/05/1945	0.0
25/05/1945	678.0
26/05/1945	358.0
27/05/1945	0.0
28/05/1945	0.0
29/05/1945	0.0
30/05/1945	0.0
31/05/1945	0.0
1/06/1945	0.0
2/06/1945	51.1
3/06/1945	75.5
4/06/1945	0.0
5/06/1945	0.0
6/06/1945	0.0
7/06/1945	273.5
8/06/1945	0.0
9/06/1945	985.6
10/06/1945	616.6
11/06/1945	1166.9
12/06/1945	2029.6
13/06/1945	142.6
14/06/1945	114.6
15/06/1945	125.6
16/06/1945	8.0
17/06/1945	172.0
18/06/1945	0.0
19/06/1945	0.0
20/06/1945	0.0
21/06/1945	105.5
22/06/1945	151.6
23/06/1945	0.0
24/06/1945	0.0
25/06/1945	0.0
26/06/1945	0.0
27/06/1945	0.0
28/06/1945	0.0
29/06/1945	0.0
30/06/1945	0.0
1/07/1945	0.0
2/07/1945	0.0
3/07/1945	0.0
4/07/1945	0.0

5/07/1945	0.0
6/07/1945	0.0
7/07/1945	0.0
8/07/1945	0.0
9/07/1945	8.7
10/07/1945	160.7
11/07/1945	425.8
12/07/1945	201.4
13/07/1945	196.4
14/07/1945	161.0
15/07/1945	15.7
16/07/1945	849.7
17/07/1945	1.7
18/07/1945	280.2
19/07/1945	0.0
20/07/1945	0.0
21/07/1945	0.0
22/07/1945	20.7
23/07/1945	0.0
24/07/1945	0.0
25/07/1945	0.0
26/07/1945	0.0
27/07/1945	0.0
28/07/1945	0.0
29/07/1945	0.0
30/07/1945	0.0
31/07/1945	110.6
1/08/1945	68.8
2/08/1945	0.0
3/08/1945	0.0
4/08/1945	0.0
5/08/1945	0.0
6/08/1945	0.0
7/08/1945	770.5
8/08/1945	19.4
9/08/1945	0.0
10/08/1945	0.0
11/08/1945	0.0
12/08/1945	0.0
13/08/1945	0.0
14/08/1945	0.0
15/08/1945	0.0
16/08/1945	0.0
17/08/1945	0.0
18/08/1945	0.0
19/08/1945	0.0
20/08/1945	0.0
21/08/1945	71.1
22/08/1945	28.0
23/08/1945	475.9
24/08/1945	0.0
25/08/1945	0.0
26/08/1945	0.0

27/08/1945	0.0
28/08/1945	0.0
29/08/1945	0.0
30/08/1945	60.1
31/08/1945	0.0
1/09/1945	0.0
2/09/1945	0.0
3/09/1945	0.0
4/09/1945	0.0
5/09/1945	0.0
6/09/1945	0.0
7/09/1945	0.0
8/09/1945	0.0
9/09/1945	0.0
10/09/1945	0.0
11/09/1945	0.0
12/09/1945	26.1
13/09/1945	0.0
14/09/1945	0.0
15/09/1945	0.0
16/09/1945	0.0
17/09/1945	0.0
18/09/1945	0.0
19/09/1945	0.0
20/09/1945	0.0
21/09/1945	34.4
22/09/1945	0.0
23/09/1945	17.4
24/09/1945	0.0
25/09/1945	0.0
26/09/1945	0.0
27/09/1945	0.0
28/09/1945	0.0
29/09/1945	0.0
30/09/1945	498.3
1/10/1945	494.3
2/10/1945	0.0
3/10/1945	0.0
4/10/1945	0.0
5/10/1945	0.0
6/10/1945	0.0
7/10/1945	0.0
8/10/1945	0.0
9/10/1945	0.0
10/10/1945	0.0
11/10/1945	0.0
12/10/1945	0.0
13/10/1945	9.0
14/10/1945	0.0
15/10/1945	0.0
16/10/1945	0.0
17/10/1945	0.0
18/10/1945	0.0

19/10/1945	0.0
20/10/1945	0.0
21/10/1945	0.0
22/10/1945	0.0
23/10/1945	0.0
24/10/1945	0.0
25/10/1945	0.0
26/10/1945	0.0
27/10/1945	102.5
28/10/1945	0.0
29/10/1945	0.0
30/10/1945	0.0
31/10/1945	0.0
1/11/1945	0.0
2/11/1945	0.0
3/11/1945	0.0
4/11/1945	0.0
5/11/1945	0.0
6/11/1945	0.0
7/11/1945	0.0
8/11/1945	0.0
9/11/1945	108.2
10/11/1945	0.0
11/11/1945	0.0
12/11/1945	38.1
13/11/1945	190.4
14/11/1945	41.8
15/11/1945	149.6
16/11/1945	9.0
17/11/1945	9.0
18/11/1945	51.4
19/11/1945	34.4
20/11/1945	0.0
21/11/1945	0.0
22/11/1945	0.0
23/11/1945	0.0
24/11/1945	0.0
25/11/1945	0.0
26/11/1945	0.0
27/11/1945	32.7
28/11/1945	690.7
29/11/1945	84.2
30/11/1945	42.8
1/12/1945	0.0
2/12/1945	0.0
3/12/1945	0.0
4/12/1945	60.5
5/12/1945	68.5
6/12/1945	0.0
7/12/1945	0.0
8/12/1945	212.4
9/12/1945	305.9
10/12/1945	0.0

11/12/1945	0.0
12/12/1945	0.0
13/12/1945	0.0
14/12/1945	0.0
15/12/1945	0.0
16/12/1945	0.0
17/12/1945	0.0
18/12/1945	0.0
19/12/1945	0.0
20/12/1945	0.0
21/12/1945	0.0
22/12/1945	0.0
23/12/1945	0.0
24/12/1945	0.0
25/12/1945	0.0
26/12/1945	0.0
27/12/1945	362.1
28/12/1945	570.8
29/12/1945	0.0
30/12/1945	0.0
31/12/1945	0.0
1/01/1946	0.0
2/01/1946	0.0
3/01/1946	0.0
4/01/1946	0.0
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7/01/1946	0.0
8/01/1946	0.0
9/01/1946	0.0
10/01/1946	0.0
11/01/1946	0.0
12/01/1946	0.0
13/01/1946	0.0
14/01/1946	0.0
15/01/1946	0.0
16/01/1946	0.0
17/01/1946	0.0
18/01/1946	79.5
19/01/1946	173.6
20/01/1946	164.7
21/01/1946	0.0
22/01/1946	0.0
23/01/1946	0.0
24/01/1946	0.0
25/01/1946	0.0
26/01/1946	0.0
27/01/1946	0.0
28/01/1946	0.0
29/01/1946	0.0
30/01/1946	0.0
31/01/1946	0.0
1/02/1946	0.0



2/02/1946	0.0
3/02/1946	62.8
4/02/1946	0.0
5/02/1946	0.0
6/02/1946	0.0
7/02/1946	0.0
8/02/1946	56.8
9/02/1946	969.6
10/02/1946	0.0
11/02/1946	65.5
12/02/1946	607.2
13/02/1946	255.8
14/02/1946	0.0
15/02/1946	0.0
16/02/1946	110.9
17/02/1946	271.8
18/02/1946	0.0
19/02/1946	0.0
20/02/1946	0.0
21/02/1946	0.0
22/02/1946	0.0
23/02/1946	0.0
24/02/1946	0.0
25/02/1946	0.0
26/02/1946	0.0
27/02/1946	0.0
28/02/1946	64.1
1/03/1946	114.6
2/03/1946	0.0
3/03/1946	17.4
4/03/1946	187.0
5/03/1946	0.0
6/03/1946	0.0
7/03/1946	17.7
8/03/1946	0.0
9/03/1946	0.0
10/03/1946	0.0
11/03/1946	0.0
12/03/1946	0.0
13/03/1946	0.0
14/03/1946	0.0
15/03/1946	0.0
16/03/1946	46.2
17/03/1946	0.0
18/03/1946	0.0
19/03/1946	0.0
20/03/1946	0.0
21/03/1946	0.0
22/03/1946	102.2
23/03/1946	0.0
24/03/1946	643.8
25/03/1946	1687.1
26/03/1946	0.0

27/03/1946	0.0
28/03/1946	0.0
29/03/1946	0.0
30/03/1946	0.0
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2/04/1946	59.8
3/04/1946	0.0
4/04/1946	0.0
5/04/1946	442.6
6/04/1946	0.0
7/04/1946	0.0
8/04/1946	0.0
9/04/1946	0.0
10/04/1946	0.0
11/04/1946	0.0
12/04/1946	0.0
13/04/1946	0.0
14/04/1946	79.8
15/04/1946	2046.3
16/04/1946	2314.9
17/04/1946	551.7
18/04/1946	1321.2
19/04/1946	0.0
20/04/1946	42.8
21/04/1946	0.0
22/04/1946	0.0
23/04/1946	806.6
24/04/1946	0.0
25/04/1946	0.0
26/04/1946	0.0
27/04/1946	0.0
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7/05/1946	0.0
8/05/1946	0.0
9/05/1946	0.0
10/05/1946	0.0
11/05/1946	0.0
12/05/1946	0.0
13/05/1946	93.9
14/05/1946	17.7
15/05/1946	0.0
16/05/1946	0.0
17/05/1946	0.0
18/05/1946	0.0

19/05/1946	764.9
20/05/1946	624.1
21/05/1946	0.0
22/05/1946	0.0
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29/05/1946	0.0
30/05/1946	59.5
31/05/1946	0.0
1/06/1946	0.0
2/06/1946	0.0
3/06/1946	263.2
4/06/1946	0.0
5/06/1946	866.6
6/06/1946	1809.2
7/06/1946	0.0
8/06/1946	0.0
9/06/1946	0.0
10/06/1946	0.0
11/06/1946	0.0
12/06/1946	0.0
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14/06/1946	0.0
15/06/1946	0.0
16/06/1946	0.0
17/06/1946	0.0
18/06/1946	0.0
19/06/1946	0.0
20/06/1946	1188.3
21/06/1946	322.6
22/06/1946	0.0
23/06/1946	0.0
24/06/1946	0.0
25/06/1946	0.0
26/06/1946	0.0
27/06/1946	0.0
28/06/1946	2.0
29/06/1946	272.5
30/06/1946	26.1
1/07/1946	0.0
2/07/1946	0.0
3/07/1946	0.0
4/07/1946	0.0
5/07/1946	0.0
6/07/1946	0.0
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8/07/1946	0.0
9/07/1946	0.0
10/07/1946	0.0

11/07/1946	0.0
12/07/1946	0.0
13/07/1946	0.0
14/07/1946	0.0
15/07/1946	0.0
16/07/1946	0.0
17/07/1946	0.0
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19/07/1946	0.0
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22/07/1946	0.0
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26/07/1946	0.0
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29/07/1946	0.0
30/07/1946	0.0
31/07/1946	0.0
1/08/1946	0.0
2/08/1946	0.0
3/08/1946	0.0
4/08/1946	0.0
5/08/1946	0.0
6/08/1946	0.0
7/08/1946	0.0
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12/08/1946	0.0
13/08/1946	0.0
14/08/1946	0.0
15/08/1946	0.0
16/08/1946	0.0
17/08/1946	0.0
18/08/1946	0.0
19/08/1946	0.0
20/08/1946	0.0
21/08/1946	0.0
22/08/1946	0.0
23/08/1946	0.0
24/08/1946	0.0
25/08/1946	51.4
26/08/1946	0.0
27/08/1946	0.0
28/08/1946	0.0
29/08/1946	0.0
30/08/1946	0.0
31/08/1946	0.0
1/09/1946	0.0

2/09/1946	0.0
3/09/1946	0.0
4/09/1946	0.0
5/09/1946	0.0
6/09/1946	42.8
7/09/1946	0.0
8/09/1946	0.0
9/09/1946	0.0
10/09/1946	0.0
11/09/1946	0.0
12/09/1946	0.0
13/09/1946	0.0
14/09/1946	0.0
15/09/1946	0.0
16/09/1946	0.0
17/09/1946	0.0
18/09/1946	0.0
19/09/1946	86.5
20/09/1946	170.6
21/09/1946	92.5
22/09/1946	0.0
23/09/1946	0.0
24/09/1946	0.0
25/09/1946	75.1
26/09/1946	0.0
27/09/1946	0.0
28/09/1946	0.0
29/09/1946	42.8
30/09/1946	0.0
1/10/1946	0.0
2/10/1946	0.0
3/10/1946	0.0
4/10/1946	0.0
5/10/1946	0.0
6/10/1946	0.0
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8/10/1946	0.0
9/10/1946	0.0
10/10/1946	0.0
11/10/1946	0.0
12/10/1946	0.0
13/10/1946	0.0
14/10/1946	353.4
15/10/1946	892.0
16/10/1946	0.0
17/10/1946	0.0
18/10/1946	129.9
19/10/1946	0.0
20/10/1946	0.0
21/10/1946	110.9
22/10/1946	0.0
23/10/1946	34.4
24/10/1946	0.0

25/10/1946	0.0
26/10/1946	0.0
27/10/1946	0.0
28/10/1946	0.0
29/10/1946	0.0
30/10/1946	110.9
31/10/1946	0.0
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2/11/1946	0.0
3/11/1946	0.0
4/11/1946	0.0
5/11/1946	0.0
6/11/1946	0.0
7/11/1946	0.0
8/11/1946	108.9
9/11/1946	0.0
10/11/1946	0.0
11/11/1946	0.0
12/11/1946	0.0
13/11/1946	34.4
14/11/1946	0.0
15/11/1946	566.1
16/11/1946	210.4
17/11/1946	0.0
18/11/1946	1428.9
19/11/1946	34.7
20/11/1946	0.0
21/11/1946	0.0
22/11/1946	0.0
23/11/1946	0.0
24/11/1946	0.0
25/11/1946	0.0
26/11/1946	0.0
27/11/1946	14.7
28/11/1946	0.0
29/11/1946	0.0
30/11/1946	0.0
1/12/1946	0.0
2/12/1946	0.0
3/12/1946	0.0
4/12/1946	0.0
5/12/1946	154.6
6/12/1946	0.0
7/12/1946	0.0
8/12/1946	0.0
9/12/1946	0.0
10/12/1946	0.0
11/12/1946	0.0
12/12/1946	0.0
13/12/1946	0.0
14/12/1946	331.3
15/12/1946	0.0
16/12/1946	0.0

17/12/1946	0.0
18/12/1946	0.0
19/12/1946	0.3
20/12/1946	0.0
21/12/1946	0.0
22/12/1946	0.0
23/12/1946	0.0
24/12/1946	0.0
25/12/1946	0.0
26/12/1946	0.0
27/12/1946	0.0
28/12/1946	34.4
29/12/1946	0.0
30/12/1946	0.0
31/12/1946	0.0
1/01/1947	93.5
2/01/1947	0.0
3/01/1947	28.0
4/01/1947	41.1
5/01/1947	0.0
6/01/1947	253.8
7/01/1947	0.0
8/01/1947	0.0
9/01/1947	61.5
10/01/1947	0.0
11/01/1947	0.0
12/01/1947	0.0
13/01/1947	0.0
14/01/1947	0.0
15/01/1947	0.0
16/01/1947	178.0
17/01/1947	0.0
18/01/1947	0.0
19/01/1947	0.0
20/01/1947	0.0
21/01/1947	0.0
22/01/1947	0.0
23/01/1947	0.0
24/01/1947	39.7
25/01/1947	12.4
26/01/1947	0.0
27/01/1947	0.0
28/01/1947	0.0
29/01/1947	348.7
30/01/1947	0.0
31/01/1947	0.0
1/02/1947	0.0
2/02/1947	0.0
3/02/1947	0.0
4/02/1947	0.0
5/02/1947	0.0
6/02/1947	0.0
7/02/1947	0.0

8/02/1947	0.0
9/02/1947	348.3
10/02/1947	0.0
11/02/1947	0.0
12/02/1947	627.9
13/02/1947	619.2
14/02/1947	354.4
15/02/1947	5.3
16/02/1947	0.0
17/02/1947	0.0
18/02/1947	25.4
19/02/1947	18.3
20/02/1947	0.0
21/02/1947	0.0
22/02/1947	51.4
23/02/1947	0.0
24/02/1947	51.4
25/02/1947	705.1
26/02/1947	1379.7
27/02/1947	48.8
28/02/1947	0.0
1/03/1947	626.2
2/03/1947	150.6
3/03/1947	0.0
4/03/1947	0.0
5/03/1947	0.0
6/03/1947	0.0
7/03/1947	0.0
8/03/1947	0.0
9/03/1947	0.0
10/03/1947	0.0
11/03/1947	0.0
12/03/1947	0.0
13/03/1947	0.0
14/03/1947	0.0
15/03/1947	0.0
16/03/1947	0.0
17/03/1947	0.0
18/03/1947	448.9
19/03/1947	425.8
20/03/1947	0.0
21/03/1947	101.2
22/03/1947	79.5
23/03/1947	58.4
24/03/1947	0.0
25/03/1947	0.0
26/03/1947	0.0
27/03/1947	0.7
28/03/1947	0.0
29/03/1947	0.0
30/03/1947	0.0
31/03/1947	0.0
1/04/1947	34.4



2/04/1947	364.4
3/04/1947	497.7
4/04/1947	131.9
5/04/1947	93.9
6/04/1947	0.0
7/04/1947	0.0
8/04/1947	0.0
9/04/1947	0.0
10/04/1947	0.0
11/04/1947	0.0
12/04/1947	3.8
13/04/1947	0.0
14/04/1947	0.0
15/04/1947	71.1
16/04/1947	89.8
17/04/1947	538.4
18/04/1947	94.5
19/04/1947	39.1
20/04/1947	0.0
21/04/1947	0.0
22/04/1947	3082.4
23/04/1947	166.0
24/04/1947	0.0
25/04/1947	0.0
26/04/1947	85.5
27/04/1947	0.0
28/04/1947	0.0
29/04/1947	0.0
30/04/1947	141.6
1/05/1947	0.0
2/05/1947	0.0
3/05/1947	0.0
4/05/1947	0.0
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12/05/1947	0.0
13/05/1947	0.0
14/05/1947	0.0
15/05/1947	0.0
16/05/1947	0.0
17/05/1947	0.0
18/05/1947	0.0
19/05/1947	0.0
20/05/1947	738.1
21/05/1947	564.8
22/05/1947	515.7
23/05/1947	0.0
24/05/1947	0.0

25/05/1947	165.7
26/05/1947	0.0
27/05/1947	0.0
28/05/1947	0.0
29/05/1947	0.0
30/05/1947	1207.0
31/05/1947	69.8
1/06/1947	303.9
2/06/1947	996.7
3/06/1947	0.0
4/06/1947	145.0
5/06/1947	0.0
6/06/1947	0.0
7/06/1947	0.0
8/06/1947	0.0
9/06/1947	0.0
10/06/1947	0.0
11/06/1947	0.0
12/06/1947	0.0
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18/06/1947	0.0
19/06/1947	0.0
20/06/1947	0.0
21/06/1947	0.0
22/06/1947	0.0
23/06/1947	0.0
24/06/1947	0.0
25/06/1947	95.5
26/06/1947	58.1
27/06/1947	0.0
28/06/1947	0.0
29/06/1947	0.0
30/06/1947	0.0
1/07/1947	0.0
2/07/1947	0.0
3/07/1947	93.9
4/07/1947	0.0
5/07/1947	84.2
6/07/1947	0.0
7/07/1947	0.0
8/07/1947	0.0
9/07/1947	0.0
10/07/1947	0.0
11/07/1947	0.0
12/07/1947	0.0
13/07/1947	0.0
14/07/1947	43.1
15/07/1947	0.0
16/07/1947	0.0

17/07/1947	0.0
18/07/1947	0.0
19/07/1947	0.0
20/07/1947	0.0
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22/07/1947	0.0
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26/07/1947	0.0
27/07/1947	0.0
28/07/1947	0.0
29/07/1947	52.1
30/07/1947	0.0
31/07/1947	0.0
1/08/1947	0.0
2/08/1947	0.0
3/08/1947	0.0
4/08/1947	0.0
5/08/1947	0.0
6/08/1947	0.0
7/08/1947	0.0
8/08/1947	0.0
9/08/1947	416.1
10/08/1947	85.2
11/08/1947	0.0
12/08/1947	0.0
13/08/1947	0.0
14/08/1947	0.0
15/08/1947	0.0
16/08/1947	0.0
17/08/1947	9.0
18/08/1947	132.6
19/08/1947	132.9
20/08/1947	117.6
21/08/1947	11.3
22/08/1947	0.0
23/08/1947	126.1
24/08/1947	61.6
25/08/1947	0.0
26/08/1947	0.0
27/08/1947	0.0
28/08/1947	0.0
29/08/1947	0.0
30/08/1947	0.0
31/08/1947	0.0
1/09/1947	0.0
2/09/1947	246.5
3/09/1947	0.0
4/09/1947	0.0
5/09/1947	0.0
6/09/1947	0.0
7/09/1947	0.0

8/09/1947	0.0
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11/09/1947	0.0
12/09/1947	0.0
13/09/1947	0.0
14/09/1947	0.0
15/09/1947	0.0
16/09/1947	187.0
17/09/1947	0.0
18/09/1947	0.0
19/09/1947	60.1
20/09/1947	0.0
21/09/1947	0.0
22/09/1947	0.0
23/09/1947	0.0
24/09/1947	0.0
25/09/1947	0.0
26/09/1947	0.0
27/09/1947	0.0
28/09/1947	9.0
29/09/1947	0.0
30/09/1947	0.0
1/10/1947	93.5
2/10/1947	0.0
3/10/1947	0.0
4/10/1947	0.0
5/10/1947	0.0
6/10/1947	0.0
7/10/1947	9.0
8/10/1947	0.0
9/10/1947	805.9
10/10/1947	347.7
11/10/1947	33.4
12/10/1947	0.0
13/10/1947	0.0
14/10/1947	161.7
15/10/1947	0.0
16/10/1947	0.0
17/10/1947	0.0
18/10/1947	0.0
19/10/1947	0.0
20/10/1947	34.7
21/10/1947	0.0
22/10/1947	0.0
23/10/1947	0.0
24/10/1947	0.0
25/10/1947	0.0
26/10/1947	0.0
27/10/1947	0.0
28/10/1947	0.0
29/10/1947	0.0
30/10/1947	17.4

31/10/1947	358.3
1/11/1947	838.3
2/11/1947	0.0
3/11/1947	0.0
4/11/1947	0.0
5/11/1947	0.0
6/11/1947	0.0
7/11/1947	0.0
8/11/1947	0.0
9/11/1947	0.0
10/11/1947	0.0
11/11/1947	0.0
12/11/1947	0.0
13/11/1947	68.5
14/11/1947	60.1
15/11/1947	39.7
16/11/1947	139.3
17/11/1947	0.0
18/11/1947	0.0
19/11/1947	0.0
20/11/1947	0.0
21/11/1947	0.0
22/11/1947	636.6
23/11/1947	0.0
24/11/1947	0.0
25/11/1947	13.4
26/11/1947	167.0
27/11/1947	0.0
28/11/1947	59.8
29/11/1947	0.0
30/11/1947	713.4
1/12/1947	55.1
2/12/1947	369.4
3/12/1947	0.0
4/12/1947	0.0
5/12/1947	0.0
6/12/1947	358.7
7/12/1947	12.3
8/12/1947	295.2
9/12/1947	271.2
10/12/1947	41.1
11/12/1947	672.3
12/12/1947	287.9
13/12/1947	0.0
14/12/1947	541.4
15/12/1947	83.8
16/12/1947	900.7
17/12/1947	43.1
18/12/1947	221.1
19/12/1947	365.4
20/12/1947	473.6
21/12/1947	0.0
22/12/1947	0.0

23/12/1947	0.0
24/12/1947	273.2
25/12/1947	228.8
26/12/1947	0.0
27/12/1947	0.0
28/12/1947	0.0
29/12/1947	0.0
30/12/1947	0.0
31/12/1947	0.0
1/01/1948	1138.5
2/01/1948	336.0
3/01/1948	339.3
4/01/1948	0.0
5/01/1948	454.6
6/01/1948	80.8
7/01/1948	0.0
8/01/1948	0.0
9/01/1948	0.0
10/01/1948	0.0
11/01/1948	136.3
12/01/1948	592.9
13/01/1948	39.1
14/01/1948	1813.9
15/01/1948	334.3
16/01/1948	103.8
17/01/1948	43.1
18/01/1948	0.0
19/01/1948	0.0
20/01/1948	0.0
21/01/1948	0.0
22/01/1948	0.0
23/01/1948	0.0
24/01/1948	636.6
25/01/1948	1.3
26/01/1948	0.0
27/01/1948	0.0
28/01/1948	0.0
29/01/1948	0.0
30/01/1948	484.0
31/01/1948	0.0
1/02/1948	0.0
2/02/1948	0.0
3/02/1948	0.0
4/02/1948	0.0
5/02/1948	0.0
6/02/1948	407.8
7/02/1948	0.0
8/02/1948	568.8
9/02/1948	0.0
10/02/1948	0.0
11/02/1948	0.0
12/02/1948	0.0
13/02/1948	0.0

14/02/1948	85.2
15/02/1948	0.0
16/02/1948	458.9
17/02/1948	0.0
18/02/1948	0.0
19/02/1948	280.2
20/02/1948	0.0
21/02/1948	0.0
22/02/1948	17.7
23/02/1948	253.5
24/02/1948	0.0
25/02/1948	0.0
26/02/1948	0.0
27/02/1948	0.0
28/02/1948	0.0
29/02/1948	270.5
1/03/1948	0.0
2/03/1948	0.0
3/03/1948	0.0
4/03/1948	0.0
5/03/1948	58.8
6/03/1948	0.0
7/03/1948	0.0
8/03/1948	0.0
9/03/1948	0.0
10/03/1948	0.0
11/03/1948	26.1
12/03/1948	15.0
13/03/1948	0.0
14/03/1948	538.7
15/03/1948	105.5
16/03/1948	0.0
17/03/1948	14.4
18/03/1948	0.0
19/03/1948	0.0
20/03/1948	0.0
21/03/1948	25.0
22/03/1948	0.0
23/03/1948	0.0
24/03/1948	223.7
25/03/1948	770.8
26/03/1948	233.1
27/03/1948	0.0
28/03/1948	0.0
29/03/1948	0.0
30/03/1948	0.0
31/03/1948	0.0
1/04/1948	0.0
2/04/1948	0.0
3/04/1948	0.0
4/04/1948	0.3
5/04/1948	0.0
6/04/1948	0.0

7/04/1948	0.0
8/04/1948	0.0
9/04/1948	0.0
10/04/1948	0.0
11/04/1948	0.0
12/04/1948	535.1
13/04/1948	0.0
14/04/1948	0.0
15/04/1948	0.0
16/04/1948	0.0
17/04/1948	0.0
18/04/1948	0.0
19/04/1948	0.0
20/04/1948	42.8
21/04/1948	0.0
22/04/1948	0.0
23/04/1948	68.5
24/04/1948	0.0
25/04/1948	194.4
26/04/1948	0.0
27/04/1948	0.0
28/04/1948	34.1
29/04/1948	0.0
30/04/1948	106.2
1/05/1948	776.2
2/05/1948	1753.4
3/05/1948	909.1
4/05/1948	0.0
5/05/1948	0.0
6/05/1948	0.0
7/05/1948	0.0
8/05/1948	0.0
9/05/1948	0.0
10/05/1948	86.1
11/05/1948	0.0
12/05/1948	0.0
13/05/1948	0.0
14/05/1948	0.0
15/05/1948	0.0
16/05/1948	0.0
17/05/1948	0.0
18/05/1948	0.0
19/05/1948	0.0
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22/05/1948	0.0
23/05/1948	0.0
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27/05/1948	0.0
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30/05/1948	0.0
31/05/1948	0.0
1/06/1948	0.0
2/06/1948	0.0
3/06/1948	0.0
4/06/1948	0.0
5/06/1948	0.0
6/06/1948	0.0
7/06/1948	208.7
8/06/1948	1350.6
9/06/1948	907.1
10/06/1948	0.0
11/06/1948	0.0
12/06/1948	0.0
13/06/1948	23.0
14/06/1948	527.7
15/06/1948	37.7
16/06/1948	310.6
17/06/1948	209.8
18/06/1948	254.5
19/06/1948	0.0
20/06/1948	0.0
21/06/1948	26.7
22/06/1948	1351.0
23/06/1948	96.9
24/06/1948	0.0
25/06/1948	0.0
26/06/1948	0.0
27/06/1948	0.0
28/06/1948	0.0
29/06/1948	0.0
30/06/1948	0.0
1/07/1948	0.0
2/07/1948	0.0
3/07/1948	0.0
4/07/1948	0.0
5/07/1948	7.3
6/07/1948	0.0
7/07/1948	0.0
8/07/1948	0.0
9/07/1948	0.0
10/07/1948	0.0
11/07/1948	0.0
12/07/1948	0.0
13/07/1948	0.0
14/07/1948	0.0
15/07/1948	0.0
16/07/1948	0.0
17/07/1948	304.3
18/07/1948	4.7
19/07/1948	9.0
20/07/1948	0.0
21/07/1948	0.0

22/07/1948	0.0
23/07/1948	60.5
24/07/1948	34.4
25/07/1948	0.0
26/07/1948	0.0
27/07/1948	0.0
28/07/1948	0.0
29/07/1948	0.0
30/07/1948	0.0
31/07/1948	0.0
1/08/1948	0.0
2/08/1948	0.0
3/08/1948	0.0
4/08/1948	0.0
5/08/1948	0.0
6/08/1948	0.0
7/08/1948	0.0
8/08/1948	0.0
9/08/1948	0.0
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12/08/1948	0.0
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14/08/1948	0.0
15/08/1948	0.0
16/08/1948	0.0
17/08/1948	0.0
18/08/1948	0.0
19/08/1948	0.0
20/08/1948	9.0
21/08/1948	0.0
22/08/1948	0.0
23/08/1948	93.9
24/08/1948	0.0
25/08/1948	0.0
26/08/1948	0.0
27/08/1948	0.0
28/08/1948	93.8
29/08/1948	0.0
30/08/1948	0.0
31/08/1948	7.7
1/09/1948	34.4
2/09/1948	281.9
3/09/1948	0.0
4/09/1948	0.0
5/09/1948	0.0
6/09/1948	0.0
7/09/1948	0.0
8/09/1948	0.0
9/09/1948	145.0
10/09/1948	0.0
11/09/1948	0.0
12/09/1948	0.0

13/09/1948	0.0
14/09/1948	0.0
15/09/1948	0.0
16/09/1948	0.0
17/09/1948	259.5
18/09/1948	13.0
19/09/1948	0.0
20/09/1948	0.0
21/09/1948	0.0
22/09/1948	144.6
23/09/1948	120.9
24/09/1948	991.6
25/09/1948	0.0
26/09/1948	0.0
27/09/1948	0.0
28/09/1948	0.0
29/09/1948	0.0
30/09/1948	0.0
1/10/1948	0.0
2/10/1948	34.4
3/10/1948	0.0
4/10/1948	83.8
5/10/1948	0.0
6/10/1948	0.0
7/10/1948	0.0
8/10/1948	0.0
9/10/1948	211.1
10/10/1948	0.0
11/10/1948	0.0
12/10/1948	0.0
13/10/1948	0.0
14/10/1948	0.0
15/10/1948	0.0
16/10/1948	0.0
17/10/1948	0.0
18/10/1948	0.0
19/10/1948	0.0
20/10/1948	0.0
21/10/1948	0.0
22/10/1948	0.0
23/10/1948	0.0
24/10/1948	0.0
25/10/1948	0.0
26/10/1948	0.0
27/10/1948	0.0
28/10/1948	60.1
29/10/1948	0.0
30/10/1948	0.0
31/10/1948	68.5
1/11/1948	0.0
2/11/1948	0.0
3/11/1948	0.0
4/11/1948	0.0

5/11/1948	0.0
6/11/1948	0.0
7/11/1948	16.0
8/11/1948	0.0
9/11/1948	0.0
10/11/1948	0.0
11/11/1948	0.0
12/11/1948	0.0
13/11/1948	0.0
14/11/1948	0.0
15/11/1948	139.3
16/11/1948	0.0
17/11/1948	88.5
18/11/1948	0.0
19/11/1948	0.0
20/11/1948	0.0
21/11/1948	0.0
22/11/1948	0.0
23/11/1948	0.0
24/11/1948	0.0
25/11/1948	0.0
26/11/1948	119.2
27/11/1948	0.0
28/11/1948	0.0
29/11/1948	0.0
30/11/1948	0.0
1/12/1948	0.0
2/12/1948	0.0
3/12/1948	683.4
4/12/1948	0.0
5/12/1948	0.0
6/12/1948	0.0
7/12/1948	0.0
8/12/1948	0.0
9/12/1948	0.0
10/12/1948	0.0
11/12/1948	76.8
12/12/1948	195.4
13/12/1948	0.0
14/12/1948	0.0
15/12/1948	0.0
16/12/1948	0.0
17/12/1948	0.0
18/12/1948	0.0
19/12/1948	0.0
20/12/1948	0.0
21/12/1948	0.0
22/12/1948	0.0
23/12/1948	463.9
24/12/1948	0.0
25/12/1948	0.0
26/12/1948	0.0
27/12/1948	0.0

28/12/1948	0.0
29/12/1948	70.8
30/12/1948	188.0
31/12/1948	1674.3
1/01/1949	0.0
2/01/1949	0.0
3/01/1949	0.0
4/01/1949	0.0
5/01/1949	0.0
6/01/1949	0.0
7/01/1949	0.0
8/01/1949	75.1
9/01/1949	2623.8
10/01/1949	3026.3
11/01/1949	800.2
12/01/1949	0.0
13/01/1949	0.0
14/01/1949	0.0
15/01/1949	518.0
16/01/1949	0.0
17/01/1949	85.5
18/01/1949	0.0
19/01/1949	0.0
20/01/1949	0.0
21/01/1949	0.0
22/01/1949	0.0
23/01/1949	0.0
24/01/1949	55.8
25/01/1949	38.7
26/01/1949	0.0
27/01/1949	0.0
28/01/1949	0.0
29/01/1949	0.0
30/01/1949	0.0
31/01/1949	325.3
1/02/1949	0.0
2/02/1949	0.0
3/02/1949	0.0
4/02/1949	0.0
5/02/1949	0.0
6/02/1949	0.0
7/02/1949	0.0
8/02/1949	0.0
9/02/1949	0.0
10/02/1949	51.4
11/02/1949	405.8
12/02/1949	17.7
13/02/1949	0.0
14/02/1949	0.0
15/02/1949	0.0
16/02/1949	0.0
17/02/1949	0.0
18/02/1949	0.0

19/02/1949	0.0
20/02/1949	808.9
21/02/1949	269.2
22/02/1949	166.0
23/02/1949	737.5
24/02/1949	2025.6
25/02/1949	14.0
26/02/1949	0.0
27/02/1949	0.0
28/02/1949	0.0
1/03/1949	0.0
2/03/1949	381.4
3/03/1949	28.1
4/03/1949	8.0
5/03/1949	0.0
6/03/1949	0.0
7/03/1949	561.1
8/03/1949	90.5
9/03/1949	30.4
10/03/1949	105.5
11/03/1949	665.7
12/03/1949	436.2
13/03/1949	0.0
14/03/1949	0.0
15/03/1949	0.0
16/03/1949	0.0
17/03/1949	47.1
18/03/1949	0.0
19/03/1949	9.0
20/03/1949	0.0
21/03/1949	0.0
22/03/1949	0.0
23/03/1949	38.4
24/03/1949	59.5
25/03/1949	0.0
26/03/1949	0.0
27/03/1949	0.0
28/03/1949	0.7
29/03/1949	0.0
30/03/1949	0.0
31/03/1949	0.0
1/04/1949	0.0
2/04/1949	204.0
3/04/1949	0.0
4/04/1949	0.0
5/04/1949	51.4
6/04/1949	0.0
7/04/1949	0.0
8/04/1949	0.0
9/04/1949	0.0
10/04/1949	0.0
11/04/1949	0.0
12/04/1949	0.0

13/04/1949	0.0
14/04/1949	0.0
15/04/1949	0.0
16/04/1949	0.0
17/04/1949	0.0
18/04/1949	0.0
19/04/1949	0.0
20/04/1949	176.0
21/04/1949	171.3
22/04/1949	0.0
23/04/1949	0.0
24/04/1949	0.0
25/04/1949	0.0
26/04/1949	0.0
27/04/1949	0.0
28/04/1949	147.0
29/04/1949	74.5
30/04/1949	0.0
1/05/1949	0.0
2/05/1949	0.0
3/05/1949	0.0
4/05/1949	0.3
5/05/1949	0.0
6/05/1949	0.0
7/05/1949	53.1
8/05/1949	0.0
9/05/1949	0.0
10/05/1949	407.8
11/05/1949	0.0
12/05/1949	0.0
13/05/1949	0.0
14/05/1949	0.0
15/05/1949	0.0
16/05/1949	0.0
17/05/1949	0.0
18/05/1949	0.0
19/05/1949	1.3
20/05/1949	1672.9
21/05/1949	253.5
22/05/1949	39.7
23/05/1949	0.0
24/05/1949	0.7
25/05/1949	0.0
26/05/1949	0.0
27/05/1949	0.0
28/05/1949	43.1
29/05/1949	120.5
30/05/1949	12.0
31/05/1949	30.1
1/06/1949	152.9
2/06/1949	0.0
3/06/1949	564.8
4/06/1949	1103.8

5/06/1949	551.1
6/06/1949	19.0
7/06/1949	0.0
8/06/1949	0.0
9/06/1949	701.6
10/06/1949	0.0
11/06/1949	0.0
12/06/1949	0.0
13/06/1949	107.2
14/06/1949	994.9
15/06/1949	2657.2
16/06/1949	984.6
17/06/1949	608.2
18/06/1949	2721.0
19/06/1949	462.6
20/06/1949	85.8
21/06/1949	0.0
22/06/1949	18.0
23/06/1949	84.5
24/06/1949	0.0
25/06/1949	0.0
26/06/1949	0.0
27/06/1949	0.0
28/06/1949	0.0
29/06/1949	0.0
30/06/1949	0.0
1/07/1949	0.0
2/07/1949	0.0
3/07/1949	0.0
4/07/1949	0.0
5/07/1949	0.0
6/07/1949	0.0
7/07/1949	0.0
8/07/1949	0.0
9/07/1949	0.0
10/07/1949	0.0
11/07/1949	103.9
12/07/1949	0.0
13/07/1949	0.0
14/07/1949	0.0
15/07/1949	0.0
16/07/1949	0.0
17/07/1949	5.0
18/07/1949	82.2
19/07/1949	0.0
20/07/1949	0.0
21/07/1949	0.0
22/07/1949	0.0
23/07/1949	0.0
24/07/1949	422.8
25/07/1949	790.9
26/07/1949	289.2
27/07/1949	0.0



28/07/1949	0.0
29/07/1949	0.0
30/07/1949	0.0
31/07/1949	0.0
1/08/1949	0.0
2/08/1949	417.1
3/08/1949	357.9
4/08/1949	0.0
5/08/1949	0.0
6/08/1949	0.0
7/08/1949	0.0
8/08/1949	0.0
9/08/1949	0.0
10/08/1949	0.0
11/08/1949	0.0
12/08/1949	571.8
13/08/1949	0.0
14/08/1949	0.0
15/08/1949	0.0
16/08/1949	0.0
17/08/1949	0.0
18/08/1949	0.0
19/08/1949	0.0
20/08/1949	0.0
21/08/1949	0.0
22/08/1949	0.0
23/08/1949	0.0
24/08/1949	68.1
25/08/1949	1520.0
26/08/1949	639.6
27/08/1949	88.2
28/08/1949	0.0
29/08/1949	0.0
30/08/1949	0.0
31/08/1949	0.0
1/09/1949	288.9
2/09/1949	0.0
3/09/1949	0.0
4/09/1949	47.4
5/09/1949	261.9
6/09/1949	57.4
7/09/1949	0.0
8/09/1949	61.2
9/09/1949	162.3
10/09/1949	0.0
11/09/1949	602.9
12/09/1949	8.7
13/09/1949	123.6
14/09/1949	183.0
15/09/1949	0.0
16/09/1949	0.0
17/09/1949	10.4
18/09/1949	0.0

19/09/1949	0.0
20/09/1949	0.0
21/09/1949	0.0
22/09/1949	0.0
23/09/1949	981.2
24/09/1949	1817.6
25/09/1949	1130.9
26/09/1949	0.0
27/09/1949	0.0
28/09/1949	543.4
29/09/1949	0.0
30/09/1949	51.4
1/10/1949	0.0
2/10/1949	0.0
3/10/1949	470.3
4/10/1949	64.4
5/10/1949	27.7
6/10/1949	0.0
7/10/1949	0.0
8/10/1949	0.0
9/10/1949	195.4
10/10/1949	0.0
11/10/1949	0.0
12/10/1949	0.0
13/10/1949	0.0
14/10/1949	0.0
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17/10/1949	0.0
18/10/1949	0.0
19/10/1949	0.0
20/10/1949	0.0
21/10/1949	0.0
22/10/1949	0.0
23/10/1949	0.0
24/10/1949	71.5
25/10/1949	108.9
26/10/1949	0.0
27/10/1949	0.0
28/10/1949	0.0
29/10/1949	0.0
30/10/1949	0.0
31/10/1949	0.0
1/11/1949	0.0
2/11/1949	0.0
3/11/1949	0.0
4/11/1949	0.3
5/11/1949	0.0
6/11/1949	17.7
7/11/1949	0.0
8/11/1949	0.0
9/11/1949	0.0
10/11/1949	0.0

11/11/1949	0.0
12/11/1949	15.0
13/11/1949	0.0
14/11/1949	0.0
15/11/1949	0.0
16/11/1949	0.0
17/11/1949	644.6
18/11/1949	0.0
19/11/1949	0.0
20/11/1949	0.0
21/11/1949	841.3
22/11/1949	132.3
23/11/1949	0.0
24/11/1949	0.0
25/11/1949	0.0
26/11/1949	0.0
27/11/1949	542.0
28/11/1949	103.5
29/11/1949	0.0
30/11/1949	0.0
1/12/1949	0.0
2/12/1949	0.0
3/12/1949	0.0
4/12/1949	0.0
5/12/1949	0.0
6/12/1949	0.0
7/12/1949	0.0
8/12/1949	195.4
9/12/1949	0.0
10/12/1949	0.0
11/12/1949	0.0
12/12/1949	0.0
13/12/1949	0.0
14/12/1949	137.3
15/12/1949	0.0
16/12/1949	0.0
17/12/1949	97.8
18/12/1949	110.9
19/12/1949	0.0
20/12/1949	810.3
21/12/1949	0.0
22/12/1949	0.0
23/12/1949	0.0
24/12/1949	0.0
25/12/1949	0.0
26/12/1949	0.0
27/12/1949	0.0
28/12/1949	0.0
29/12/1949	0.0
30/12/1949	0.0
31/12/1949	0.0
1/01/1950	916.5
2/01/1950	0.0

3/01/1950	21.0
4/01/1950	0.0
5/01/1950	0.0
6/01/1950	0.0
7/01/1950	128.6
8/01/1950	0.0
9/01/1950	0.0
10/01/1950	0.0
11/01/1950	0.0
12/01/1950	0.0
13/01/1950	0.0
14/01/1950	0.0
15/01/1950	0.0
16/01/1950	0.0
17/01/1950	0.0
18/01/1950	2216.4
19/01/1950	1078.4
20/01/1950	0.0
21/01/1950	0.0
22/01/1950	0.0
23/01/1950	0.0
24/01/1950	0.0
25/01/1950	0.0
26/01/1950	0.0
27/01/1950	0.0
28/01/1950	0.0
29/01/1950	0.0
30/01/1950	0.0
31/01/1950	0.0
1/02/1950	0.0
2/02/1950	0.0
3/02/1950	0.0
4/02/1950	358.7
5/02/1950	1542.0
6/02/1950	789.8
7/02/1950	738.1
8/02/1950	68.5
9/02/1950	0.0
10/02/1950	0.0
11/02/1950	0.0
12/02/1950	0.0
13/02/1950	0.0
14/02/1950	0.0
15/02/1950	42.4
16/02/1950	0.0
17/02/1950	0.0
18/02/1950	593.2
19/02/1950	0.0
20/02/1950	0.0
21/02/1950	0.0
22/02/1950	0.0
23/02/1950	0.0
24/02/1950	0.0

25/02/1950	0.0
26/02/1950	0.0
27/02/1950	0.0
28/02/1950	0.0
1/03/1950	0.0
2/03/1950	0.0
3/03/1950	0.0
4/03/1950	296.9
5/03/1950	85.8
6/03/1950	97.9
7/03/1950	728.8
8/03/1950	39.4
9/03/1950	0.0
10/03/1950	22.0
11/03/1950	578.8
12/03/1950	131.6
13/03/1950	0.0
14/03/1950	43.8
15/03/1950	0.0
16/03/1950	0.0
17/03/1950	0.0
18/03/1950	642.6
19/03/1950	0.0
20/03/1950	0.0
21/03/1950	0.0
22/03/1950	187.7
23/03/1950	32.1
24/03/1950	0.0
25/03/1950	0.0
26/03/1950	0.0
27/03/1950	0.0
28/03/1950	891.4
29/03/1950	26.1
30/03/1950	187.0
31/03/1950	0.0
1/04/1950	219.8
2/04/1950	291.9
3/04/1950	835.7
4/04/1950	42.8
5/04/1950	0.0
6/04/1950	747.8
7/04/1950	493.0
8/04/1950	0.0
9/04/1950	0.0
10/04/1950	62.1
11/04/1950	0.0
12/04/1950	0.0
13/04/1950	27.1
14/04/1950	184.0
15/04/1950	0.0
16/04/1950	0.0
17/04/1950	0.0
18/04/1950	0.0

19/04/1950	915.5
20/04/1950	944.6
21/04/1950	91.2
22/04/1950	0.0
23/04/1950	60.1
24/04/1950	0.0
25/04/1950	0.0
26/04/1950	0.0
27/04/1950	0.0
28/04/1950	153.0
29/04/1950	0.0
30/04/1950	0.0
1/05/1950	17.0
2/05/1950	17.0
3/05/1950	357.4
4/05/1950	0.0
5/05/1950	97.9
6/05/1950	0.0
7/05/1950	0.0
8/05/1950	88.2
9/05/1950	486.9
10/05/1950	130.6
11/05/1950	0.0
12/05/1950	0.0
13/05/1950	0.0
14/05/1950	20.7
15/05/1950	0.0
16/05/1950	288.9
17/05/1950	0.0
18/05/1950	0.0
19/05/1950	0.0
20/05/1950	0.0
21/05/1950	93.9
22/05/1950	0.0
23/05/1950	0.0
24/05/1950	2740.1
25/05/1950	379.7
26/05/1950	0.0
27/05/1950	0.0
28/05/1950	0.0
29/05/1950	0.0
30/05/1950	0.0
31/05/1950	0.0
1/06/1950	0.0
2/06/1950	0.0
3/06/1950	0.0
4/06/1950	0.0
5/06/1950	0.0
6/06/1950	0.0
7/06/1950	1703.0
8/06/1950	1651.2
9/06/1950	0.0
10/06/1950	0.0

11/06/1950	1712.4
12/06/1950	981.6
13/06/1950	528.1
14/06/1950	2059.4
15/06/1950	2758.8
16/06/1950	2551.0
17/06/1950	845.6
18/06/1950	431.8
19/06/1950	217.4
20/06/1950	110.9
21/06/1950	915.8
22/06/1950	171.0
23/06/1950	0.0
24/06/1950	461.2
25/06/1950	453.6
26/06/1950	859.3
27/06/1950	0.0
28/06/1950	0.0
29/06/1950	0.0
30/06/1950	0.0
1/07/1950	0.0
2/07/1950	0.0
3/07/1950	0.0
4/07/1950	0.0
5/07/1950	0.0
6/07/1950	0.0
7/07/1950	0.0
8/07/1950	0.0
9/07/1950	0.0
10/07/1950	1651.9
11/07/1950	0.0
12/07/1950	0.0
13/07/1950	219.9
14/07/1950	560.5
15/07/1950	334.0
16/07/1950	343.7
17/07/1950	122.6
18/07/1950	945.2
19/07/1950	329.0
20/07/1950	224.8
21/07/1950	0.0
22/07/1950	64.5
23/07/1950	3968.2
24/07/1950	224.8
25/07/1950	152.3
26/07/1950	265.5
27/07/1950	293.2
28/07/1950	199.7
29/07/1950	0.0
30/07/1950	98.2
31/07/1950	0.0
1/08/1950	254.8
2/08/1950	0.0

3/08/1950	0.0
4/08/1950	0.0
5/08/1950	0.0
6/08/1950	0.0
7/08/1950	0.0
8/08/1950	41.1
9/08/1950	0.0
10/08/1950	68.1
11/08/1950	0.0
12/08/1950	0.0
13/08/1950	0.0
14/08/1950	0.0
15/08/1950	0.0
16/08/1950	88.5
17/08/1950	0.0
18/08/1950	0.0
19/08/1950	54.8
20/08/1950	228.5
21/08/1950	224.7
22/08/1950	220.6
23/08/1950	426.3
24/08/1950	20.0
25/08/1950	0.0
26/08/1950	0.0
27/08/1950	92.5
28/08/1950	479.0
29/08/1950	15.7
30/08/1950	0.0
31/08/1950	0.0
1/09/1950	0.0
2/09/1950	0.0
3/09/1950	0.0
4/09/1950	0.0
5/09/1950	0.0
6/09/1950	0.0
7/09/1950	0.0
8/09/1950	0.0
9/09/1950	0.0
10/09/1950	0.0
11/09/1950	771.1
12/09/1950	387.1
13/09/1950	107.5
14/09/1950	778.2
15/09/1950	136.3
16/09/1950	0.0
17/09/1950	102.5
18/09/1950	0.0
19/09/1950	82.0
20/09/1950	0.0
21/09/1950	0.0
22/09/1950	0.0
23/09/1950	246.5
24/09/1950	0.0



25/09/1950	0.0
26/09/1950	0.0
27/09/1950	0.0
28/09/1950	0.0
29/09/1950	0.0
30/09/1950	0.0
1/10/1950	0.0
2/10/1950	442.9
3/10/1950	33.4
4/10/1950	0.0
5/10/1950	0.0
6/10/1950	34.7
7/10/1950	68.8
8/10/1950	0.0
9/10/1950	0.0
10/10/1950	8.0
11/10/1950	69.5
12/10/1950	99.5
13/10/1950	113.6
14/10/1950	51.4
15/10/1950	0.0
16/10/1950	0.0
17/10/1950	0.0
18/10/1950	442.9
19/10/1950	671.3
20/10/1950	184.7
21/10/1950	647.6
22/10/1950	0.0
23/10/1950	0.0
24/10/1950	0.0
25/10/1950	238.1
26/10/1950	0.0
27/10/1950	0.0
28/10/1950	0.0
29/10/1950	51.4
30/10/1950	0.0
31/10/1950	0.0
1/11/1950	0.0
2/11/1950	0.0
3/11/1950	100.5
4/11/1950	95.5
5/11/1950	34.4
6/11/1950	0.0
7/11/1950	0.0
8/11/1950	295.6
9/11/1950	138.3
10/11/1950	76.8
11/11/1950	0.0
12/11/1950	0.0
13/11/1950	0.0
14/11/1950	221.1
15/11/1950	0.0
16/11/1950	675.6

17/11/1950	0.0
18/11/1950	0.0
19/11/1950	0.0
20/11/1950	110.2
21/11/1950	726.1
22/11/1950	12.4
23/11/1950	0.0
24/11/1950	155.3
25/11/1950	372.7
26/11/1950	0.0
27/11/1950	0.0
28/11/1950	0.0
29/11/1950	0.0
30/11/1950	0.0
1/12/1950	61.1
2/12/1950	0.0
3/12/1950	0.0
4/12/1950	0.0
5/12/1950	0.0
6/12/1950	0.0
7/12/1950	0.0
8/12/1950	329.3
9/12/1950	0.0
10/12/1950	0.0
11/12/1950	0.0
12/12/1950	0.0
13/12/1950	0.0
14/12/1950	0.0
15/12/1950	0.0
16/12/1950	0.0
17/12/1950	0.0
18/12/1950	0.0
19/12/1950	0.0
20/12/1950	0.0
21/12/1950	0.0
22/12/1950	0.0
23/12/1950	136.3
24/12/1950	0.0
25/12/1950	29.4
26/12/1950	98.5
27/12/1950	0.0
28/12/1950	26.1
29/12/1950	0.0
30/12/1950	183.4
31/12/1950	67.5
1/01/1951	0.0
2/01/1951	0.0
3/01/1951	0.0
4/01/1951	0.0
5/01/1951	0.0
6/01/1951	0.0
7/01/1951	331.3
8/01/1951	0.0

9/01/1951	0.0
10/01/1951	0.0
11/01/1951	0.0
12/01/1951	0.0
13/01/1951	708.1
14/01/1951	0.0
15/01/1951	0.0
16/01/1951	297.6
17/01/1951	1504.9
18/01/1951	820.6
19/01/1951	1428.5
20/01/1951	737.0
21/01/1951	26.4
22/01/1951	68.5
23/01/1951	498.3
24/01/1951	558.8
25/01/1951	208.7
26/01/1951	137.2
27/01/1951	47.8
28/01/1951	0.0
29/01/1951	0.0
30/01/1951	19.4
31/01/1951	0.0
1/02/1951	0.0
2/02/1951	0.0
3/02/1951	0.0
4/02/1951	0.0
5/02/1951	0.0
6/02/1951	0.0
7/02/1951	0.0
8/02/1951	0.0
9/02/1951	0.0
10/02/1951	0.0
11/02/1951	0.0
12/02/1951	0.0
13/02/1951	109.9
14/02/1951	0.0
15/02/1951	0.0
16/02/1951	0.0
17/02/1951	0.0
18/02/1951	0.0
19/02/1951	32.4
20/02/1951	293.6
21/02/1951	320.0
22/02/1951	576.8
23/02/1951	101.9
24/02/1951	0.0
25/02/1951	0.0
26/02/1951	141.2
27/02/1951	0.0
28/02/1951	0.0
1/03/1951	0.0
2/03/1951	0.0

3/03/1951	0.0
4/03/1951	619.6
5/03/1951	0.0
6/03/1951	212.8
7/03/1951	91.2
8/03/1951	34.4
9/03/1951	0.0
10/03/1951	467.9
11/03/1951	0.0
12/03/1951	0.0
13/03/1951	0.0
14/03/1951	0.0
15/03/1951	0.0
16/03/1951	0.0
17/03/1951	423.5
18/03/1951	322.3
19/03/1951	277.9
20/03/1951	794.6
21/03/1951	0.0
22/03/1951	0.0
23/03/1951	26.1
24/03/1951	0.0
25/03/1951	0.0
26/03/1951	0.0
27/03/1951	0.0
28/03/1951	9.0
29/03/1951	0.0
30/03/1951	0.0
31/03/1951	0.0
1/04/1951	0.0
2/04/1951	0.0
3/04/1951	0.0
4/04/1951	0.0
5/04/1951	0.0
6/04/1951	0.0
7/04/1951	0.0
8/04/1951	0.0
9/04/1951	509.7
10/04/1951	0.0
11/04/1951	0.0
12/04/1951	0.0
13/04/1951	0.0
14/04/1951	0.0
15/04/1951	8.0
16/04/1951	357.0
17/04/1951	0.0
18/04/1951	26.7
19/04/1951	0.0
20/04/1951	0.0
21/04/1951	0.0
22/04/1951	0.0
23/04/1951	0.0
24/04/1951	17.4

25/04/1951	0.0
26/04/1951	0.0
27/04/1951	0.0
28/04/1951	33.0
29/04/1951	0.0
30/04/1951	0.0
1/05/1951	100.9
2/05/1951	574.5
3/05/1951	0.0
4/05/1951	616.9
5/05/1951	0.0
6/05/1951	0.0
7/05/1951	0.0
8/05/1951	0.0
9/05/1951	0.0
10/05/1951	0.0
11/05/1951	398.8
12/05/1951	432.2
13/05/1951	0.0
14/05/1951	0.0
15/05/1951	0.0
16/05/1951	0.0
17/05/1951	0.0
18/05/1951	0.0
19/05/1951	7.7
20/05/1951	961.8
21/05/1951	510.7
22/05/1951	830.3
23/05/1951	0.0
24/05/1951	17.4
25/05/1951	0.0
26/05/1951	0.0
27/05/1951	0.0
28/05/1951	0.0
29/05/1951	0.0
30/05/1951	0.0
31/05/1951	0.0
1/06/1951	0.0
2/06/1951	0.0
3/06/1951	7.3
4/06/1951	19.0
5/06/1951	0.0
6/06/1951	0.0
7/06/1951	761.8
8/06/1951	486.3
9/06/1951	26.1
10/06/1951	0.0
11/06/1951	0.0
12/06/1951	237.1
13/06/1951	92.2
14/06/1951	943.9
15/06/1951	682.0
16/06/1951	455.2

17/06/1951	310.7
18/06/1951	0.0
19/06/1951	0.0
20/06/1951	0.0
21/06/1951	664.3
22/06/1951	876.4
23/06/1951	6.0
24/06/1951	0.0
25/06/1951	14.0
26/06/1951	599.2
27/06/1951	2621.5
28/06/1951	515.4
29/06/1951	723.3
30/06/1951	140.3
1/07/1951	98.9
2/07/1951	0.0
3/07/1951	0.0
4/07/1951	0.0
5/07/1951	9.0
6/07/1951	0.0
7/07/1951	0.0
8/07/1951	17.4
9/07/1951	0.0
10/07/1951	0.0
11/07/1951	0.0
12/07/1951	0.0
13/07/1951	0.0
14/07/1951	0.0
15/07/1951	30.7
16/07/1951	0.0
17/07/1951	0.0
18/07/1951	0.0
19/07/1951	85.2
20/07/1951	0.0
21/07/1951	0.0
22/07/1951	0.0
23/07/1951	0.0
24/07/1951	0.0
25/07/1951	0.0
26/07/1951	0.0
27/07/1951	0.0
28/07/1951	0.0
29/07/1951	0.0
30/07/1951	0.0
31/07/1951	1684.3
1/08/1951	2705.0
2/08/1951	0.0
3/08/1951	43.1
4/08/1951	0.0
5/08/1951	0.0
6/08/1951	0.0
7/08/1951	0.0
8/08/1951	0.0

9/08/1951	0.0
10/08/1951	0.0
11/08/1951	0.0
12/08/1951	0.0
13/08/1951	0.0
14/08/1951	0.0
15/08/1951	54.4
16/08/1951	0.0
17/08/1951	0.0
18/08/1951	0.0
19/08/1951	0.0
20/08/1951	43.1
21/08/1951	0.0
22/08/1951	0.0
23/08/1951	0.0
24/08/1951	0.0
25/08/1951	163.0
26/08/1951	0.0
27/08/1951	0.0
28/08/1951	0.0
29/08/1951	0.0
30/08/1951	0.0
31/08/1951	0.0
1/09/1951	34.4
2/09/1951	0.0
3/09/1951	0.0
4/09/1951	0.0
5/09/1951	9.0
6/09/1951	0.0
7/09/1951	51.4
8/09/1951	0.0
9/09/1951	0.0
10/09/1951	0.0
11/09/1951	0.0
12/09/1951	0.0
13/09/1951	0.0
14/09/1951	0.0
15/09/1951	0.0
16/09/1951	0.0
17/09/1951	0.0
18/09/1951	0.0
19/09/1951	0.0
20/09/1951	23.4
21/09/1951	156.3
22/09/1951	0.7
23/09/1951	0.0
24/09/1951	180.4
25/09/1951	2441.1
26/09/1951	130.5
27/09/1951	6.1
28/09/1951	0.0
29/09/1951	0.0
30/09/1951	0.0

1/10/1951	0.0
2/10/1951	72.9
3/10/1951	720.1
4/10/1951	0.0
5/10/1951	34.7
6/10/1951	0.7
7/10/1951	59.8
8/10/1951	0.0
9/10/1951	0.0
10/10/1951	0.0
11/10/1951	0.0
12/10/1951	191.7
13/10/1951	86.8
14/10/1951	0.0
15/10/1951	0.0
16/10/1951	0.0
17/10/1951	0.0
18/10/1951	0.0
19/10/1951	0.0
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25/10/1951	0.0
26/10/1951	0.0
27/10/1951	0.0
28/10/1951	0.0
29/10/1951	0.0
30/10/1951	0.0
31/10/1951	55.4
1/11/1951	0.0
2/11/1951	0.0
3/11/1951	0.0
4/11/1951	0.0
5/11/1951	0.0
6/11/1951	0.0
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14/11/1951	0.0
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16/11/1951	0.0
17/11/1951	0.0
18/11/1951	0.0
19/11/1951	0.0
20/11/1951	0.0
21/11/1951	0.0
22/11/1951	0.0



23/11/1951	0.0
24/11/1951	0.0
25/11/1951	0.0
26/11/1951	108.9
27/11/1951	27.7
28/11/1951	0.0
29/11/1951	0.0
30/11/1951	28.4
1/12/1951	0.0
2/12/1951	0.0
3/12/1951	0.0
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5/12/1951	0.0
6/12/1951	0.0
7/12/1951	0.0
8/12/1951	2.0
9/12/1951	32.7
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11/12/1951	0.0
12/12/1951	0.0
13/12/1951	0.0
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15/12/1951	0.0
16/12/1951	0.0
17/12/1951	0.0
18/12/1951	0.0
19/12/1951	9.0
20/12/1951	193.1
21/12/1951	121.9
22/12/1951	0.0
23/12/1951	68.5
24/12/1951	0.0
25/12/1951	0.0
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3/01/1952	0.0
4/01/1952	0.0
5/01/1952	0.0
6/01/1952	784.5
7/01/1952	168.3
8/01/1952	137.9
9/01/1952	0.0
10/01/1952	0.0
11/01/1952	0.0
12/01/1952	0.0
13/01/1952	0.0
14/01/1952	0.0

15/01/1952	51.4
16/01/1952	0.0
17/01/1952	0.0
18/01/1952	0.0
19/01/1952	0.0
20/01/1952	0.0
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22/01/1952	0.0
23/01/1952	0.0
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26/01/1952	0.0
27/01/1952	9.0
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7/02/1952	0.0
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9/02/1952	0.0
10/02/1952	0.3
11/02/1952	81.5
12/02/1952	0.0
13/02/1952	0.0
14/02/1952	6.3
15/02/1952	240.8
16/02/1952	0.0
17/02/1952	0.0
18/02/1952	0.0
19/02/1952	0.0
20/02/1952	0.0
21/02/1952	0.0
22/02/1952	0.0
23/02/1952	0.0
24/02/1952	72.1
25/02/1952	883.0
26/02/1952	0.0
27/02/1952	0.0
28/02/1952	0.0
29/02/1952	0.0
1/03/1952	0.0
2/03/1952	143.3
3/03/1952	0.0
4/03/1952	0.0
5/03/1952	17.4
6/03/1952	0.0
7/03/1952	0.0

8/03/1952	204.0
9/03/1952	0.0
10/03/1952	0.0
11/03/1952	0.0
12/03/1952	0.0
13/03/1952	0.0
14/03/1952	68.1
15/03/1952	0.0
16/03/1952	0.0
17/03/1952	0.0
18/03/1952	0.0
19/03/1952	0.0
20/03/1952	77.1
21/03/1952	153.0
22/03/1952	573.1
23/03/1952	1190.0
24/03/1952	0.0
25/03/1952	0.0
26/03/1952	0.0
27/03/1952	0.0
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2/04/1952	11.0
3/04/1952	200.4
4/04/1952	16.7
5/04/1952	0.0
6/04/1952	0.0
7/04/1952	0.0
8/04/1952	0.0
9/04/1952	354.7
10/04/1952	831.3
11/04/1952	216.4
12/04/1952	0.0
13/04/1952	872.3
14/04/1952	618.9
15/04/1952	0.0
16/04/1952	0.0
17/04/1952	0.0
18/04/1952	0.0
19/04/1952	0.0
20/04/1952	143.0
21/04/1952	974.9
22/04/1952	76.8
23/04/1952	0.7
24/04/1952	0.0
25/04/1952	509.7
26/04/1952	1405.7
27/04/1952	0.0
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6/05/1952	0.0
7/05/1952	0.0
8/05/1952	9.0
9/05/1952	158.0
10/05/1952	80.8
11/05/1952	168.6
12/05/1952	180.4
13/05/1952	772.5
14/05/1952	85.2
15/05/1952	0.0
16/05/1952	43.1
17/05/1952	0.0
18/05/1952	0.0
19/05/1952	0.0
20/05/1952	0.0
21/05/1952	0.0
22/05/1952	0.0
23/05/1952	127.6
24/05/1952	0.0
25/05/1952	119.6
26/05/1952	0.0
27/05/1952	0.0
28/05/1952	0.0
29/05/1952	0.0
30/05/1952	9.0
31/05/1952	0.0
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10/06/1952	0.0
11/06/1952	0.0
12/06/1952	0.0
13/06/1952	472.3
14/06/1952	2822.2
15/06/1952	482.3
16/06/1952	864.1
17/06/1952	0.0
18/06/1952	0.0
19/06/1952	0.0
20/06/1952	0.0
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22/06/1952	0.0
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9/07/1952	0.0
10/07/1952	0.0
11/07/1952	0.0
12/07/1952	0.0
13/07/1952	17.4
14/07/1952	0.0
15/07/1952	0.0
16/07/1952	28.4
17/07/1952	0.0
18/07/1952	0.0
19/07/1952	0.0
20/07/1952	0.0
21/07/1952	41.4
22/07/1952	0.0
23/07/1952	0.0
24/07/1952	0.0
25/07/1952	1273.8
26/07/1952	4049.0
27/07/1952	833.3
28/07/1952	162.3
29/07/1952	1.7
30/07/1952	0.0
31/07/1952	793.6
1/08/1952	238.1
2/08/1952	0.3
3/08/1952	114.6
4/08/1952	811.9
5/08/1952	3204.3
6/08/1952	0.0
7/08/1952	648.6
8/08/1952	0.0
9/08/1952	0.0
10/08/1952	0.0
11/08/1952	0.0
12/08/1952	400.8
13/08/1952	1930.1

14/08/1952	59.5
15/08/1952	155.0
16/08/1952	0.0
17/08/1952	0.0
18/08/1952	0.0
19/08/1952	257.5
20/08/1952	151.6
21/08/1952	0.0
22/08/1952	0.0
23/08/1952	0.0
24/08/1952	119.6
25/08/1952	0.0
26/08/1952	0.0
27/08/1952	0.0
28/08/1952	0.0
29/08/1952	0.0
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31/08/1952	102.2
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7/09/1952	0.0
8/09/1952	0.0
9/09/1952	0.0
10/09/1952	0.0
11/09/1952	119.2
12/09/1952	0.0
13/09/1952	0.0
14/09/1952	0.0
15/09/1952	0.0
16/09/1952	212.4
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20/09/1952	0.0
21/09/1952	0.0
22/09/1952	0.0
23/09/1952	0.0
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25/09/1952	28.0
26/09/1952	92.9
27/09/1952	0.0
28/09/1952	0.0
29/09/1952	0.0
30/09/1952	0.0
1/10/1952	0.0
2/10/1952	42.8
3/10/1952	0.0
4/10/1952	350.3
5/10/1952	919.4

6/10/1952	683.0
7/10/1952	124.9
8/10/1952	0.0
9/10/1952	0.0
10/10/1952	0.0
11/10/1952	0.0
12/10/1952	110.9
13/10/1952	0.0
14/10/1952	0.0
15/10/1952	0.0
16/10/1952	0.0
17/10/1952	0.0
18/10/1952	0.0
19/10/1952	0.0
20/10/1952	0.0
21/10/1952	0.0
22/10/1952	635.6
23/10/1952	1232.7
24/10/1952	0.0
25/10/1952	283.2
26/10/1952	0.0
27/10/1952	905.8
28/10/1952	0.0
29/10/1952	0.0
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2/11/1952	0.0
3/11/1952	0.0
4/11/1952	0.0
5/11/1952	0.0
6/11/1952	0.0
7/11/1952	0.0
8/11/1952	433.2
9/11/1952	0.7
10/11/1952	25.7
11/11/1952	193.7
12/11/1952	527.0
13/11/1952	0.0
14/11/1952	0.0
15/11/1952	0.0
16/11/1952	322.6
17/11/1952	0.0
18/11/1952	0.0
19/11/1952	0.0
20/11/1952	0.0
21/11/1952	0.0
22/11/1952	0.0
23/11/1952	24.7
24/11/1952	0.0
25/11/1952	0.0
26/11/1952	169.6
27/11/1952	453.6

28/11/1952	0.0
29/11/1952	67.8
30/11/1952	0.0
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2/12/1952	43.1
3/12/1952	0.0
4/12/1952	0.0
5/12/1952	0.0
6/12/1952	0.0
7/12/1952	0.0
8/12/1952	0.0
9/12/1952	0.0
10/12/1952	0.0
11/12/1952	0.0
12/12/1952	51.4
13/12/1952	0.0
14/12/1952	0.0
15/12/1952	82.8
16/12/1952	11.4
17/12/1952	0.0
18/12/1952	127.9
19/12/1952	0.0
20/12/1952	0.0
21/12/1952	0.0
22/12/1952	0.0
23/12/1952	0.0
24/12/1952	0.0
25/12/1952	399.1
26/12/1952	17.7
27/12/1952	0.0
28/12/1952	0.0
29/12/1952	68.5
30/12/1952	53.4
31/12/1952	143.3
1/01/1953	0.0
2/01/1953	0.0
3/01/1953	0.3
4/01/1953	0.0
5/01/1953	207.1
6/01/1953	332.7
7/01/1953	0.0
8/01/1953	0.0
9/01/1953	0.0
10/01/1953	0.0
11/01/1953	0.7
12/01/1953	0.0
13/01/1953	0.0
14/01/1953	0.0
15/01/1953	491.0
16/01/1953	0.0
17/01/1953	134.3
18/01/1953	0.0
19/01/1953	0.0



20/01/1953	0.0
21/01/1953	0.0
22/01/1953	555.7
23/01/1953	107.2
24/01/1953	0.0
25/01/1953	5.7
26/01/1953	53.1
27/01/1953	48.4
28/01/1953	0.0
29/01/1953	0.0
30/01/1953	0.0
31/01/1953	44.8
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2/02/1953	0.0
3/02/1953	0.0
4/02/1953	0.0
5/02/1953	0.0
6/02/1953	619.9
7/02/1953	0.0
8/02/1953	0.0
9/02/1953	32.4
10/02/1953	133.9
11/02/1953	5.0
12/02/1953	0.0
13/02/1953	0.0
14/02/1953	0.0
15/02/1953	0.0
16/02/1953	1295.9
17/02/1953	988.6
18/02/1953	21.0
19/02/1953	0.0
20/02/1953	442.2
21/02/1953	447.9
22/02/1953	118.9
23/02/1953	549.1
24/02/1953	73.4
25/02/1953	75.5
26/02/1953	0.0
27/02/1953	577.5
28/02/1953	0.0
1/03/1953	0.0
2/03/1953	0.0
3/03/1953	0.0
4/03/1953	179.7
5/03/1953	0.0
6/03/1953	0.0
7/03/1953	0.0
8/03/1953	0.0
9/03/1953	0.0
10/03/1953	0.0
11/03/1953	226.8
12/03/1953	94.9
13/03/1953	0.0

14/03/1953	20.7
15/03/1953	0.0
16/03/1953	0.0
17/03/1953	0.0
18/03/1953	480.9
19/03/1953	53.4
20/03/1953	0.0
21/03/1953	0.0
22/03/1953	0.0
23/03/1953	182.0
24/03/1953	1526.3
25/03/1953	0.0
26/03/1953	201.7
27/03/1953	130.2
28/03/1953	0.0
29/03/1953	0.0
30/03/1953	0.0
31/03/1953	0.0
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9/04/1953	0.0
10/04/1953	0.0
11/04/1953	0.0
12/04/1953	0.0
13/04/1953	0.0
14/04/1953	379.7
15/04/1953	0.0
16/04/1953	0.0
17/04/1953	0.0
18/04/1953	0.0
19/04/1953	0.0
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23/04/1953	0.0
24/04/1953	0.0
25/04/1953	0.0
26/04/1953	0.0
27/04/1953	0.0
28/04/1953	0.0
29/04/1953	0.0
30/04/1953	36.0
1/05/1953	1226.0
2/05/1953	2450.2
3/05/1953	934.5
4/05/1953	153.3
5/05/1953	0.0

6/05/1953	957.6
7/05/1953	3046.6
8/05/1953	820.9
9/05/1953	0.0
10/05/1953	0.0
11/05/1953	0.0
12/05/1953	0.0
13/05/1953	0.0
14/05/1953	0.0
15/05/1953	0.0
16/05/1953	0.0
17/05/1953	0.0
18/05/1953	51.8
19/05/1953	0.0
20/05/1953	0.0
21/05/1953	0.0
22/05/1953	0.0
23/05/1953	0.0
24/05/1953	0.0
25/05/1953	128.6
26/05/1953	0.0
27/05/1953	0.0
28/05/1953	0.0
29/05/1953	0.0
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31/05/1953	0.0
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2/06/1953	0.0
3/06/1953	0.0
4/06/1953	0.0
5/06/1953	0.0
6/06/1953	0.0
7/06/1953	498.3
8/06/1953	11.7
9/06/1953	0.0
10/06/1953	0.0
11/06/1953	0.0
12/06/1953	0.0
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17/06/1953	0.0
18/06/1953	0.0
19/06/1953	0.0
20/06/1953	0.0
21/06/1953	9.0
22/06/1953	0.0
23/06/1953	0.0
24/06/1953	0.0
25/06/1953	143.3
26/06/1953	256.5
27/06/1953	0.0

28/06/1953	0.0
29/06/1953	0.0
30/06/1953	0.0
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2/07/1953	0.0
3/07/1953	82.2
4/07/1953	4.0
5/07/1953	0.0
6/07/1953	0.0
7/07/1953	0.0
8/07/1953	0.0
9/07/1953	0.0
10/07/1953	1971.5
11/07/1953	0.0
12/07/1953	143.3
13/07/1953	0.0
14/07/1953	0.0
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29/07/1953	0.0
30/07/1953	0.0
31/07/1953	0.0
1/08/1953	0.0
2/08/1953	0.0
3/08/1953	0.0
4/08/1953	82.2
5/08/1953	46.1
6/08/1953	0.0
7/08/1953	0.0
8/08/1953	0.0
9/08/1953	0.0
10/08/1953	0.0
11/08/1953	0.0
12/08/1953	576.1
13/08/1953	0.0
14/08/1953	0.0
15/08/1953	0.0
16/08/1953	136.3
17/08/1953	0.0
18/08/1953	0.0
19/08/1953	0.0

20/08/1953	0.0
21/08/1953	238.1
22/08/1953	0.0
23/08/1953	0.0
24/08/1953	0.0
25/08/1953	0.0
26/08/1953	0.0
27/08/1953	184.7
28/08/1953	0.0
29/08/1953	85.5
30/08/1953	0.0
31/08/1953	0.0
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2/09/1953	0.0
3/09/1953	0.0
4/09/1953	0.0
5/09/1953	0.0
6/09/1953	0.0
7/09/1953	0.0
8/09/1953	0.0
9/09/1953	0.0
10/09/1953	331.3
11/09/1953	0.0
12/09/1953	0.0
13/09/1953	0.0
14/09/1953	0.0
15/09/1953	17.4
16/09/1953	0.0
17/09/1953	0.0
18/09/1953	0.0
19/09/1953	153.3
20/09/1953	0.0
21/09/1953	0.0
22/09/1953	0.0
23/09/1953	0.0
24/09/1953	0.0
25/09/1953	178.7
26/09/1953	85.8
27/09/1953	0.0
28/09/1953	0.0
29/09/1953	26.1
30/09/1953	0.0
1/10/1953	0.0
2/10/1953	0.0
3/10/1953	0.0
4/10/1953	102.5
5/10/1953	0.0
6/10/1953	0.0
7/10/1953	127.9
8/10/1953	0.0
9/10/1953	0.0
10/10/1953	0.0
11/10/1953	0.0

12/10/1953	0.0
13/10/1953	0.0
14/10/1953	0.0
15/10/1953	1151.2
16/10/1953	0.0
17/10/1953	0.0
18/10/1953	0.0
19/10/1953	0.0
20/10/1953	0.0
21/10/1953	174.3
22/10/1953	0.0
23/10/1953	0.0
24/10/1953	0.0
25/10/1953	0.0
26/10/1953	17.4
27/10/1953	0.0
28/10/1953	0.0
29/10/1953	155.6
30/10/1953	66.8
31/10/1953	0.0
1/11/1953	0.0
2/11/1953	0.0
3/11/1953	0.0
4/11/1953	0.0
5/11/1953	602.5
6/11/1953	0.0
7/11/1953	34.7
8/11/1953	0.0
9/11/1953	0.0
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11/11/1953	0.0
12/11/1953	0.0
13/11/1953	0.0
14/11/1953	0.0
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16/11/1953	0.0
17/11/1953	0.0
18/11/1953	0.0
19/11/1953	5.0
20/11/1953	80.8
21/11/1953	0.0
22/11/1953	0.0
23/11/1953	0.0
24/11/1953	0.0
25/11/1953	0.0
26/11/1953	473.9
27/11/1953	155.0
28/11/1953	0.0
29/11/1953	0.0
30/11/1953	0.0
1/12/1953	0.0
2/12/1953	0.0
3/12/1953	0.0

4/12/1953	0.0
5/12/1953	187.0
6/12/1953	0.0
7/12/1953	0.3
8/12/1953	0.0
9/12/1953	0.0
10/12/1953	0.0
11/12/1953	0.0
12/12/1953	0.0
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29/12/1953	0.0
30/12/1953	0.0
31/12/1953	721.8
1/01/1954	166.3
2/01/1954	755.1
3/01/1954	457.5
4/01/1954	0.0
5/01/1954	0.0
6/01/1954	38.4
7/01/1954	0.0
8/01/1954	0.0
9/01/1954	0.0
10/01/1954	27.4
11/01/1954	425.5
12/01/1954	0.0
13/01/1954	51.4
14/01/1954	0.0
15/01/1954	0.0
16/01/1954	0.0
17/01/1954	68.5
18/01/1954	0.0
19/01/1954	0.0
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22/01/1954	0.0
23/01/1954	0.0
24/01/1954	0.0
25/01/1954	0.0

26/01/1954	0.0
27/01/1954	0.0
28/01/1954	152.0
29/01/1954	561.8
30/01/1954	28.4
31/01/1954	361.4
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2/02/1954	0.0
3/02/1954	0.0
4/02/1954	0.0
5/02/1954	0.0
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8/02/1954	0.0
9/02/1954	390.8
10/02/1954	198.4
11/02/1954	59.8
12/02/1954	204.0
13/02/1954	56.1
14/02/1954	902.1
15/02/1954	164.0
16/02/1954	218.7
17/02/1954	0.0
18/02/1954	0.0
19/02/1954	0.0
20/02/1954	524.0
21/02/1954	3402.1
22/02/1954	228.1
23/02/1954	0.0
24/02/1954	0.0
25/02/1954	0.0
26/02/1954	0.0
27/02/1954	746.4
28/02/1954	0.0
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5/03/1954	0.0
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17/03/1954	0.0
18/03/1954	0.0
19/03/1954	0.0



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8/05/1954	0.0
9/05/1954	0.0
10/05/1954	0.0
11/05/1954	27.4

12/05/1954	119.6
13/05/1954	61.1
14/05/1954	0.0
15/05/1954	0.0
16/05/1954	0.0
17/05/1954	0.0
18/05/1954	0.0
19/05/1954	0.0
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22/05/1954	346.4
23/05/1954	45.1
24/05/1954	0.0
25/05/1954	0.0
26/05/1954	205.7
27/05/1954	0.0
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3/06/1954	324.6
4/06/1954	157.3
5/06/1954	0.0
6/06/1954	0.0
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3/07/1954	0.0

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7/07/1954	41.8
8/07/1954	148.0
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10/07/1954	357.7
11/07/1954	670.7
12/07/1954	0.0
13/07/1954	83.2
14/07/1954	172.7
15/07/1954	0.0
16/07/1954	106.9
17/07/1954	0.0
18/07/1954	0.0
19/07/1954	1041.0
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22/07/1954	0.0
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31/07/1954	0.0
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2/08/1954	144.3
3/08/1954	502.7
4/08/1954	47.4
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6/08/1954	0.0
7/08/1954	76.8
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11/08/1954	0.0
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14/08/1954	34.7
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16/08/1954	0.0
17/08/1954	0.0
18/08/1954	0.0
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21/08/1954	0.0
22/08/1954	0.0
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24/08/1954	0.0
25/08/1954	92.2

26/08/1954	0.0
27/08/1954	0.0
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29/08/1954	0.0
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3/09/1954	0.0
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7/09/1954	0.0
8/09/1954	0.0
9/09/1954	0.0
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11/09/1954	0.0
12/09/1954	59.8
13/09/1954	0.0
14/09/1954	37.4
15/09/1954	0.0
16/09/1954	0.0
17/09/1954	0.0
18/09/1954	0.0
19/09/1954	0.0
20/09/1954	128.2
21/09/1954	352.7
22/09/1954	264.5
23/09/1954	0.0
24/09/1954	7.3
25/09/1954	27.4
26/09/1954	0.0
27/09/1954	0.0
28/09/1954	0.0
29/09/1954	233.5
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2/10/1954	0.0
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7/10/1954	187.0
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14/10/1954	139.3
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16/10/1954	141.6
17/10/1954	173.3

18/10/1954	794.9
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20/10/1954	0.0
21/10/1954	0.0
22/10/1954	0.0
23/10/1954	42.7
24/10/1954	0.0
25/10/1954	0.0
26/10/1954	203.1
27/10/1954	127.6
28/10/1954	1715.7
29/10/1954	0.0
30/10/1954	0.0
31/10/1954	0.0
1/11/1954	0.0
2/11/1954	221.1
3/11/1954	48.1
4/11/1954	1901.1
5/11/1954	0.0
6/11/1954	263.5
7/11/1954	0.0
8/11/1954	563.5
9/11/1954	166.0
10/11/1954	0.0
11/11/1954	0.0
12/11/1954	0.0
13/11/1954	466.2
14/11/1954	88.5
15/11/1954	0.0
16/11/1954	0.0
17/11/1954	0.0
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20/11/1954	145.0
21/11/1954	0.0
22/11/1954	0.0
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27/11/1954	0.0
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29/11/1954	475.6
30/11/1954	0.0
1/12/1954	0.0
2/12/1954	0.0
3/12/1954	0.0
4/12/1954	373.7
5/12/1954	196.0
6/12/1954	0.0
7/12/1954	0.0
8/12/1954	0.0
9/12/1954	0.0

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11/12/1954	7.7
12/12/1954	0.0
13/12/1954	66.1
14/12/1954	0.0
15/12/1954	0.0
16/12/1954	864.7
17/12/1954	40.7
18/12/1954	0.0
19/12/1954	12.4
20/12/1954	48.1
21/12/1954	7.7
22/12/1954	0.0
23/12/1954	0.0
24/12/1954	0.0
25/12/1954	0.0
26/12/1954	0.0
27/12/1954	0.0
28/12/1954	0.0
29/12/1954	0.0
30/12/1954	42.1
31/12/1954	120.2
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14/01/1955	2.0
15/01/1955	59.5
16/01/1955	0.0
17/01/1955	0.0
18/01/1955	0.0
19/01/1955	0.0
20/01/1955	0.0
21/01/1955	230.4
22/01/1955	136.2
23/01/1955	5462.2
24/01/1955	431.8
25/01/1955	137.6
26/01/1955	0.0
27/01/1955	0.0
28/01/1955	433.2
29/01/1955	65.5
30/01/1955	0.0
31/01/1955	0.0

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2/02/1955	253.9
3/02/1955	705.7
4/02/1955	13.0
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11/02/1955	0.0
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14/02/1955	820.2
15/02/1955	483.9
16/02/1955	937.2
17/02/1955	0.0
18/02/1955	0.0
19/02/1955	0.0
20/02/1955	0.0
21/02/1955	0.0
22/02/1955	0.0
23/02/1955	525.7
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25/02/1955	801.6
26/02/1955	447.9
27/02/1955	108.2
28/02/1955	756.5
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2/03/1955	0.0
3/03/1955	0.0
4/03/1955	0.0
5/03/1955	0.0
6/03/1955	361.4
7/03/1955	749.1
8/03/1955	0.0
9/03/1955	0.0
10/03/1955	416.2
11/03/1955	220.4
12/03/1955	0.0
13/03/1955	0.0
14/03/1955	764.1
15/03/1955	887.7
16/03/1955	180.0
17/03/1955	910.1
18/03/1955	0.0
19/03/1955	0.0
20/03/1955	0.0
21/03/1955	62.4
22/03/1955	5.3
23/03/1955	0.0
24/03/1955	0.0
25/03/1955	10.4

26/03/1955	1185.0
27/03/1955	0.0
28/03/1955	18.0
29/03/1955	0.0
30/03/1955	0.0
31/03/1955	0.0
1/04/1955	0.0
2/04/1955	0.0
3/04/1955	41.4
4/04/1955	251.2
5/04/1955	33.4
6/04/1955	16.4
7/04/1955	513.4
8/04/1955	144.3
9/04/1955	0.0
10/04/1955	0.0
11/04/1955	0.0
12/04/1955	0.0
13/04/1955	15.4
14/04/1955	0.0
15/04/1955	0.0
16/04/1955	0.0
17/04/1955	0.0
18/04/1955	195.4
19/04/1955	0.0
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22/04/1955	0.0
23/04/1955	0.0
24/04/1955	0.0
25/04/1955	0.0
26/04/1955	43.1
27/04/1955	0.0
28/04/1955	68.5
29/04/1955	515.0
30/04/1955	4228.0
1/05/1955	1955.5
2/05/1955	0.0
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4/05/1955	0.0
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11/05/1955	112.9
12/05/1955	0.0
13/05/1955	0.0
14/05/1955	0.0
15/05/1955	0.0
16/05/1955	0.0
17/05/1955	0.0



18/05/1955	118.2
19/05/1955	0.0
20/05/1955	0.0
21/05/1955	0.0
22/05/1955	0.0
23/05/1955	0.0
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25/05/1955	0.3
26/05/1955	2066.7
27/05/1955	1121.8
28/05/1955	396.8
29/05/1955	0.0
30/05/1955	0.0
31/05/1955	0.0
1/06/1955	0.0
2/06/1955	65.1
3/06/1955	20.7
4/06/1955	0.0
5/06/1955	1120.5
6/06/1955	709.1
7/06/1955	807.2
8/06/1955	0.0
9/06/1955	154.3
10/06/1955	0.0
11/06/1955	0.0
12/06/1955	0.0
13/06/1955	43.8
14/06/1955	8.0
15/06/1955	0.0
16/06/1955	0.0
17/06/1955	51.4
18/06/1955	0.0
19/06/1955	225.1
20/06/1955	132.6
21/06/1955	0.0
22/06/1955	26.1
23/06/1955	0.0
24/06/1955	0.0
25/06/1955	0.0
26/06/1955	0.0
27/06/1955	0.0
28/06/1955	0.0
29/06/1955	0.0
30/06/1955	9.0
1/07/1955	17.4
2/07/1955	184.4
3/07/1955	0.0
4/07/1955	0.0
5/07/1955	0.0
6/07/1955	0.0
7/07/1955	0.0
8/07/1955	0.0
9/07/1955	0.0

10/07/1955	0.0
11/07/1955	0.0
12/07/1955	0.0
13/07/1955	0.0
14/07/1955	43.4
15/07/1955	0.7
16/07/1955	0.0
17/07/1955	323.0
18/07/1955	0.0
19/07/1955	0.0
20/07/1955	0.0
21/07/1955	286.2
22/07/1955	105.5
23/07/1955	0.7
24/07/1955	0.0
25/07/1955	0.0
26/07/1955	0.0
27/07/1955	0.0
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9/08/1955	59.8
10/08/1955	0.0
11/08/1955	0.0
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13/08/1955	0.0
14/08/1955	0.0
15/08/1955	9.0
16/08/1955	0.0
17/08/1955	0.0
18/08/1955	0.0
19/08/1955	0.0
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21/08/1955	17.4
22/08/1955	0.0
23/08/1955	36.4
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25/08/1955	0.0
26/08/1955	0.0
27/08/1955	0.0
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29/08/1955	0.0
30/08/1955	79.5
31/08/1955	6.3

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2/09/1955	0.0
3/09/1955	0.0
4/09/1955	0.0
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7/09/1955	0.0
8/09/1955	363.4
9/09/1955	37.4
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13/09/1955	0.0
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18/09/1955	0.0
19/09/1955	161.7
20/09/1955	0.0
21/09/1955	0.0
22/09/1955	0.0
23/09/1955	0.0
24/09/1955	0.0
25/09/1955	93.9
26/09/1955	0.0
27/09/1955	0.0
28/09/1955	0.0
29/09/1955	0.0
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1/10/1955	186.7
2/10/1955	0.0
3/10/1955	0.0
4/10/1955	0.0
5/10/1955	0.0
6/10/1955	0.0
7/10/1955	0.0
8/10/1955	0.0
9/10/1955	34.4
10/10/1955	187.0
11/10/1955	0.7
12/10/1955	51.4
13/10/1955	0.0
14/10/1955	0.0
15/10/1955	0.0
16/10/1955	0.0
17/10/1955	0.0
18/10/1955	66.8
19/10/1955	0.0
20/10/1955	0.0
21/10/1955	492.7
22/10/1955	0.0
23/10/1955	0.0

24/10/1955	154.6
25/10/1955	7.7
26/10/1955	0.0
27/10/1955	0.0
28/10/1955	0.0
29/10/1955	0.0
30/10/1955	0.0
31/10/1955	0.0
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2/11/1955	0.0
3/11/1955	0.0
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6/11/1955	789.9
7/11/1955	212.4
8/11/1955	0.0
9/11/1955	0.0
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13/11/1955	0.0
14/11/1955	0.0
15/11/1955	0.0
16/11/1955	0.0
17/11/1955	0.0
18/11/1955	601.9
19/11/1955	722.4
20/11/1955	0.0
21/11/1955	0.0
22/11/1955	0.0
23/11/1955	108.9
24/11/1955	39.1
25/11/1955	137.6
26/11/1955	3310.5
27/11/1955	854.3
28/11/1955	0.0
29/11/1955	0.0
30/11/1955	20.7
1/12/1955	749.4
2/12/1955	0.0
3/12/1955	51.4
4/12/1955	0.0
5/12/1955	0.0
6/12/1955	0.0
7/12/1955	0.0
8/12/1955	0.0
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11/12/1955	130.3
12/12/1955	0.0
13/12/1955	0.0
14/12/1955	0.0
15/12/1955	0.0

16/12/1955	0.0
17/12/1955	0.0
18/12/1955	1675.9
19/12/1955	760.8
20/12/1955	647.9
21/12/1955	0.0
22/12/1955	34.7
23/12/1955	0.0
24/12/1955	51.4
25/12/1955	195.1
26/12/1955	196.7
27/12/1955	828.9
28/12/1955	416.1
29/12/1955	0.0
30/12/1955	0.0
31/12/1955	0.0
1/01/1956	0.0
2/01/1956	0.0
3/01/1956	0.0
4/01/1956	0.0
5/01/1956	0.0
6/01/1956	0.0
7/01/1956	0.0
8/01/1956	0.0
9/01/1956	0.0
10/01/1956	0.0
11/01/1956	224.8
12/01/1956	0.0
13/01/1956	0.0
14/01/1956	0.0
15/01/1956	9.0
16/01/1956	0.0
17/01/1956	0.0
18/01/1956	0.0
19/01/1956	0.0
20/01/1956	806.2
21/01/1956	0.0
22/01/1956	0.0
23/01/1956	0.0
24/01/1956	0.0
25/01/1956	910.8
26/01/1956	305.9
27/01/1956	788.2
28/01/1956	0.0
29/01/1956	0.0
30/01/1956	0.0
31/01/1956	0.0
1/02/1956	68.1
2/02/1956	0.0
3/02/1956	103.2
4/02/1956	39.4
5/02/1956	1.0
6/02/1956	0.0

7/02/1956	0.0
8/02/1956	11.0
9/02/1956	2936.5
10/02/1956	6096.4
11/02/1956	369.4
12/02/1956	0.0
13/02/1956	305.9
14/02/1956	0.0
15/02/1956	0.0
16/02/1956	280.6
17/02/1956	337.6
18/02/1956	873.7
19/02/1956	1460.2
20/02/1956	178.0
21/02/1956	1655.6
22/02/1956	1473.2
23/02/1956	0.0
24/02/1956	166.3
25/02/1956	0.0
26/02/1956	0.0
27/02/1956	15.0
28/02/1956	240.1
29/02/1956	361.1
1/03/1956	3167.9
2/03/1956	0.0
3/03/1956	0.0
4/03/1956	0.0
5/03/1956	0.0
6/03/1956	1.0
7/03/1956	0.0
8/03/1956	807.6
9/03/1956	776.8
10/03/1956	0.0
11/03/1956	101.9
12/03/1956	731.1
13/03/1956	0.0
14/03/1956	1052.7
15/03/1956	1623.2
16/03/1956	96.2
17/03/1956	0.0
18/03/1956	346.4
19/03/1956	256.5
20/03/1956	360.0
21/03/1956	177.0
22/03/1956	0.0
23/03/1956	0.0
24/03/1956	0.0
25/03/1956	267.9
26/03/1956	0.0
27/03/1956	0.0
28/03/1956	45.8
29/03/1956	0.0
30/03/1956	238.1

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4/04/1956	0.0
5/04/1956	60.1
6/04/1956	0.0
7/04/1956	0.0
8/04/1956	0.0
9/04/1956	0.0
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11/04/1956	0.0
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15/04/1956	93.9
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27/04/1956	0.0
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2/05/1956	0.0
3/05/1956	0.0
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6/05/1956	0.0
7/05/1956	0.0
8/05/1956	46.4
9/05/1956	0.0
10/05/1956	0.0
11/05/1956	104.9
12/05/1956	0.0
13/05/1956	161.7
14/05/1956	0.0
15/05/1956	154.6
16/05/1956	59.8
17/05/1956	42.8
18/05/1956	0.0
19/05/1956	140.9
20/05/1956	472.3
21/05/1956	0.7
22/05/1956	70.8

23/05/1956	0.0
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26/05/1956	0.0
27/05/1956	0.0
28/05/1956	0.0
29/05/1956	17.4
30/05/1956	0.0
31/05/1956	0.0
1/06/1956	933.5
2/06/1956	0.0
3/06/1956	113.5
4/06/1956	116.6
5/06/1956	0.0
6/06/1956	0.0
7/06/1956	0.0
8/06/1956	0.0
9/06/1956	339.7
10/06/1956	595.5
11/06/1956	0.0
12/06/1956	0.0
13/06/1956	0.0
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21/06/1956	0.0
22/06/1956	0.0
23/06/1956	603.9
24/06/1956	1719.0
25/06/1956	2244.7
26/06/1956	0.0
27/06/1956	9.0
28/06/1956	0.0
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2/07/1956	0.0
3/07/1956	0.0
4/07/1956	0.0
5/07/1956	0.0
6/07/1956	18.0
7/07/1956	86.2
8/07/1956	0.0
9/07/1956	17.4
10/07/1956	0.0
11/07/1956	595.5
12/07/1956	490.3
13/07/1956	0.0
14/07/1956	0.0



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16/07/1956	0.6
17/07/1956	17.7
18/07/1956	0.0
19/07/1956	0.0
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22/07/1956	0.0
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26/07/1956	0.0
27/07/1956	0.0
28/07/1956	0.0
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30/07/1956	0.0
31/07/1956	347.4
1/08/1956	1215.0
2/08/1956	144.6
3/08/1956	427.5
4/08/1956	168.0
5/08/1956	30.7
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7/08/1956	0.0
8/08/1956	0.0
9/08/1956	0.0
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15/08/1956	0.0
16/08/1956	0.0
17/08/1956	0.0
18/08/1956	0.0
19/08/1956	85.5
20/08/1956	0.0
21/08/1956	0.0
22/08/1956	93.9
23/08/1956	0.0
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25/08/1956	0.0
26/08/1956	0.0
27/08/1956	0.0
28/08/1956	0.0
29/08/1956	34.4
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3/09/1956	0.0
4/09/1956	59.1
5/09/1956	0.0

6/09/1956	0.0
7/09/1956	43.1
8/09/1956	0.0
9/09/1956	114.9
10/09/1956	553.8
11/09/1956	0.0
12/09/1956	17.7
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14/09/1956	0.0
15/09/1956	0.0
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20/09/1956	153.3
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22/09/1956	0.7
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26/09/1956	0.0
27/09/1956	0.0
28/09/1956	85.2
29/09/1956	0.0
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3/10/1956	0.0
4/10/1956	579.8
5/10/1956	174.7
6/10/1956	66.8
7/10/1956	234.1
8/10/1956	183.1
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10/10/1956	0.0
11/10/1956	0.0
12/10/1956	0.0
13/10/1956	0.0
14/10/1956	0.0
15/10/1956	230.4
16/10/1956	93.2
17/10/1956	0.0
18/10/1956	17.4
19/10/1956	0.0
20/10/1956	0.0
21/10/1956	0.0
22/10/1956	0.0
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25/10/1956	0.0
26/10/1956	0.0
27/10/1956	212.7
28/10/1956	0.0

29/10/1956	0.0
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3/11/1956	0.0
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5/11/1956	0.0
6/11/1956	20.3
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8/11/1956	0.0
9/11/1956	0.0
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27/11/1956	0.0
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29/11/1956	0.0
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3/12/1956	203.4
4/12/1956	0.0
5/12/1956	0.0
6/12/1956	0.0
7/12/1956	0.0
8/12/1956	150.6
9/12/1956	0.0
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11/12/1956	0.0
12/12/1956	0.0
13/12/1956	0.0
14/12/1956	0.0
15/12/1956	0.0
16/12/1956	0.0
17/12/1956	0.0
18/12/1956	0.0
19/12/1956	0.0
20/12/1956	0.0

21/12/1956	34.7
22/12/1956	0.0
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30/12/1956	0.0
31/12/1956	0.0
1/01/1957	0.0
2/01/1957	0.0
3/01/1957	263.5
4/01/1957	94.9
5/01/1957	0.0
6/01/1957	26.1
7/01/1957	0.0
8/01/1957	0.0
9/01/1957	0.7
10/01/1957	0.0
11/01/1957	0.0
12/01/1957	0.0
13/01/1957	0.0
14/01/1957	0.0
15/01/1957	0.0
16/01/1957	0.0
17/01/1957	17.4
18/01/1957	0.0
19/01/1957	144.6
20/01/1957	0.0
21/01/1957	0.0
22/01/1957	959.2
23/01/1957	0.0
24/01/1957	0.0
25/01/1957	0.0
26/01/1957	0.0
27/01/1957	0.7
28/01/1957	0.0
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2/02/1957	0.0
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4/02/1957	0.0
5/02/1957	0.0
6/02/1957	0.0
7/02/1957	11.4
8/02/1957	582.2
9/02/1957	0.0
10/02/1957	145.0
11/02/1957	0.0

12/02/1957	105.7
13/02/1957	0.0
14/02/1957	0.0
15/02/1957	0.0
16/02/1957	17.4
17/02/1957	78.5
18/02/1957	252.8
19/02/1957	866.0
20/02/1957	0.0
21/02/1957	0.0
22/02/1957	0.0
23/02/1957	27.7
24/02/1957	0.0
25/02/1957	11.7
26/02/1957	0.0
27/02/1957	0.0
28/02/1957	0.0
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4/03/1957	0.0
5/03/1957	25.7
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7/03/1957	0.0
8/03/1957	0.0
9/03/1957	0.0
10/03/1957	0.0
11/03/1957	0.0
12/03/1957	0.0
13/03/1957	0.7
14/03/1957	0.0
15/03/1957	0.0
16/03/1957	0.0
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19/03/1957	0.0
20/03/1957	0.0
21/03/1957	0.0
22/03/1957	0.0
23/03/1957	0.0
24/03/1957	348.4
25/03/1957	0.0
26/03/1957	0.0
27/03/1957	0.0
28/03/1957	137.9
29/03/1957	2720.3
30/03/1957	0.0
31/03/1957	51.4
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2/04/1957	0.0
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4/04/1957	0.0
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6/04/1957	0.0
7/04/1957	0.0
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10/04/1957	0.0
11/04/1957	127.9
12/04/1957	0.0
13/04/1957	0.0
14/04/1957	0.0
15/04/1957	0.0
16/04/1957	0.0
17/04/1957	11.4
18/04/1957	244.2
19/04/1957	0.0
20/04/1957	0.0
21/04/1957	0.0
22/04/1957	0.0
23/04/1957	0.0
24/04/1957	0.0
25/04/1957	0.0
26/04/1957	0.0
27/04/1957	0.0
28/04/1957	110.9
29/04/1957	0.0
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23/05/1957	18.3
24/05/1957	0.0
25/05/1957	0.0
26/05/1957	0.0
27/05/1957	0.0
28/05/1957	0.0

29/05/1957	0.0
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15/06/1957	259.5
16/06/1957	0.0
17/06/1957	0.0
18/06/1957	0.0
19/06/1957	0.0
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21/06/1957	15.7
22/06/1957	470.6
23/06/1957	195.7
24/06/1957	0.0
25/06/1957	0.0
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27/06/1957	0.0
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3/07/1957	0.0
4/07/1957	0.0
5/07/1957	0.0
6/07/1957	49.7
7/07/1957	0.0
8/07/1957	195.1
9/07/1957	1954.8
10/07/1957	461.6
11/07/1957	0.0
12/07/1957	0.0
13/07/1957	0.0
14/07/1957	0.0
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17/07/1957	0.0
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19/07/1957	0.0
20/07/1957	0.0

21/07/1957	0.0
22/07/1957	0.0
23/07/1957	382.1
24/07/1957	223.4
25/07/1957	73.8
26/07/1957	10.4
27/07/1957	0.0
28/07/1957	0.0
29/07/1957	139.3
30/07/1957	100.8
31/07/1957	163.0
1/08/1957	0.0
2/08/1957	0.0
3/08/1957	0.0
4/08/1957	0.0
5/08/1957	0.0
6/08/1957	0.0
7/08/1957	0.0
8/08/1957	43.1
9/08/1957	0.0
10/08/1957	0.0
11/08/1957	0.0
12/08/1957	0.0
13/08/1957	0.0
14/08/1957	722.8
15/08/1957	266.2
16/08/1957	174.7
17/08/1957	0.0
18/08/1957	0.0
19/08/1957	0.0
20/08/1957	0.0
21/08/1957	0.0
22/08/1957	104.5
23/08/1957	522.4
24/08/1957	691.0
25/08/1957	98.5
26/08/1957	1072.7
27/08/1957	0.0
28/08/1957	206.4
29/08/1957	0.0
30/08/1957	0.0
31/08/1957	0.0
1/09/1957	362.4
2/09/1957	75.8
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29/10/1957	0.0
30/10/1957	116.2
31/10/1957	0.0
1/11/1957	0.0
2/11/1957	0.0
3/11/1957	9.7

4/11/1957	112.9
5/11/1957	30.1
6/11/1957	0.0
7/11/1957	0.0
8/11/1957	528.1
9/11/1957	0.0
10/11/1957	0.0
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13/11/1957	0.0
14/11/1957	0.0
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16/11/1957	0.0
17/11/1957	42.8
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7/12/1957	34.7
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23/12/1957	67.5
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25/12/1957	0.0
26/12/1957	0.0

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29/12/1957	19.0
30/12/1957	733.5
31/12/1957	987.3
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7/01/1958	153.3
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16/01/1958	318.6
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18/01/1958	0.0
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21/01/1958	93.9
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25/01/1958	0.0
26/01/1958	0.0
27/01/1958	0.0
28/01/1958	857.7
29/01/1958	110.6
30/01/1958	74.5
31/01/1958	852.4
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4/02/1958	0.0
5/02/1958	95.2
6/02/1958	1951.8
7/02/1958	1900.7
8/02/1958	1916.8
9/02/1958	3026.3
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11/02/1958	17.7
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15/02/1958	0.0
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19/02/1958	423.5
20/02/1958	772.5
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6/03/1958	11.0
7/03/1958	0.0
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9/03/1958	850.3
10/03/1958	6317.2
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18/12/1958	338.3
19/12/1958	191.7
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3/01/1959	14.7
4/01/1959	389.4
5/01/1959	123.5
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8/01/1959	25.7
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31/05/1959	74.5
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2/06/1959	651.9
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12/01/1960	0.0
13/01/1960	0.0
14/01/1960	0.0
15/01/1960	0.0
16/01/1960	0.0
17/01/1960	0.0
18/01/1960	171.0
19/01/1960	115.1
20/01/1960	0.0
21/01/1960	59.1
22/01/1960	125.6
23/01/1960	334.3
24/01/1960	0.0
25/01/1960	0.0
26/01/1960	0.0
27/01/1960	0.0
28/01/1960	0.0
29/01/1960	74.1
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4/02/1960	0.0
5/02/1960	0.0
6/02/1960	0.0
7/02/1960	0.0
8/02/1960	0.0
9/02/1960	214.1
10/02/1960	0.0
11/02/1960	114.2
12/02/1960	0.0
13/02/1960	0.0
14/02/1960	323.3
15/02/1960	0.0
16/02/1960	0.0
17/02/1960	121.2
18/02/1960	0.0
19/02/1960	148.6
20/02/1960	0.0
21/02/1960	0.0
22/02/1960	0.0
23/02/1960	0.0
24/02/1960	0.0
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26/02/1960	0.0
27/02/1960	106.2
28/02/1960	422.1
29/02/1960	0.0

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5/03/1960	0.0
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12/03/1960	0.0
13/03/1960	0.0
14/03/1960	79.8
15/03/1960	134.2
16/03/1960	0.0
17/03/1960	164.0
18/03/1960	0.0
19/03/1960	0.0
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23/03/1960	0.0
24/03/1960	0.0
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28/03/1960	0.0
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4/04/1960	0.0
5/04/1960	12.3
6/04/1960	0.0
7/04/1960	8.3
8/04/1960	9.0
9/04/1960	0.0
10/04/1960	0.0
11/04/1960	0.7
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13/04/1960	0.0
14/04/1960	0.0
15/04/1960	0.0
16/04/1960	0.0
17/04/1960	0.0
18/04/1960	0.0
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21/04/1960	59.8
22/04/1960	27.1

23/04/1960	0.0
24/04/1960	0.0
25/04/1960	0.0
26/04/1960	0.0
27/04/1960	0.0
28/04/1960	0.0
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2/05/1960	0.0
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18/05/1960	545.8
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21/05/1960	0.0
22/05/1960	0.0
23/05/1960	24.0
24/05/1960	195.7
25/05/1960	228.1
26/05/1960	189.7
27/05/1960	37.1
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29/05/1960	0.0
30/05/1960	0.0
31/05/1960	0.0
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12/06/1960	0.0
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14/06/1960	0.0

15/06/1960	0.0
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17/06/1960	0.0
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19/06/1960	345.0
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24/06/1960	0.0
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4/07/1960	0.0
5/07/1960	0.0
6/07/1960	0.0
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8/07/1960	0.0
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3/08/1960	0.0
4/08/1960	0.0
5/08/1960	0.0
6/08/1960	978.6

7/08/1960	133.9
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12/08/1960	0.0
13/08/1960	0.0
14/08/1960	0.0
15/08/1960	0.0
16/08/1960	0.0
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10/09/1960	107.5
11/09/1960	38.4
12/09/1960	0.0
13/09/1960	114.9
14/09/1960	571.8
15/09/1960	0.0
16/09/1960	163.3
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18/09/1960	0.0
19/09/1960	445.9
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21/09/1960	0.0
22/09/1960	110.9
23/09/1960	0.0
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26/09/1960	34.4
27/09/1960	0.0
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29/09/1960	0.0
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13/10/1960	0.0
14/10/1960	0.0
15/10/1960	0.0
16/10/1960	0.0
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19/10/1960	209.1
20/10/1960	153.3
21/10/1960	845.7
22/10/1960	4043.1
23/10/1960	0.0
24/10/1960	192.7
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13/11/1960	0.0
14/11/1960	0.0
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16/11/1960	0.0
17/11/1960	0.0
18/11/1960	170.0
19/11/1960	0.0
20/11/1960	0.0

21/11/1960	441.8
22/11/1960	153.0
23/11/1960	0.0
24/11/1960	766.8
25/11/1960	3.3
26/11/1960	9.0
27/11/1960	0.0
28/11/1960	0.0
29/11/1960	0.0
30/11/1960	0.0
1/12/1960	0.0
2/12/1960	178.0
3/12/1960	773.8
4/12/1960	766.5
5/12/1960	197.1
6/12/1960	40.4
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8/12/1960	0.0
9/12/1960	0.0
10/12/1960	0.0
11/12/1960	0.0
12/12/1960	81.1
13/12/1960	281.9
14/12/1960	327.3
15/12/1960	737.8
16/12/1960	1021.0
17/12/1960	671.6
18/12/1960	783.8
19/12/1960	863.7
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22/12/1960	0.0
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4/02/1961	0.0
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7/02/1961	13.0
8/02/1961	173.7
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11/02/1961	168.7
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15/02/1961	0.0
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22/02/1961	0.0
23/02/1961	0.0
24/02/1961	0.0
25/02/1961	0.0
26/02/1961	0.0
27/02/1961	136.3
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3/03/1961	0.0
4/03/1961	0.0
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6/03/1961	0.0



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8/03/1961	0.0
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11/03/1961	189.0
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16/04/1961	0.0
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21/04/1961	115.5
22/04/1961	0.0
23/04/1961	0.0
24/04/1961	1281.8
25/04/1961	39.4
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27/04/1961	0.0
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27/07/1961	0.0
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6/08/1961	0.0
7/08/1961	0.0
8/08/1961	0.0
9/08/1961	15.4
10/08/1961	339.0
11/08/1961	317.3
12/08/1961	0.0

13/08/1961	42.8
14/08/1961	34.4
15/08/1961	0.0
16/08/1961	567.8
17/08/1961	43.4
18/08/1961	0.0
19/08/1961	0.0
20/08/1961	97.5
21/08/1961	158.0
22/08/1961	0.0
23/08/1961	201.4
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27/08/1961	495.0
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11/09/1961	76.8
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14/09/1961	246.5
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16/09/1961	123.9
17/09/1961	60.5
18/09/1961	336.0
19/09/1961	14.7
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21/09/1961	0.0
22/09/1961	0.0
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3/11/1961	0.0
4/11/1961	26.1
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19/11/1961	2801.9
20/11/1961	3537.0
21/11/1961	158.3
22/11/1961	181.7
23/11/1961	170.3
24/11/1961	694.7
25/11/1961	897.8
26/11/1961	908.7

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9/12/1961	0.0
10/12/1961	0.0
11/12/1961	134.6
12/12/1961	19.4
13/12/1961	0.0
14/12/1961	0.0
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16/12/1961	0.0
17/12/1961	297.6
18/12/1961	786.1
19/12/1961	0.0
20/12/1961	0.0
21/12/1961	102.5
22/12/1961	0.0
23/12/1961	0.0
24/12/1961	90.8
25/12/1961	658.0
26/12/1961	561.5
27/12/1961	364.4
28/12/1961	0.0
29/12/1961	0.0
30/12/1961	0.0
31/12/1961	204.0
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2/01/1962	0.0
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6/01/1962	0.0
7/01/1962	122.6
8/01/1962	816.3
9/01/1962	123.6
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12/01/1962	985.3
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14/01/1962	0.0
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17/01/1962	0.0
18/01/1962	110.6

19/01/1962	13.0
20/01/1962	5.0
21/01/1962	0.0
22/01/1962	246.8
23/01/1962	0.0
24/01/1962	0.0
25/01/1962	0.0
26/01/1962	153.3
27/01/1962	0.0
28/01/1962	198.7
29/01/1962	14.4
30/01/1962	0.0
31/01/1962	440.2
1/02/1962	0.0
2/02/1962	0.0
3/02/1962	0.0
4/02/1962	0.0
5/02/1962	0.0
6/02/1962	0.0
7/02/1962	0.0
8/02/1962	76.8
9/02/1962	0.0
10/02/1962	0.0
11/02/1962	0.0
12/02/1962	0.0
13/02/1962	0.0
14/02/1962	671.3
15/02/1962	0.0
16/02/1962	159.3
17/02/1962	1501.3
18/02/1962	335.6
19/02/1962	174.7
20/02/1962	939.1
21/02/1962	0.0
22/02/1962	0.0
23/02/1962	35.1
24/02/1962	178.0
25/02/1962	0.0
26/02/1962	0.0
27/02/1962	32.4
28/02/1962	0.0
1/03/1962	0.0
2/03/1962	0.0
3/03/1962	0.0
4/03/1962	0.0
5/03/1962	0.0
6/03/1962	0.0
7/03/1962	9.0
8/03/1962	718.7
9/03/1962	0.0
10/03/1962	85.1
11/03/1962	0.0
12/03/1962	0.0

13/03/1962	0.0
14/03/1962	181.7
15/03/1962	85.8
16/03/1962	84.8
17/03/1962	0.0
18/03/1962	76.2
19/03/1962	97.9
20/03/1962	48.4
21/03/1962	0.0
22/03/1962	0.0
23/03/1962	0.0
24/03/1962	25.7
25/03/1962	0.0
26/03/1962	0.0
27/03/1962	0.0
28/03/1962	0.0
29/03/1962	0.0
30/03/1962	0.0
31/03/1962	0.0
1/04/1962	0.0
2/04/1962	42.8
3/04/1962	0.0
4/04/1962	0.0
5/04/1962	7.3
6/04/1962	212.8
7/04/1962	20.0
8/04/1962	195.7
9/04/1962	304.6
10/04/1962	668.3
11/04/1962	700.1
12/04/1962	0.0
13/04/1962	32.1
14/04/1962	96.2
15/04/1962	0.0
16/04/1962	0.0
17/04/1962	175.0
18/04/1962	13.0
19/04/1962	0.0
20/04/1962	0.0
21/04/1962	331.0
22/04/1962	0.0
23/04/1962	0.0
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2/05/1962	0.0
3/05/1962	0.0
4/05/1962	0.0



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6/05/1962	0.0
7/05/1962	0.0
8/05/1962	0.0
9/05/1962	25.7
10/05/1962	0.0
11/05/1962	340.0
12/05/1962	2691.6
13/05/1962	3089.1
14/05/1962	1388.7
15/05/1962	0.0
16/05/1962	4.7
17/05/1962	0.0
18/05/1962	0.0
19/05/1962	0.0
20/05/1962	0.0
21/05/1962	0.0
22/05/1962	102.2
23/05/1962	0.0
24/05/1962	0.0
25/05/1962	0.0
26/05/1962	0.0
27/05/1962	0.0
28/05/1962	114.5
29/05/1962	0.0
30/05/1962	0.0
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2/06/1962	93.9
3/06/1962	0.0
4/06/1962	0.0
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22/06/1962	0.0
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25/06/1962	0.0
26/06/1962	0.0

27/06/1962	0.0
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2/07/1962	0.0
3/07/1962	0.0
4/07/1962	0.0
5/07/1962	0.0
6/07/1962	0.0
7/07/1962	82.5
8/07/1962	0.0
9/07/1962	501.3
10/07/1962	396.5
11/07/1962	730.5
12/07/1962	114.9
13/07/1962	0.0
14/07/1962	0.0
15/07/1962	0.0
16/07/1962	0.0
17/07/1962	0.0
18/07/1962	0.0
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20/07/1962	0.0
21/07/1962	0.0
22/07/1962	9.0
23/07/1962	0.0
24/07/1962	247.5
25/07/1962	0.0
26/07/1962	0.0
27/07/1962	0.0
28/07/1962	0.0
29/07/1962	0.0
30/07/1962	0.0
31/07/1962	0.0
1/08/1962	25.7
2/08/1962	0.0
3/08/1962	0.0
4/08/1962	0.0
5/08/1962	48.4
6/08/1962	0.3
7/08/1962	0.0
8/08/1962	655.3
9/08/1962	108.6
10/08/1962	67.5
11/08/1962	163.6
12/08/1962	205.1
13/08/1962	693.0
14/08/1962	319.6
15/08/1962	251.8
16/08/1962	0.0
17/08/1962	0.0
18/08/1962	0.0

19/08/1962	330.7
20/08/1962	0.0
21/08/1962	340.6
22/08/1962	0.0
23/08/1962	0.0
24/08/1962	0.0
25/08/1962	0.0
26/08/1962	0.0
27/08/1962	0.0
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12/09/1962	0.0
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14/09/1962	0.0
15/09/1962	184.0
16/09/1962	0.0
17/09/1962	593.2
18/09/1962	257.8
19/09/1962	0.0
20/09/1962	552.4
21/09/1962	933.5
22/09/1962	108.9
23/09/1962	0.0
24/09/1962	0.0
25/09/1962	0.0
26/09/1962	0.0
27/09/1962	0.0
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8/10/1962	0.0
9/10/1962	0.0
10/10/1962	0.0

11/10/1962	0.0
12/10/1962	0.0
13/10/1962	34.4
14/10/1962	0.0
15/10/1962	0.0
16/10/1962	0.0
17/10/1962	0.0
18/10/1962	0.0
19/10/1962	4.7
20/10/1962	0.0
21/10/1962	70.5
22/10/1962	0.0
23/10/1962	0.0
24/10/1962	0.0
25/10/1962	0.0
26/10/1962	0.0
27/10/1962	0.0
28/10/1962	0.0
29/10/1962	304.9
30/10/1962	24.4
31/10/1962	0.0
1/11/1962	0.0
2/11/1962	0.0
3/11/1962	0.0
4/11/1962	33.4
5/11/1962	0.0
6/11/1962	0.0
7/11/1962	0.0
8/11/1962	88.5
9/11/1962	0.0
10/11/1962	0.0
11/11/1962	0.0
12/11/1962	0.0
13/11/1962	0.0
14/11/1962	0.0
15/11/1962	0.0
16/11/1962	0.0
17/11/1962	0.0
18/11/1962	0.0
19/11/1962	0.0
20/11/1962	0.0
21/11/1962	9.7
22/11/1962	0.0
23/11/1962	0.0
24/11/1962	0.0
25/11/1962	0.7
26/11/1962	0.0
27/11/1962	0.0
28/11/1962	0.0
29/11/1962	0.0
30/11/1962	0.0
1/12/1962	0.0
2/12/1962	0.0

3/12/1962	0.0
4/12/1962	276.6
5/12/1962	915.8
6/12/1962	0.0
7/12/1962	399.5
8/12/1962	153.3
9/12/1962	0.0
10/12/1962	0.0
11/12/1962	0.0
12/12/1962	0.0
13/12/1962	0.0
14/12/1962	360.4
15/12/1962	65.1
16/12/1962	0.0
17/12/1962	0.0
18/12/1962	244.8
19/12/1962	154.0
20/12/1962	0.0
21/12/1962	0.0
22/12/1962	0.0
23/12/1962	0.0
24/12/1962	447.5
25/12/1962	325.7
26/12/1962	0.0
27/12/1962	4.0
28/12/1962	5.7
29/12/1962	0.0
30/12/1962	0.0
31/12/1962	0.0
1/01/1963	0.0
2/01/1963	99.9
3/01/1963	585.5
4/01/1963	16.4
5/01/1963	0.0
6/01/1963	0.0
7/01/1963	0.0
8/01/1963	0.0
9/01/1963	0.0
10/01/1963	0.0
11/01/1963	0.0
12/01/1963	0.0
13/01/1963	0.0
14/01/1963	0.0
15/01/1963	145.6
16/01/1963	361.4
17/01/1963	2045.0
18/01/1963	0.0
19/01/1963	0.0
20/01/1963	0.0
21/01/1963	0.0
22/01/1963	0.0
23/01/1963	0.0
24/01/1963	0.0

25/01/1963	0.0
26/01/1963	0.0
27/01/1963	0.0
28/01/1963	0.0
29/01/1963	0.3
30/01/1963	388.1
31/01/1963	427.2
1/02/1963	0.0
2/02/1963	0.0
3/02/1963	124.6
4/02/1963	0.0
5/02/1963	0.0
6/02/1963	0.0
7/02/1963	0.0
8/02/1963	0.0
9/02/1963	0.0
10/02/1963	0.0
11/02/1963	828.6
12/02/1963	52.8
13/02/1963	0.0
14/02/1963	43.1
15/02/1963	0.0
16/02/1963	0.0
17/02/1963	0.0
18/02/1963	9.0
19/02/1963	0.0
20/02/1963	0.0
21/02/1963	0.0
22/02/1963	0.0
23/02/1963	0.0
24/02/1963	0.0
25/02/1963	0.0
26/02/1963	0.0
27/02/1963	0.0
28/02/1963	0.0
1/03/1963	0.0
2/03/1963	808.3
3/03/1963	32.4
4/03/1963	0.0
5/03/1963	0.0
6/03/1963	0.0
7/03/1963	20.7
8/03/1963	183.4
9/03/1963	0.0
10/03/1963	0.0
11/03/1963	183.4
12/03/1963	703.7
13/03/1963	856.3
14/03/1963	0.0
15/03/1963	88.1
16/03/1963	829.6
17/03/1963	0.0
18/03/1963	0.0

19/03/1963	917.8
20/03/1963	740.1
21/03/1963	493.0
22/03/1963	475.6
23/03/1963	2528.3
24/03/1963	158.3
25/03/1963	0.0
26/03/1963	0.0
27/03/1963	553.1
28/03/1963	727.1
29/03/1963	771.2
30/03/1963	0.0
31/03/1963	0.0
1/04/1963	0.0
2/04/1963	135.9
3/04/1963	0.0
4/04/1963	0.0
5/04/1963	0.0
6/04/1963	0.0
7/04/1963	0.0
8/04/1963	178.7
9/04/1963	0.0
10/04/1963	0.0
11/04/1963	0.0
12/04/1963	0.0
13/04/1963	0.0
14/04/1963	363.1
15/04/1963	0.0
16/04/1963	0.0
17/04/1963	0.0
18/04/1963	0.0
19/04/1963	0.0
20/04/1963	112.2
21/04/1963	83.5
22/04/1963	307.6
23/04/1963	0.0
24/04/1963	625.2
25/04/1963	275.9
26/04/1963	280.5
27/04/1963	1251.8
28/04/1963	1650.5
29/04/1963	1353.3
30/04/1963	0.0
1/05/1963	0.0
2/05/1963	31.4
3/05/1963	0.0
4/05/1963	0.0
5/05/1963	0.0
6/05/1963	518.0
7/05/1963	2029.6
8/05/1963	174.3
9/05/1963	27.1
10/05/1963	0.0

11/05/1963	0.0
12/05/1963	143.4
13/05/1963	713.4
14/05/1963	154.6
15/05/1963	0.0
16/05/1963	0.0
17/05/1963	416.1
18/05/1963	898.7
19/05/1963	286.9
20/05/1963	0.0
21/05/1963	0.0
22/05/1963	0.0
23/05/1963	0.0
24/05/1963	0.0
25/05/1963	0.0
26/05/1963	26.1
27/05/1963	0.0
28/05/1963	0.0
29/05/1963	0.0
30/05/1963	221.1
31/05/1963	0.0
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2/06/1963	0.0
3/06/1963	0.0
4/06/1963	1983.2
5/06/1963	663.6
6/06/1963	0.0
7/06/1963	0.0
8/06/1963	0.0
9/06/1963	75.7
10/06/1963	0.0
11/06/1963	566.8
12/06/1963	40.1
13/06/1963	423.1
14/06/1963	306.6
15/06/1963	0.0
16/06/1963	0.0
17/06/1963	0.0
18/06/1963	0.0
19/06/1963	0.0
20/06/1963	0.0
21/06/1963	0.0
22/06/1963	0.0
23/06/1963	306.6
24/06/1963	708.3
25/06/1963	1808.2
26/06/1963	134.3
27/06/1963	233.1
28/06/1963	0.0
29/06/1963	162.0
30/06/1963	0.0
1/07/1963	0.0
2/07/1963	0.0



3/07/1963	0.0
4/07/1963	126.6
5/07/1963	0.0
6/07/1963	0.0
7/07/1963	0.0
8/07/1963	0.0
9/07/1963	0.0
10/07/1963	903.7
11/07/1963	163.3
12/07/1963	0.0
13/07/1963	301.6
14/07/1963	202.1
15/07/1963	0.0
16/07/1963	0.0
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2/08/1963	0.0
3/08/1963	0.0
4/08/1963	0.0
5/08/1963	29.4
6/08/1963	166.7
7/08/1963	702.1
8/08/1963	765.2
9/08/1963	0.0
10/08/1963	0.0
11/08/1963	203.1
12/08/1963	0.0
13/08/1963	0.0
14/08/1963	51.4
15/08/1963	34.7
16/08/1963	0.0
17/08/1963	0.0
18/08/1963	0.0
19/08/1963	0.0
20/08/1963	0.0
21/08/1963	0.0
22/08/1963	76.2
23/08/1963	358.7
24/08/1963	23.3

25/08/1963	329.7
26/08/1963	0.0
27/08/1963	0.0
28/08/1963	88.2
29/08/1963	3909.4
30/08/1963	1164.6
31/08/1963	0.0
1/09/1963	0.0
2/09/1963	0.0
3/09/1963	0.0
4/09/1963	0.0
5/09/1963	0.0
6/09/1963	85.2
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16/09/1963	0.0
17/09/1963	0.0
18/09/1963	0.0
19/09/1963	0.0
20/09/1963	0.0
21/09/1963	0.0
22/09/1963	0.0
23/09/1963	207.1
24/09/1963	144.3
25/09/1963	33.7
26/09/1963	0.0
27/09/1963	108.6
28/09/1963	0.0
29/09/1963	0.0
30/09/1963	76.8
1/10/1963	0.0
2/10/1963	0.0
3/10/1963	0.0
4/10/1963	261.9
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7/10/1963	0.0
8/10/1963	0.0
9/10/1963	0.0
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11/10/1963	0.0
12/10/1963	136.6
13/10/1963	766.9
14/10/1963	7.0
15/10/1963	234.1
16/10/1963	0.0

17/10/1963	0.0
18/10/1963	0.0
19/10/1963	0.0
20/10/1963	0.0
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22/10/1963	0.0
23/10/1963	0.0
24/10/1963	0.0
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26/10/1963	0.0
27/10/1963	0.0
28/10/1963	280.6
29/10/1963	0.0
30/10/1963	0.0
31/10/1963	279.9
1/11/1963	67.5
2/11/1963	0.0
3/11/1963	13.4
4/11/1963	0.0
5/11/1963	0.0
6/11/1963	0.0
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8/11/1963	0.0
9/11/1963	0.0
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13/11/1963	0.0
14/11/1963	22.7
15/11/1963	0.0
16/11/1963	0.0
17/11/1963	0.0
18/11/1963	0.0
19/11/1963	0.0
20/11/1963	229.8
21/11/1963	0.0
22/11/1963	0.0
23/11/1963	0.0
24/11/1963	20.7
25/11/1963	173.7
26/11/1963	138.6
27/11/1963	0.0
28/11/1963	0.0
29/11/1963	0.0
30/11/1963	0.0
1/12/1963	0.0
2/12/1963	0.0
3/12/1963	0.0
4/12/1963	0.0
5/12/1963	0.0
6/12/1963	51.4
7/12/1963	1770.4
8/12/1963	1139.9

9/12/1963	155.3
10/12/1963	208.7
11/12/1963	0.0
12/12/1963	825.0
13/12/1963	1273.1
14/12/1963	37.7
15/12/1963	0.0
16/12/1963	860.0
17/12/1963	55.4
18/12/1963	237.8
19/12/1963	0.0
20/12/1963	0.0
21/12/1963	0.0
22/12/1963	0.0
23/12/1963	402.8
24/12/1963	22.7
25/12/1963	0.0
26/12/1963	0.0
27/12/1963	195.4
28/12/1963	0.0
29/12/1963	0.0
30/12/1963	357.0
31/12/1963	0.0
1/01/1964	0.0
2/01/1964	0.0
3/01/1964	0.0
4/01/1964	0.0
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6/01/1964	0.0
7/01/1964	0.0
8/01/1964	0.0
9/01/1964	0.0
10/01/1964	0.0
11/01/1964	0.0
12/01/1964	0.0
13/01/1964	205.0
14/01/1964	69.4
15/01/1964	0.0
16/01/1964	0.0
17/01/1964	0.0
18/01/1964	0.0
19/01/1964	0.0
20/01/1964	0.0
21/01/1964	0.0
22/01/1964	0.0
23/01/1964	0.0
24/01/1964	0.0
25/01/1964	0.0
26/01/1964	187.0
27/01/1964	0.0
28/01/1964	0.0
29/01/1964	0.0
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8/02/1964	26.0
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28/08/1964	51.4
29/08/1964	34.4



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26/10/1964	0.0
27/10/1964	0.0
28/10/1964	0.0
29/10/1964	170.3
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31/01/1965	50.7
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13/02/1965	0.0
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25/06/1965	296.9
26/06/1965	959.2
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28/06/1965	106.2
29/06/1965	735.8
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12/07/1965	0.0
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15/07/1965	0.0
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17/07/1965	854.7
18/07/1965	705.0
19/07/1965	166.7
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22/08/1965	0.0
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27/08/1965	0.0
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29/08/1965	0.0
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2/09/1965	293.3
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4/09/1965	0.0

5/09/1965	0.0
6/09/1965	341.6
7/09/1965	66.5
8/09/1965	0.0
9/09/1965	172.3
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11/09/1965	72.8
12/09/1965	0.0
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27/11/1965	148.6
28/11/1965	311.0
29/11/1965	23.7
30/11/1965	67.4
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2/12/1965	0.0
3/12/1965	0.0
4/12/1965	0.0
5/12/1965	206.0
6/12/1965	601.5
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8/12/1965	0.0
9/12/1965	59.8
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30/01/1966	87.1
31/01/1966	0.0
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4/02/1966	201.1
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6/02/1966	0.0
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15/02/1966	511.7
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18/02/1966	997.7
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18/03/1966	517.4
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3/03/1968	0.0
4/03/1968	14.4
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7/03/1968	258.1
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27/12/1968	0.0
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8/02/1969	77.8
9/02/1969	1584.4
10/02/1969	1625.2
11/02/1969	1863.7
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30/05/1969	30.4
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4/06/1969	99.8
5/06/1969	593.5
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22/08/1969	455.2
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25/08/1969	211.8
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3/09/1969	0.0
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11/11/1969	0.0
12/11/1969	727.7
13/11/1969	1594.8
14/11/1969	2785.5
15/11/1969	224.4
16/11/1969	463.4
17/11/1969	88.4
18/11/1969	89.2
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7/01/1970	145.0
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11/01/1970	713.1

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16/01/1970	0.0
17/01/1970	0.0
18/01/1970	407.1
19/01/1970	71.5
20/01/1970	34.7
21/01/1970	259.2
22/01/1970	185.0
23/01/1970	0.0
24/01/1970	0.0
25/01/1970	0.0
26/01/1970	224.8
27/01/1970	65.8
28/01/1970	874.0
29/01/1970	2.3
30/01/1970	117.2
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2/02/1970	37.4
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23/02/1970	174.3
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26/02/1970	69.1
27/02/1970	119.6
28/02/1970	829.3
1/03/1970	28.7
2/03/1970	474.9
3/03/1970	11.4
4/03/1970	0.0
5/03/1970	0.0

6/03/1970	513.3
7/03/1970	3.0
8/03/1970	0.0
9/03/1970	0.0
10/03/1970	0.0
11/03/1970	0.0
12/03/1970	0.0
13/03/1970	0.0
14/03/1970	0.0
15/03/1970	49.7
16/03/1970	1817.2
17/03/1970	0.0
18/03/1970	0.0
19/03/1970	438.8
20/03/1970	461.6
21/03/1970	0.0
22/03/1970	0.0
23/03/1970	0.0
24/03/1970	13.0
25/03/1970	0.0
26/03/1970	0.0
27/03/1970	0.0
28/03/1970	0.0
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30/03/1970	803.5
31/03/1970	800.2
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2/04/1970	0.0
3/04/1970	0.0
4/04/1970	0.0
5/04/1970	0.0
6/04/1970	0.0
7/04/1970	0.0
8/04/1970	241.5
9/04/1970	53.1
10/04/1970	0.0
11/04/1970	0.0
12/04/1970	0.0
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19/04/1970	0.0
20/04/1970	0.0
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23/04/1970	640.6
24/04/1970	49.8
25/04/1970	0.0
26/04/1970	0.0
27/04/1970	0.0

28/04/1970	0.0
29/04/1970	0.0
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3/05/1970	0.0
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5/05/1970	0.0
6/05/1970	0.0
7/05/1970	0.0
8/05/1970	0.0
9/05/1970	0.0
10/05/1970	0.0
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15/05/1970	190.4
16/05/1970	0.0
17/05/1970	0.0
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31/05/1970	0.0
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3/06/1970	212.7
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5/06/1970	0.0
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7/06/1970	662.3
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18/06/1970	0.0
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28/07/1970	0.0
29/07/1970	0.0
30/07/1970	0.0
31/07/1970	0.0
1/08/1970	174.3
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3/08/1970	0.0
4/08/1970	0.0
5/08/1970	0.0
6/08/1970	0.0
7/08/1970	334.6
8/08/1970	136.6
9/08/1970	0.0
10/08/1970	0.0
11/08/1970	0.0

12/08/1970	0.0
13/08/1970	0.0
14/08/1970	0.0
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20/08/1970	0.0
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2/09/1970	979.3
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12/09/1970	0.0
13/09/1970	7.3
14/09/1970	2.3
15/09/1970	104.9
16/09/1970	0.0
17/09/1970	0.0
18/09/1970	0.0
19/09/1970	127.9
20/09/1970	130.6
21/09/1970	44.1
22/09/1970	82.8
23/09/1970	105.9
24/09/1970	401.4
25/09/1970	46.1
26/09/1970	0.0
27/09/1970	496.3
28/09/1970	97.9
29/09/1970	128.6
30/09/1970	0.0
1/10/1970	0.0
2/10/1970	0.0
3/10/1970	0.0

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11/10/1970	238.4
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13/10/1970	0.0
14/10/1970	0.0
15/10/1970	0.0
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18/10/1970	47.8
19/10/1970	0.0
20/10/1970	69.4
21/10/1970	0.0
22/10/1970	0.0
23/10/1970	0.0
24/10/1970	13.4
25/10/1970	0.0
26/10/1970	13.7
27/10/1970	0.0
28/10/1970	0.0
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3/11/1970	0.0
4/11/1970	0.0
5/11/1970	0.0
6/11/1970	619.2
7/11/1970	7.3
8/11/1970	471.6
9/11/1970	0.0
10/11/1970	0.0
11/11/1970	908.4
12/11/1970	0.0
13/11/1970	0.0
14/11/1970	0.0
15/11/1970	96.8
16/11/1970	44.2
17/11/1970	4.7
18/11/1970	21.7
19/11/1970	0.0
20/11/1970	5.3
21/11/1970	530.4
22/11/1970	0.0
23/11/1970	0.0
24/11/1970	334.3
25/11/1970	0.0

26/11/1970	697.1
27/11/1970	0.0
28/11/1970	0.0
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4/12/1970	0.0
5/12/1970	76.8
6/12/1970	0.0
7/12/1970	60.5
8/12/1970	3774.8
9/12/1970	1132.9
10/12/1970	16.0
11/12/1970	93.9
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25/12/1970	0.0
26/12/1970	0.0
27/12/1970	784.8
28/12/1970	385.4
29/12/1970	873.1
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31/12/1970	0.0
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2/01/1971	0.0
3/01/1971	271.9
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5/01/1971	93.9
6/01/1971	0.0
7/01/1971	0.0
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13/01/1971	0.0
14/01/1971	0.0
15/01/1971	0.0
16/01/1971	0.0
17/01/1971	0.0

18/01/1971	0.0
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20/01/1971	283.2
21/01/1971	114.2
22/01/1971	0.0
23/01/1971	9.0
24/01/1971	0.0
25/01/1971	0.0
26/01/1971	0.0
27/01/1971	0.0
28/01/1971	73.8
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30/01/1971	1.7
31/01/1971	2799.2
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2/02/1971	0.0
3/02/1971	0.0
4/02/1971	689.7
5/02/1971	155.0
6/02/1971	30.7
7/02/1971	11.4
8/02/1971	114.2
9/02/1971	0.0
10/02/1971	588.8
11/02/1971	133.2
12/02/1971	9.0
13/02/1971	0.0
14/02/1971	0.0
15/02/1971	0.0
16/02/1971	0.0
17/02/1971	167.1
18/02/1971	44.0
19/02/1971	53.1
20/02/1971	315.0
21/02/1971	0.0
22/02/1971	0.0
23/02/1971	2.3
24/02/1971	113.2
25/02/1971	4.7
26/02/1971	0.0
27/02/1971	81.8
28/02/1971	64.1
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2/03/1971	209.8
3/03/1971	325.7
4/03/1971	0.0
5/03/1971	61.5
6/03/1971	0.0
7/03/1971	464.9
8/03/1971	113.2
9/03/1971	0.0
10/03/1971	0.0
11/03/1971	0.0

12/03/1971	0.0
13/03/1971	0.0
14/03/1971	0.0
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16/03/1971	0.0
17/03/1971	0.0
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26/03/1971	0.0
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28/03/1971	59.8
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3/04/1971	0.0
4/04/1971	0.0
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8/04/1971	0.0
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12/04/1971	332.7
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15/04/1971	0.0
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18/04/1971	144.6
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22/04/1971	0.0
23/04/1971	0.0
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2/05/1971	0.0
3/05/1971	0.0

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16/05/1971	0.0
17/05/1971	0.0
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19/05/1971	0.0
20/05/1971	26.4
21/05/1971	533.7
22/05/1971	1720.0
23/05/1971	0.0
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31/05/1971	0.0
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3/06/1971	3.4
4/06/1971	144.6
5/06/1971	132.9
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7/06/1971	0.0
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11/06/1971	0.0
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14/06/1971	555.4
15/06/1971	890.3
16/06/1971	137.3
17/06/1971	9.4
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8/07/1971	0.0
9/07/1971	0.0
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11/07/1971	0.0
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16/07/1971	17.4
17/07/1971	0.0
18/07/1971	9.0
19/07/1971	0.0
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26/07/1971	0.0
27/07/1971	0.0
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29/07/1971	0.0
30/07/1971	0.0
31/07/1971	42.8
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6/08/1971	543.4
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17/08/1971	0.0



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22/08/1971	567.8
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11/09/1971	0.0
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16/09/1971	624.2
17/09/1971	0.0
18/09/1971	0.0
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20/09/1971	17.0
21/09/1971	226.1
22/09/1971	0.0
23/09/1971	0.0
24/09/1971	0.0
25/09/1971	76.8
26/09/1971	0.0
27/09/1971	0.0
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3/11/1971	0.0
4/11/1971	0.0
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6/11/1971	6.7
7/11/1971	346.7
8/11/1971	0.0
9/11/1971	4.3
10/11/1971	0.0
11/11/1971	0.0
12/11/1971	0.0
13/11/1971	59.8
14/11/1971	113.9
15/11/1971	969.6
16/11/1971	46.4
17/11/1971	9.0
18/11/1971	0.0
19/11/1971	0.0
20/11/1971	93.8
21/11/1971	0.0
22/11/1971	0.0
23/11/1971	0.0
24/11/1971	0.0
25/11/1971	0.0
26/11/1971	0.0
27/11/1971	0.0
28/11/1971	30.4
29/11/1971	199.7
30/11/1971	144.6
1/12/1971	0.0

2/12/1971	0.0
3/12/1971	0.0
4/12/1971	0.0
5/12/1971	0.0
6/12/1971	174.3
7/12/1971	1551.7
8/12/1971	786.6
9/12/1971	0.0
10/12/1971	0.0
11/12/1971	0.0
12/12/1971	0.0
13/12/1971	0.0
14/12/1971	472.6
15/12/1971	50.4
16/12/1971	123.4
17/12/1971	0.0
18/12/1971	0.0
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20/12/1971	0.0
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22/12/1971	0.0
23/12/1971	0.0
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25/12/1971	44.4
26/12/1971	219.4
27/12/1971	167.3
28/12/1971	44.6
29/12/1971	0.0
30/12/1971	0.0
31/12/1971	0.0
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2/01/1972	0.0
3/01/1972	0.0
4/01/1972	0.0
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6/01/1972	667.3
7/01/1972	0.0
8/01/1972	0.0
9/01/1972	0.0
10/01/1972	0.0
11/01/1972	0.0
12/01/1972	496.3
13/01/1972	1358.3
14/01/1972	2662.2
15/01/1972	1071.4
16/01/1972	329.3
17/01/1972	885.4
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19/01/1972	0.0
20/01/1972	0.0
21/01/1972	0.0
22/01/1972	337.3
23/01/1972	0.0

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27/01/1972	0.0
28/01/1972	38.1
29/01/1972	0.0
30/01/1972	0.0
31/01/1972	0.0
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2/02/1972	0.0
3/02/1972	37.7
4/02/1972	0.0
5/02/1972	428.9
6/02/1972	286.1
7/02/1972	0.0
8/02/1972	0.0
9/02/1972	42.7
10/02/1972	28.7
11/02/1972	57.4
12/02/1972	9.0
13/02/1972	0.0
14/02/1972	0.0
15/02/1972	0.0
16/02/1972	0.0
17/02/1972	757.6
18/02/1972	0.0
19/02/1972	0.0
20/02/1972	632.6
21/02/1972	145.0
22/02/1972	0.0
23/02/1972	0.0
24/02/1972	0.0
25/02/1972	0.0
26/02/1972	46.0
27/02/1972	22.0
28/02/1972	85.1
29/02/1972	199.7
1/03/1972	0.0
2/03/1972	118.9
3/03/1972	127.9
4/03/1972	19.4
5/03/1972	1199.3
6/03/1972	1647.9
7/03/1972	1244.7
8/03/1972	140.9
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22/05/1972	0.0
23/05/1972	0.0
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26/05/1972	0.0
27/05/1972	145.6
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14/10/1972	0.0



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27/10/1972	465.6
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29/10/1972	1274.1
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6/02/1973	0.0
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8/02/1973	648.3
9/02/1973	190.0
10/02/1973	798.2
11/02/1973	762.5
12/02/1973	218.8
13/02/1973	0.0
14/02/1973	501.0
15/02/1973	308.9
16/02/1973	409.8
17/02/1973	180.3
18/02/1973	222.8
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21/02/1973	0.0
22/02/1973	98.5
23/02/1973	1494.5
24/02/1973	0.0
25/02/1973	636.9
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27/02/1973	0.0
28/02/1973	148.6
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22/03/1973	384.1

23/03/1973	168.3
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23/11/1973	0.0
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18/02/1974	518.4
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17/03/1974	247.5
18/03/1974	502.3
19/03/1974	433.7
20/03/1974	0.0
21/03/1974	40.7
22/03/1974	452.9
23/03/1974	1047.3
24/03/1974	195.4
25/03/1974	124.5
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3/04/1974	0.0
4/04/1974	293.9
5/04/1974	46.4
6/04/1974	0.0
7/04/1974	50.1
8/04/1974	0.0
9/04/1974	122.5
10/04/1974	1083.1
11/04/1974	285.5
12/04/1974	509.6
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14/04/1974	53.4
15/04/1974	0.0
16/04/1974	0.0
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18/04/1974	0.0
19/04/1974	224.1
20/04/1974	1125.5
21/04/1974	120.6
22/04/1974	0.0
23/04/1974	104.7
24/04/1974	78.2
25/04/1974	0.0
26/04/1974	0.0
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3/05/1974	567.8
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26/05/1974	1004.9
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2/06/1974	86.5
3/06/1974	114.9
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5/06/1974	548.4
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7/06/1974	0.0
8/06/1974	0.0
9/06/1974	0.0
10/06/1974	396.5
11/06/1974	945.6
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27/02/1975	589.8
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16/04/1975	451.7
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17/06/1975	873.0
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22/06/1975	18.7
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28/09/1975	33.4
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19/10/1975	0.0
20/10/1975	467.9
21/10/1975	0.0
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8/01/1976	0.0
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1/02/1976	227.8
2/02/1976	135.3
3/02/1976	246.8
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6/02/1976	325.3
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8/04/1976	29.7



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21/09/1976	655.0
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24/10/1976	0.0
25/10/1976	181.7
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27/10/1976	0.0
28/10/1976	0.0
29/10/1976	0.0
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27/01/1978	295.9
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13/07/1982	194.4
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16/07/1982	404.8
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18/07/1982	0.0
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24/04/1985	779.5
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26/04/1985	404.8
27/04/1985	804.2
28/04/1985	880.7
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3/05/1985	327.3
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22/05/1985	97.8
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25/10/1985	646.6
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30/05/1988	0.0
31/05/1988	43.7
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21/11/1988	35.4
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27/02/1989	441.5
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13/04/1989	628.4
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23/04/1989	607.5
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9/01/1990	731.7
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16/07/1998	0.0
17/07/1998	0.0
18/07/1998	453.6
19/07/1998	0.0
20/07/1998	124.2
21/07/1998	283.2
22/07/1998	0.0
23/07/1998	67.1
24/07/1998	203.7
25/07/1998	284.9
26/07/1998	529.0
27/07/1998	120.6
28/07/1998	0.0
29/07/1998	0.0
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2/08/1998	0.0
3/08/1998	0.0
4/08/1998	0.0
5/08/1998	265.8
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7/08/1998	5533.3
8/08/1998	960.6
9/08/1998	0.0
10/08/1998	0.0
11/08/1998	0.0
12/08/1998	0.0
13/08/1998	0.0

14/08/1998	0.0
15/08/1998	937.1
16/08/1998	864.0
17/08/1998	1265.1
18/08/1998	228.5
19/08/1998	673.3
20/08/1998	0.3
21/08/1998	11.3
22/08/1998	161.6
23/08/1998	0.0
24/08/1998	0.0
25/08/1998	74.1
26/08/1998	165.7
27/08/1998	92.2
28/08/1998	14.0
29/08/1998	0.0
30/08/1998	0.0
31/08/1998	0.0
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2/09/1998	0.0
3/09/1998	0.0
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7/09/1998	0.0
8/09/1998	0.0
9/09/1998	55.1
10/09/1998	0.0
11/09/1998	61.5
12/09/1998	133.6
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15/09/1998	0.0
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2/11/1998	5.6
3/11/1998	0.0
4/11/1998	0.0
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8/11/1998	98.9
9/11/1998	0.0
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21/11/1998	0.0
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24/11/1998	106.9
25/11/1998	242.1
26/11/1998	132.9
27/11/1998	0.0

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16/01/1999	0.0
17/01/1999	0.0
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22/01/1999	866.7
23/01/1999	440.8
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26/01/1999	0.0
27/01/1999	224.8
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29/01/1999	0.0
30/01/1999	198.4
31/01/1999	0.0
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9/02/1999	531.4
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3/08/1999	0.0
4/08/1999	0.0
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3/01/2000	0.0
4/01/2000	0.0
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8/01/2000	11.0
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3/03/2000	0.0
4/03/2000	0.0
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8/03/2000	1874.6
9/03/2000	595.9
10/03/2000	127.6
11/03/2000	662.7
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13/03/2000	0.0
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16/03/2000	0.0
17/03/2000	0.0
18/03/2000	0.0

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21/03/2000	952.2
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23/03/2000	133.6
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2/04/2000	190.0
3/04/2000	0.0
4/04/2000	315.6
5/04/2000	195.4
6/04/2000	37.7
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16/11/2000	572.8
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17/02/2001	0.0
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28/02/2001	717.7
1/03/2001	2.3
2/03/2001	521.0
3/03/2001	136.9
4/03/2001	0.0
5/03/2001	124.9
6/03/2001	404.5
7/03/2001	71.8
8/03/2001	0.0
9/03/2001	41.8
10/03/2001	13.7
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7/05/2001	935.8
8/05/2001	1867.3
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25/05/2001	0.0
26/05/2001	0.0
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29/05/2001	1940.8
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2/03/2002	0.0
3/03/2002	0.0
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27/03/2002	0.0
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16/05/2002	152.6
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25/05/2002	269.9
26/05/2002	91.1
27/05/2002	0.0
28/05/2002	481.3
29/05/2002	0.0
30/05/2002	225.8
31/05/2002	0.0
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14/08/2004	0.0
15/08/2004	0.0
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17/08/2004	1925.7
18/08/2004	1643.9
19/08/2004	0.0
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31/08/2004	0.0
1/09/2004	123.2
2/09/2004	212.4
3/09/2004	0.0
4/09/2004	66.8
5/09/2004	507.0
6/09/2004	0.0
7/09/2004	220.4
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27/09/2004	0.0
28/09/2004	68.5
29/09/2004	263.8
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2/10/2004	47.4
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20/10/2004	653.0
21/10/2004	1033.0
22/10/2004	153.3
23/10/2004	0.0
24/10/2004	555.4
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3/11/2004	0.0
4/11/2004	71.5
5/11/2004	229.1
6/11/2004	0.0
7/11/2004	0.0
8/11/2004	117.6

9/11/2004	55.4
10/11/2004	0.0
11/11/2004	920.2
12/11/2004	0.0
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21/11/2005	34.4
22/11/2005	0.0
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25/11/2005	176.7
26/11/2005	195.1
27/11/2005	789.6
28/11/2005	501.3
29/11/2005	814.0
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2/12/2005	509.7
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4/01/2006	0.0
5/01/2006	277.2
6/01/2006	165.3

7/01/2006	70.1
8/01/2006	0.0
9/01/2006	31.1
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11/01/2006	429.5
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15/01/2006	196.0
16/01/2006	801.5
17/01/2006	347.7
18/01/2006	138.9
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20/01/2006	0.0
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22/01/2006	0.0
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27/01/2006	0.0
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22/03/2006	182.0
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16/05/2006	0.0
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3/06/2006	0.0
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5/06/2006	1597.8
6/06/2006	1087.8
7/06/2006	0.0
8/06/2006	0.0
9/06/2006	338.0
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21/07/2006	272.2
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23/07/2006	0.0
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6/09/2006	1387.7
7/09/2006	1473.9
8/09/2006	0.0
9/09/2006	893.7
10/09/2006	525.7
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2/11/2007	234.8
3/11/2007	973.5
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5/11/2007	0.0
6/11/2007	481.6
7/11/2007	59.8
8/11/2007	495.0
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4/12/2007	61.5
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2/02/2008	40.7
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9/02/2008	548.7
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9/04/2008	346.0
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5/06/2008	645.3
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31/08/2008	352.3
1/09/2008	0.0
2/09/2008	0.0
3/09/2008	0.0
4/09/2008	0.7
5/09/2008	700.7
6/09/2008	1506.6
7/09/2008	0.0
8/09/2008	0.0
9/09/2008	0.0
10/09/2008	0.0
11/09/2008	0.0
12/09/2008	0.0
13/09/2008	0.0
14/09/2008	219.4
15/09/2008	0.0
16/09/2008	0.0
17/09/2008	0.0
18/09/2008	0.0
19/09/2008	0.0
20/09/2008	0.0
21/09/2008	0.0
22/09/2008	0.0
23/09/2008	120.9
24/09/2008	0.0
25/09/2008	0.0
26/09/2008	0.0
27/09/2008	0.0
28/09/2008	0.0
29/09/2008	0.0
30/09/2008	0.0
1/10/2008	0.0
2/10/2008	0.0
3/10/2008	2.0
4/10/2008	351.0
5/10/2008	0.0
6/10/2008	20.7
7/10/2008	0.0
8/10/2008	0.0
9/10/2008	0.0



10/10/2008	0.0
11/10/2008	0.0
12/10/2008	0.0
13/10/2008	0.0
14/10/2008	276.9
15/10/2008	0.0
16/10/2008	0.0
17/10/2008	0.0
18/10/2008	0.0
19/10/2008	0.0
20/10/2008	15.0
21/10/2008	0.0
22/10/2008	673.0
23/10/2008	136.6
24/10/2008	0.0
25/10/2008	0.0
26/10/2008	0.0
27/10/2008	0.0
28/10/2008	0.0
29/10/2008	381.7
30/10/2008	0.7
31/10/2008	0.0
1/11/2008	6.0
2/11/2008	0.0
3/11/2008	52.4
4/11/2008	0.0
5/11/2008	0.0
6/11/2008	0.0
7/11/2008	0.0
8/11/2008	0.0
9/11/2008	0.0
10/11/2008	0.0
11/11/2008	0.0
12/11/2008	0.0
13/11/2008	0.0
14/11/2008	107.9
15/11/2008	79.5
16/11/2008	0.0
17/11/2008	0.0
18/11/2008	0.0
19/11/2008	762.5
20/11/2008	8.3
21/11/2008	0.0
22/11/2008	0.0
23/11/2008	48.8
24/11/2008	0.0
25/11/2008	0.0
26/11/2008	0.0
27/11/2008	0.0
28/11/2008	230.8
29/11/2008	432.5
30/11/2008	0.0
1/12/2008	0.0

2/12/2008	0.0
3/12/2008	0.0
4/12/2008	0.0
5/12/2008	0.0
6/12/2008	0.0
7/12/2008	60.5
8/12/2008	133.3
9/12/2008	0.0
10/12/2008	41.4
11/12/2008	20.3
12/12/2008	988.9
13/12/2008	0.0
14/12/2008	0.0
15/12/2008	0.0
16/12/2008	0.0
17/12/2008	0.0
18/12/2008	0.0
19/12/2008	0.0
20/12/2008	0.0
21/12/2008	0.0
22/12/2008	0.0
23/12/2008	0.0
24/12/2008	0.0
25/12/2008	0.0
26/12/2008	0.0
27/12/2008	186.7
28/12/2008	0.0
29/12/2008	0.0
30/12/2008	20.0
31/12/2008	0.0
1/01/2009	0.0
2/01/2009	0.0
3/01/2009	0.0
4/01/2009	0.0
5/01/2009	0.0
6/01/2009	0.0
7/01/2009	0.0
8/01/2009	0.0
9/01/2009	0.0
10/01/2009	0.0
11/01/2009	0.0
12/01/2009	0.0
13/01/2009	0.0
14/01/2009	0.0
15/01/2009	14.7
16/01/2009	0.0
17/01/2009	0.0
18/01/2009	0.0
19/01/2009	0.0
20/01/2009	0.0
21/01/2009	6.7
22/01/2009	0.0
23/01/2009	0.0

24/01/2009	0.0
25/01/2009	0.0
26/01/2009	238.8
27/01/2009	303.6
28/01/2009	0.0
29/01/2009	0.0
30/01/2009	0.0
31/01/2009	0.0
1/02/2009	0.0
2/02/2009	0.0
3/02/2009	0.0
4/02/2009	0.0
5/02/2009	0.0
6/02/2009	0.0
7/02/2009	0.0
8/02/2009	0.0
9/02/2009	2.3
10/02/2009	189.7
11/02/2009	4.3
12/02/2009	581.8
13/02/2009	571.1
14/02/2009	913.5
15/02/2009	400.1
16/02/2009	302.2
17/02/2009	42.8
18/02/2009	749.5
19/02/2009	0.0
20/02/2009	0.0
21/02/2009	26.0
22/02/2009	0.0
23/02/2009	0.0
24/02/2009	0.0
25/02/2009	0.0
26/02/2009	0.0
27/02/2009	0.0
28/02/2009	0.0
1/03/2009	0.0
2/03/2009	0.0
3/03/2009	0.0
4/03/2009	0.0
5/03/2009	0.0
6/03/2009	0.0
7/03/2009	0.0
8/03/2009	608.5
9/03/2009	574.1
10/03/2009	0.0
11/03/2009	0.0
12/03/2009	0.0
13/03/2009	0.0
14/03/2009	528.1
15/03/2009	0.0
16/03/2009	0.0
17/03/2009	0.0

18/03/2009	0.0
19/03/2009	0.0
20/03/2009	0.0
21/03/2009	0.0
22/03/2009	0.0
23/03/2009	0.0
24/03/2009	0.0
25/03/2009	7.3
26/03/2009	0.0
27/03/2009	0.0
28/03/2009	0.0
29/03/2009	0.0
30/03/2009	25.7
31/03/2009	594.8
1/04/2009	802.9
2/04/2009	242.5
3/04/2009	0.0
4/04/2009	54.1
5/04/2009	0.0
6/04/2009	0.0
7/04/2009	0.0
8/04/2009	0.0
9/04/2009	0.0
10/04/2009	0.0
11/04/2009	0.0
12/04/2009	0.0
13/04/2009	1263.5
14/04/2009	0.0
15/04/2009	0.0
16/04/2009	0.0
17/04/2009	0.0
18/04/2009	120.2
19/04/2009	564.1
20/04/2009	0.0
21/04/2009	99.9
22/04/2009	120.2
23/04/2009	0.0
24/04/2009	0.0
25/04/2009	0.0
26/04/2009	0.0
27/04/2009	0.0
28/04/2009	0.0
29/04/2009	80.5
30/04/2009	239.1
1/05/2009	0.0
2/05/2009	244.5
3/05/2009	117.6
4/05/2009	0.0
5/05/2009	2.3
6/05/2009	0.0
7/05/2009	0.0
8/05/2009	0.0
9/05/2009	0.0

10/05/2009	33.0
11/05/2009	0.0
12/05/2009	0.0
13/05/2009	0.0
14/05/2009	0.0
15/05/2009	0.0
16/05/2009	0.0
17/05/2009	0.0
18/05/2009	0.0
19/05/2009	355.3
20/05/2009	715.0
21/05/2009	224.7
22/05/2009	614.2
23/05/2009	59.8
24/05/2009	0.0
25/05/2009	0.0
26/05/2009	0.0
27/05/2009	81.5
28/05/2009	0.0
29/05/2009	387.7
30/05/2009	381.4
31/05/2009	0.0
1/06/2009	0.0
2/06/2009	54.1
3/06/2009	480.6
4/06/2009	0.0
5/06/2009	0.0
6/06/2009	0.0
7/06/2009	0.0
8/06/2009	0.0
9/06/2009	0.0
10/06/2009	0.0
11/06/2009	0.0
12/06/2009	0.0
13/06/2009	0.0
14/06/2009	0.0
15/06/2009	0.0
16/06/2009	341.0
17/06/2009	757.5
18/06/2009	844.4
19/06/2009	0.0
20/06/2009	708.3
21/06/2009	61.8
22/06/2009	261.2
23/06/2009	0.0
24/06/2009	0.0
25/06/2009	0.0
26/06/2009	0.0
27/06/2009	0.0
28/06/2009	44.4
29/06/2009	0.0
30/06/2009	0.0
1/07/2009	0.0

2/07/2009	0.0
3/07/2009	0.0
4/07/2009	0.0
5/07/2009	0.0
6/07/2009	0.0
7/07/2009	43.1
8/07/2009	436.5
9/07/2009	240.5
10/07/2009	113.2
11/07/2009	0.0
12/07/2009	0.0
13/07/2009	0.0
14/07/2009	0.0
15/07/2009	0.0
16/07/2009	147.3
17/07/2009	14.0
18/07/2009	0.0
19/07/2009	0.0
20/07/2009	0.0
21/07/2009	0.0
22/07/2009	79.8
23/07/2009	0.0
24/07/2009	0.0
25/07/2009	0.0
26/07/2009	360.1
27/07/2009	0.0
28/07/2009	0.0
29/07/2009	0.0
30/07/2009	0.0
31/07/2009	0.0
1/08/2009	0.0
2/08/2009	0.0
3/08/2009	0.0
4/08/2009	0.0
5/08/2009	0.0
6/08/2009	0.0
7/08/2009	0.0
8/08/2009	0.0
9/08/2009	0.0
10/08/2009	0.0
11/08/2009	94.2
12/08/2009	0.0
13/08/2009	0.0
14/08/2009	0.0
15/08/2009	0.0
16/08/2009	0.0
17/08/2009	0.0
18/08/2009	0.0
19/08/2009	0.0
20/08/2009	0.0
21/08/2009	0.0
22/08/2009	0.0
23/08/2009	0.0

24/08/2009	14.4
25/08/2009	0.0
26/08/2009	0.0
27/08/2009	0.0
28/08/2009	0.0
29/08/2009	0.0
30/08/2009	0.0
31/08/2009	0.0
1/09/2009	0.0
2/09/2009	0.0
3/09/2009	127.9
4/09/2009	0.0
5/09/2009	0.0
6/09/2009	0.0
7/09/2009	140.6
8/09/2009	0.0
9/09/2009	0.0
10/09/2009	0.0
11/09/2009	0.0
12/09/2009	0.0
13/09/2009	0.0
14/09/2009	0.0
15/09/2009	0.0
16/09/2009	0.0
17/09/2009	0.0
18/09/2009	0.0
19/09/2009	0.0
20/09/2009	0.0
21/09/2009	0.0
22/09/2009	93.9
23/09/2009	0.0
24/09/2009	0.0
25/09/2009	0.0
26/09/2009	0.0
27/09/2009	0.0
28/09/2009	0.0
29/09/2009	0.0
30/09/2009	0.0
1/10/2009	0.0
2/10/2009	288.9
3/10/2009	860.3
4/10/2009	255.1
5/10/2009	174.0
6/10/2009	166.3
7/10/2009	53.1
8/10/2009	0.0
9/10/2009	778.5
10/10/2009	0.0
11/10/2009	35.4
12/10/2009	0.0
13/10/2009	0.0
14/10/2009	0.0
15/10/2009	0.0

16/10/2009	0.0
17/10/2009	125.9
18/10/2009	80.5
19/10/2009	0.0
20/10/2009	0.0
21/10/2009	0.0
22/10/2009	0.0
23/10/2009	0.0
24/10/2009	0.0
25/10/2009	995.6
26/10/2009	817.9
27/10/2009	0.0
28/10/2009	0.0
29/10/2009	0.0
30/10/2009	0.0
31/10/2009	0.0
1/11/2009	0.0
2/11/2009	0.0
3/11/2009	0.0
4/11/2009	0.0
5/11/2009	0.3
6/11/2009	102.5
7/11/2009	0.0
8/11/2009	0.0
9/11/2009	0.0
10/11/2009	0.0
11/11/2009	0.0
12/11/2009	93.9
13/11/2009	0.0
14/11/2009	0.0
15/11/2009	0.0
16/11/2009	7.0
17/11/2009	0.0
18/11/2009	0.0
19/11/2009	0.0
20/11/2009	0.0
21/11/2009	0.0
22/11/2009	0.0
23/11/2009	0.0
24/11/2009	0.0
25/11/2009	0.0
26/11/2009	0.0
27/11/2009	0.0
28/11/2009	0.0
29/11/2009	0.0
30/11/2009	68.1
1/12/2009	11.4
2/12/2009	262.5
3/12/2009	0.0
4/12/2009	0.0
5/12/2009	0.0
6/12/2009	0.0
7/12/2009	0.0



8/12/2009	0.0
9/12/2009	0.0
10/12/2009	0.0
11/12/2009	0.0
12/12/2009	0.0
13/12/2009	0.0
14/12/2009	0.0
15/12/2009	0.0
16/12/2009	0.0
17/12/2009	13.7
18/12/2009	347.7
19/12/2009	0.0
20/12/2009	0.0
21/12/2009	0.0
22/12/2009	0.0
23/12/2009	0.0
24/12/2009	0.0
25/12/2009	324.0
26/12/2009	120.6
27/12/2009	7.7
28/12/2009	678.7
29/12/2009	0.0
30/12/2009	0.0
31/12/2009	0.0
1/01/2010	0.0
2/01/2010	158.3
3/01/2010	78.1
4/01/2010	0.0
5/01/2010	0.0
6/01/2010	0.0
7/01/2010	0.0
8/01/2010	0.0
9/01/2010	0.0
10/01/2010	0.0
11/01/2010	0.0
12/01/2010	0.0
13/01/2010	147.6
14/01/2010	214.1
15/01/2010	0.0
16/01/2010	0.0
17/01/2010	0.0
18/01/2010	0.0
19/01/2010	0.0
20/01/2010	0.0
21/01/2010	0.0
22/01/2010	0.0
23/01/2010	53.8
24/01/2010	89.5
25/01/2010	0.0
26/01/2010	0.0
27/01/2010	0.0
28/01/2010	40.7
29/01/2010	33.1

30/01/2010	0.0
31/01/2010	0.0
1/02/2010	0.0
2/02/2010	198.0
3/02/2010	535.0
4/02/2010	104.2
5/02/2010	640.6
6/02/2010	1633.8
7/02/2010	761.5
8/02/2010	1.0
9/02/2010	0.0
10/02/2010	0.0
11/02/2010	0.0
12/02/2010	1993.6
13/02/2010	211.7
14/02/2010	341.3
15/02/2010	176.0
16/02/2010	0.0
17/02/2010	0.0
18/02/2010	0.0
19/02/2010	0.0
20/02/2010	0.0
21/02/2010	0.0
22/02/2010	0.0
23/02/2010	0.0
24/02/2010	0.0
25/02/2010	0.0
26/02/2010	0.0
27/02/2010	0.0
28/02/2010	88.5
1/03/2010	261.9
2/03/2010	0.0
3/03/2010	0.0
4/03/2010	0.0
5/03/2010	409.8
6/03/2010	0.0
7/03/2010	0.0
8/03/2010	0.0
9/03/2010	0.0
10/03/2010	0.0
11/03/2010	0.0
12/03/2010	0.0
13/03/2010	148.6
14/03/2010	0.0
15/03/2010	0.0
16/03/2010	0.0
17/03/2010	0.0
18/03/2010	0.0
19/03/2010	0.0
20/03/2010	0.0
21/03/2010	0.0
22/03/2010	0.0
23/03/2010	0.0

24/03/2010	0.0
25/03/2010	0.0
26/03/2010	0.0
27/03/2010	0.0
28/03/2010	0.0
29/03/2010	0.0
30/03/2010	420.5
31/03/2010	77.8
1/04/2010	0.0
2/04/2010	0.0
3/04/2010	148.0
4/04/2010	38.1
5/04/2010	0.0
6/04/2010	0.0
7/04/2010	120.6
8/04/2010	81.5
9/04/2010	14.4
10/04/2010	0.0
11/04/2010	0.0
12/04/2010	0.0
13/04/2010	0.0
14/04/2010	0.0
15/04/2010	0.0
16/04/2010	0.0
17/04/2010	0.0
18/04/2010	0.0
19/04/2010	0.0
20/04/2010	0.0
21/04/2010	0.0
22/04/2010	0.0
23/04/2010	0.0
24/04/2010	0.3
25/04/2010	226.1
26/04/2010	0.0
27/04/2010	0.0
28/04/2010	0.0
29/04/2010	0.0
30/04/2010	14.0
1/05/2010	0.0
2/05/2010	0.0
3/05/2010	0.0
4/05/2010	0.0
5/05/2010	20.3
6/05/2010	0.0
7/05/2010	0.0
8/05/2010	0.0
9/05/2010	0.0
10/05/2010	0.0
11/05/2010	0.0
12/05/2010	0.0
13/05/2010	0.0
14/05/2010	0.0
15/05/2010	0.0

16/05/2010	0.0
17/05/2010	24.7
18/05/2010	1451.8
19/05/2010	198.7
20/05/2010	0.0
21/05/2010	423.8
22/05/2010	306.6
23/05/2010	387.1
24/05/2010	0.0
25/05/2010	5.6
26/05/2010	1001.6
27/05/2010	53.4
28/05/2010	0.0
29/05/2010	163.7
30/05/2010	0.0
31/05/2010	690.3
1/06/2010	79.5
2/06/2010	0.0
3/06/2010	867.0
4/06/2010	1849.9
5/06/2010	0.0
6/06/2010	103.5
7/06/2010	0.0
8/06/2010	0.0
9/06/2010	0.0
10/06/2010	0.0
11/06/2010	0.0
12/06/2010	0.0
13/06/2010	0.0
14/06/2010	0.0
15/06/2010	0.0
16/06/2010	0.0
17/06/2010	0.0
18/06/2010	0.0
19/06/2010	0.0
20/06/2010	0.0
21/06/2010	355.3
22/06/2010	0.0
23/06/2010	687.0
24/06/2010	0.0
25/06/2010	0.0
26/06/2010	0.0
27/06/2010	0.0
28/06/2010	0.0
29/06/2010	0.0
30/06/2010	0.0
1/07/2010	0.0
2/07/2010	0.0
3/07/2010	0.0
4/07/2010	0.0
5/07/2010	33.7
6/07/2010	72.8
7/07/2010	35.4

8/07/2010	680.7
9/07/2010	498.6
10/07/2010	0.0
11/07/2010	0.0
12/07/2010	0.0
13/07/2010	0.0
14/07/2010	0.0
15/07/2010	0.0
16/07/2010	0.0
17/07/2010	0.0
18/07/2010	0.0
19/07/2010	0.0
20/07/2010	106.9
21/07/2010	35.7
22/07/2010	0.0
23/07/2010	99.8
24/07/2010	0.0
25/07/2010	475.2
26/07/2010	55.1
27/07/2010	0.0
28/07/2010	853.4
29/07/2010	69.8
30/07/2010	0.0
31/07/2010	155.3
1/08/2010	0.0
2/08/2010	332.6
3/08/2010	146.6
4/08/2010	0.0
5/08/2010	0.0
6/08/2010	0.0
7/08/2010	0.0
8/08/2010	0.0
9/08/2010	0.0
10/08/2010	0.0
11/08/2010	0.0
12/08/2010	0.0
13/08/2010	0.0
14/08/2010	0.0
15/08/2010	0.0
16/08/2010	0.0
17/08/2010	0.0
18/08/2010	0.0
19/08/2010	0.0
20/08/2010	0.0
21/08/2010	0.0
22/08/2010	0.0
23/08/2010	0.0
24/08/2010	0.0
25/08/2010	0.0
26/08/2010	0.0
27/08/2010	0.0
28/08/2010	0.0
29/08/2010	0.0

30/08/2010

0.0

31/08/2010

0.0

Date	Storage used on site (m3)
10/08/1986	10344
9/08/1986	10328
8/08/1986	10264
7/08/1986	10212
6/08/1986	10018
9/11/1984	9401
8/11/1984	9369
4/02/1990	9101
5/08/1986	8356
28/03/1942	8306
23/11/1961	8054
22/11/1961	7907
21/11/1961	7751
20/11/1961	7615
10/02/1992	7602
22/06/1950	7133
30/04/1988	7124
3/02/1990	7115
9/02/1992	6994
21/06/1950	6986
20/06/1950	6717
11/02/1956	6657
8/08/1998	6626
19/06/1950	6622
7/08/1998	6577
18/06/1950	6435
27/03/1942	6427
10/02/1956	6340
9/07/1931	6196
17/06/1950	6064
8/07/1931	5919
16/06/1950	5855
7/07/1931	5853
19/04/1927	5734
11/04/1998	5230
9/02/1958	5170
10/04/1998	5116
19/11/1961	5092
23/06/1975	5039
18/04/1927	4933
5/10/1916	4903
12/03/1975	4855
11/03/1975	4744
22/06/1975	4673
21/06/1975	4657
25/01/1955	4584
11/06/1991	4513
4/10/1916	4504

14/05/1962	4501
10/03/1958	4468
24/01/1955	4465
10/05/1925	4387
1/05/1955	4382
6/07/1931	4319
17/05/1913	4304
16/05/1913	4296
10/03/1975	4252
28/04/1966	4205
15/06/1950	4181
2/02/1990	4172
27/04/1966	4129
23/01/1955	4094
17/01/1988	4091
4/03/1977	4068
2/02/1938	4051
15/05/1913	4049
9/01/1973	3988
1/02/1938	3951
13/06/1964	3844
13/05/1962	3826
12/06/1964	3822
31/01/1938	3813
8/01/1973	3805
11/01/1949	3655
14/05/1913	3590
10/06/1991	3539
28/07/1950	3526
10/01/1949	3486
25/03/1914	3478
18/04/1946	3473
24/03/1914	3431
27/07/1950	3354
17/02/1929	3334
16/02/1929	3288
23/03/1914	3275
30/04/1955	3219
15/02/1929	3217
14/02/1929	3211
18/11/1961	3201
9/03/1913	3190
8/02/1992	3187
18/11/1969	3180
26/07/1952	3140
16/01/1972	3132
17/11/1969	3103
26/07/1950	3102
22/08/1971	3099
8/02/1958	3086



## Appendix 11

---

Sydney Water trade Waste Approval

4 April 2017

Howard Richards  
Sell & Parker Pty Ltd  
45-55 Tattersall Rd  
KINGS PARK  
NSW 2148

Dear Howard,

**Re: 45-55 Tattersall Rd, Kings Park.**

**Application for consent to discharge industrial trade wastewater**

I am writing to advise that Sydney Water approves in principle to the discharge of contaminated surface water from this site. Formal approval is granted through the execution of an industrial trade waste consent, the granting of the consent is conditional on our inspection and approval of the proposed treatment plant.

If you require further information please contact John Zmijewski on 0419 273159.

Yours sincerely



**John Zmijewski**  
Business Customer Representative  
Developer and Business Customer Services

CICS0135 v1







**Application for Consent to Discharge Industrial Trade Wastewater**

Business Customer Services

ACCOUNT NUMBER AS PER SYDNEY WATER ACCOUNTS

4301 536 -

FULL NAME OF APPLICANT (BLOCK LETTERS)

SELL AND PARKER

ADDRESS OF THE BUSINESS WHERE DISCHARGE TO SEWER WILL OCCUR

45 Tattersall Road

TEL: 9621 2633

Kings Park NSW

POST CODE: 2148

FAX: 9622 8901

POSTAL ADDRESS FOR CORRESPONDENCE

TEL:

POST CODE:

FAX:

TRADING NAME OF THE BUSINESS AT THE PREMISES

Sell and Parker Pty Ltd.

AUSTRALIAN COMPANY NUMBER (ACN)

000 101 315

FULL NAME OF OCCUPIER IF OTHER THAN APPLICANT

N/A

FULL NAME OF CONTACT PERSON AT THE PREMISES

Howard Richards

TEL: 0419 277 431

POSITION IN COMPANY

Environment Manager

FAX: -

EMAIL ADDRESS

howardr@sellparker.com.au

EMERGENCY CONTACT PERSON OUT-OF-HOURS

Howard Richards

TEL: 0419 277 431

PRINCIPAL BUSINESS ACTIVITY

Scrap Metal Processing

PROCESSES GENERATING TRADE WASTEWATER

1. Enclosed site water collection
- 2.
- 3.
- 4.

(IF SPACE INSUFFICIENT - PLEASE ATTACH SEPARATE LIST)

OFFICE USE ONLY

PROCESS DESCRIPTION	CODE

NOTE: A DESCRIPTION OF THE GENERAL NATURE OF THE BUSINESS, INCLUDING DETAILS OF THE WASTEWATER CHARACTERISTICS MUST BE COMPLETED ON "APPENDIX C" OF THIS FORM. (MORE INFORMATION CAN BE FOUND UNDER "APPENDIX C" IN THE INFORMATION PACKAGE).

1. Does the property currently discharge trade wastewater to the sewer?  YES

NO

EXPECTED COMMENCEMENT DATE OF DISCHARGE

April 2017  
MONTH YEAR

2. Does the property have MORE than one connection to the sewer?  NO

YES

HOW MANY? \_\_\_\_\_

NOTE: A SEPARATE APPLICATION SHOULD BE COMPLETED FOR EACH TRADE WASTEWATER CONNECTION TO SYDNEY WATER'S SEWER

3. IS ANY OF THE TRADE WASTEWATER TREATED PRIOR TO DISCHARGE TO THE SEWER?

NO

DETAILS OF PROPOSED PRE-TREATMENT FACILITIES MUST BE ATTACHED AS "APPENDIX D". (REFER TO "APPENDIX D" IN THE INFORMATION PACKAGE)

YES

DETAILS OF EXISTING PRE-TREATMENT FACILITIES MUST BE ATTACHED AS "APPENDIX D". (REFER TO "APPENDIX D" IN THE INFORMATION PACKAGE)

4. GREASE TRAPS will need to be cleaned by a Contractor registered with Sydney Water's Wastesafe system. The frequency of cleaning will be determined by Sydney Water. Please provide details:

GREASE TRAP CLEANING CONTRACTOR

CONTRACTORS WASTESAFE NO  
T

N/A

5. Will the trade wastewater finally (ie. AFTER pre-treatment) be pumped to the sewer?  NO

YES

PUMP MANUFACTURER'S SPECIFICATION/BROCHURE MUST BE ATTACHED AS "APPENDIX E". (REFER TO "APPENDIX E" IN THE INFORMATION PACKAGE)

6. Is a WATER meter fitted to the premises?  NO A WATER METER WILL HAVE TO BE FITTED

YES, SUPPLY YOUR BUSINESS ONLY

HOW MANY METERS? \_\_\_\_\_

YES, SUPPLY BUSINESSES/RESIDENCES IN ADDITION TO YOURS

HOW MANY METERS? \_\_\_\_\_

List the serial number(s) stamped on the meter(s)

DGDJ0020

DGGC0047

7. Is ~~any~~ water OTHER than Sydney Water's supply being/be used on the premises (eg. Bore Water)?  NO



GIVE DETAILS

Site rainwater is captured

NOTE: FOR ASSISTANCE WITH QUESTIONS 8, 9 AND 10:

- A fully open tap will supply approximately 0.3 litres per second (or 1,000 litres per hour)
- As a guide, the MAXIMUM daily discharge is likely to be 20 percent (%) more than the AVERAGE figure

8. Estimate the MAXIMUM INSTANTANEOUS rate of discharge to the sewer 10 litres per second

9. Estimate the MAXIMUM DAILY discharge volume to the sewer 864,000 litres

10. Estimate the AVERAGE DAILY discharge volume to the sewer 2000 litres

Note: Sydney Water's Trade Waste Policy requires an approved flowmeter to be installed. For more information and publications on flow measurement guidelines, please visit the trade waste section of our website at [www.sydneywater.com.au](http://www.sydneywater.com.au)

11. Is a discharge FLOW METER installed?  YES  NO

12. What is the brand and model of the existing discharge or proposed discharge flow meter?

Brand	Model
ABB	FMS 150-TW

Note: Water meters have been found to be totally unsuitable for measuring the quantity of trade wastewater discharged and are not permitted for this purpose.

14. Are there any discharges to sewer, which can possibly contain rainwater?  NO

YES DETAILS MUST BE COMPLETED IN "APPENDIX F" (REFER TO "APPENDIX F" IN THE INFORMATION PACKAGE)

15. Hours when discharge of trade wastewater to sewer will occur?

Monday	: TO :	Thursday	: TO :	Saturday	: TO :
Tuesday	: TO :	Friday	: TO :	Sunday	: TO :
Wednesday	: TO :	After/Before rainfall events			

16. How many people are (or will be) employed at the premises?

(THIS ALLOWS SYDNEY WATER TO ESTIMATE THE VOLUME OF WATER USED FOR DOMESTIC PURPOSES)

30 People



17. Have you lodged a DEVELOPMENT APPLICATION with your Local Council?

YES


NO

18. Are you (The Applicant) the OWNER ~~MANAGING AGENT~~ for the property?

YES

NO

As the Owner/~~Managing Agent~~, I am aware of this Application and that this business will be (or is being) carried out on the property

SIGNATURE of OWNER <del>MANAGING AGENT</del>	PRINT NAME	DATE
	Luke Parker	3/2/16

Owner

Agency Stamp



Managing Agent

FULL NAME of APPLICANT (BLOCK LETTERS)	POSITION IN COMPANY
LUKE PARKER	Director

SIGNATURE of APPLICANT	DATE
	3/2/16

SIGNATURE of WITNESS	PRINT NAME (BLOCK LETTERS)
	HOWARD RICHARDS

**NOTE**

APPENDICES A to F, plus any other relevant Appendices, must be attached to this Application (REFER TO THE INFORMATION PACKAGE).

Appendix A Site plan

YES

NO

Appendix B Plan of any proposed drainage

YES

NO

see C

Appendix C Nature of processes of the business completed

YES

NO

Appendix D Details of existing and/or proposed pre-treatment equipment

YES

NO

Appendix E Pump specifications

YES

NO

Appendix F Details of any discharges to sewer that may contain rainwater

YES

NO

(Appendix C)

**NATURE OF BUSINESS**

INDUSTRIAL PROCESS (ES)

Receive scrap metal, process it - fragmentation - stockpile, then ship the products to various end users.

Only stored chemicals on site are fuels and lubricants.

Lab analysis of typical trade waste discharge quality attached.

**TABLE 1: SUBSTANCES**

Indicate, in milligrams per litre, the Average Concentration of all substances expected to be present in the trade wastewater discharge. Please also indicate (including the amount) any raw materials, products, chemicals or other goods, stored on site, which may contain the substances listed below.

SUBSTANCE	AVERAGE CONCENTRATION mg/L	TICK IF STORED	AMOUNT STORE Kg
Biochemical Oxygen Demand			
Suspended Solids			
Grease - Total			
Sulphate			
Ammonia			
Nitrogen			
Phosphorus			
Aluminium			
Arsenic			
Barium			
Benzene			
Biocides			
Boron			
Bromine			
Cadmium			
Chlorinated phenolics			
Chlorine			
Chromium			
Cobalt			
Copper			
Cyanide			
Flammable/Explosive Substances			
Fluoride			
Formaldehyde			
Herbicides and defoliant			
Iron			
Lead			



**OPEN AREA INFORMATION**

1. State why the Open Area CANNOT be roofed:

Operational scrap yard - not economically feasible.  
Area is too large.

2. State why the area is considered to be CONTAMINATED:

(ATTACH LETTER FROM ENVIRONMENT PROTECTION AUTHORITY OR COUNCIL TO VERIFY THIS)

Land is not considered as contaminated, it is not on the contaminated land register.

3.

- What is the length of the area? \_\_\_\_\_ metres
  - What is the width of the area? \_\_\_\_\_ metres
- OR What is the total area? 28,600 square metres

4. What **AUTOMATIC RAINWATER CONTROLS** are proposed?  
(provide details of "first flush" collection and bypass system)

Site is fully concreted.  
All rainwater and potable water that goes to ground is directed to the site retention pond. This water is reused for dust management and process cooling. During large rainfall events we have excess water which we need to discharge.

EPA have removed our licence condition that allowed discharge to local waterway.





Environmental

CERTIFICATE OF ANALYSIS

Work Order : ES1627267 Page : 1 of 6

Client : SELL AND PARKER Laboratory : Environmental Division Sydney  
 Contact : Howard Richards Contact : Customer Services ES  
 Address : BLACKTOWN NSW, AUSTRALIA Address : 277-289 Woodpark Road Smithfield NSW Australia 2164

Telephone : +61-2-8784 8555 Telephone : +61-2-8784 8555  
 Project : +61 02 96212633 Date Samples Received : 29-Nov-2016 12:00  
 Order number : TW MW REF Date Analysis Commenced : 29-Nov-2016  
 C-O-C number : Issue Date : 05-Dec-2016 17:44

Sampler : Howard Richards  
 Site :  
 Quote number :  
 No. of samples received : 1  
 No. of samples analysed : 1



Accreditation No. 825  
Accredited for compliance with  
ISO/IEC 17025 - testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

- This Certificate of Analysis contains the following information:
- General Comments
  - Analytical Results
  - Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	Position	Accreditation Category
Ankit Joshi	Inorganic Chemist	Sydney Inorganics, Smithfield, NSW
Pabi Subba	Senior Organic Chemist	Sydney Organics, Smithfield, NSW
Wisam Marassa	Inorganics Coordinator	Sydney Inorganics, Smithfield, NSW



Page : 2 of 6  
Work Order : ES1627267  
Client : SELL AND PARKER  
Project : TWMMW REF

### 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.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

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.

~ = Indicates an estimated value.







Page : 4 of 6  
 Work Order : ES1627267  
 Client : SELL AND PARKER  
 Project : TW MW REF

**Analytical Results**

Compound	CAS Number	Client sampling date / time		BT DM MW F 29 11 16
		LOR	Unit	
Sub-Matrix: WATER (Matrix: WATER)				
EG020J: Total Metals by ICP-MS - Continued				
Manganese	7439-96-5	0.001	mg/L	0.200
Neodymium	7440-00-8	0.001	mg/L	<0.001
Molybdenum	7439-98-7	0.001	mg/L	0.072
Praseodymium	7440-10-0	0.001	mg/L	<0.001
Nickel	7440-02-0	0.001	mg/L	0.024
Samarium	7440-19-9	0.001	mg/L	<0.001
Lead	7439-92-1	0.001	mg/L	0.075
Terbium	7440-27-9	0.001	mg/L	<0.001
Antimony	7440-36-0	0.001	mg/L	0.015
Thulium	7440-30-4	0.001	mg/L	<0.001
Selenium	7762-49-2	0.01	mg/L	<0.01
Ytterbium	7440-64-4	0.001	mg/L	<0.001
Tin	7440-31-5	0.001	mg/L	0.803
Yttrium	7440-65-5	0.001	mg/L	<0.001
Thallium	7440-28-0	0.001	mg/L	<0.001
Zinc	7440-67-7	0.005	mg/L	<0.005
Vanadium	7440-62-2	0.01	mg/L	<0.01
Zinc	7440-68-6	0.005	mg/L	0.323
Iron	7439-89-6	0.05	mg/L	2.75
EG035T: Total Recoverable Mercury by FIMS				
Mercury	7439-97-6	0.0001	mg/L	<0.0001
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser				
Nitrite + Nitrate as N		0.01	mg/L	0.03
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser				
Total Kjeldahl Nitrogen as N		0.1	mg/L	8.5
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser				
Total Nitrogen as N		0.1	mg/L	8.5
EK067G: Total Phosphorus as P by Discrete Analyser				
Total Phosphorus as P		0.01	mg/L	0.52
EP020: Oil and Grease (O&G)				
Oil & Grease		5	mg/L	9
EP030: Biochemical Oxygen Demand (BOD)				
Biochemical Oxygen Demand		2	mg/L	2
EP080/071: Total Petroleum Hydrocarbons				



Page : 5 of 6  
 Work Order : ES1627267  
 Client : SELL AND PARKER  
 Project : TWMW REF

**Analytical Results**

Sub-Matrix: WATER (Matrix: WATER)	Client sample ID	BT DM MWF 29 11 16	Result
Compound	CAS Number	Client sampling date / time	Unit
	LOR	ES1627267-001	
<b>EP080/071: Total Petroleum Hydrocarbons - Continued</b>			
C6 - C9 Fraction	20	<20	µg/L
C10 - C14 Fraction	50	<50	µg/L
C15 - C28 Fraction	100	530	µg/L
C29 - C36 Fraction	50	160	µg/L
^ C10 - C36 Fraction (sum)	50	690	µg/L
<b>EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b>			
C6 - C10 Fraction	C6_C10	20	µg/L
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L
>C10 - C16 Fraction		100	µg/L
>C16 - C34 Fraction		100	µg/L
>C34 - C40 Fraction		100	µg/L
^ >C10 - C40 Fraction (sum)		100	µg/L
^ >C10 - C16 Fraction minus Naphthalene (F2)		100	µg/L
<b>EP080: BTEXN</b>			
Benzene	71-43-2	1	µg/L
Toluene	108-88-3	2	µg/L
Ethylbenzene	100-41-4	2	µg/L
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L
ortho-Xylene	95-47-6	2	µg/L
^ Total Xylenes	1330-20-7	2	µg/L
^ Sum of BTEX		1	µg/L
Naphthalene	81-20-3	5	µg/L
<b>EP080S: TPH(N)/BTEX Surrogates</b>			
1,2-Dichloroethane-D4	17060-07-0	2	%
Toluene-D8	2037-28-5	2	%
4-Bromofluorobenzene	460-00-4	2	%

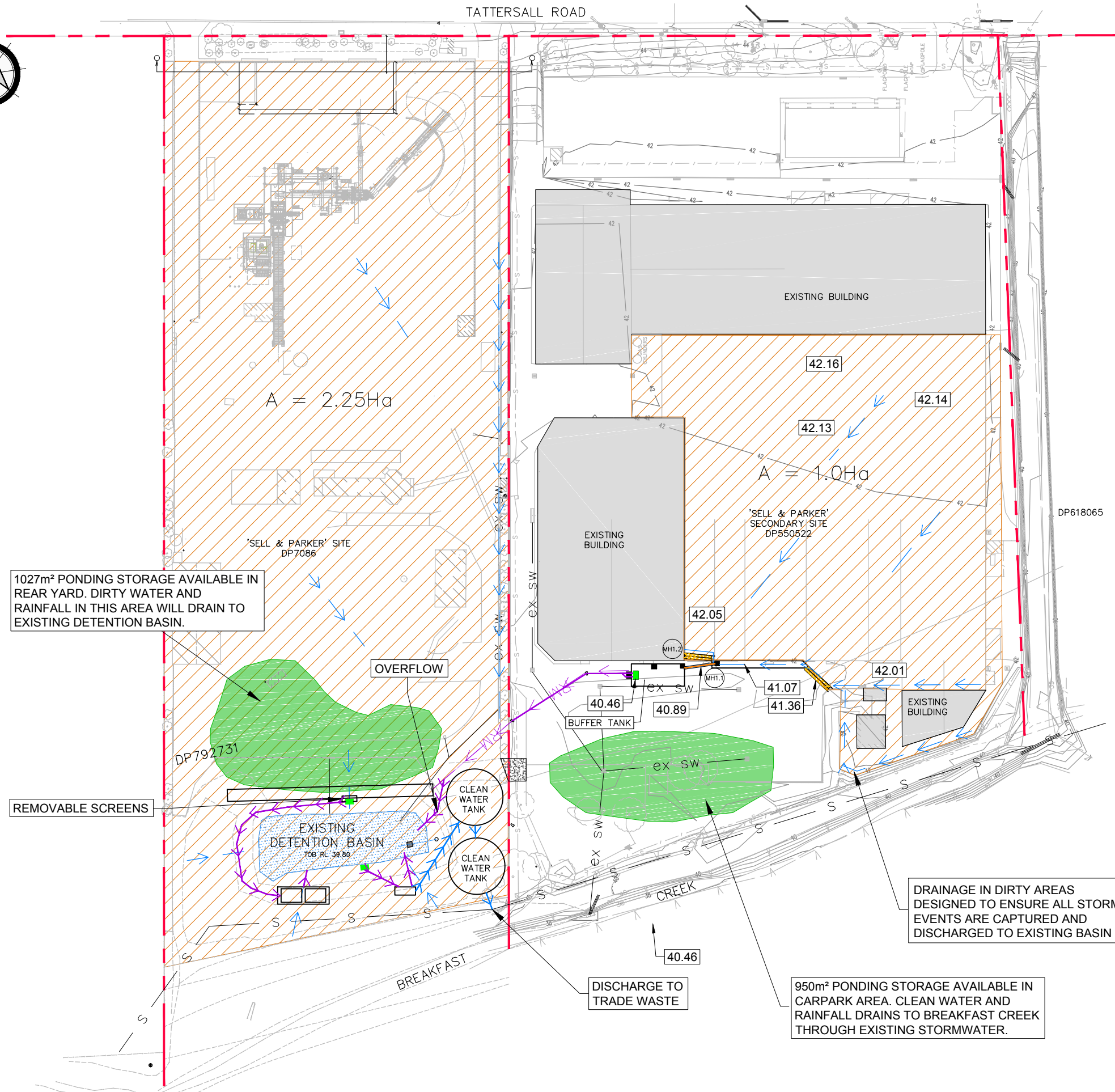
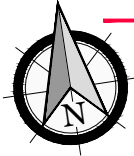


Page : 6 of 6  
Work Order : ES1627267  
Client : SELL AND PARKER  
Project : TW MW REF

### Surrogate Control Limits

Compound	CAS Number	Recovery Limits (%)	
		Low	High
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	71	137
Toluene-D8	2037-26-5	79	131
4-Bromofluorobenzene	460-00-4	70	128

## **APPENDIX M CATCHMENT AREA PLAN**



# APPENDIX 4

## LEGEND

- 'DIRTY WATER' CATCHMENT AREAS
- REAR YARD STORAGE CAPACITY
- FLOW ARROWS
- SEWER LINE
- PIPEWORK - DIRTY WATER
- PIPEWORK - TREATED WATER
- PUMPS

drawing title:

### DIRTY WATER CATCHMENT AREAS

location: LOT 2 D.P.550522, LOT 5 D.P.7086 & LOT 100 D.P.792731

council: -

dwg ref: 190337-REP-001

client:  
**SELL AND PARKER**



central coast office ph: (02) 4305 4300  
hunter office ph: (02) 4978 5100

www.adwjohnson.com.au

ver.	date	comment	drawn	pm	level information	scale (A3 original size)	notes
E	12.07.17	GENERAL AMENDMENTS	KT	ML	DATUM: N/A CONTOUR INTERVAL: N/A	0 25.0 50.0 62.5m SCALE: 1:1250 (FULL)	

Copyright NOTICE: This plan and the information it contains are copyright and remain the property of ADW Johnson Pty Ltd. ADW Johnson Pty Ltd grants to the client named on this plan a license to use the information hereon for the purpose for which we were engaged to perform the work. Use of the plan and information it contains for any other purpose is not permitted unless prior written approval has been obtained from ADW Johnson Pty Ltd.

# **APPENDIX N SYDNEY WATER TRADE WASTE APPLICATION, SAMPLE TRIALS AND APPROVAL**

4 April 2017

Howard Richards  
Sell & Parker Pty Ltd  
45-55 Tattersall Rd  
KINGS PARK  
NSW 2148

Dear Howard,

**Re: 45-55 Tattersall Rd, Kings Park.**

**Application for consent to discharge industrial trade wastewater**

I am writing to advise that Sydney Water approves in principle to the discharge of contaminated surface water from this site. Formal approval is granted through the execution of an industrial trade waste consent, the granting of the consent is conditional on our inspection and approval of the proposed treatment plant.

If you require further information please contact John Zmijewski on 0419 273159.

Yours sincerely,

  
**John Zmijewski**  
Business Customer Representative  
Developer and Business Customer Services

CICS0135 v1





**Application for Consent to Discharge Industrial Trade Wastewater**

Business Customer Services

ACCOUNT NUMBER AS PER SYDNEY WATER ACCOUNTS

4301 536 -

FULL NAME OF APPLICANT (BLOCK LETTERS)  
SELL AND PARKER

ADDRESS OF THE BUSINESS WHERE DISCHARGE TO SEWER WILL OCCUR

45 Tattersall Road	TEL: 9621 2633
Kings Park NSW POST CODE: 2148	FAX: 9622 8901

POSTAL ADDRESS FOR CORRESPONDENCE

	TEL:
POST CODE:	FAX:

TRADING NAME OF THE BUSINESS AT THE PREMISES  
Sell and Parker Pty Ltd.

AUSTRALIAN COMPANY NUMBER (ACN)  
000 101 315

FULL NAME OF OCCUPIER IF OTHER THAN APPLICANT  
N/A

FULL NAME OF CONTACT PERSON AT THE PREMISES  
Howard Richards

POSITION IN COMPANY	Environment Manager	TEL: 0419 277 431
EMAIL ADDRESS	howardr@sellparker.com.au	FAX: -

EMERGENCY CONTACT PERSON OUT-OF-HOURS  
Howard Richards

PRINCIPAL BUSINESS ACTIVITY	Scrap Metal Processing	TEL: 0419 277 431
-----------------------------	------------------------	-------------------

PROCESSES GENERATING TRADE WASTEWATER

1.	Enclosed site water collection
2.	
3.	
4.	

OFFICE USE ONLY

PROCESS DESCRIPTION	CODE

(IF SPACE INSUFFICIENT - PLEASE ATTACH SEPARATE LIST)

NOTE: A DESCRIPTION OF THE GENERAL NATURE OF THE BUSINESS, INCLUDING DETAILS OF THE WASTEWATER CHARACTERISTICS MUST BE COMPLETED ON "APPENDIX C" OF THIS FORM. (MORE INFORMATION CAN BE FOUND UNDER "APPENDIX C" IN THE INFORMATION PACKAGE).

1. Does the property currently discharge trade wastewater to the sewer?  YES

NO

EXPECTED COMMENCEMENT DATE OF DISCHARGE

April 2017  
MONTH YEAR

2. Does the property have MORE than one connection to the sewer?  NO

YES

HOW MANY? \_\_\_\_\_

NOTE: A SEPARATE APPLICATION SHOULD BE COMPLETED FOR EACH TRADE WASTEWATER CONNECTION TO SYDNEY WATER'S SEWER

3. IS ANY OF THE TRADE WASTEWATER TREATED PRIOR TO DISCHARGE TO THE SEWER?

NO

DETAILS OF PROPOSED PRE-TREATMENT FACILITIES MUST BE ATTACHED AS "APPENDIX D". (REFER TO "APPENDIX D" IN THE INFORMATION PACKAGE)

YES

DETAILS OF EXISTING PRE-TREATMENT FACILITIES MUST BE ATTACHED AS "APPENDIX D". (REFER TO "APPENDIX D" IN THE INFORMATION PACKAGE)

4. GREASE TRAPS will need to be cleaned by a Contractor registered with Sydney Water's Wastesafe system. The frequency of cleaning will be determined by Sydney Water. Please provide details:

GREASE TRAP CLEANING CONTRACTOR

CONTRACTORS WASTESAFE NO  
T \_\_\_\_\_

N/A

5. Will the trade wastewater finally (ie. AFTER pre-treatment) be pumped to the sewer?  NO

YES

PUMP MANUFACTURER'S SPECIFICATION/BROCHURE MUST BE ATTACHED AS "APPENDIX E". (REFER TO "APPENDIX E" IN THE INFORMATION PACKAGE)

6. Is a WATER meter fitted to the premises?  NO  A WATER METER WILL HAVE TO BE FITTED

YES, SUPPLY YOUR BUSINESS ONLY

HOW MANY METERS? \_\_\_\_\_

YES, SUPPLY BUSINESSES/RESIDENCES IN ADDITION TO YOURS

HOW MANY METERS? \_\_\_\_\_

List the serial number(s) stamped on the meter(s)

DGDJ0020

DGGC0047

7. Is ~~any~~ water OTHER than Sydney Water's supply being/be used on the premises (eg. Bore Water)?  NO



GIVE DETAILS

Site rainwater is captured

NOTE: FOR ASSISTANCE WITH QUESTIONS 8, 9 AND 10:

- A fully open tap will supply approximately 0.3 litres per second (or 1,000 litres per hour)
- As a guide, the MAXIMUM daily discharge is likely to be 20 percent (%) more than the AVERAGE figure

8. Estimate the MAXIMUM INSTANTANEOUS rate of discharge to the sewer 10 litres per second

9. Estimate the MAXIMUM DAILY discharge volume to the sewer 864,000 litres

10. Estimate the AVERAGE DAILY discharge volume to the sewer 2000 litres

Note: Sydney Water's Trade Waste Policy requires an approved flowmeter to be installed. For more information and publications on flow measurement guidelines, please visit the trade waste section of our website at [www.sydneywater.com.au](http://www.sydneywater.com.au)

11. Is a discharge FLOW METER installed?  YES  NO

12. What is the brand and model of the existing discharge or proposed discharge flow meter?

Brand	Model
ABB	FMS 150-TW

Note: Water meters have been found to be totally unsuitable for measuring the quantity of trade wastewater discharged and are not permitted for this purpose.

14. Are there any discharges to sewer, which can possibly contain rainwater?  NO

YES DETAILS MUST BE COMPLETED IN "APPENDIX F" (REFER TO "APPENDIX F" IN THE INFORMATION PACKAGE)

15. Hours when discharge of trade wastewater to sewer will occur?

Monday	: TO :	Thursday	: TO :	Saturday	: TO :
Tuesday	: TO :	Friday	: TO :	Sunday	: TO :
Wednesday	: TO :	After/Before rainfall events			

16. How many people are (or will be) employed at the premises?

(THIS ALLOWS SYDNEY WATER TO ESTIMATE THE VOLUME OF WATER USED FOR DOMESTIC PURPOSES)

30 People


17. Have you lodged a DEVELOPMENT APPLICATION with your Local Council?

YES  NO

18. Are you (The Applicant) the OWNER ~~MANAGING AGENT~~ for the property?

YES  NO

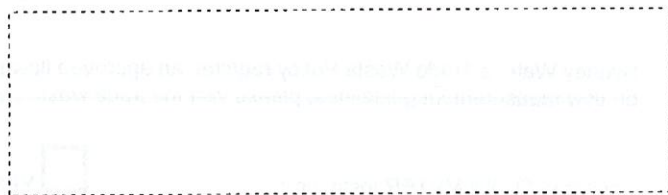
As the Owner/~~Managing Agent~~, I am aware of this Application and that this business will be (or is being) carried out on the property

SIGNATURE of OWNER <del>MANAGING AGENT</del>	PRINT NAME	DATE
	Luke Parker	3/2/16



Owner

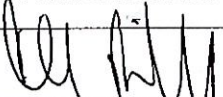
Agency Stamp



Managing Agent

FULL NAME of APPLICANT (BLOCK LETTERS)	POSITION IN COMPANY
LUKE PARKER	Director

SIGNATURE of APPLICANT	DATE
	3/2/16

SIGNATURE of WITNESS	PRINT NAME (BLOCK LETTERS)
	HOWARD RICHARDS

**NOTE**

APPENDICES A to F, plus any other relevant Appendices, must be attached to this Application (REFER TO THE INFORMATION PACKAGE).

Appendix A Site plan

YES  NO

Appendix B Plan of any proposed drainage

YES  NO see C

Appendix C Nature of processes of the business completed

YES  NO

Appendix D Details of existing and/or proposed pre-treatment equipment

YES  NO

Appendix E Pump specifications

YES  NO

Appendix F Details of any discharges to sewer that may contain rainwater

YES  NO

**NATURE OF BUSINESS**

INDUSTRIAL PROCESS (ES)

Receive scrap metal, process it - fragmentation-stockpile, then ship the products to various end users.

Only stored chemicals on site are fuels and lubricants.

Lab analysis of typical trade waste discharge quality attached.

**TABLE 1: SUBSTANCES**

Indicate, in milligrams per litre, the Average Concentration of all substances expected to be present in the trade wastewater discharge. Please also indicate (including the amount) any raw materials, products, chemicals or other goods, stored on site, which may contain the substances listed below.

SUBSTANCE	AVERAGE CONCENTRATION mg/L	TICK IF STORED	AMOUNT STORE Kg
Biochemical Oxygen Demand			
Suspended Solids			
Grease – Total			
Sulphate			
Ammonia			
Nitrogen			
Phosphorus			
Aluminium			
Arsenic			
Barium			
Benzene			
Biocides			
Boron			
Bromine			
Cadmium			
Chlorinated phenolics			
Chlorine			
Chromium			
Cobalt			
Copper			
Cyanide			
Flammable/Explosive Substances			
Fluoride			
Formaldehyde			
Herbicides and defoliants			
Iron			
Lead			



OPEN AREA INFORMATION

1. State why the Open Area CANNOT be roofed:

Operational scrap yard - not economically feasible.  
Area is too large.

2. State why the area is considered to be CONTAMINATED:

(ATTACH LETTER FROM ENVIRONMENT PROTECTION AUTHORITY OR COUNCIL TO VERIFY THIS)

Land is not considered as contaminated, it is not on the contaminated land register.

3.

- What is the length of the area? \_\_\_\_\_ metres
  - What is the width of the area? \_\_\_\_\_ metres
- OR What is the total area? 28,600 square metres

4. What **AUTOMATIC RAINWATER CONTROLS** are proposed?  
(provide details of "first flush" collection and bypass system)

Site is fully concreted.  
All rainwater and potable water that goes to ground is directed to the site retention pond. This water is reused for dust management and process cooling. During large rainfall events we have excess water which we need to discharge.

EPA have removed our licence condition that allowed discharge to local waterway.











ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order : ES1627267  
 Client : SELL AND PARKER  
 Contact : Howard Richards  
 Address :  
 BLACKTOWN NSW, AUSTRALIA  
 Telephone : +61 02 96212633  
 Project : TW MW REF  
 Order number :  
 C-O-C number :  
 Sampler : Howard Richards  
 Site :  
 Quote number :  
 No. of samples received : 1  
 No. of samples analysed : 1

Page : 1 of 6  
 Laboratory : Environmental Division Sydney  
 Contact : Customer Services ES  
 Address : 277-289 Woodpark Road Smithfield NSW Australia 2164  
 Telephone : +61-2-8784 8555  
 Date Samples Received : 29-Nov-2016 12:00  
 Date Analysis Commenced : 29-Nov-2016  
 Issue Date : 05-Dec-2016 17:44



Accreditation No. 825  
Accredited for compliance with  
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	Position	Accreditation Category
Ankit Joshi	Inorganic Chemist	Sydney Inorganics, Smithfield, NSW
Pabi Subba	Senior Organic Chemist	Sydney Organics, Smithfield, NSW
Wisam Marassa	Inorganics Coordinator	Sydney Inorganics, Smithfield, NSW



Page : 2 of 6  
Work Order : ES1627267  
Client : SELL AND PARKER  
Project : TWMMW REF

### 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.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

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.

~ = Indicates an estimated value.



**Analytical Results**

Sub-Matrix: WATER (Matrix: WATER)	Client sample ID		BT DM MWF 29 11 16	Client sampling date / time 29-Nov-2016 08:00	Unit	Result
	CAS Number	LOR				
<b>EA005P: pH by PC Titrator</b>						
pH Value	—	0.01			pH Unit	7.98
<b>EA025: Total Suspended Solids dried at 104 ± 2°C</b>						
Suspended Solids (SS)	—	5			mg/L	20
<b>EG020T: Total Metals by ICP-MS</b>						
Aluminium	7429-90-5	0.01			mg/L	0.36
Dysprosium	7429-91-6	0.001			mg/L	<0.001
Silver	7440-22-4	0.001			mg/L	<0.001
Arsenic	7440-38-2	0.001			mg/L	0.004
Bismuth	7440-69-9	0.001			mg/L	<0.001
Erbium	7440-52-0	0.001			mg/L	<0.001
Boron	7440-42-8	0.05			mg/L	1.40
Europium	7440-53-1	0.001			mg/L	<0.001
Strontium	7440-24-6	0.001			mg/L	0.778
Barium	7440-39-3	0.001			mg/L	0.105
Gadolinium	7440-54-2	0.001			mg/L	<0.001
Titanium	7440-32-6	0.01			mg/L	<0.01
Beryllium	7440-41-7	0.001			mg/L	<0.001
Gallium	7440-55-3	0.001			mg/L	<0.001
Cadmium	7440-43-9	0.0001			mg/L	0.0006
Hafnium	7440-58-6	0.01			mg/L	<0.01
Tellurium	22541-49-7	0.005			mg/L	<0.005
Cobalt	7440-48-4	0.001			mg/L	0.001
Holmium	7440-60-0	0.001			mg/L	<0.001
Uranium	7440-61-1	0.001			mg/L	<0.001
Caesium	7440-46-2	0.001			mg/L	<0.001
Chromium	7440-47-3	0.001			mg/L	0.003
Indium	7440-74-6	0.001			mg/L	<0.001
Copper	7440-50-8	0.001			mg/L	0.042
Lanthanum	7439-91-0	0.001			mg/L	<0.001
Rubidium	7440-17-7	0.001			mg/L	0.024
Lithium	7439-93-2	0.001			mg/L	0.127
Lutetium	7439-94-3	0.001			mg/L	<0.001
Thorium	7440-29-1	0.001			mg/L	0.003
Cerium	7440-45-1	0.001			mg/L	<0.001



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 Work Order : ES1627267  
 Client : SELL AND PARKER  
 Project : TW MW REF

**Analytical Results**

Sub-Matrix: WATER (Matrix: WATER)	Client sample ID		BT DM MWF 29 11 16
Compound	CAS Number	LOR	Unit
		Client sampling date / time	Result
<b>EG020T: Total Metals by ICP-MS - Continued</b>			
Manganese	7439-96-5	0.001	mg/L 0.200
Neodymium	7440-00-8	0.001	mg/L <0.001
Molybdenum	7439-98-7	0.001	mg/L 0.072
Praseodymium	7440-10-0	0.001	mg/L <0.001
Nickel	7440-02-0	0.001	mg/L 0.024
Samarium	7440-19-9	0.001	mg/L <0.001
Lead	7439-92-1	0.001	mg/L 0.075
Terbium	7440-27-9	0.001	mg/L <0.001
Antimony	7440-36-0	0.001	mg/L 0.015
Thulium	7440-30-4	0.001	mg/L <0.001
Selenium	7782-49-2	0.01	mg/L <0.01
Ytterbium	7440-64-4	0.001	mg/L <0.001
Tin	7440-31-5	0.001	mg/L 0.003
Yttrium	7440-65-5	0.001	mg/L <0.001
Thallium	7440-28-0	0.001	mg/L <0.001
Zirconium	7440-67-7	0.005	mg/L <0.005
Vanadium	7440-62-2	0.01	mg/L <0.01
Zinc	7440-66-6	0.005	mg/L 0.323
Iron	7439-89-6	0.05	mg/L 2.75
<b>EG035T: Total Recoverable Mercury by FIMS</b>			
Mercury	7439-97-6	0.0001	mg/L <0.0001
<b>EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser</b>			
Nitrite + Nitrate as N		0.01	mg/L 0.03
<b>EK061G: Total Kjeldahl Nitrogen By Discrete Analyser</b>			
Total Kjeldahl Nitrogen as N		0.1	mg/L 8.5
<b>EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser</b>			
Total Nitrogen as N		0.1	mg/L 8.5
<b>EK067G: Total Phosphorus as P by Discrete Analyser</b>			
Total Phosphorus as P		0.01	mg/L 0.52
<b>EP020: Oil and Grease (O&amp;G)</b>			
Oil & Grease		5	mg/L 9
<b>EP030: Biochemical Oxygen Demand (BOD)</b>			
Biochemical Oxygen Demand		2	mg/L 2
<b>EP080/071: Total Petroleum Hydrocarbons</b>			



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 Work Order : ES1627267  
 Client : SELL AND PARKER  
 Project : TWMW REF

**Analytical Results**

Sub-Matrix: WATER (Matrix: WATER)	Client sample ID	BT DM MWF 29 11 16	Client sampling date / time	29-Nov-2016 08:00	Client sampling date / time	29-Nov-2016 08:00
Compound	CAS Number	LOR	Unit	ES1627267-001	Result	Result
<b>EP080/074: Total Petroleum Hydrocarbons - Continued</b>						
C6 - C9 Fraction		20	µg/L		<20	
C10 - C14 Fraction		50	µg/L		<50	
C15 - C28 Fraction		100	µg/L		530	
C29 - C36 Fraction		50	µg/L		160	
^ C10 - C36 Fraction (sum)		50	µg/L		690	
<b>EP080/074: Total Recoverable Hydrocarbons - NEPM 2013 Fractions</b>						
C6 - C10 Fraction	C6_C10	20	µg/L		<20	
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L		<20	
>C10 - C16 Fraction		100	µg/L		<100	
>C16 - C34 Fraction		100	µg/L		520	
>C34 - C40 Fraction		100	µg/L		<100	
^ >C10 - C40 Fraction (sum)		100	µg/L		520	
^ >C10 - C16 Fraction minus Naphthalene (F2)		100	µg/L		<100	
<b>EP080: BTEXN</b>						
Benzene	71-43-2	1	µg/L		<1	
Toluene	108-88-3	2	µg/L		<2	
Ethylbenzene	100-41-4	2	µg/L		<2	
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L		<2	
ortho-Xylene	95-47-6	2	µg/L		<2	
^ Total Xylenes	1330-20-7	2	µg/L		<2	
^ Sum of BTEX		1	µg/L		<1	
Naphthalene	91-20-3	5	µg/L		<5	
<b>EP080S: TPH(V)/BTEX Surrogates</b>						
1,2-Dichloroethane-D4	17060-07-0	2	%		114	
Toluene-D8	2037-26-5	2	%		117	
4-Bromofluorobenzene	460-00-4	2	%		108	



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Work Order : ES1627267  
Client : SELL AND PARKER  
Project : TW MW REF

**Surrogate Control Limits**

Sub-Matrix: WATER			
Compound	CAS Number	Recovery Limits (%)	
		Low	High
<b>EP080S: TPH(V)/BTEX Surrogates</b>			
1,2-Dichloroethane-D4	17060-07-0	71	137
Toluene-D8	2037-26-5	79	131
4-Bromofluorobenzene	460-00-4	70	128



21 July 2017

Our ref: 754-SYDGE206015AD

Sell and Parker  
45 Tattersall Road  
Black Town  
NSW 2148

Attention: Howard Richards

Dear Howard,

**Final Assessment of Basin – 45 Tattersall Road, Blacktown**

## **1. Introduction**

This letter presents the final assessment of the water storage basin (the Basin) at the Sell and Parker metal recycling facility at 45 Tattersall Road, Blacktown. This letter responds to concerns expressed by the Environment Protection Authority (EPA).

The work was commissioned by Sell and Parker and was carried out by Coffey Services Australia (Coffey) in general accordance with our proposal (reference SYDGE206015AA dated 15 May 2017).

Coffey has undertaken groundwater monitoring in order to provide an independent assessment of the Basin and its impacts (if any) on Breakfast Creek. This letter presents a final assessment of potential impact of the basin on water quality of Breakfast Creek.

## **2. Hydrogeological conditions**

### **2.1. Stratigraphy**

Coffey undertook geotechnical investigation at the site on 31 May 2017, including drilling three boreholes and installation of monitoring wells.

Coffey assessed ground conditions at the site to generally comprise the fill extends to depths up to 0.8 m in the BH1. The fill is underlain by fine grained silt to about 3.0 m extends down to the underlying bedrock Shale, encountered at 3.0 m. In boreholes 2 and 3, the high plastic silty clay generally extends from 0.5 m to 1.0 m underlain by medium to high plastic clay, which extends up to 5 m.

### 3. Groundwater levels and Quality

Coffey installed three monitoring bores on 31 May 2017 and measured groundwater levels and collected the groundwater samples on 6 June 2017 from the monitoring wells and from Breakfast Creek and the Basin. The samples were analysed for a wide range of metals and metalloids by a NATA accredited laboratory. The locations for sampling at Breakfast Creek and the Basin and the location of monitoring bores are illustrated in Figure 1.

Boreholes were drilled to 5 m depth and completed as monitoring bores with the lower 3 m screened. The monitoring bore of BH1 was finished with gatic cover and BH2 and BH3 were finished with monuments. Borehole logs are attached.

The relative water elevations in each monitoring well, Breakfast Creek and Basin were recorded, and presented in the Table 1 and the laboratory test results are summarised in Table 2 and presented as Attachment.



● Borehole locations

Figure 1: Site layout and Borehole locations

**Table 1: Summary of Groundwater Levels Observed, 15 June 2017**

Well ID	Ground Surface Elevation (m AHD)	Screened length (m)	Measured on 6 June 2017		Measured on 15 June 2017	
			Depth to Groundwater Below Existing Ground Level (m)	Groundwater Elevation (m AHD)	Depth to Groundwater Below Existing Ground Level (m)	Groundwater Elevation (m AHD)
BH1	45.660	1	3.98	41.68	3.98	41.68
BH2	39.910	3	2.27	37.64	1.40	38.51
BH3	39.902	3	3.05	36.85	2.62	37.28
Creek	38.901	-	2.10	36.80	1.79	37.11
Basin	42.144	-	1.80	40.344	0.25	41.89

Note: \* Groundwater level in BH1 took time to recover following construction.

Automatic water level monitors were installed to measure groundwater level at monitoring bore locations and in the Basin and Breakfast Creek. We have downloaded and retrieved the loggers from the monitoring wells and Breakfast Creek on 15 June 2017. As the logger in the Basin was snagged on an underwater obstruction, it was retrieved on 11 July 2017 and the monitoring results are presented as attachments.

A rise in the groundwater level occurred between 6 June and 15 June 2017. This is attributed to rainfall between 6 June 2017 and 15 June 2017.

Rising Head Tests were conducted at three monitoring well locations BH1, BH2 and BH3 on 6 June 2017. The data from the rising head test was analysed by Coffey using the Hvorslev method to provide a local estimate of hydraulic conductivity for the screened formation in the near vicinity of the standpipe.

The results of each individual test are summarized in the Table 2 below and analyses sheets are attached. The results of the rising head tests provide a range of hydraulic conductivity values from  $1.76 \times 10^{-6}$  m/sec to  $9.27 \times 10^{-7}$  m/sec.

**Table 2: Interpreted Hydraulic Conductivity**

Well ID	Screened Interval (m)	Interpreted Hydraulic Conductivity (m/sec)
BH1	1	$1.76 \times 10^{-6}$
BH2	3	$4.23 \times 10^{-6}$
BH3	3	$9.27 \times 10^{-7}$

Table 3 presents groundwater quality parameters measured by Coffey in the field during the sampling and Table 4 presents the water quality parameters analysed in the laboratory.

**Table 3: Groundwater Quality Field Parameters (sampled on 6 June 2017)**

Well ID	DO (mg/L)	EC ( $\mu\text{s/cm}$ )	pH	Redox (mV)	Temperature ( $^{\circ}\text{C}$ )
BH1	5.15	1800	6.17	155	20.8
BH2	3.65	1555	6.4	103	19.2
BH3	4.99	2541	6.82	93	18.6
Breakfast Creek	7.42	749	7.27	100	12.6
Basin	4.55	1220	7.51	107	13.5

**Table 4: Groundwater Quality Parameters analysed in laboratory**

Well ID	EC ( $\mu\text{s/cm}$ )	pH	Total Dissolved Solids
BH1	2200	6.8	1600
BH2	1500	6.5	970
BH3	7000	6.8	4800
Breakfast Creek	920	7.3	610
Basin	1700	7.1	1400

Water samples were taken from the three monitoring boreholes on 6 June 2017 and dispatched to Eurofins contract chemical laboratory under control of custody documentation. Samples from each location were collected using dedicated disposable bailers. Two sets of samples were collected one set was field filtered and a second set was unfiltered. In the case of sampling from Breakfast Creek an unfiltered sample was collected and subject to testing unfiltered and a laboratory filtered sample was also tested. Samples for metals analysis were preserved. Duplicate samples were collected for quality control. Field duplicate samples were collected from Borehole 2 (DUP1) and from the Basin (DUP2). Samples were tested for a range of metals. The laboratory reported that the samples were received in good condition and appropriately preserved. Internal laboratory quality assurance test results were provided showing satisfactory performance.

It is normal practice to collect filtered samples from groundwater bores and unfiltered samples for open water. In this case both filtered and unfiltered samples were collected to allow assessment of mobility of dissolved metals.

**Table 5 – Summary of measured dissolved concentrations (mg/L) – metals (filtered)**

Element <sup>b</sup>	Laboratory Limit of Reporting	ANZECC <sup>a</sup>	Basin	Breakfast Creek	BH01	BH02	BH03
Aluminium	0.05	0.08	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	0.02		0.22	0.07	0.03	0.04	0.31
Boron	0.05	0.680 <sup>c</sup>	1.7	<0.05	0.06	<0.05	<0.05
Cadmium	0.0002	0.0004	0.0003	<0.0002	<0.0002	<0.0002	<0.0025
Copper	0.0001	0.0018	0.004	0.002	<0.001	<0.001	0.005
Lead	0.001	0.0056	0.016	<0.001	<0.001	<0.001	<0.001
Lithium	0.01		0.11	0.02	<0.01	<0.01	0.15
Manganese	0.005	2.500 <sup>c</sup>	0.32	<0.005	0.33	0.98	2.4
Molybdenum	0.005		0.13	<0.005	<0.005	<0.005	0.008
Nickel	0.001	0.013	0.019	0.001	0.001	0.001	0.005
Rubidium	0.001		0.030	0.005	0.001	<0.001	0.020
Strontium	0.001		0.99	0.11	0.17	0.094	0.79
Uranium	0.005		<0.005	<0.005	<0.005	<0.005	0.005
Zinc	0.005	0.015 <sup>c</sup>	0.24	0.015	<0.005	<0.005	0.16

Notes: <sup>a</sup> ANZECC guidelines for protection of 90% of freshwater aquatic ecosystems

<sup>b</sup> Filtered values

<sup>c</sup> Figure may not protect key test species from chronic toxicity

**Table 6 – Summary of measured dissolved concentrations (mg/L) – metals (unfiltered)**

Element	Laboratory Limit of Reporting	ANZECC <sup>a</sup>	Basin	Breakfast Creek	BH01	BH02	BH03
Aluminium	0.05	0.08	1.4	0.06	2.9	1.5	5.3
Barium	0.02		0.45	0.09	0.09	0.16	0.71
Boron	0.05	0.680 <sup>c</sup>	1.5	<0.05	0.08	0.07	0.12
Cadmium	0.0002	0.0004	0.0038	<0.0002	<0.0002	<0.0002	0.013
Copper	0.0001	0.0018	0.13	0.003	0.005	0.008	0.068
Lead	0.001	0.0056	0.38	0.002	0.003	0.12	0.38
Lithium	0.01		0.13	0.02	<0.01	<0.01	0.11
Manganese	0.005	2.500 <sup>c</sup>	0.44	0.027	0.85	2.4	6.9
Molybdenum	0.005		0.18	<0.005	<0.005	<0.005	0.008
Nickel	0.001	0.013	0.043	0.002	0.006	0.006	0.047
Rubidium	0.001		0.033	0.006	0.009	0.003	0.030
Strontium	0.001		1.1	0.16	0.21	0.11	1.1
Uranium	0.005		<0.005	<0.005	<0.005	<0.005	0.011
Zinc	0.005	0.015 <sup>c</sup>	2.1	0.059	0.020	0.029	3.9

## Discussion

Groundwater level monitoring shows that the groundwater gradient is towards Breakfast Creek consistent with expectations. The groundwater level recorded in monitoring bore BH1 on 15 June 2017 was 41.68 mAHD some 4.4 m higher than the water level recorded in Breakfast Creek of 37.11 mAHD. The groundwater levels measured in monitoring wells BH2 and BH3 were within 1.4 m of the water level in Breakfast Creek with BH3 within 0.2 m of the level within Breakfast Creek. Water level in the Basin ranged from 40.344 mAHD to 41.89 mAHD well above the water level in the creek.

During the monitoring period, the water level in the basin rose by 1.55 m. Little corresponding sustained rise was observed at monitoring bore BH3. This indicates an absence of a significant hydraulic connectivity between the Basin and groundwater at the bore locations. Some change in groundwater level at BH2 was observed over the monitoring period. This may relate in part to the changes in water level in the Basin. While this may relate to the Basin, the water quality of BH2 similar to background water quality and is apparently not affected by the Basin. This suggests the relationship of the groundwater levels measured in BH2 and BH3 are both below the levels which would be expected if the Basin were free draining. The higher levels in BH2 may be due to low permeability conditions between the borehole and the creek.

The measured dissolved concentrations of metals for filtered samples from BH2 and BH3 located downgradient from the Basin are comparable to those recorded in the upgradient monitoring well (BH1) except that concentrations of barium, copper, lithium, manganese, strontium and zinc were higher in the sample from BH3 than for those for BH1.

It is interesting to note that the concentration of filtered samples from the Basin yield substantially lower metal concentrations than the unfiltered sample from the Basin. This suggests that the aeration treatment carried out by Sell and Parker in the Basin is effective in reducing the dissolved concentration of most metals.

Testing of unfiltered samples from Breakfast Creek revealed concentrations of copper and zinc in excess of ANZECC guidelines for protection of 90% of species in freshwater aquatic ecosystems.

The concentrations of copper and zinc recorded in filtered samples from monitoring well BH2 were within ANZECC guidelines. For BH3 concentrations of copper and zinc exceeded ANZECC guidelines. The reason for this is not clear it may be that groundwater at BH3 is affected by filled ground associated with creek bank works.

Based on the results obtained, Coffey considers that any potential seepage from the Basin is not adversely impacting the water quality in Breakfast Creek because:

- Changes in water level in the Basin are not reflected in monitoring bore BH3.
- Water quality in BH2 (filtered) (upgradient from the creek) is within ANZECC guidelines.
- Filtered and unfiltered results in BH2 are predominately lower than the Basin and Breakfast Creek.
- Water levels measured in BH3 are very similar to water levels in Breakfast Creek and would be expected to be elevated above creek levels if measurable seepage from the Basin occurred.
- Filtered and unfiltered BH3 results do not show any significant connection to BH2 or the Basin suggesting a local influence (possibly fill associated from Breakfast Creek realignment).

Coffey has investigated the integrity of the Basin through water level monitoring and water chemistry studies and have found that currently there is no obvious connection with the underlying groundwater system. We recommend regular testing to validate this going forward.

For and on behalf of Coffey



**Ross Best**  
Senior Principal Geotechnical Engineer

**Reference:**

Australian and New Zealand Environment and Conservation Council and Agriculture and Resource Management Council of Australia and New Zealand (2000) *Australian and New Zealand Guidelines for Fresh and Marine Water Quality*

**Attachments:**

Important information about your Coffey environmental report

Laboratory test results of water quality

Monitoring Results Graphs

Borehole logs

Rising Head Test Results

## Important information about your Coffey Environmental Report

### 1. Introduction

This report has been prepared by Coffey for you, as Coffey's client, in accordance with our agreed purpose, scope, schedule and budget.

The report has been prepared using accepted procedures and practices of the consulting profession at the time it was prepared, and the opinions, recommendations and conclusions set out in the report are made in accordance with generally accepted principles and practices of that profession.

The report is based on information gained from environmental conditions (including assessment of some or all of soil, groundwater, vapour and surface water) and supplemented by reported data of the local area and professional experience. Assessment has been scoped with consideration to industry standards, regulations, guidelines and your specific requirements, including budget and timing. The characterisation of site conditions is an interpretation of information collected during assessment, in accordance with industry practice,

This interpretation is not a complete description of all material on or in the vicinity of the site, due to the inherent variation in spatial and temporal patterns of contaminant presence and impact in the natural environment. Coffey may have also relied on data and other information provided by you and other qualified individuals in preparing this report. Coffey has not verified the accuracy or completeness of such data or information except as otherwise stated in the report. For these reasons the report must be regarded as interpretative, in accordance with industry standards and practice, rather than being a definitive record.

### 2. Your report has been written for a specific purpose

Your report has been developed for a specific purpose as agreed by us and applies only to the site or area investigated. Unless otherwise stated in the report, this report cannot be applied to an adjacent site or area, nor can it be used when the nature of the specific purpose changes from that which we agreed.

For each purpose, a tailored approach to the assessment of potential soil and groundwater contamination is required. In most cases, a key objective is to identify, and if possible quantify, risks that both recognised and potential contamination posed in the context of the agreed purpose. Such risks may be financial (for example, clean up costs or constraints on site use) and/or physical (for example, potential health risks to users of the site or the general public).

### 3. Limitations of the Report

The work was conducted, and the report has been

prepared, in response to an agreed purpose and scope, within time and budgetary constraints, and in reliance on certain data and information made available to Coffey.

The analyses, evaluations, opinions and conclusions presented in this report are based on that purpose and scope, requirements, data or information, and they could change if such requirements or data are inaccurate or incomplete.

This report is valid as of the date of preparation. The condition of the site (including subsurface conditions) and extent or nature of contamination or other environmental hazards can change over time, as a result of either natural processes or human influence. Coffey should be kept apprised of any such events and should be consulted for further investigations if any changes are noted, particularly during construction activities where excavations often reveal subsurface conditions. In addition, advancements in professional practice regarding contaminated land and changes in applicable statutes and/or guidelines may affect the validity of this report. Consequently, the currency of conclusions and recommendations in this report should be verified if you propose to use this report more than 6 months after its date of issue.

The report does not include the evaluation or assessment of potential geotechnical engineering constraints of the site.

### 4. Interpretation of factual data

Environmental site assessments identify actual conditions only at those points where samples are taken and on the date collected. Data derived from indirect field measurements, and sometimes other reports on the site, are interpreted by geologists, engineers or scientists to provide an opinion about overall site conditions, their likely impact with respect to the report purpose and recommended actions.

Variations in soil and groundwater conditions may occur between test or sample locations and actual conditions may differ from those inferred to exist. No environmental assessment program, no matter how comprehensive, can reveal all subsurface details and anomalies. Similarly, no professional, no matter how well qualified, can reveal what is hidden by earth, rock or changed through time.

The actual interface between different materials may be far more gradual or abrupt than assumed based on the facts obtained. Nothing can be done to change the actual site conditions which exist, but steps can be taken to reduce the impact of unexpected conditions.

For this reason, parties involved with land acquisition, management and/or redevelopment should retain the services of a suitably qualified and experienced environmental consultant through the development and



use of the site to identify variances, conduct additional tests if required, and recommend solutions to unexpected conditions or other unrecognised features encountered on site. Coffey would be pleased to assist with any investigation or advice in such circumstances.

**5. Recommendations in this report**

This report assumes, in accordance with industry practice, that the site conditions recognised through discrete sampling are representative of actual conditions throughout the investigation area. Recommendations are based on the resulting interpretation.

Should further data be obtained that differs from the data on which the report recommendations are based (such as through excavation or other additional assessment), then the recommendations would need to be reviewed and may need to be revised.

**6. Report for benefit of client**

Unless otherwise agreed between us, the report has been prepared for your benefit and no other party. Other parties should not rely upon the report or the accuracy or completeness of any recommendation and should make their own enquiries and obtain independent advice in relation to such matters. Coffey 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.

To avoid misuse of the information presented in your report, we recommend that Coffey be consulted before the report is provided to another party who may not be familiar with the background and the purpose of the report. In particular, an environmental disclosure report for a property vendor may not be suitable for satisfying the needs of that property's purchaser. This report should not be applied for any purpose other than that stated in the report.

**7. Interpretation by other professionals**

Costly problems can occur when other professionals develop their plans based on misinterpretations of a report. To help avoid misinterpretations, a suitably qualified and experienced environmental consultant should be retained to explain the implications of the report to other professionals referring to the report and then review plans and specifications produced to see how other professionals have incorporated the report findings.

Given Coffey prepared the report and has familiarity with the site, Coffey is well placed to provide such assistance. If another party is engaged to interpret the recommendations of the report, there is a risk that the contents of the report may be misinterpreted and Coffey disowns any responsibility for such misinterpretation.

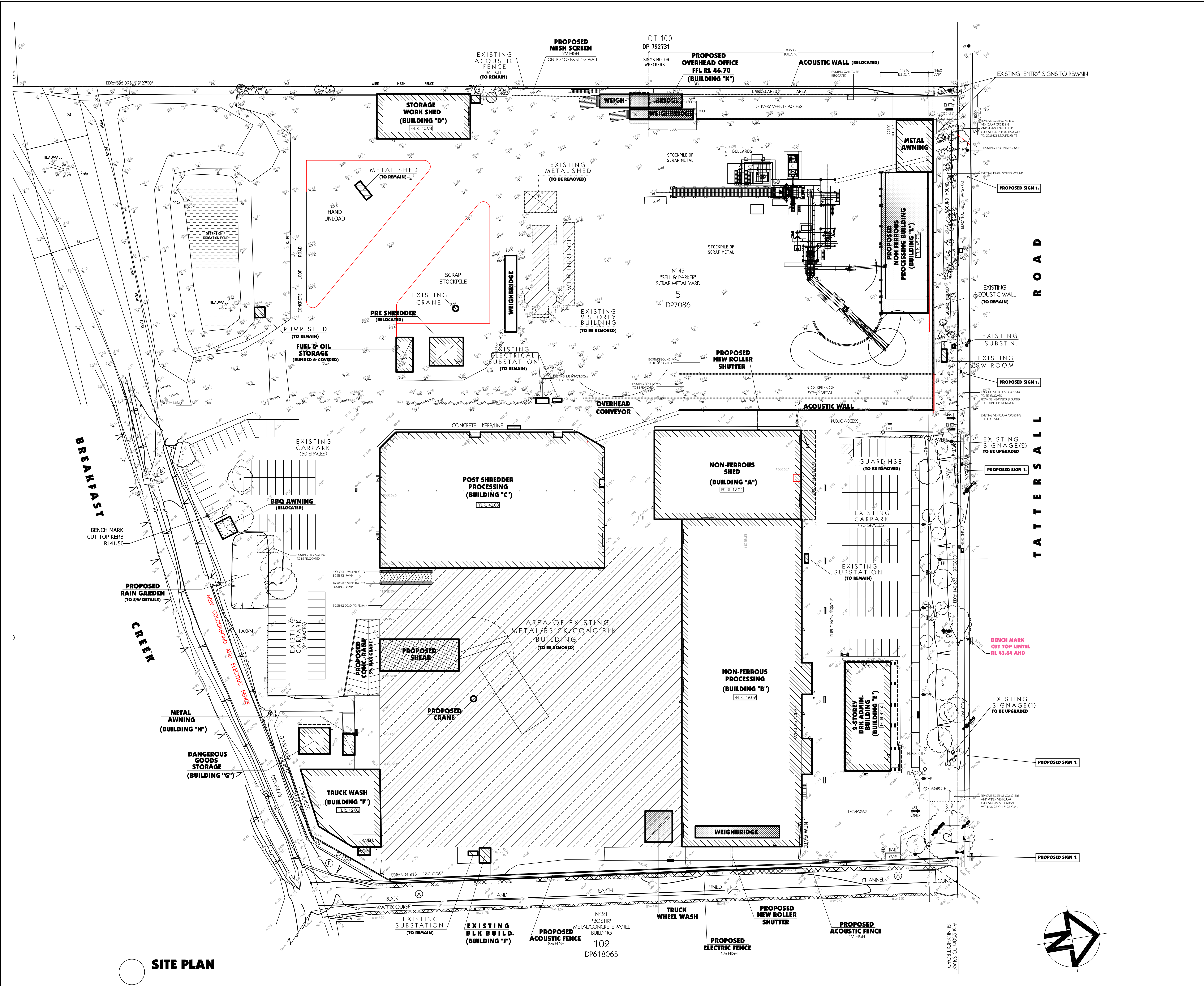
**8. Data should not be separated from the report**

The report as a whole presents the findings of the site assessment and the report should not be copied in part or altered in any way. Logs, figures, laboratory data, drawings, etc. are customarily included in our reports and are developed by scientists or engineers based on their interpretation of field logs, field testing and laboratory evaluation of samples. This information should not under any circumstances be redrawn for inclusion in other documents or separated from the report in any way.

This report should be reproduced in full. No responsibility is accepted for use of any part of this report in any other context or for any other purpose or by third parties.

**9. Responsibility**

Environmental reporting relies on interpretation of factual information using professional judgement and opinion and has a level of uncertainty attached to it, which is much less exact than other design disciplines. This has often resulted in claims being lodged against consultants, which are unfounded. As noted earlier, the recommendations and findings set out in this report should only be regarded as interpretive and should not be taken as accurate and complete information about all environmental media at all depths and locations across the site.



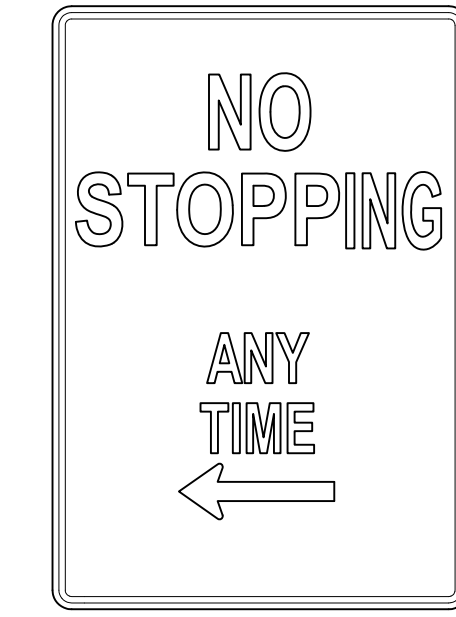
**LEGEND**

- [Symbol] EXISTING STRUCTURE TO REMAIN
- [Symbol] EXISTING STRUCTURE TO BE REMOVED
- [Symbol] PROPOSED NEW STRUCTURE
- [Symbol] EXISTING STRUCTURE TO BE FOR REUSE OR TO BE RELOCATED
- [Symbol] EXISTING AREA OF RESTRICTION OF LAND USE

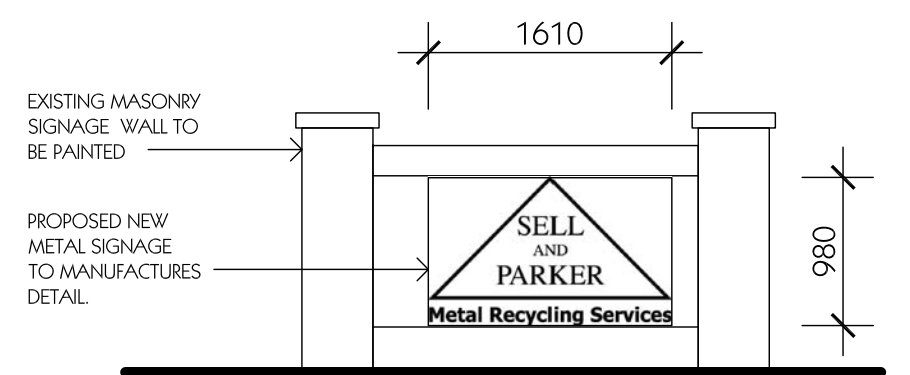
**NB**  
1:100 YEAR ARI FLOOD LEVEL  
**RL 42.10**

**DEVELOPMENT DATA**

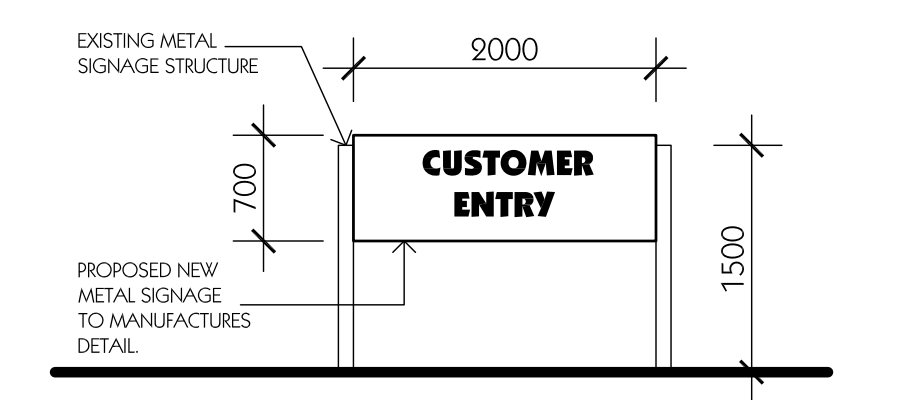
SITE AREA		
59 475 M2 approx.		
FLOOR AREAS		
BUILD	W/HOUSE	OFFICE/AMEN
BUILD "A"	1278 M2	24 M2
BUILD "B"	3162 M2	438 M2
BUILD "C"	2981 M2	-----
BUILD "D"	415 M2	-----
BUILD "E"	984 M2	-----
BUILD "F"	494 M2	-----
BUILD "G"	81 M2	-----
BUILD "H"	25 M2	-----
BUILD "I"	17 M2	-----
BUILD "K"	47 M2	-----
BUILD "L"	593 M2	-----
<b>TOTAL</b>	<b>10 077 M2</b>	<b>462 M2</b>
CARPARKING		
<b>REQUIRED</b>	TOTAL GR. FR. AREA	<b>10077</b>
	75	<b>75</b>
	TOTAL OFFICE AREA	<b>462</b>
	40	<b>40</b>
	TOTAL	<b>145</b>
<b>PROVIDED</b>		<b>147</b>



**PROPOSED SIGN 1.**



**EXISTING SIGNAGE (1) TO BE UPGRADED**



**EXISTING SIGNAGE (2) TO BE UPGRADED**

**SITE PLAN**

Issue	By	Description	Date
A	CZ	FOR CC	14/04/16
B	CZ	FOR CC	27/04/16
C	CZ	FOR CC	23/05/16
D	CZ	FOR CC	01/06/16
E	CZ	FOR CC	06/06/16

**GENERAL NOTES**

- All dimensions and floor areas are to be verified by the Builder prior to the commencement of any building work. Any discrepancies are to be brought to the attention of the designer.
- Levels shown are approximate unless accompanied by reduced levels.
- Figured dimensions must be taken in preference to scaling.
- All boundary clearances must be verified by the surveyor prior to the commencement of any building works.
- Where engineering drawings are required such must take preference to this drawing.
- Stormwater to be discharged to Council's requirements and AS 3500.3-1990.
- All services to be located and verified by the Builder with relevant authorities before any building work commences.

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Consultants

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Date: FEBRUARY 2016  
Scale: 1:500 UNO  
Drawn: J.LARIA  
Checked: C.ZAPPIA  
Certified:

Project: **PORPOSED ALTERATIONS TO EXISTING RECYCLING CENTRE**  
LOT 2 DP550522 & LOT 5 DP7086, No 23 & 45  
TATTERSALL RD, KINGS PARK

Client: **SELL & PARKER METAL**

Title: **WORKING DRAWINGS**  
SITE PLAN

Activity Type: **CC**

Job No.: **1044-16**

Sheet No.: **A101**

Issue: **E**

Project No.: **P4144**

# Certificate of Analysis

**Coffey Services Australia Pty Ltd**  
**43 Quinns Lane**  
**South Nowra**  
**NSW 2541**



**NATA Accredited**  
**Accreditation Number 1261**  
**Site Number 18217**

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

**Attention:** Siva Tadiseti

**Report** 549323-W  
 Project name  
 Project ID 754-SYDGE206015  
 Received Date Jun 07, 2017

Client Sample ID			BH1	BH2	BH3	BASIN
Sample Matrix			Water	Water	Water	Water
Eurofins   mgt Sample No.			S17-Jn06926	S17-Jn06927	S17-Jn06928	S17-Jn06929
Date Sampled			Jun 06, 2017	Jun 06, 2017	Jun 06, 2017	Jun 06, 2017
Test/Reference	LOR	Unit				
Conductivity (at 25°C)	1	uS/cm	2200	1500	7000	1700
pH	0.1	pH Units	6.8	6.5	6.8	7.1
Total Dissolved Solids	5	mg/L	1600	970	4800	1400
<b>Heavy Metals</b>						
Aluminium	0.05	mg/L	2.9	1.5	5.3	1.4
Aluminium (filtered)	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
Barium	0.02	mg/L	0.09	0.16	0.71	0.45
Barium (filtered)	0.02	mg/L	0.03	0.04	0.31	0.22
Boron	0.05	mg/L	0.08	0.07	0.12	1.5
Boron (filtered)	0.05	mg/L	0.06	< 0.05	< 0.05	1.7
Cadmium	0.0002	mg/L	< 0.0002	< 0.0002	0.013	0.0038
Cadmium (filtered)	0.0002	mg/L	< 0.0002	< 0.0002	0.0025	0.0003
Copper	0.001	mg/L	0.005	0.008	0.068	0.13
Copper (filtered)	0.001	mg/L	< 0.001	< 0.001	0.005	0.004
Lead	0.001	mg/L	0.003	0.003	0.12	0.38
Lead (filtered)	0.001	mg/L	< 0.001	< 0.001	< 0.001	0.016
Lithium	0.01	mg/L	< 0.01	< 0.01	0.11	0.13
Lithium (filtered)	0.01	mg/L	< 0.01	< 0.01	0.15	0.11
Manganese	0.005	mg/L	0.85	2.4	6.9	0.44
Manganese (filtered)	0.005	mg/L	0.33	0.98	2.4	0.32
Molybdenum	0.005	mg/L	< 0.005	< 0.005	0.015	0.18
Molybdenum (filtered)	0.005	mg/L	< 0.005	< 0.005	0.008	0.13
Nickel	0.001	mg/L	0.006	0.006	0.047	0.043
Nickel (filtered)	0.001	mg/L	0.001	0.001	0.005	0.019
Rubidium	0.001	mg/L	0.009	0.003	0.030	0.033
Rubidium (filtered)	0.001	mg/L	0.001	< 0.001	0.020	0.030
Strontium	0.01	mg/L	0.21	0.11	1.1	1.1
Strontium (filtered)	0.001	mg/L	0.17	0.094	0.79	0.99
Uranium	0.005	mg/L	< 0.005	< 0.005	0.011	< 0.005
Uranium (filtered)	0.005	mg/L	< 0.005	< 0.005	0.005	< 0.005
Zinc	0.005	mg/L	0.020	0.029	3.9	2.1
Zinc (filtered)	0.005	mg/L	< 0.005	< 0.005	0.16	0.24

Client Sample ID			CREEK Water	DUP1 Water	DUP2 Water
Sample Matrix			S17-Jn06930	S17-Jn06931	S17-Jn06932
Eurofins   mgt Sample No.			Jun 06, 2017	Jun 06, 2017	Jun 06, 2017
Date Sampled					
Test/Reference	LOR	Unit			
Conductivity (at 25°C)	1	uS/cm	920	1600	1700
pH	0.1	pH Units	7.3	6.5	7.1
Total Dissolved Solids	5	mg/L	610	1800	1300
<b>Heavy Metals</b>					
Aluminium	0.05	mg/L	0.06	4.1	0.69
Aluminium (filtered)	0.05	mg/L	< 0.05	< 0.05	< 0.05
Barium	0.02	mg/L	0.09	0.20	0.29
Barium (filtered)	0.02	mg/L	0.07	0.04	0.22
Boron	0.05	mg/L	< 0.05	0.10	1.4
Boron (filtered)	0.05	mg/L	< 0.05	0.06	1.6
Cadmium	0.0002	mg/L	< 0.0002	< 0.0002	0.0027
Cadmium (filtered)	0.0002	mg/L	< 0.0002	< 0.0002	0.0004
Copper	0.001	mg/L	0.003	0.007	0.045
Copper (filtered)	0.001	mg/L	0.002	< 0.001	0.004
Lead	0.001	mg/L	0.002	0.007	0.23
Lead (filtered)	0.001	mg/L	< 0.001	< 0.001	0.019
Lithium	0.01	mg/L	0.02	< 0.01	0.13
Lithium (filtered)	0.01	mg/L	0.02	< 0.01	0.12
Manganese	0.005	mg/L	0.027	1.5	0.40
Manganese (filtered)	0.005	mg/L	< 0.005	0.96	0.32
Molybdenum	0.005	mg/L	< 0.005	< 0.005	0.17
Molybdenum (filtered)	0.005	mg/L	< 0.005	< 0.005	0.12
Nickel	0.001	mg/L	0.002	0.007	0.031
Nickel (filtered)	0.001	mg/L	0.001	0.001	0.021
Rubidium	0.001	mg/L	0.006	0.014	0.032
Rubidium (filtered)	0.001	mg/L	0.005	< 0.001	0.030
Strontium	0.01	mg/L	0.16	0.11	1.1
Strontium (filtered)	0.001	mg/L	0.11	0.092	0.97
Uranium	0.005	mg/L	< 0.005	< 0.005	< 0.005
Uranium (filtered)	0.005	mg/L	< 0.005	< 0.005	< 0.005
Zinc	0.005	mg/L	0.059	0.021	1.4
Zinc (filtered)	0.005	mg/L	0.015	< 0.005	0.28

**Sample History**

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

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

Description	Testing Site	Extracted	Holding Time
Conductivity (at 25°C) - Method: LTM-INO-4030	Sydney	Jun 09, 2017	28 Day
pH - Method: LTM-GEN-7090 pH in water by ISE	Sydney	Jun 09, 2017	1 Day
Total Dissolved Solids - Method: 4110 Total Dissolved Solids dried at 180 ± 2°C	Sydney	Jun 08, 2017	7 Day
Heavy Metals - Method: LTM-MET-3040 Metals in Waters by ICP-MS	Sydney	Jun 13, 2017	180 Day
Heavy Metals (filtered) - Method: LTM-MET-3040 Metals in Waters by ICP-MS	Sydney	Jun 08, 2017	180 Day

**Company Name:** Coffey Services Australia Pty Ltd  
**Address:** 43 Quinns Lane  
South Nowra  
NSW 2541

**Order No.:** S27959  
**Report #:** 549323  
**Phone:** 02 4429 5000  
**Fax:** 02 4429 5099

**Received:** Jun 7, 2017 10:47 AM  
**Due:** Jun 15, 2017  
**Priority:** 5 Day  
**Contact Name:** Siva Tadiseti

**Project Name:**  
**Project ID:** 754-SYDGE206015

**Eurofins | mgt Analytical Services Manager : Nibha Vaidya**

Sample Detail						Zinc (filtered)	Zinc	Uranium (filtered)	Uranium	Total Dissolved Solids	Strontium (filtered)	Strontium	Rubidium (filtered)	Rubidium	pH	Nickel (filtered)	Nickel	Molybdenum (filtered)	Molybdenum	Manganese (filtered)	Manganese	Lithium (filtered)	Lithium	Lead (filtered)	Lead	Copper (filtered)	Copper	Conductivity (at 25°C)	Cadmium (filtered)	Cadmium	Boron (filtered)	Boron	Barium (filtered)	Barium	Aluminium (filtered)	Aluminium				
<b>Melbourne Laboratory - NATA Site # 1254 &amp; 14271</b>																																								
<b>Sydney Laboratory - NATA Site # 18217</b>						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<b>Brisbane Laboratory - NATA Site # 20794</b>																																								
<b>Perth Laboratory - NATA Site # 18217</b>																																								
<b>External Laboratory</b>																																								
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID																																			
1	BH1	Jun 06, 2017		Water	S17-Jn06926	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
2	BH2	Jun 06, 2017		Water	S17-Jn06927	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	BH3	Jun 06, 2017		Water	S17-Jn06928	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	BASIN	Jun 06, 2017		Water	S17-Jn06929	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	CREEK	Jun 06, 2017		Water	S17-Jn06930	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	DUP1	Jun 06, 2017		Water	S17-Jn06931	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	DUP2	Jun 06, 2017		Water	S17-Jn06932	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<b>Test Counts</b>						7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7

## Internal Quality Control Review and Glossary

### General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
- All soil results are reported on a dry basis, unless otherwise stated.
- All biota results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- This report replaces any interim results previously issued.

### Holding Times

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

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

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

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

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

### Units

**mg/kg:** milligrams per kilogram

**mg/L:** milligrams per litre

**ug/L:** micrograms per litre

**ppm:** Parts per million

**ppb:** Parts per billion

**%:** Percentage

**org/100mL:** Organisms per 100 millilitres

**NTU:** Nephelometric Turbidity Units

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

### Terms

<b>Dry</b>	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
<b>LOR</b>	Limit of Reporting.
<b>SPIKE</b>	Addition of the analyte to the sample and reported as percentage recovery.
<b>RPD</b>	Relative Percent Difference between two Duplicate pieces of analysis.
<b>LCS</b>	Laboratory Control Sample - reported as percent recovery.
<b>CRM</b>	Certified Reference Material - reported as percent recovery.
<b>Method Blank</b>	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
<b>Surr - Surrogate</b>	The addition of a like compound to the analyte target and reported as percentage recovery.
<b>Duplicate</b>	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
<b>USEPA</b>	United States Environmental Protection Agency
<b>APHA</b>	American Public Health Association
<b>TCLP</b>	Toxicity Characteristic Leaching Procedure
<b>COC</b>	Chain of Custody
<b>SRA</b>	Sample Receipt Advice
<b>QSM</b>	Quality Systems Manual ver 5.1 US Department of Defense
<b>CP</b>	Client Parent - QC was performed on samples pertaining to this report
<b>NCP</b>	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
<b>TEQ</b>	Toxic Equivalency Quotient

### QC - Acceptance Criteria

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

Results <10 times the LOR : No Limit

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

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

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

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.1 where no positive PFAS results have been reported have been reviewed and no data was affected.

### QC Data General Comments

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

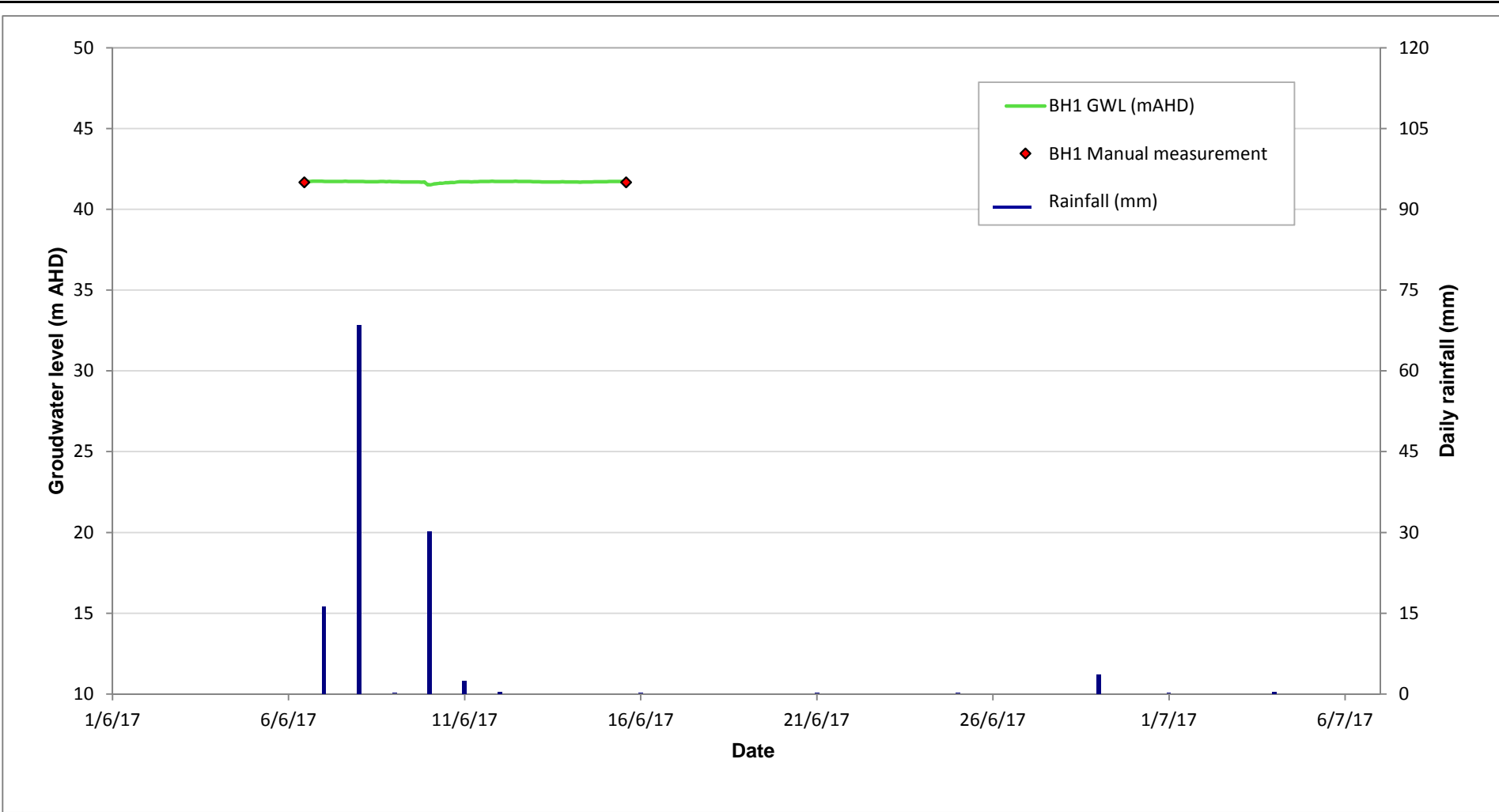
**Quality Control Results**

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
<b>Method Blank</b>							
Total Dissolved Solids	mg/L	< 5			5	Pass	
<b>Method Blank</b>							
<b>Heavy Metals</b>							
Aluminium	mg/L	< 0.05			0.05	Pass	
Aluminium (filtered)	mg/L	< 0.05			0.05	Pass	
Barium	mg/L	< 0.02			0.02	Pass	
Barium (filtered)	mg/L	< 0.02			0.02	Pass	
Boron	mg/L	< 0.05			0.05	Pass	
Boron (filtered)	mg/L	< 0.05			0.05	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Cadmium (filtered)	mg/L	< 0.0002			0.0002	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Copper (filtered)	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Lead (filtered)	mg/L	< 0.001			0.001	Pass	
Lithium	mg/L	< 0.01			0.01	Pass	
Lithium (filtered)	mg/L	< 0.01			0.01	Pass	
Manganese	mg/L	< 0.005			0.005	Pass	
Manganese (filtered)	mg/L	< 0.005			0.005	Pass	
Molybdenum	mg/L	< 0.005			0.005	Pass	
Molybdenum (filtered)	mg/L	< 0.005			0.005	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Nickel (filtered)	mg/L	< 0.001			0.001	Pass	
Rubidium	mg/L	< 0.001			0.001	Pass	
Rubidium (filtered)	mg/L	< 0.001			0.001	Pass	
Strontium	mg/L	< 0.01			0.01	Pass	
Strontium (filtered)	mg/L	< 0.001			0.001	Pass	
Uranium	mg/L	< 0.005			0.005	Pass	
Uranium (filtered)	mg/L	< 0.005			0.005	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
Zinc (filtered)	mg/L	< 0.005			0.005	Pass	
<b>LCS - % Recovery</b>							
Total Dissolved Solids	%	109			80-120	Pass	
<b>LCS - % Recovery</b>							
<b>Heavy Metals</b>							
Aluminium	%	87			70-130	Pass	
Barium	%	112			70-130	Pass	
Boron	%	100			70-130	Pass	
Boron (filtered)	%	95			70-130	Pass	
Cadmium	%	103			70-130	Pass	
Cadmium (filtered)	%	96			70-130	Pass	
Copper	%	93			70-130	Pass	
Copper (filtered)	%	99			70-130	Pass	
Lead	%	122			70-130	Pass	
Lead (filtered)	%	93			70-130	Pass	
Lithium	%	77			70-130	Pass	
Manganese	%	91			70-130	Pass	
Molybdenum	%	109			70-130	Pass	
Nickel	%	93			70-130	Pass	
Nickel (filtered)	%	101			70-130	Pass	
Rubidium	%	89			70-130	Pass	



Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Strontium			%	94			70-130	Pass	
Uranium			%	123			70-130	Pass	
Zinc			%	91			70-130	Pass	
Zinc (filtered)			%	99			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
<b>Spike - % Recovery</b>									
<b>Heavy Metals</b>				Result 1					
Aluminium	S17-Jn05928	NCP	%	77			70-130	Pass	
Barium	S17-Jn05928	NCP	%	107			70-130	Pass	
Boron	M17-My30919	NCP	%	79			70-130	Pass	
Cadmium	M17-My30919	NCP	%	93			70-130	Pass	
Copper	M17-My30919	NCP	%	77			70-130	Pass	
Lead	M17-My30919	NCP	%	95			70-130	Pass	
Lithium	S17-Jn05928	NCP	%	73			70-130	Pass	
Manganese	S17-Jn05928	NCP	%	72			70-130	Pass	
Molybdenum	S17-Jn05928	NCP	%	105			70-130	Pass	
Nickel	M17-My30919	NCP	%	78			70-130	Pass	
Rubidium	S17-Jn05928	NCP	%	74			70-130	Pass	
Strontium	S17-Jn05928	NCP	%	82			70-130	Pass	
Uranium	S17-Jn05928	NCP	%	108			70-130	Pass	
Zinc	M17-My30919	NCP	%	75			70-130	Pass	
<b>Spike - % Recovery</b>									
<b>Heavy Metals</b>				Result 1					
Boron (filtered)	S17-Jn11981	NCP	%	84			70-130	Pass	
Cadmium (filtered)	S17-Jn11981	NCP	%	105			70-130	Pass	
Copper (filtered)	S17-Jn11981	NCP	%	99			70-130	Pass	
Lead (filtered)	S17-Jn11981	NCP	%	90			70-130	Pass	
Nickel (filtered)	S17-Jn11981	NCP	%	101			70-130	Pass	
Zinc (filtered)	S17-Jn11981	NCP	%	107			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
<b>Duplicate</b>									
				Result 1	Result 2	RPD			
Conductivity (at 25°C)	S17-Jn06926	CP	uS/cm	2200	2200	<1	30%	Pass	
<b>Duplicate</b>									
<b>Heavy Metals</b>				Result 1	Result 2	RPD			
Aluminium	S17-My31392	NCP	mg/L	**	**	6.0	30%	Pass	
Barium	S17-Jn05927	NCP	mg/L	0.03	0.03	8.0	30%	Pass	
Boron	S17-My31392	NCP	mg/L	**	**	10	30%	Pass	
Cadmium	M17-My30918	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Copper	M17-My30918	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead	M17-My30918	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lithium	S17-Jn05927	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Manganese	S17-Jn05927	NCP	mg/L	0.032	0.032	1.0	30%	Pass	
Molybdenum	M17-My30918	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Nickel	S17-My31392	NCP	mg/L	**	**	11	30%	Pass	
Rubidium	S17-Jn05927	NCP	mg/L	0.002	0.002	11	30%	Pass	
Strontium	S17-Jn05927	NCP	mg/L	0.01	0.01	1.0	30%	Pass	
Uranium	S17-Jn05927	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Zinc	M17-My30918	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
<b>Duplicate</b>									
				Result 1	Result 2	RPD			
Total Dissolved Solids	S17-Jn06929	CP	mg/L	1400	1300	5.0	30%	Pass	

Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Boron (filtered)	S17-Jn11980	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass
Cadmium (filtered)	S17-Jn11980	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass
Copper (filtered)	S17-Jn11980	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Lead (filtered)	S17-Jn11980	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Nickel (filtered)	S17-Jn11980	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass

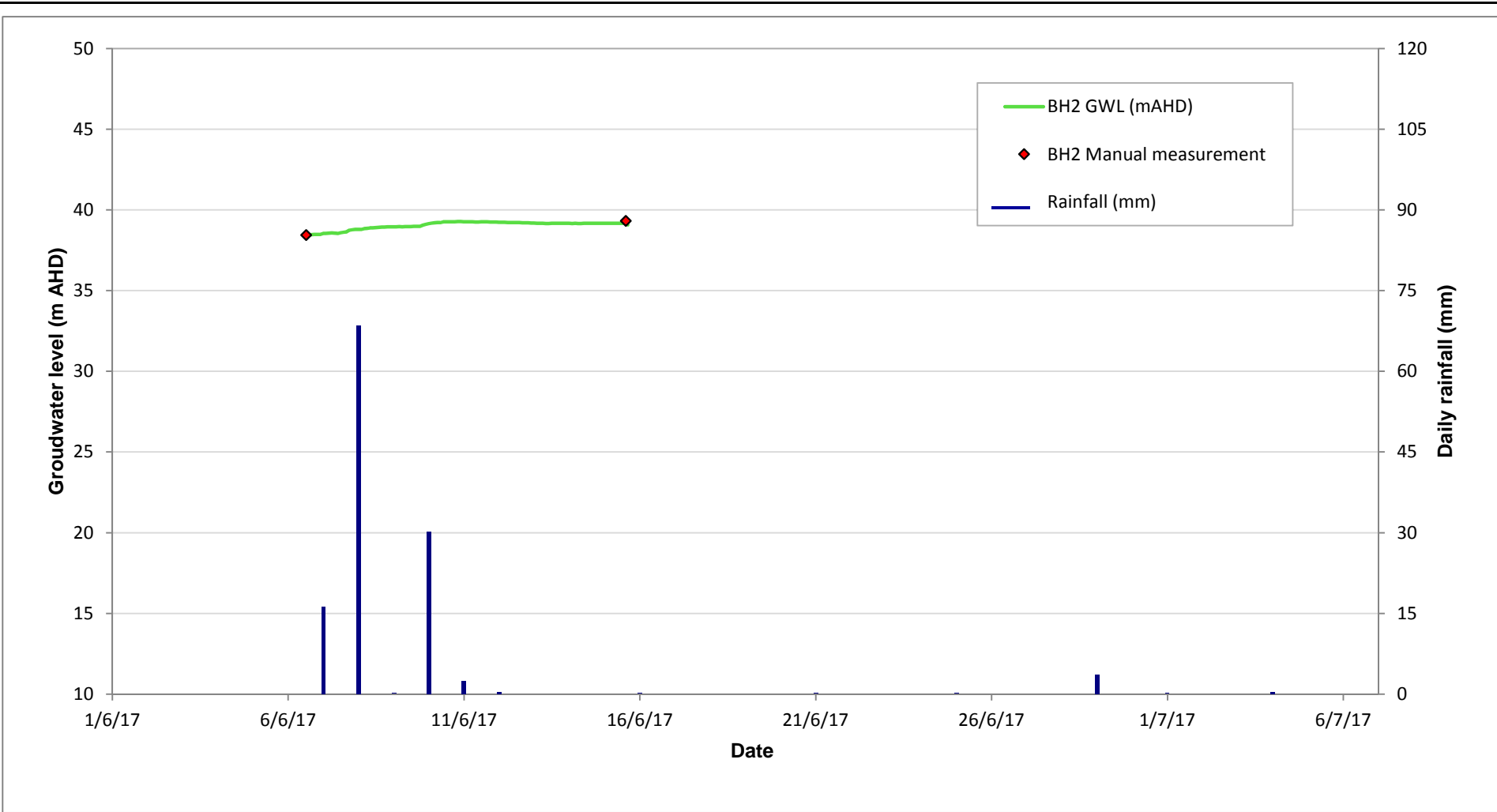


Bureau of Meteorology Station  
 Richmond RAAF NSW 67105

drawn	ST
approved	RB
date	19-Jul-17
scale	N/A
original size	A4



client:	Sell and Parker Pty Ltd	
project:	45 Tattersall Road Black Town	
title:	GROUNDWATER LEVELS - BH1	
project no:	SYDGE206015	figure no: 1

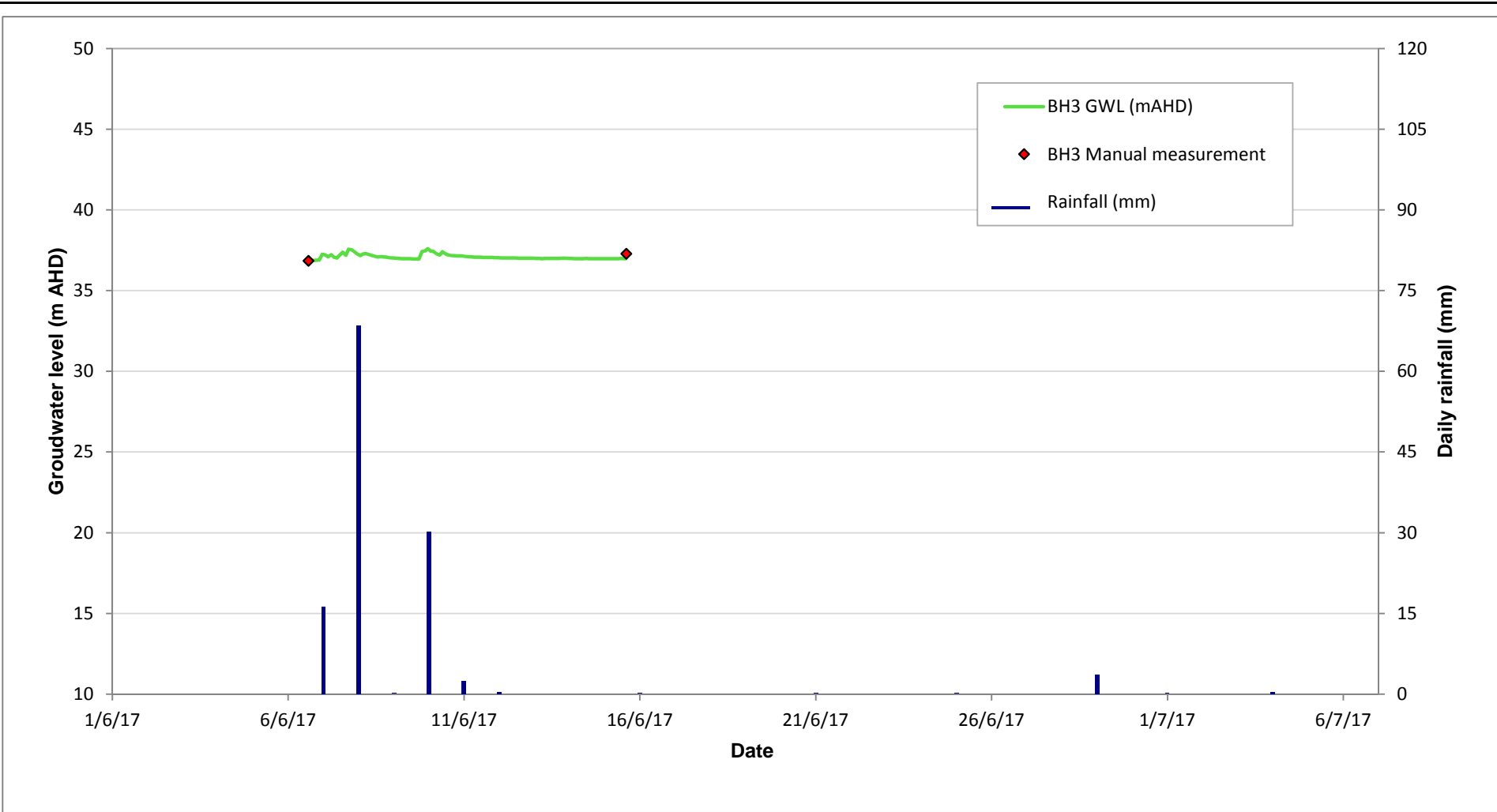


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 Richmond RAAF NSW 67105

drawn	ST
approved	RB
date	19-Jul-17
scale	N/A
original size	A4



client:	Sell and Parker Pty Ltd	
project:	45 Tattersall Road Black Town	
title:	GROUNDWATER LEVELS - BH2	
project no:	SYDGE206015	figure no: 2

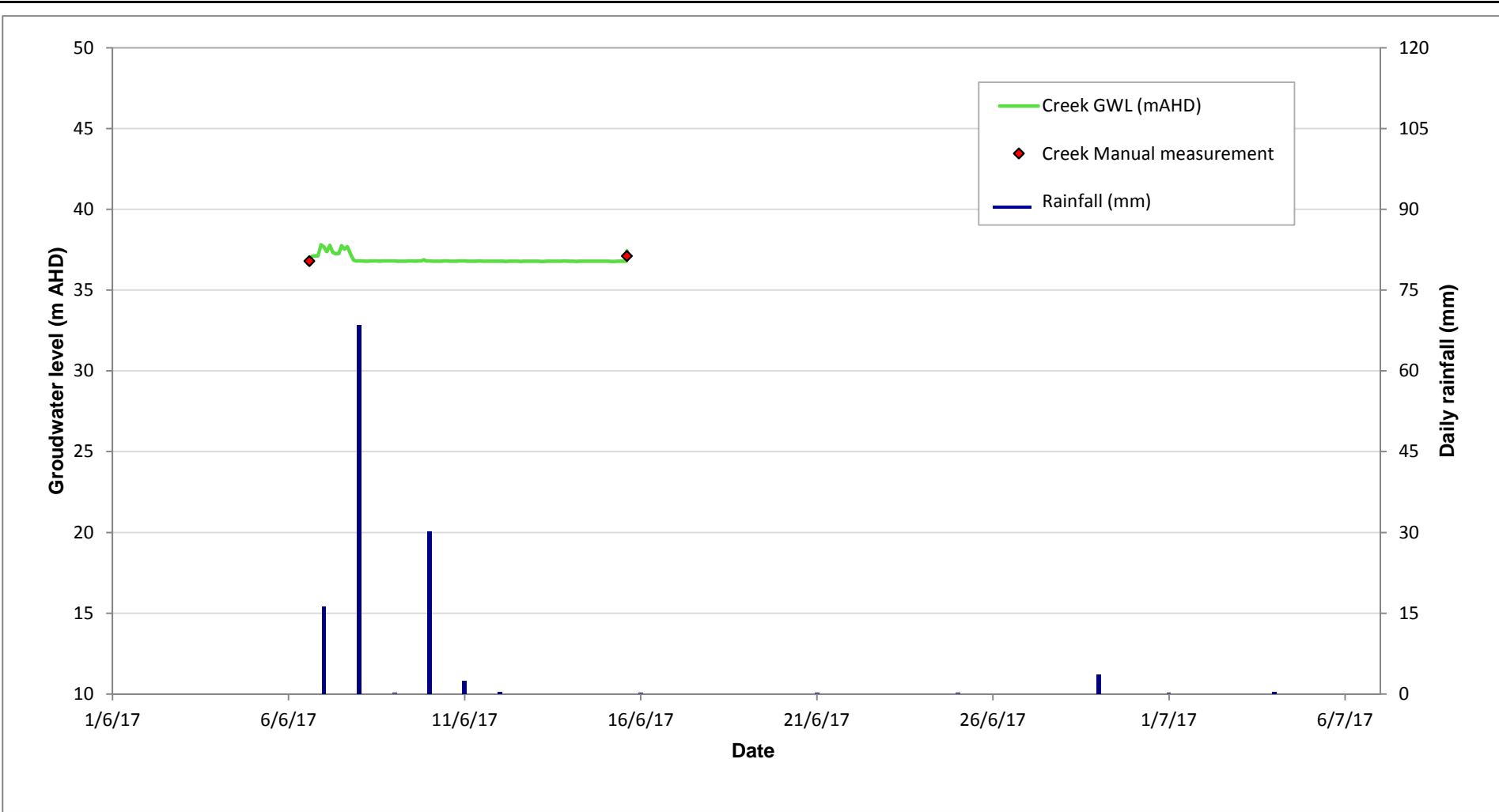


Bureau of Meteorology Station  
 Richmond RAAF NSW 67105

drawn	ST
approved	RB
date	19-Jul-17
scale	N/A
original size	A4



client:	Sell and Parker Pty Ltd	
project:	45 Tattersall Road Black Town	
title:	GROUNDWATER LEVELS - BH3	
project no:	SYDGE206015	figure no: 3

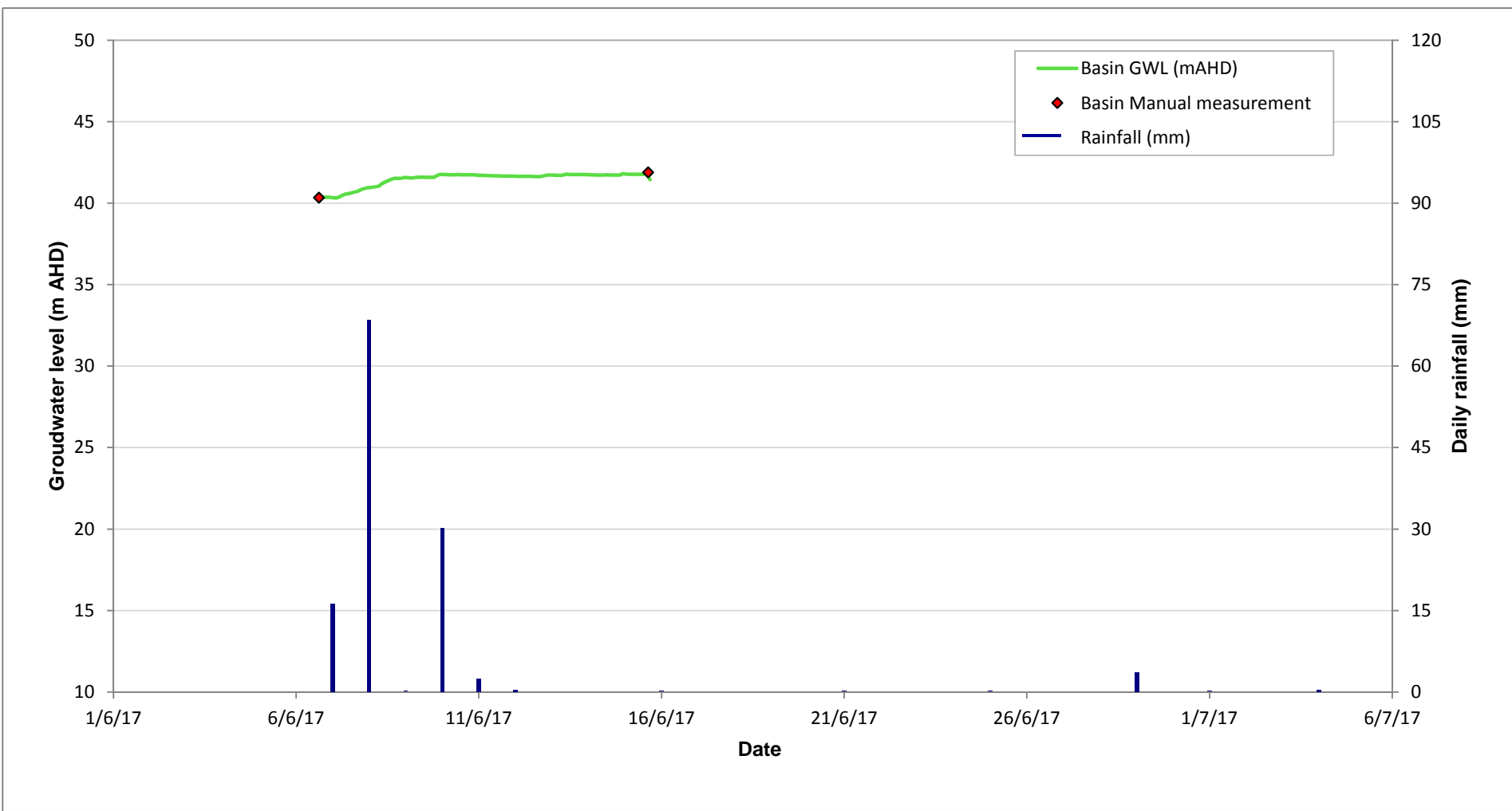


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drawn	ST
approved	RB
date	19-Jul-17
scale	N/A
original size	A4



client:	Sell and Parker Pty Ltd	
project:	45 Tattersall Road Black Town	
title:	GROUNDWATER LEVELS - Creek	
project no:	SYDGE206015	figure no: 4



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drawn	ST
approved	RB
date	19-Jul-17
scale	N/A
original size	A4



client:	Sell and Parker Pty Ltd	
project:	45 Tattersall Road Black Town	
title:	GROUNDWATER LEVELS - Basin	
project no:	SYDGE206015	figure no: 5

**Comments**
**Sample Integrity**

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

**Authorised By**

Nibha Vaidya	Analytical Services Manager
Ryan Hamilton	Senior Analyst-Inorganic (NSW)
Ryan Hamilton	Senior Analyst-Metal (NSW)


**Glenn Jackson**
**National Operations Manager**

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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# Engineering Log - Borehole


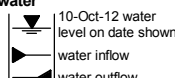
Borehole ID. **BH1**  
 sheet: 1 of 1  
 project no. **SYDGE206015**  
 date started: **31 May 2017**  
 date completed: **31 May 2017**  
 logged by: **RN**  
 checked by: **ST**

client: **Sell and Parker**  
 principal:  
 project: **Monitoring Well Installation**  
 location: **45 Tattersall Road, Blacktown**

position: Not Specified      surface elevation: Not Specified      angle from horizontal: 90°  
 drill model: , Track mounted      drilling fluid:      hole diameter :

drilling information				material substance								
method & support	penetration	water	samples & field tests	RL (m)	depth (m)	graphic log	classification symbol	material description	moisture condition	consistency / relative density	hand penetrometer (kPa)	structure and additional observations
					0.0			<b>FILL: Clayey SILT:</b> fine to coarse grained, low liquid limit, brown, with some fine gravel, dry.				
					1.0			<b>SILT:</b> fine grained, low liquid limit, dry.				
					2.5			2.5 m: refusal from auger drilling				
					3.0			<b>SHALE.</b>				
					5.0			Borehole BH1 terminated at 5.0 m				

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<b>method</b> AD auger drilling* AS auger screwing* HA hand auger W washbore  * bit shown by suffix e.g. AD/T B blank bit T TC bit V V bit	<b>support</b> M mud      N nil C casing  <b>penetration</b>  no resistance ranging to refusal  <b>water</b>  10-Oct-12 water level on date shown water inflow water outflow	<b>samples &amp; field tests</b> B bulk disturbed sample D disturbed sample E environmental sample SS split spoon sample U## undisturbed sample ##mm diameter HP hand penetrometer (kPa) N standard penetration test (SPT) N* SPT - sample recovered Nc SPT with solid cone VS vane shear; peak/remoulded (kPa) R refusal HB hammer bouncing	<b>classification symbol &amp; soil description</b> based on Unified Classification System  <b>moisture</b> D dry M moist W wet Wp plastic limit Wl liquid limit	<b>consistency / relative density</b> VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense
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# Engineering Log - Borehole


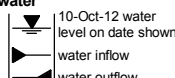
Borehole ID: **BH2**  
 sheet: 1 of 1  
 project no: **SYDGE206015**  
 date started: **31 May 2017**  
 date completed: **31 May 2017**  
 logged by: **RN**  
 checked by: **ST**

client: **Sell and Parker**  
 principal:  
 project: **Monitoring Well Installation**  
 location: **45 Tattersall Road, Blacktown**

position: Not Specified      surface elevation: Not Specified      angle from horizontal: 90°  
 drill model: , Track mounted      drilling fluid:      hole diameter :

drilling information				material substance								
method & support	penetration	water	samples & field tests	RL (m)	depth (m)	graphic log	classification symbol	material description SOIL TYPE: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	hand penetrometer (kPa)	structure and additional observations
					0.0			<b>Silty CLAY:</b> medium to high plasticity, brown, moist (0-0.5m).				
					1.0			<b>CLAY:</b> medium to high plasticity, brown-red mottled, moist.				
					2.0							
					3.0							
					4.0			3.2 m: becoming high plasticity, grey-red mottled, moist				
					5.0			<b>CLAY:</b> high plasticity, grey-brown, wet.				
					6.0							
					7.0							
					5.0			Borehole BH2 terminated at 5.0 m				

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<b>method</b> AD auger drilling* AS auger screwing* HA hand auger W washbore  * bit shown by suffix e.g. AD/T B blank bit T TC bit V V bit	<b>support</b> M mud      N nil C casing  <b>penetration</b>  <b>water</b>  10-Oct-12 water level on date shown water inflow water outflow	<b>samples &amp; field tests</b> B bulk disturbed sample D disturbed sample E environmental sample SS split spoon sample U## undisturbed sample ##mm diameter HP hand penetrometer (kPa) N standard penetration test (SPT) N* SPT - sample recovered Nc SPT with solid cone VS vane shear; peak/remoulded (kPa) R refusal HB hammer bouncing	<b>classification symbol &amp; soil description</b> based on Unified Classification System  <b>moisture</b> D dry M moist W wet Wp plastic limit Wl liquid limit	<b>consistency / relative density</b> VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense
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# Engineering Log - Borehole

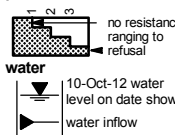
Borehole ID: **BH3**  
 sheet: 1 of 1  
 project no: **SYDGE206015**  
 date started: **31 May 2017**  
 date completed: **31 May 2017**  
 logged by: **RN**  
 checked by: **ST**

client: **Sell and Parker**  
 principal:  
 project: **Monitoring Well Installation**  
 location: **45 Tattersall Road, Blacktown**

position: Not Specified surface elevation: Not Specified angle from horizontal: 90°  
 drill model: , Track mounted drilling fluid: hole diameter :

drilling information				material substance										
method & support	1 penetration	2 penetration	3 penetration	water	samples & field tests	RL (m)	depth (m)	graphic log	classification symbol	material description	moisture condition	consistency / relative density	hand penetrometer (kPa)	structure and additional observations
							0.0			<b>Silty CLAY:</b> medium to high plasticity, brown, moist (0-0.5m).				
							1.0			<b>CLAY:</b> medium to high plasticity, brown-red mottled, moist.				
							2.0							
							3.0			2.9 m: becoming high plasticity, grey-red mottled, moist to wet				
							4.0			3.9 m: high plasticity, grey-brown, wet				
							5.0			Borehole BH3 terminated at 4.8 m				
							6.0							
							7.0							

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<b>method</b> AD auger drilling* AS auger screwing* HA hand auger W washbore  * bit shown by suffix e.g. AD/T B blank bit T TC bit V V bit	<b>support</b> M mud N nil C casing  <b>penetration</b>  no resistance ranging to refusal 10-Oct-12 water level on date shown water inflow water outflow	<b>samples &amp; field tests</b> B bulk disturbed sample D disturbed sample E environmental sample SS split spoon sample U## undisturbed sample ##mm diameter HP hand penetrometer (kPa) N standard penetration test (SPT) N* SPT - sample recovered Nc SPT with solid cone VS vane shear; peak/remoulded (kPa) R refusal HB hammer bouncing	<b>classification symbol &amp; soil description</b> based on Unified Classification System  <b>moisture</b> D dry M moist W wet Wp plastic limit Wl liquid limit	<b>consistency / relative density</b> VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense
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# Piezometer Installation Log

client: **Sell and Parker**

principal:

project: **Monitoring Well Installation**








location: **45 Tattersall Road, Blacktown**

Hole ID: **BH2**  
 sheet: 1 of 1  
 project no. **SYDGE206015**  
 date started: **31 May 2017**  
 date completed: **31 May 2017**  
 logged by: **RN**  
 checked by: **ST**

position: Not Specified      surface elevation: Not Specified      angle from horizontal: 90°  
 equipment type: , Track mounted      drilling fluid:      hole diameter :

drilling information				material substance		piezometer construction details	
method & support	water	RL (m)	depth (m)	material name		bore construction license: drilling company: driller: driller's permit no.:	
			0			BH2	
			1				
			2				
			3				
			4				
			5				
			6				
			7				

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method & support see engineering log for details	graphic log / core recovery	ID	type	installation date	stickup (m)	tip depth (m)	water level (m)	Relative Levels (AHD)		
							stickup	tip	water level	
<b>water</b>  10-Oct-12, water level on date shown  water inflow  complete drilling fluid loss  partial drilling fluid loss  water pressure test result (lugesons) for depth interval shown	 core recovered (graphic symbols indicate material)  no core recovered	BH2	standpipe piezo.			5.00 m				

# Piezometer Installation Log

client: **Sell and Parker**

principal:

project: **Monitoring Well Installation**



location: **45 Tattersall Road, Blacktown**

Hole ID: **BH3**  
 sheet: 1 of 1  
 project no. **SYDGE206015**  
 date started: **31 May 2017**  
 date completed: **31 May 2017**  
 logged by: **RN**  
 checked by: **ST**

position: Not Specified      surface elevation: Not Specified      angle from horizontal: 90°  
 equipment type: , Track mounted      drilling fluid:      hole diameter :

drilling information				material substance	piezometer construction details	
method & support	water	RL (m)	depth (m)	material name	bore construction license: drilling company: driller: driller's permit no.:	
			0		BH3	
			1		Bentonite	
			2			
			3		Sand	
			4			
			5			
			6			
			7			

CDF\_0\_9\_06\_LIBRARY.GLB rev:AS Log COF PIEZOMETER ONE PAGE SUMMARY 754-SYDGE206015.GPJ <<DrawingFile>> 20/07/2017 11:31

method & support see engineering log for details	graphic log / core recovery	ID	type	installation date	stickup (m)	tip depth (m)	water level (m)	Relative Levels (AHD)		
water								stickup	tip	water level
10-Oct-12, water level on date shown water inflow complete drilling fluid loss partial drilling fluid loss  water pressure test result (lugeons) for depth interval shown	 core recovered (graphic symbols indicate material)  no core recovered	BH3	standpipe piezo.			4.80 m				

Borehole/Piezometer: **Bt1**

Sheet: **1** of **1**

**Slug Test Logging Field Sheet (using data logger)**

Client: <b>Sell &amp; Parker</b>	Job No.: <b>754-SYDGE206015</b>
Principal:	Date: <b>06/06/2017</b>
Project:	Tested by: <b>SE</b>
Location: <b>45 Tattersall Rd Blackburn</b>	Checked by:

For borehole data please see attached **Groundwater Data Logging Field Sheet**

**FIELD OPERATIONS:**

(please tick (✓) boxes when action is completed)

- ▶ 1) Synchronise personal timing device to logger, up to 5 second accuracy may be required
- ▶ 2) Launch logger (usually at a 1 or 2 second interval)  logging interval: **1 second**
- ▶ 3) Has logger been correctly launched (on computer)? **(Y)** / N
- ▶ 4) Place logger in hole
- ▶ 5) **IMPORTANT:** Dip to top of casing (to record initial water level) Dip: **3.96m** Time: **9.10 AM**
- ▶ 6) Place slug in hole  **(Bailer)** Time:
- ▶ 7) Dip to top of casing (immediately after slug placed in hole) Dip: Time:
- ▶ 8) Dip occasionally if required to understand how fast water level is changing Dip: Time:
- ▶ 9) Remove slug from hole (once water level appears to be at 90% recovery) Time: **9.23 AM**
- ▶ 10) Dip occasionally if required to understand how fast water level is changing Dip: **4.12m** Time: **9.24 AM**
- ▶ 11) **IMPORTANT:** Dip to top of casing (just before logger is removed from hole) Dip: **4.02m** Time: **9.47 AM**
- ▶ 12) Remove logger from hole
- ▶ 13) Connect to computer and download
- ▶ 14) Plot results
- ▶ 15) Return to **Groundwater Data Logging Field Sheet** (if logging data at this borehole) **logger relaunched (2hr interval)**

▶ PLEASE CHECK THAT **ALL** OF THE ABOVE STEPS HAVE BEEN COMPLETED

NOTES: <b>initial dip</b>	<b>Dip after bailing.</b>
<b>GWL 3.98m TOC } 8.55 AM</b>	<b>4.12m @ 9.24 AM</b>
<b>DWT 4.87m TOC }</b>	<b>4.02m @ 9.47 AM</b>
	<b>4.06m @ 9.33 AM</b>
	<b>4.03m @ 9.42 AM</b>

Borehole/Piezometer: **BH2**

Sheet: **1** of **1**

**Slug Test Logging Field Sheet (using data logger)**

Client: <b>Sell &amp; Parker</b>	Job No.: <b>754-SIDRE206015</b>
Principal:	Date: <b>06/06/2017</b>
Project:	Tested by: <b>SE</b>
Location: <b>45 Tattersall Rd, Blacktown</b>	Checked by:

For borehole data please see attached **Groundwater Data Logging Field Sheet**

**FIELD OPERATIONS:**

(please tick (✓) boxes when action is completed)

- ▶ 1) Synchronise personal timing device to logger, up to 5 second accuracy may be required
- ▶ 2) Launch logger (usually at a 1 or 2 second interval)  logging interval: **1 second**
- ▶ 3) Has logger been correctly launched (on computer)?  Y  N
- ▶ 4) Place logger in hole
- ▶ 5) **IMPORTANT:** Dip to top of casing (to record initial water level) Dip: **2.91m** Time: **11:23AM**
- ▶ 6) Place slug in hole  **(Bailer)** Time:
- ▶ 7) Dip to top of casing (immediately after slug placed in hole) Dip: Time:
- ▶ 8) Dip occasionally if required to understand how fast water level is changing Dip: Time:
- ▶ 9) Remove slug from hole (once water level appears to be at 90% recovery) Time: **11:27AM**
- ▶ 10) Dip occasionally if required to understand how fast water level is changing Dip: **3.05m** Time: **11:28AM**
- ▶ 11) **IMPORTANT:** Dip to top of casing (just before logger is removed from hole) Dip: **2.92m** Time: **11:42AM**
- ▶ 12) Remove logger from hole
- ▶ 13) Connect to computer and download
- ▶ 14) Plot results
- ▶ 15) Return to **Groundwater Data Logging Field Sheet** (if logging data at this borehole) **logger relaunched (2 hr interval)**

▶ PLEASE CHECK THAT **ALL** OF THE ABOVE STEPS HAVE BEEN COMPLETED

NOTES: <b>initial dip</b>	<b>Dip after bailing</b>
<b>GWL 2.91m TDC 11:20AM</b>	<b>3.05m @ 11:28AM</b>
<b>DWH 5.90m TDC</b>	<b>2.92m @ 11:42AM</b>
	<b>2.96m @ 11:33AM</b>
	<b>2.93m @ 11:37AM</b>



Borehole/Piezometer: **BH3**

Sheet: **1** of **1**

**Slug Test Logging Field Sheet (using data logger)**

Client: <b>Sell &amp; Parker</b>	Job No.: <b>754-SYDGE 206015</b>
Principal:	Date: <b>06/06/2017</b>
Project:	Tested by: <b>SE</b>
Location: <b>45 Tattersall Rd Blacktown</b>	Checked by:

For borehole data please see attached **Groundwater Data Logging Field Sheet**

**FIELD OPERATIONS:**

(please tick (✓) boxes when action is completed)

- ▶ 1) Synchronise personal timing device to logger, up to 5 second accuracy may be required
- ▶ 2) Launch logger (usually at a 1 or 2 second interval)  logging interval: **1 second**
- ▶ 3) Has logger been correctly launched (on computer)? **(Y)** / N
- ▶ 4) Place logger in hole
- ▶ 5) **IMPORTANT:** Dip to top of casing (to record initial water level) Dip: **3.53m** Time: **12:40 PM**
- ▶ 6) Place slug in hole  **(Bailer)** Time:
- ▶ 7) Dip to top of casing (immediately after slug placed in hole) Dip: Time:
- ▶ 8) Dip occasionally if required to understand how fast water level is changing Dip: Time:
- ▶ 9) Remove slug from hole (once water level appears to be at 90% recovery) Time: **12:53 PM**
- ▶ 10) Dip occasionally if required to understand how fast water level is changing Dip: **3.63m** Time: **12:54 PM**
- ▶ 11) **IMPORTANT:** Dip to top of casing (just before logger is removed from hole) Dip: **3.545m** Time: **1:13 PM**
- ▶ 12) Remove logger from hole
- ▶ 13) Connect to computer and download
- ▶ 14) Plot results
- ▶ 15) Return to **Groundwater Data Logging Field Sheet** (if logging data at this borehole) **logger relaunched (2 hr interval)**

▶ PLEASE CHECK THAT ALL OF THE ABOVE STEPS HAVE BEEN COMPLETED

NOTES:	initial Dip	Dip after bailing
GWL	3.53m TOC } 12.30 PM	3.63 m @ 12.54 PM
DOH	5.54m TOC }	3.56m @ 1:05 PM
		3.62 m @ 12.58 PM
		3.545m @ 1:13 PM
		3.58 m @ 1:03 PM

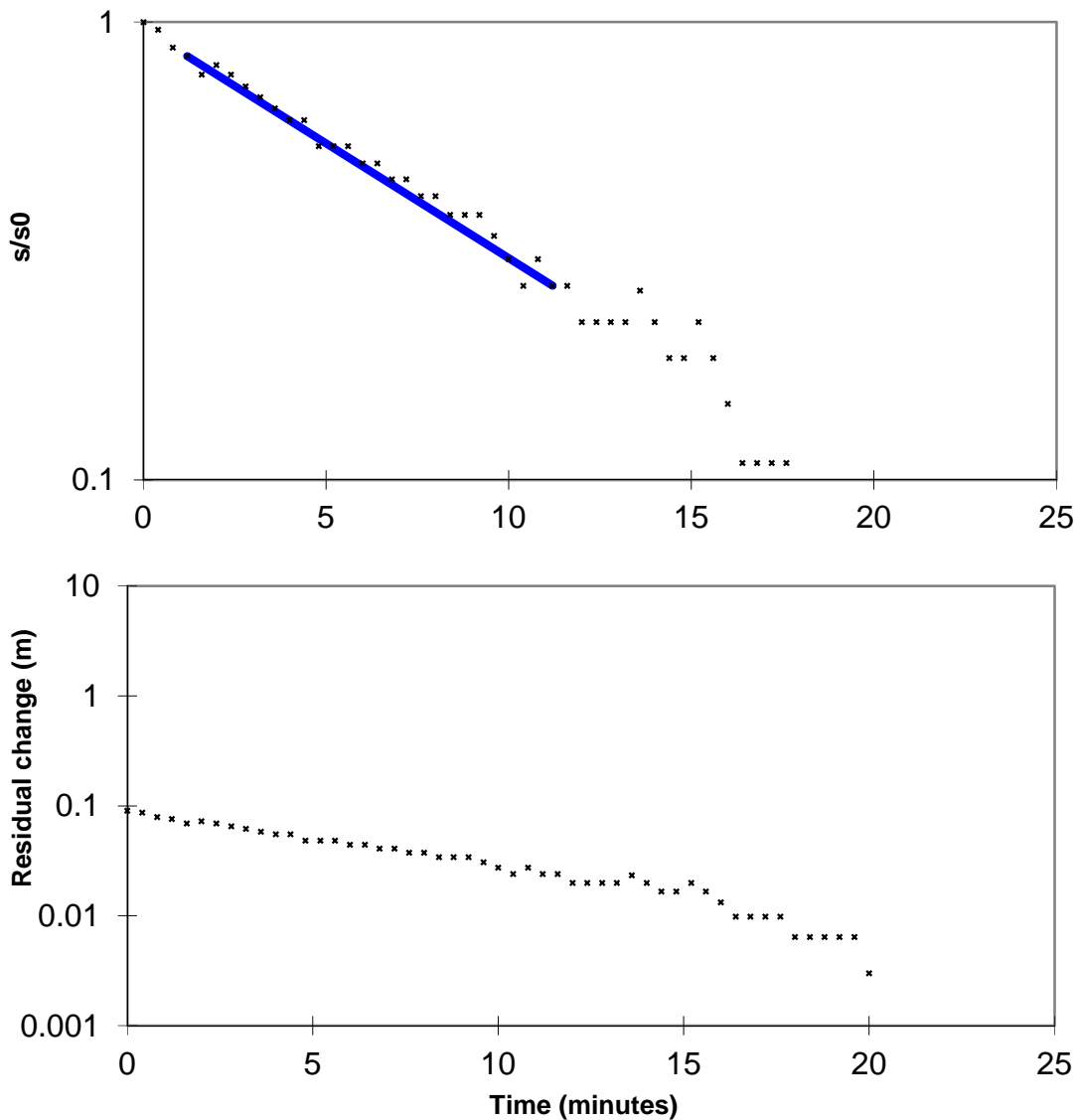
# RISING HEAD TEST ANALYSIS

Bore Data	Units	Value
Initial groundwater level	m	3.87
Groundwater level at t=0	m	3.96
Casing radius (r)	m	0.025
Bore radius (R)	m	0.05
Screened interval length (L)	m	1
Match time start	min	1
Match time end	min	11
<b>Characteristic Time (t<sub>0</sub>)</b>	<b>min</b>	<b>8.89</b>
<b>Hydraulic Conductivity (K)</b>	<b>m/day</b>	<b>0.1516</b>


**Borehole: BH1**

**Method Developed by Hvorslev (1951)**

$$K = \frac{r^2 \ln(L/R)}{2Lt_0}$$



Reference: Hvorslev, M.J. (1951), Time lag and soil permeability in ground water observations. U.S. Army Corps of Engineers Waterway Experimentation Station, Bulletin 36.

drawn	<b>ST</b>		client:	<b>Sell and Parker</b>	
approved	<b>RJB</b>		project:	<b>Water Storage Basin Assessment</b>	
date	<b>20 Jul 2017</b>		title:	<b>RISING HEAD TEST - BH1</b>	
scale	<b>AS SHOWN</b>		project no:	<b>754-SYDEN206015</b>	<b>Figure ST1</b>
original size	<b>A4</b>				

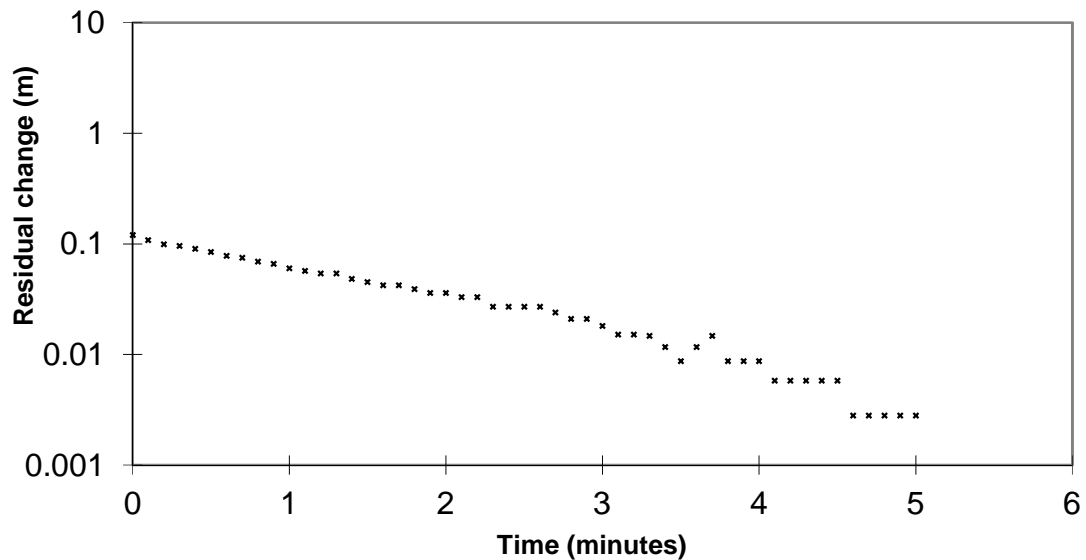
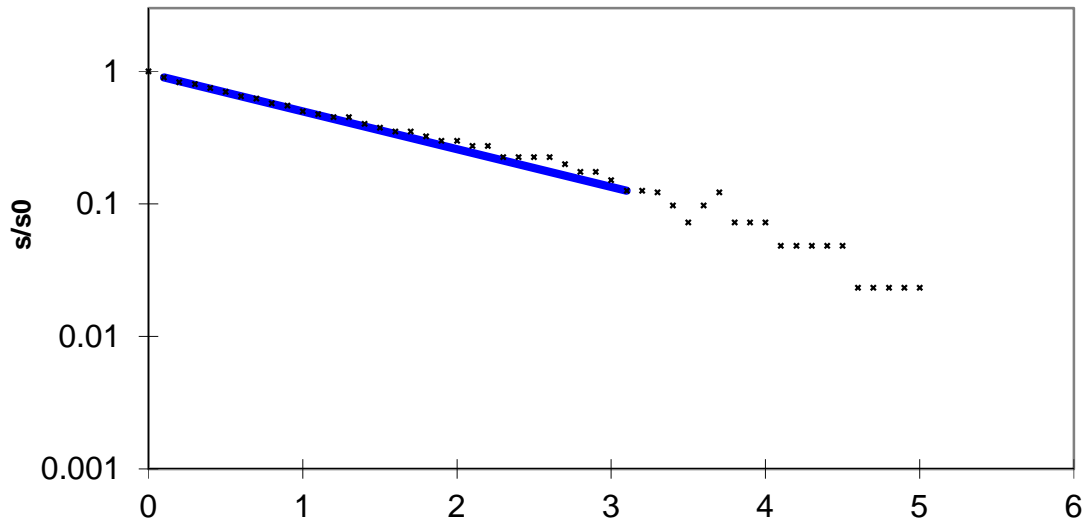
# RISING HEAD TEST ANALYSIS

Bore Data	Units	Value
Initial groundwater level	m	2.79
Groundwater level at t=0	m	2.91
Casing radius (r)	m	0.025
Bore radius (R)	m	0.05
Screened interval length (L)	m	3
Match time start	min	0.1
Match time end	min	3
<b>Characteristic Time (t<sub>0</sub>)</b>	<b>min</b>	<b>1.68</b>
<b>Hydraulic Conductivity (K)</b>	<b>m/day</b>	<b>0.3659</b>

**Borehole: BH2**

**Method Developed by  
Hvorslev (1951)**

$$K = \frac{r^2 \ln(L/R)}{2Lt_0}$$



Reference: Hvorslev, M.J. (1951), Time lag and soil permeability in ground water observations. U.S. Army Corps of Engineers Waterway Experimentation Station, Bulletin 36.

drawn	<b>ST</b>
approved	<b>RJB</b>
date	<b>20 Jul 2017</b>
scale	<b>AS SHOWN</b>
original size	<b>A4</b>



client:	<b>Sell and Parker</b>	
project:	<b>Water Storage Basin Assessment</b>	
title:	<b>RISING HEAD TEST - BH2</b>	
project no:	<b>754-SYDEN206015</b>	<b>Figure ST2</b>

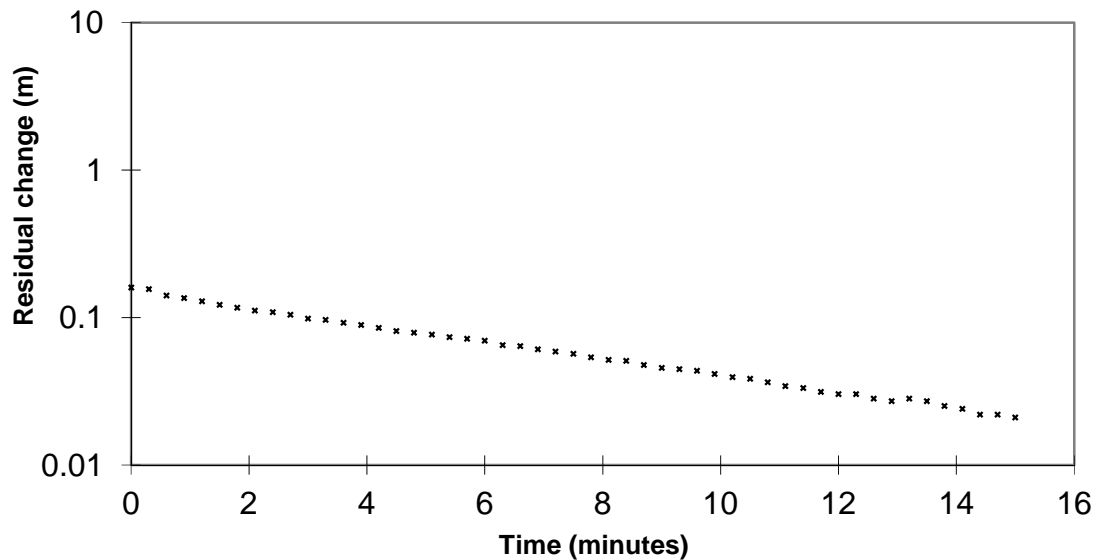
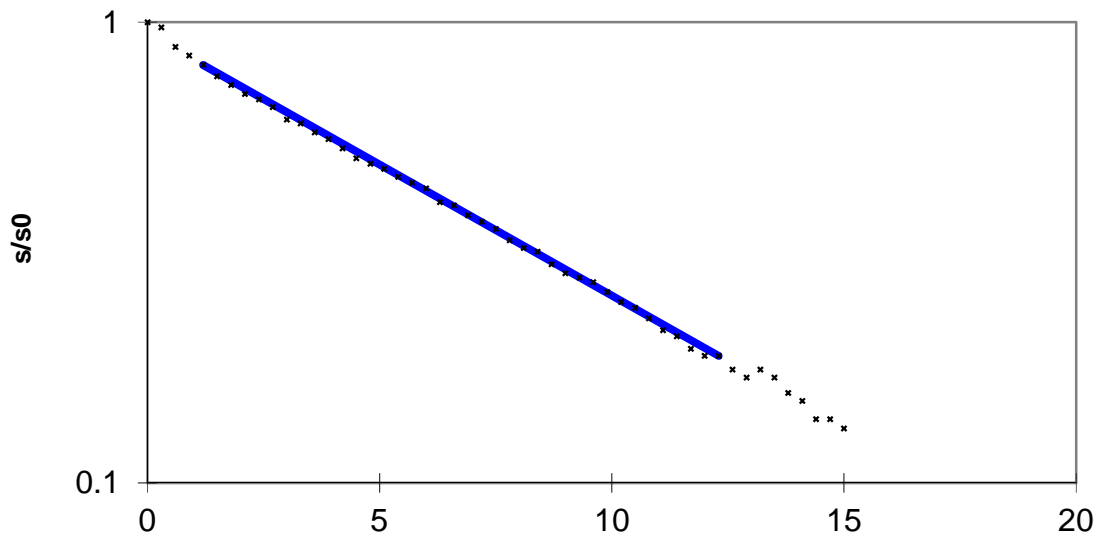
# RISING HEAD TEST ANALYSIS

Bore Data	Units	Value
Initial groundwater level	m	3.37
Groundwater level at t=0	m	3.53
Casing radius (r)	m	0.025
Bore radius (R)	m	0.05
Screened interval length (L)	m	3
Match time start	min	1
Match time end	min	12
Characteristic Time (t <sub>0</sub> )	min	7.67
Hydraulic Conductivity (K)	m/day	0.0800


Borehole: BH3

Method Developed by  
Hvorslev (1951)

$$K = \frac{r^2 \ln(L/R)}{2Lt_0}$$



Reference: Hvorslev, M.J. (1951), Time lag and soil permeability in ground water observations. U.S. Army Corps of Engineers Waterway Experimentation Station, Bulletin 36.

drawn	ST		client:	Sell and Parker	
approved	RJB		project:	Water Storage Basin Assessment	
date	20 Jul 2017		title:	RISING HEAD TEST - BH3	
scale	AS SHOWN		project no:	754-SYDEN206015	Figure ST3
original size	A4				

## **APPENDIX O DPIE PLAN APPROVAL**



Mr Sean Fishwick  
Senior Environmental Consultant  
Arcadis  
Level 16, 580 George Street  
SYDNEY NSW 2000

Dear Mr Fishwick

**Kings Park Metal Recycling Facility (SSD 5041)  
Approval of Environmental Management Plans**

I refer to your email dated 23 August 2019, seeking approval for the following management plans:

- Waste Monitoring Management Plan (WMMP) (Condition B1, Part B, Schedule 2)
- Water Management Plan (WMP) (Condition B4, Part B, Schedule 2)
- Air Quality Management Plan (AQMP) (Condition B17, Part B, Schedule 2)
- Noise Management Plan (NMP) (Condition B29, Part B, Schedule 2)
- Emergency Response Plan (ERP) (Condition B36, Part B, Schedule 2)
- Landscape Management Plan (LMP) (Condition B39, Part B, Schedule 2)
- Operational Environmental Management Strategy (OEMS) (Condition C3, Part C, Schedule 2).

The Department has reviewed the revised management plans and concludes they are consistent with the relevant conditions. As such, the following plans are approved:

- Waste Monitoring Management Plan, prepared by Arcadis, dated 12 September 2019, Revision F
- Water Management Plan, prepared by Arcadis, dated 12 September 2019, Revision H
- Air Quality Management Plan, prepared by Arcadis, dated 11 September 2019, Revision E
- Noise Management Plan, prepared by Arcadis, dated 12 September 2019, Revision E
- Emergency Response Plan, prepared by Arcadis, dated 11 September 2019, Revision F
- Landscape Management Plan, prepared by Arcadis, dated 11 September 2019, Revision E
- Operational Environmental Management Plan, prepared by Arcadis, dated 12 September 2019, Revision E.

Should you have any queries in relation to this matter, please contact Bruce Zhang, Acting Senior Environmental Assessment Officer on the above contact details.

Yours sincerely

Chris Ritchie

**Director**

**Industry Assessments**

*as delegate of the Planning Secretary*

8/10/19

