

Southern Joint Development Assessment Panel Agenda

Meeting Date and Time: Meeting Number: Meeting Venue: 10 August 2015; 9:30am SJDAP/1 Department of Planning 140 William Street, Perth

Attendance

DAP Members

Ms Stacey Towne (Presiding Member) Ms Sheryl Chaffer (Deputy Presiding Member) Mr Anthony Casella (Specialist Member) Cr Veronica Fleay (Local Government Member, Shire of Kojonup) Cr Ian Pedler (Local Government Member, Shire of Kojonup) Cr Peter McCleery (Local Government Member, Shire of Capel) Cr Greg Norton (Local Government Member, Shire of Capel)

Officers in attendance

Mr Phil Shephard (Shire of Kojonup) Ms Michelle Dennis (Shire of Kojonup) Mr Kim Muste (Shire of Capel)

Department of Planning Minute Secretary

Mr Sean O'Connor

Applicant/s and Submitters

Mr Torben Soerensen (GD Pork Holdings) Mr Andre van der Westhuizen (McDonald's Australia Ltd) Mr Simon Wilkes (Urbis) Ms Megan Gammon (Urbis) Mr Ray Haeren (Urbis)

Members of the Public

Nil

1. Declaration of Opening

The Presiding Member declares the meeting open and acknowledges the past and present traditional owners and custodians of the land on which the meeting is being held.

2. Apologies

Nil



3. Members on Leave of Absence

Nil

4. Noting of Minutes

Note the Minutes of the South-West JDAP meeting No.19 held on the 5 May 2015 and the Great Southern JDAP meeting No.15 held 16 June 2015.

5. Declarations of Due Consideration

Any member who is not familiar with the substance of any report or other information provided for consideration at the DAP meeting must declare that fact before the meeting considers the matter.

6. Disclosure of Interests

Nil

7. Deputations and Presentations

7.1 Mr Andre van der Westhuizen (McDonald's Australia Ltd) presenting for the application at Item 9.1. The presentation will support the recommendation for approval.

8. Form 1 - Responsible Authority Reports – DAP Application/s

8.1	Property Location: Application Details: Applicant:	Lot 10 Crapella Road, Boscabel Piggery expansion Torben Soerensen – Managing Director GD Pork Holdings Pty Ltd
	Owner: Responsible authority: DoP File No:	GD Pork Holdings Pty Ltd Shire of Kojonup DAP/15/00829

9. Form 2 – Responsible Authority Reports - Amending or cancelling DAP development approval

9.1	Property Location:	Lot 6023 Norton Promenade, Dalyellup (Previously Lot 9028 prior to subdivision clearance)
	Application Details:	Take-Away Food Outlet
	Applicant:	McDonalds Australia Limited C/o Urbis
	Owner:	Dalyellup Beach Pty Ltd
	Responsible authority:	Shire of Capel
	DoP File No:	DAP/15/00773

10. Appeals to the State Administrative Tribunal

11. General Business / Meeting Closure



Minutes of the South-West Joint Development Assessment Panel

Meeting Date and Time: Meeting Number: Meeting Venue: 5 May 2015; 1:30pm SWJDAP/19 Department of Planning 140 William Street, Perth

Attendance

DAP Members

Mr Ian Birch (Presiding Member) Ms Stacey Towne (Deputy Presiding Member) Mr John Ellis (Specialist Member) Cr Greg Norton (Local Government Member, Shire of Capel) *via teleconference* Cr Siddhartha Baxi (Local Government Member, Shire of Capel) *via teleconference*

Officers in attendance

Mr Kim Muste (Shire of Capel) via teleconference

Department of Planning Minute Secretary

Mr Sean O'Connor

Applicants and Submitters

Mr Simon Wilkes (Urbis) Ms Marieka Van Den Berg (Urbis) Mr Simon Woodacre (McDonalds Australia Limited) Mr Andre' Van Der Westhuizen (McDonalds Australia Limited)

Members of the Public

Nil

1. Declaration of Opening

The Presiding Member, Mr Ian Birch declared the meeting open at 1:44pm on 5 May 2015 and acknowledged the past and present traditional owners and custodians of the land on which the meeting was being held.

The Presiding Member announced the meeting would be run in accordance with the *Development* Assessment *Panel Standing Orders 2012* under the *Planning and Development (Development Assessment Panels) Regulations 2011.*

The Presiding Member advised that the meeting is being audio recorded in accordance with Section 5.16 of the Standing Orders 2012; No Recording of Meeting, which states: 'A person must not use any electronic, visual or audio



recording device or instrument to record the proceedings of the DAP meeting unless the Presiding Member has given permission to do so.' The Presiding Member granted permission for the minute taker to record proceedings for the purpose of the minutes only.

2. Apologies

Nil

3. Members on Leave of absence

Nil

4. Noting of minutes

Minutes of the South-West JDAP meeting No.18 held on 19 March 2015 were noted by DAP members.

5. Declaration of Due Consideration

All members declared that they had duly considered the documents.

6. Disclosure of interests

Nil

7. Deputations and presentations

7.1 Mr Simon Woodacre (McDonald's Australia Ltd) presenting for the application at Item 8.1. The presentation will support the Shire of Capel's recommendation and available to answer questions from the panel. Mr Woodacre together with the other attendees responded to various questions from the panel members.

8. Form 1 - Responsible Authority Reports – DAP Application/s

8.1Property Location:Lot 9028 Norton Promenade, DalyellupApplication Details:Take-Away Food OutletApplicant:McDonalds Australia Limited C/o UrbisOwner:Dalyellup Beach Pty LtdResponsible authority:Shire of CapelDOP File No:DAP/15/00723

REPORT RECOMMENDATION / PRIMARY MOTION

Moved by: Ms Towne Seconded by: Mr Ellis

With the agreement of the mover and seconder, a correction was made to accompanying plans 'DA02 (amended as received 2nd April 2015)' to read; 'DA02 - Revision C (amended as received 2nd April 2015).'



That the South-West Joint Development Assessment Panel resolves to:

Approve DAP Application reference No. 15/00723 and accompanying plans DA02 - Revision C (amended as received 2nd April 2015), DA03, DA04, DA05, DA06, DA07 in accordance with Clauses 8.3 and 8.10.1 of the Shire of Capel Town Planning Scheme No.7, subject to the following conditions:

General Conditions:

- 1. This approval is for Planning Consent only and is valid for two (2) years from the date of the decision. If the approved development is not substantially commenced within the two (2) year period, the approval shall lapse and be of no further effect.
- 2. The approved development shall be undertaken and fully implemented in accordance with the approved plan(s).
- 3. A separate application for Planning Consent for Advertising signage is required.

Prior to Commencement of Development Conditions:

- 4. Before development commences a shared access way and crossover (corresponding to Internal Road #1 as notated on the approved plans DA2) shall be designed, approved by the Shire of Capel, constructed and covered by a registered Easement in Gross on the certificate of title. The design and location of the shared access way and crossover shall include finished ground levels and drainage that demonstrate suitable shared access arrangements and vehicle manoeuvrability for the development.
- 5. A site plan showing finished ground levels, pavement levels and finished floor levels is to be submitted for assessment and approval by the Shire Capel prior to submission of a Building Permit application. The finished ground levels shall conform to the overall earthworks design levels for the subdivision by which proposed Lot 6023 is to be created.
- 6. A Landscape Plan is to be submitted for assessment and approval by the Shire of Capel prior to commencement of development. The Landscaping Plan is to be implemented and maintained for the life of the development and shall include:
 - A paved pedestrian path between the northern façade of the building and car parking bays.
 - A paved pedestrian path within the landscaped area on the western boundary.
 - Landscaping of the site and adjoining road verge on Tiffany Centre between the property boundary and existing pedestrian path shall be consistent with the Dalyellup District Centre Landscape Master Plan.
- 7. A schedule of materials colours and finishes is to be submitted with the Building Permit application for assessment and approval by the Shire of Capel.

- 8. A Stormwater Management Plan is to be submitted for assessment and approval by the Shire of Capel prior to submission of a Building Permit application.
- 9. A Daily Operation Management Plan is to be submitted for assessment and approval by the Shire of Capel prior to submission of a Building Permit application, and thereafter the plan shall be implemented at all times to the satisfaction of the Shire of Capel.
- 10. A Construction Management Plan is be submitted for assessment and approval by the Shire of Capel prior to submission of a Building Permit application.
- 11. All off-street parking and access thereto shall comply with Australian Standard 2890.1 to the satisfaction of the Shire of Capel. Construction plans shall be submitted for assessment and approval by the Shire of Capel prior to submission of a Building Permit application.

Prior to Occupation/Use of Development Conditions:

- 12. A Waste Management and Recycling Plan is to be submitted for assessment and approval prior to occupation of the premises and thereafter the plan shall be implemented at all times to the satisfaction of the Shire of Capel.
- 13. The installation of outdoor lighting shall be in accordance with the requirements of the Australian Standard AS 4282-1997: 'Control of the Obtrusive Effects of Outdoor Lighting'.
- 14. The provision of 38 car parking bays (inclusive of two (2) waiting car parking bays and one (1) disabled car parking bay) and vehicle manoeuvring areas being constructed, drained, marked out and maintained to the satisfaction of the Shire of Capel for the life of the development. Where parking spaces adjoin pedestrian paths wheel stops shall be provided.
- 15. Bicycle parking bays at the rate of 1 per 200m2 GLA designed to comply with Australian Standard 2890.3 are to be provided on site clear of any vehicular carriageways. Details of the bicycle parking shall be submitted to the Shire of Capel for assessment and approval prior to construction commencing.

Advice Notes:

1. The design and construction of the required shared access way with Easement in Gross is required to provide vehicular access to the development site. Part Lot 9028 is subject to conditional subdivision approval WAPC Ref: 149334 where the subdivider is proposed to construct the required shared access way with Easements in Gross and upon doing so the Planning Consent condition would be fulfilled.

- 2. The Landscape Plan is to detail the following:
 - a. Those areas to be reticulated.
 - b. Verge Treatments.
 - c. Species Types and numbers.
 - d. Lighting to pathways, communal space and parking areas.
 - e. Outdoor furniture, bin enclosures and pavement treatments.
 - f. Measures to be taken to ensure that trees and shrubs planted will thrive and be maintained in a healthy state for the life of the development.
 - g. Pedestrian path linkages.
- 3. The Stormwater Management Plan is to detail the following:
 - a. Catchments, flow paths, water quality improvement measures, area calculations and design criteria demonstrating that all stormwater from a 1year ARI can be retained on site and infiltrated.
 - b. Overflows from soak wells and/ or rain gardens are to enter the road pipe network by a direct piped lot connection with a capacity for a 10year ARI.
 - c. Events beyond a 10year ARI are to be directed to the road by overland flow.
 - d. Mosquito breeding control measures where stormwater infrastructure is likely to result in standing water that will provide breeding habitat.
- 4. Stormwater drainage levels should have regard to the invert level of a pipe connection for stormwater to be directed to the public road drainage pipe network. The Stormwater Management Plan should be in accordance with Shire of Capel information sheet "Specifications for Stormwater" and incorporate the principles and guidelines set out in the WAPC Guidelines for Better Urban Water Management and the Department of Water Stormwater Management Manual for Western Australia.
- 5. Proposed Lots 6020, 6021, 6022 and 6023 have been supplied with a 225mm diameter pipe connection to the Shire's stormwater system. The 1st 10mm of stormwater flow must be detained onsite with the remainder flowing to the Shire drainage system via a Gross Pollutant Trap. For proposed Lot 6023 the minimum height of overland flows exiting the site must be 7.64 AHD.
- 6. The Construction Management Plan is to detail how the following matters are to be managed:
 - a. Access to and from the site;
 - b. The delivery of materials and equipment to the site;
 - c. The storage of materials and equipment on the site;
 - d. Other matters likely to impact on surrounding properties;
 - e. The parking arrangements for contractors and subcontractors;
 - f. Management of construction waste; and
 - g. Dust mitigation.



- 7. The Waste Management Plan is to address the following:
 - a. The location of bin storage areas and bin collection areas;
 - b. The number, volume and type of bins, and the type of waste to be placed in the bins. This is to include measures that will support recycling:
 - c. Management of the bins and the bin storage areas, including cleaning, rotation, moving bins to and from the bin collection areas and actions to contain and clean any spillage of waste or other materials; and
 - d. Frequency of bin collections.
- The carpark standards applied to proposed Lots 6020, 6021, 6022 and 6023 have been assessed as requiring user class classification 3A in accordance with Australian Standard AS/NZS 2890.1. The Class 3A option of 2.6m x 5.4m bays with aisle width of 6.6m has been applied to the proposed lots and subject land.
- 9. In relation to signage:
 - a. Requirements for an application for approval of Advertising signage are set out in Clause 7.12 of Town Planning Scheme No 7 and the Shire of Capel Signs Local Law 2001.
 - b. Signage is to comply with the Dalyellup District Centre Signage Strategy and Dalyellup District Centre Detailed Area Plan No.1.
- 10. In relation to Building:
 - a. Compliance with the Building Act 2011, Building Regulations 2012 and the Building Code of Australia will be required. Advice should be sought from a registered building surveying contractor in order to obtain the appropriate certificates for building permit and occupancy permit applications.
 - b. If the project requires Fire Hydrants, the sites water pressure and flow test results will need to be established at the point of proposed water main access.
 - c. AS 2419 covers installation details and minimum required pressure and flow rates for fire hydrants. If minimum requirements cannot be obtained at the point of supply, the design of pumps and tanks would need to be considered.
- 11. In relation to Environmental Health Advice:
 - a. Compliance with the AS 4674-2004 will be required to meet the requirements of the National Food Safety Standards 3.2.3.
 - b. Compliance with the Environmental Protection (Noise) Regulations 1997 is required.
 - c. Contact Council's Health Services to obtain the Food Act 2008 Food Business Notification/Registration Form.



12. A Sustainability Implementation and Outcomes Plan is in the process of being prepared for the Dalyellup District Centre as a requirement of the Dalyellup District Centre Outline Development Plan. This plan will encourage landowners of commercial premises, business proprietors and/or tenants to consider and implement a range of sustainability initiatives and practices. The applicant is encouraged to consider sustainable development initiatives including the Sustainability Implementation and Outcomes Plan when it is available. Notwithstanding this, the applicants are invited to demonstrate sustainability measures that will be incorporated into the project.

The applicants are encouraged to provide a number of bicycle parking bays in excess of Australian Standard 2890.3

AMENDING MOTION

Moved by: Ms Towne Seconded by: Cr Baxi

To amend condition 3 to read:

3. This approval does not include proposed signage. A separate application for Planning Consent for Advertising signage is required.

REASON: For clarity.

The Amending Motion was put and CARRIED UNANIMOUSLY.

AMENDING MOTION

Moved by: Ms Towne Seconded by: Mr Birch

To amend the heading of Conditions 4 to 11 to read:

Prior to Commencement of Development or Application for Building Permit Conditions:

REASON: For clarity.

The Amending Motion was put and CARRIED UNANIMOUSLY.

AMENDING MOTION

Moved by: Ms Towne Seconded by: Mr Ellis

To amend condition 4 to read:

4. Before any other development commences a shared access way and crossover (corresponding to Internal Road #1 as notated on the approved plans DA2) shall be designed, approved by the Shire of Capel, constructed and covered by a registered Easement in Gross on the certificate of title. The design and location of the shared access way and crossover shall include finished ground levels and drainage that demonstrate suitable shared access arrangements and vehicle manoeuvrability for the development.



REASON: For clarity.

The Amending Motion was put and LOST (2/3). For: Ms Towne and Mr Ellis Against: Mr Birch, Cr Baxi and Cr Baxi

AMENDING MOTION

Moved by: Ms Towne Seconded by: Mr Birch

To amend condition 15 to read:

15. A minimum of 4 bicycle parking bays at the rate of 1 per 200m2 GLA designed to comply with Australian Standard 2890.3 are to be provided on site clear of any vehicular carriageways. Details of the bicycle parking shall be submitted to the Shire of Capel for assessment and approval prior to construction commencing.

REASON: For clarity.

The Amending Motion was put and CARRIED UNANIMOUSLY.

AMENDING MOTION

Moved by: Ms Towne Seconded by: Mr Birch

To amend Advice Note 10(c) to read:

c. AS 2419 covers installation details and minimum required pressure and flow rates for fire hydrants. If minimum requirements cannot be obtained at the point of supply, the design of pumps and tanks would need to be considered. This may require further planning consent.

REASON: For clarity that installation of tanks would require planning consent.

The Amending Motion was put and CARRIED UNANIMOUSLY.



PRIMARY MOTION (AS AMENDED)

That the South-West Joint Development Assessment Panel resolves to:

Approve DAP Application reference No. 15/00723 and accompanying plans DA02 - Revision C (amended as received 2nd April 2015), DA03, DA04, DA05, DA06, DA07 in accordance with Clauses 8.3 and 8.10.1 of the Shire of Capel Town Planning Scheme No.7, subject to the following conditions:

General Conditions:

- 1. This approval is for Planning Consent only and is valid for two (2) years from the date of the decision. If the approved development is not substantially commenced within the two (2) year period, the approval shall lapse and be of no further effect.
- 2. The approved development shall be undertaken and fully implemented in accordance with the approved plan(s).
- 3. This approval does not include proposed signage. A separate application for Planning Consent for Advertising signage is required.

Prior to Commencement of Development or Application for Building Permit Conditions:

- 4. Before development commences a shared access way and crossover (corresponding to Internal Road #1 as notated on the approved plans DA2) shall be designed, approved by the Shire of Capel, constructed and covered by a registered Easement in Gross on the certificate of title. The design and location of the shared access way and crossover shall include finished ground levels and drainage that demonstrate suitable shared access arrangements and vehicle manoeuvrability for the development.
- 5. A site plan showing finished ground levels, pavement levels and finished floor levels is to be submitted for assessment and approval by the Shire Capel prior to submission of a Building Permit application. The finished ground levels shall conform to the overall earthworks design levels for the subdivision by which proposed Lot 6023 is to be created.
- 6. A Landscape Plan is to be submitted for assessment and approval by the Shire of Capel prior to commencement of development. The Landscaping Plan is to be implemented and maintained for the life of the development and shall include:
 - A paved pedestrian path between the northern façade of the building and car parking bays.
 - A paved pedestrian path within the landscaped area on the western boundary.
 - Landscaping of the site and adjoining road verge on Tiffany Centre between the property boundary and existing pedestrian path shall be consistent with the Dalyellup District Centre Landscape Master Plan.
- 7. A schedule of materials colours and finishes is to be submitted with the Building Permit application for assessment and approval by the Shire of Capel.



- 8. A Stormwater Management Plan is to be submitted for assessment and approval by the Shire of Capel prior to submission of a Building Permit application.
- 9. A Daily Operation Management Plan is to be submitted for assessment and approval by the Shire of Capel prior to submission of a Building Permit application, and thereafter the plan shall be implemented at all times to the satisfaction of the Shire of Capel.
- 10. A Construction Management Plan is be submitted for assessment and approval by the Shire of Capel prior to submission of a Building Permit application.
- 11. All off-street parking and access thereto shall comply with Australian Standard 2890.1 to the satisfaction of the Shire of Capel. Construction plans shall be submitted for assessment and approval by the Shire of Capel prior to submission of a Building Permit application.

Prior to Occupation/Use of Development Conditions:

- 12. A Waste Management and Recycling Plan is to be submitted for assessment and approval prior to occupation of the premises and thereafter the plan shall be implemented at all times to the satisfaction of the Shire of Capel.
- 13. The installation of outdoor lighting shall be in accordance with the requirements of the Australian Standard AS 4282-1997: 'Control of the Obtrusive Effects of Outdoor Lighting'.
- 14. The provision of 38 car parking bays (inclusive of two (2) waiting car parking bays and one (1) disabled car parking bay) and vehicle manoeuvring areas being constructed, drained, marked out and maintained to the satisfaction of the Shire of Capel for the life of the development. Where parking spaces adjoin pedestrian paths wheel stops shall be provided.
- 15. A minimum of 4 bicycle parking bays at the rate of 1 per 200m2 GLA designed to comply with Australian Standard 2890.3 are to be provided on site clear of any vehicular carriageways. Details of the bicycle parking shall be submitted to the Shire of Capel for assessment and approval prior to construction commencing.

Advice Notes:

1. The design and construction of the required shared access way with Easement in Gross is required to provide vehicular access to the development site. Part Lot 9028 is subject to conditional subdivision approval WAPC Ref: 149334 where the subdivider is proposed to construct the required shared access way with Easements in Gross and upon doing so the Planning Consent condition would be fulfilled.

- 2. The Landscape Plan is to detail the following:
 - a. Those areas to be reticulated.
 - b. Verge Treatments.
 - c. Species Types and numbers.
 - d. Lighting to pathways, communal space and parking areas.
 - e. Outdoor furniture, bin enclosures and pavement treatments.
 - f. Measures to be taken to ensure that trees and shrubs planted will thrive and be maintained in a healthy state for the life of the development.
 - g. Pedestrian path linkages.
- 3. The Stormwater Management Plan is to detail the following:
 - a. Catchments, flow paths, water quality improvement measures, area calculations and design criteria demonstrating that all stormwater from a 1year ARI can be retained on site and infiltrated.
 - b. Overflows from soak wells and/ or rain gardens are to enter the road pipe network by a direct piped lot connection with a capacity for a 10year ARI.
 - c. Events beyond a 10year ARI are to be directed to the road by overland flow.
 - d. Mosquito breeding control measures where stormwater infrastructure is likely to result in standing water that will provide breeding habitat.
- 4. Stormwater drainage levels should have regard to the invert level of a pipe connection for stormwater to be directed to the public road drainage pipe network. The Stormwater Management Plan should be in accordance with Shire of Capel information sheet "Specifications for Stormwater" and incorporate the principles and guidelines set out in the WAPC Guidelines for Better Urban Water Management and the Department of Water Stormwater Management Manual for Western Australia.
- 5. Proposed Lots 6020, 6021, 6022 and 6023 have been supplied with a 225mm diameter pipe connection to the Shire's stormwater system. The 1st 10mm of stormwater flow must be detained onsite with the remainder flowing to the Shire drainage system via a Gross Pollutant Trap. For proposed Lot 6023 the minimum height of overland flows exiting the site must be 7.64 AHD.
- 6. The Construction Management Plan is to detail how the following matters are to be managed:
 - a. Access to and from the site;
 - b. The delivery of materials and equipment to the site;
 - c. The storage of materials and equipment on the site;
 - d. Other matters likely to impact on surrounding properties;
 - e. The parking arrangements for contractors and subcontractors;
 - f. Management of construction waste; and
 - g. Dust mitigation.



- 7. The Waste Management Plan is to address the following:
 - a. The location of bin storage areas and bin collection areas;
 - b. The number, volume and type of bins, and the type of waste to be placed in the bins. This is to include measures that will support recycling:
 - c. Management of the bins and the bin storage areas, including cleaning, rotation, moving bins to and from the bin collection areas and actions to contain and clean any spillage of waste or other materials; and
 - d. Frequency of bin collections.
- The carpark standards applied to proposed Lots 6020, 6021, 6022 and 6023 have been assessed as requiring user class classification 3A in accordance with Australian Standard AS/NZS 2890.1. The Class 3A option of 2.6m x 5.4m bays with aisle width of 6.6m has been applied to the proposed lots and subject land.
- 9. In relation to signage:
 - a. Requirements for an application for approval of Advertising signage are set out in Clause 7.12 of Town Planning Scheme No 7 and the Shire of Capel Signs Local Law 2001.
 - b. Signage is to comply with the Dalyellup District Centre Signage Strategy and Dalyellup District Centre Detailed Area Plan No.1.
- 10. In relation to Building:
 - a. Compliance with the Building Act 2011, Building Regulations 2012 and the Building Code of Australia will be required. Advice should be sought from a registered building surveying contractor in order to obtain the appropriate certificates for building permit and occupancy permit applications.
 - b. If the project requires Fire Hydrants, the sites water pressure and flow test results will need to be established at the point of proposed water main access.
 - c. AS 2419 covers installation details and minimum required pressure and flow rates for fire hydrants. If minimum requirements cannot be obtained at the point of supply, the design of pumps and tanks would need to be considered.
- 11. In relation to Environmental Health Advice:
 - a. Compliance with the AS 4674-2004 will be required to meet the requirements of the National Food Safety Standards 3.2.3.
 - b. Compliance with the Environmental Protection (Noise) Regulations 1997 is required.
 - c. Contact Council's Health Services to obtain the Food Act 2008 Food Business Notification/Registration Form.



12. A Sustainability Implementation and Outcomes Plan is in the process of being prepared for the Dalyellup District Centre as a requirement of the Dalyellup District Centre Outline Development Plan. This plan will encourage landowners of commercial premises, business proprietors and/or tenants to consider and implement a range of sustainability initiatives and practices. The applicant is encouraged to consider sustainable development initiatives including the Sustainability Implementation and Outcomes Plan when it is available. Notwithstanding this, the applicants are invited to demonstrate sustainability measures that will be incorporated into the project.

The applicants are encouraged to provide a number of bicycle parking bays in excess of Australian Standard 2890.3

The Primary Motion (as amended) was put and CARRIED UNANIMOUSLY.

9. Form 2 – Responsible Authority Reports - Amending or cancelling DAP development approval

Nil

10. Appeals to the State Administrative Tribunal

Nil

11. General Business / Meeting Close

There being no further business, the presiding member declared the meeting closed at 2:16pm.



Minutes of the Great Southern Joint Development Assessment Panel

Meeting Date and Time: Meeting Number: Meeting Venue: Tuesday 16 June 2015; 9.00am GSJDAP/15 City of Albany Council Chambers 102 North Road, Yakamia

Attendance

DAP Members

Mrs Stacey Towne (Acting Presiding Member) Mr Ian Birch (Alternative Deputy Presiding Member) Mr Patrick Dick (Specialist Member) Mayor Dennis Wellington (Local Government Member, City of Albany) *via teleconference*

Officers in attendance

Ms Ivin Lim (Department of Planning) Mr Tom Wenbourne (City of Albany) Mr Jan Van Der Mescht (City of Albany)

Local Government Minute Secretary

Ms Jennifer Cobbold (City of Albany)

Applicants and Submitters

Mr Joe Algeri (Altus Planning & Appeals) *via teleconference* Mr Sam Cuscuna (Cuscana Nominees Pty Ltd)

Members of the Public

Six Members of the Public were in attendance.

1. Declaration of Opening

Due to the absence of the Presiding Member and in accordance with section 2.4.1 of the Standing Orders 2012, the Deputy Presiding Member Ms Stacey Towne took the chair and declared the meeting open at 9.15am on 16 June 2015. The Deputy Presiding Member acknowledged the past and present traditional owners and custodians of the land on which the meeting was being held.

The Deputy Presiding Member announced the meeting would be run in accordance with the *Development* Assessment *Panel Standing Orders 2012* under the *Planning and Development (Development Assessment Panels) Regulations 2011.*



The Deputy Presiding Member advised that in accordance with Section 5.16 of the Standing Orders 2012; 'A person must not use any electronic, visual or audio recording device or instrument to record the proceedings of the DAP meeting unless the Presiding Member has given permission to do so.' The Deputy Presiding Member granted permission for the minute taker to record proceedings for the purpose of the minutes only.

2. Apologies

Mr David Gray (Presiding Member) Ms Carolyn Dowling (Local Government Member, City of Albany)

3. Members on Leave of absence

Nil

4. Noting of minutes

Minutes of the Great Southern JDAP meeting No.14 held on 21 November 2014 were noted by DAP members.

5. Declaration of Due Consideration

All members declared that they had duly considered the documents.

6. Disclosure of interests

Member/Officer	Report Item	Nature of Interest
Mr David Gray	10.1	Indirect Pecuniary
Mr Terry Tyzack	10.1	Indirect Pecuniary

Mr Gray and Mr Tyzack hold shares in Woolworths which is a tenant for the proposed application at Item 10.1.

In accordance with section 6.3.1 of the Standing Orders 2012, the Deputy Presiding Member determined that the members listed above, who had disclosed a Pecuniary Interest, would not be permitted to participate in the discussion or voting on the items.

In accordance with Section 2.4.6 of the Code of Conduct 2011, DAP members participated in a site visit for the application at Item 10.1 prior to the DAP Meeting.

7. Deputations and presentations

7.1 Mr Joe Algeri (Altus Planning & Appeals) addressed the DAP for the application at Item 10.1. Mr Joe Algeri answered questions from the panel.

The presentation at Item 7.1 was heard prior to the application at Item 10.1

7.2 Mr Dominic Cuscuna (Cuscuna Nominees Pty Ltd) addressed the DAP for the application at Item 10.1. Mr Dominic Cuscuna answered questions from the panel.

The presentation at Item 7.2 was heard prior to the application at Item 10.1



8. Form 1 - Responsible Authority Reports – DAP Application

Nil

9. Form 2 – Responsible Authority Reports - Amending or cancelling DAP development approval

Nil

10. Appeals to the State Administrative Tribunal

10.1	Property Location:	206 (Lot 508) Lower King Road, Bayonet Head, WA 6330
	Application Details:	Retrospective Application for Shop (Shopping Centre – Supermarket and Specialty Shops)
	Applicant:	Mr Sam Cuscuna
	Owner:	Cuscuna Nominees Pty Ltd
	Responsible authority: DoP File No:	City of Albany DAP/14/00648

REPORT RECOMMENDATION/PRIMARY MOTION

Moved by:	Mr I Birch	Seconded by:	Mayor D Wellington
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With the agreement of the mover and seconder, the first line of the recommendation was amended from "That the Great Southern Joint Development Assessment Panel resolves to:" to "That the Great Southern Joint Development Assessment Panel, pursuant to section 31 of the State Adminsitrative Tribunal Act 2004 in respect of SAT application DR 439 of 2014, resolves to:" in order to comply with administrative requirements.

That the Great Southern Joint Development Assessment Panel, pursuant to section 31 of the *State Administrative Tribunal* Act 2004 in respect of SAT application DR 439 of 2014, resolves to:

Approve revisions to DAP Application reference DAP/14/00648 and accompanying plans Drawing Nos. A00.002 Rev.14, A00.020 Rev.8, A00.200 Rev.10, A00.201 Rev.9, BHSC-01 Rev.F, A06.006, A07.807 Rev.4, C-027 Rev.1, C-028 Rev.1, A07.810, A07.816 and SK001-R4 in accordance with Clause 10.3 of the City of Albany Local Planning Scheme No.1, subject to the following conditions:

Conditions – (elements in bold are for information and are not part of the condition)

- 1. This decision constitutes planning approval only and is valid for a period of two (2) years from the date of approval. (Not subject of this reconsideration)
- 2. Unless otherwise varied by a condition of approval or a minor amendment to the satisfaction of the City of Albany, all development shall occur and be maintained in accordance with the stamped approved plans dated 16 June, 2015. (Requested to be deleted, but City of Albany advocates retention)



- 3. Unless otherwise varied by a condition of this approval, the additional works/alterations hereby approved shall be carried out/completed by 1 July, 2015, unless otherwise agreed in writing by the City of Albany. (Not subject of this reconsideration, but the City of Albany will agree a reasonable time extension)
- 4. The additional painting on the northern elevation as illustrated in Formworks plan A00-201 Rev.9 shall be implemented within six (6) months from the date of this approval. The painting shall be maintained in good condition thereafter with its condition reassessed every five (5) years or other such period as may be agreed in writing by the City of Albany. (Combination and modification of former conditions 4 & 5)
- 5. The vehicular intersection with Bayonet Head Road shall be modified and implemented as per plan SK.001 Bayonet Head Road Junction Proposal R4 dated 29/05/2015 within four (4) months of this approval. (Combination and modification of former conditions 6 & 7)

Advice relating to Condition 5:

The extension to the existing traffic island must consist of a raised kerbed backfilled island. The design of the island will not permit all as of right vehicles to exit to the east. The developer assumes all responsibility and liability for the constraints this

- design places on the operation of the development.
- The car bays, the pedestrian crossing, the footpath and associated balustrade shall be modified and/or implemented as per the details of Formworks plan A07.816 dated 10 March 2015 within four (4) months of this approval. (Modification of former condition 8)
- 7. Notwithstanding the submitted detail, all roof mounted infrastructure (plant, walkways and handrails etc) shall be suitably screened to a minimum height of the tallest item of plant, in accordance with details to be submitted to and approved in writing by the City of Albany. Once approved, the screening shall be installed and maintained to the satisfaction of the City of Albany. (Not subject of this reconsideration former condition 9)
- 8. Notwithstanding the submitted detail, bicycle parking facilities for a minimum of 11 bicycles shall be provided onsite. (former condition 10 requested to be deleted, but the City of Albany advocates retention)
- 9. A public art work commission to reflect or enhance local cultural identity is required as part of the development hereby approved. The art work commission value shall be approximately \$80,000. Exact details of the public art feature and location shall be submitted to and approved in writing by the City of Albany within six (6) months of the date of this decision and the art work shall be installed to the satisfaction of the City of Albany within twelve (12) months of the date of this decision. (Former condition 11 requested to be modified, but City of Albany advocates retention)
- Signs shall not be erected on the lot without the prior approval of the City of Albany and any sign or advertisement shall be maintained in good repair to the satisfaction of the City of Albany. (Not subject of this reconsideration – former condition 13)



- 11. The loading and unloading of goods shall occur entirely within the site and be undertaken in a manner so as to cause minimum interference with other vehicular traffic. (Not subject of this reconsideration former condition 14)
- 12. No goods or materials shall be stored, either temporarily or permanently, in the parking or landscape areas or in access driveways, unless otherwise agreed in writing by the City of Albany. (Not subject of this reconsideration former condition 15)
- 13. Any lighting device shall be positioned and shielded so as not to cause any direct, reflected or incidental light beyond the property boundaries, in accordance with Australian Standard AS4282/1997. (Not subject of this reconsideration former condition 16)
- 14. All landscaped areas shall be maintained as per the approved landscaping plan/s to the satisfaction of the City of Albany. (Not subject of this reconsideration former condition 17)
- 15. The parking areas shall be illuminated when they are in use, or may be sought to be used by patrons during hours of darkness, to the satisfaction of the City of Albany. (Not subject of this reconsideration former condition 18)
- 16. The development hereby approved shall not prejudicially affect the amenity of the neighbourhood by, but not limited to, the emission of noise, vibration, smell, smoke or dust. (Not subject of this reconsideration former condition 19)

Advice Notes

- 1. Development is required to comply with all relevant Health regulations; particular regard should be paid to those matters outlined on the attached 'Environmental and Health Conditions'.
- 2. All development is required to comply with the Building Regulations and the Building Code of Australia.
- 3. Although the design for the dual-use path to the north of the Lower King Road vehicular access complies with appropriate path standards, this section of path was designed as part of the flood mitigation and protection measures for the development. The City's preference is for this path to be continued at level until it meets the rising natural ground level to the north. Should the developer choose to ignore this advice and not maintain this level, it would be against their own engineering advice, which suggests that they are exposing their development to flooding in a major storm event and do so entirely at their own risk.

AMENDING MOTION

Moved by: Mr I Birch

Seconded by:

Mayor D Wellington

That Condition 9. be replaced to read:

"A public art work commission to reflect or enhance local cultural identity is required as part of the development hereby approved. The art work commission value is to be



a minimum of \$60,000. The "Driftwood" Artwork Concept by Stuart Green dated 26 April 2015 is, subject to being certified by a suitably qualified structural engineer as demonstrating compliance with the Building Codes of Australia, approved and to be installed by 29 February 2016."

REASON: The artwork is a good example of functional art by a highly accredited artist and is located with good public access within the mall area.

The Amending Motion was put and CARRIED UNANIMOUSLY.

AMENDING MOTION

Moved by: Ms S Towne Seconded by: Mr I Birch

That Condition 3 be amended to read:

"Unless otherwise varied by a condition of this approval, the additional works/alterations hereby approved shall be carried out/completed by 29 February, 2016, unless otherwise agreed in writing by the City of Albany."

REASON: To enabe the applicant a reasonable time to complete the works.

The Amending Motion was put and CARRIED UNANIMOUSLY.

AMENDING MOTION

Moved by: Ms S Towne Seconded by: Mr P Dick

That Condition 5 be amended:

The advice note in Italics be removed from Condition 5 and become **Advice Note** No. 4

REASON: This wording was intended to be an advice note, rather than a condition of approval.

The Amending Motion was put and CARRIED UNANIMOUSLY.

PRIMARY MOTION (AS AMENDED)

That the Great Southern Joint Development Assessment Panel, pursuant to section 31 of the *State Administrative Tribunal* Act 2004 in respect of SAT application DR 439 of 2014, resolves to:

Approve revisions to DAP Application reference DAP/14/00648 and accompanying plans Drawing Nos. A00.002 Rev.14, A00.020 Rev.8, A00.200 Rev.10, A00.201 Rev.9, BHSC-01 Rev.F, A06.006, A07.807 Rev.4, C-027 Rev.1, C-028 Rev.1, A07.810, A07.816 and SK001-R4 in accordance with Clause 10.3 of the City of Albany Local Planning Scheme No.1, subject to the following conditions:



Conditions

- 1. This decision constitutes planning approval only and is valid for a period of two (2) years from the date of approval.
- 2. Unless otherwise varied by a condition of approval or a minor amendment to the satisfaction of the City of Albany, all development shall occur and be maintained in accordance with the stamped approved plans dated 16 June, 2015.
- 3. Unless otherwise varied by a condition of this approval, the additional works/alterations hereby approved shall be carried out/completed by 29 February, 2016, unless otherwise agreed in writing by the City of Albany.
- 4. The additional painting on the northern elevation as illustrated in Formworks plan A00-201 Rev.9 shall be implemented within six (6) months from the date of this approval. The painting shall be maintained in good condition thereafter with its condition reassessed every five (5) years or other such period as may be agreed in writing by the City of Albany.
- 5. The vehicular intersection with Bayonet Head Road shall be modified and implemented as per plan SK.001 Bayonet Head Road Junction Proposal R4 dated 29/05/2015 within four (4) months of this approval.
- 6. The car bays, the pedestrian crossing, the footpath and associated balustrade shall be modified and/or implemented as per the details of Formworks plan A07.816 dated 10 March 2015 within four (4) months of this approval.
- 7. Notwithstanding the submitted detail, all roof mounted infrastructure (plant, walkways and handrails etc) shall be suitably screened to a minimum height of the tallest item of plant, in accordance with details to be submitted to and approved in writing by the City of Albany. Once approved, the screening shall be installed and maintained to the satisfaction of the City of Albany.
- 8. Notwithstanding the submitted detail, bicycle parking facilities for a minimum of 11 bicycles shall be provided onsite.
- 9. A public art work commission to reflect or enhance local cultural identity is required as part of the development hereby approved. The art work commission value is to be a minimum of \$60,000. The "Driftwood" Artwork Concept by Stuart Green dated 26 April 2015 is, subject to being certified by a suitably qualified structural engineer as demonstrating compliance with the Building Codes of Australia, approved and to be installed by 29 February 2016.
- 10. Signs shall not be erected on the lot without the prior approval of the City of Albany and any sign or advertisement shall be maintained in good repair to the satisfaction of the City of Albany.
- 11. The loading and unloading of goods shall occur entirely within the site and be undertaken in a manner so as to cause minimum interference with other vehicular traffic.



- 12. No goods or materials shall be stored, either temporarily or permanently, in the parking or landscape areas or in access driveways, unless otherwise agreed in writing by the City of Albany.
- 13. Any lighting device shall be positioned and shielded so as not to cause any direct, reflected or incidental light beyond the property boundaries, in accordance with Australian Standard AS4282/1997.
- 14. All landscaped areas shall be maintained as per the approved landscaping plan/s to the satisfaction of the City of Albany.
- 15. The parking areas shall be illuminated when they are in use, or may be sought to be used by patrons during hours of darkness, to the satisfaction of the City of Albany.
- 16. The development hereby approved shall not prejudicially affect the amenity of the neighbourhood by, but not limited to, the emission of noise, vibration, smell, smoke or dust.

Advice Notes

- 1. Development is required to comply with all relevant Health regulations; particular regard should be paid to those matters outlined on the attached 'Environmental and Health Conditions'.
- 2. All development is required to comply with the Building Regulations and the Building Code of Australia.
- 3. Although the design for the dual-use path to the north of the Lower King Road vehicular access complies with appropriate path standards, this section of path was designed as part of the flood mitigation and protection measures for the development. The City's preference is for this path to be continued at level until it meets the rising natural ground level to the north. Should the developer choose to ignore this advice and not maintain this level, it would be against their own engineering advice, which suggests that they are exposing their development to flooding in a major storm event and do so entirely at their own risk.
- 4. Advice relating to Condition 5: The extension to the existing traffic island must consist of a raised kerbed backfilled island. The design of the island will not permit all as of right vehicles to exit to the east. The developer assumes all responsibility and liability for the constraints this design places on the operation of the development.

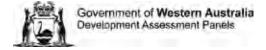
The PRIMARY MOTION (as Amended) was put and CARRIED UNANIMOUSLY.

11. General Business / Meeting Close

The Presiding Member reminded the meeting that in accordance with Standing Order 7.3 only the Presiding Member may publicly comment on the operations or determinations of a DAP and other DAP members should not be approached to make comment.



There being no further business, the Deputy Presiding Member declared the meeting closed at 10.05am.



Form 1 - Responsible Authority Report

(Regulation 12)

Property Location:	Lot 10 Crapella Road, Boscabel			
Application Details:	Piggery expansion			
DAP Name:	Great Southern JDAP			
Applicant:	Torben Soerensen – Managing Director GD			
	Pork Holdings Pty Ltd			
Owner:	GD Pork Holdings Pty Ltd			
LG Reference:	DB.BDA.8			
Responsible Authority:	Shire of Kojonup			
Authorising Officer:	Insert Department of Planning Authorising			
	Officer name and/or title details			
Department of Planning File No:	DAP/15/00829			
Report Date:	8 July 2015			
Application Receipt Date:	17 June 2015			
Application Process Days:	60 Days			
Attachment(s):	1: Aerial Image of Lot 10 Crapella Road, Boscabel.			
	2: Aerial Image of Location of Piggery and			
	Kojonup and Boscabel.			
	3: Certificate of Title for Lot 10 Crapella			
	Road, Boscabel.			
	4: GD Pork Kojonup Farm Expansion			
	Planning Approval Application			
	Document April 2015 and Appendix 1 - 4.			
	5: GD Pork Kojonup Piggery Expansion			
	Environmental Management Plan.			
	6: Site Plan General Layout Drawing No.			
	A00-00A (January 2015).			
	7: Finisher Shed Drawings A01-01 & A01-			
	02 (May 2015).			
	8: Feed Mill Shed Drawing A02-01 (May			
	2015).			
	9: 10Tp/h Mash Mill Layout Edition 6			
	(2/03/14).			
	10: WTP Plant Production of Electricity and			
	Heat from Animal Sewage & Manure			
	Installed Power 380kW General Views			
	(13/04/2015) & General Layout			
	(01/04/2015).			

Officer Recommendation:

That the Great Southern JDAP resolves to:

Approve DAP Application reference DAP/15/00829 for the proposed expansion of the existing piggery (intensive agriculture) at Lot 10 Crapella Road, Boscabel in accordance with Clause 6.3 of the Shire of Kojonup Town Planning Scheme No. 3, subject to the following conditions:

- 1. This decision constitutes planning approval only and is valid for a period of 4 years from the date of approval. If the subject development is not substantially commenced within the 4 year period, the approval shall lapse and be of no further effect.
- 2. Development shall be in accordance with the attached stamped approved plans (date stamped ??????? to be completed for DAP meeting date) being:
 - Site Plan General Layout Drawing No. A00-00A (January 2015);
 - Finisher Shed Drawings A01-01 & A01-02 (May 2015);
 - Feed Mill Shed Drawing A02-01 (May 2015);
 - 10Tp/h Mash Mill Layout Edition 6 (2/03/14); and
 - WTP Plant Production of Electricity and Heat from Animal Sewage & Manure Installed Power 380kW General Views (13/04/2015) & General Layout (01/04/2015).
- 3. All uncontaminated stormwater runoff from buildings and roadways being drained into the stormwater basins on the property to the satisfaction of the Shire of Kojonup.
- 4. A Landscaping Plan being prepared and implemented to the satisfaction of the Shire of Kojonup. The Landscaping Plan shall show location, species and size of trees and shrubs to be planted along the southern property boundary and in the south-west corner of the property between the ponds/waste treatment plant and Albany Highway to assist screen these developments from direct view from outside the property.
- 5. The loading and unloading of stock and goods to and from the premises shall be carried out entirely within the site.
- 6. Implementation of the submitted attached Environmental Management Plan Document to the satisfaction of the Shire of Kojonup.
- 7. The new crossover onto Crapella Road shall be located, designed and constructed to the satisfaction of the Shire of Kojonup.
- 8. Arrangements being made to the satisfaction of the Shire of Kojonup for the disposal of solid waste from the dwellings and other piggery sources not able to be disposed of in the waste digester (eg household rubbish, office rubbish, chemical drums).
- 9. A Fire Management Plan to be prepared and implemented to the satisfaction of the Shire of Kojonup in conjunction with the Department of Fire and Emergency Services.
- 10. Lighting devices are to be positioned and shielded so as not to cause any direct, reflected or incidental light to encroach beyond the property boundaries, in accordance with Australian Standard AS4282/1997.
- 11. All waste water run-off from machinery, plant and equipment wash-down shall be drained into a treatment system to the satisfaction of the Shire of Kojonup.

Advice Notes

Please be advised of the following:

- a) Where approval has lapsed, development is not to occur without the further approval of the relevant authority having first been obtained.
- b) Planning approval should not be construed as an approval to commence works as a separate Building Permit is also required.
- c) All on-site sewerage systems will require approval from the Department of Health.
- d) It is an offence to clear native vegetation without the authority of a permit from the Department of Environment Regulation unless the clearing is exempt from

a permit. It is recommended to liaise with the Department of Environment Regulation in relation to whether a clearing permit or exemption applies.

e) The works and operations will require Works Approval and Licensing from the Department of Environment Regulation prior to any activities commencing.

Alternate Recommendation:

Nil provided.

Background:

Property Address:		Lot 10 Crapella Road, Boscabel
Zoning	MRS:	n/a
	TPS:	Rural
Use Class:		intensive agriculture
Strategy Policy:		n/a
Development Scheme:		n/a
Lot Size:		57.1098ha
Insert Existing Land Use:		Piggery, workshop, office, feed storage silos,
		staff accommodation dwelling
Value of Development:		\$14.5 million

The property has an existing piggery that was established in 1997 and approved by the Shire in 1999. The applicants purchased the property in November 2007 and continued operations.

The Shire of Kojonup most recently approved an expansion of the piggery in January 2012 subject to conditions. Since that time, the applicant has revised and changed their plans for the expansion and has now submitted this application for consideration.

Details: outline of development application

The proposal is seeking planning consent to expand the existing piggery as outlined in the attached plans. The expansion will include:

- 9 new piggery sheds.
- New silos and feed mill.
- New waste treatment plant.
- New 36,000m² evaporation pond.
- New 6,400m² stormwater detention basin.
- New staff accommodation house.

The expansion will increase the standard pig unit numbers from 11,820 to 28,368 within the piggery. The expansion also includes a waste treatment plant and associated evaporation pond and stormwater detention basin. The waste treatment plant will treat the solid and liquid wastes and produce electricity for reuse on-site and fertilizer/soil improver for use on crops.

Legislation & policy:

Legislation

Planning and Development Act 2005

Shire of Kojonup Town Planning Scheme No. 3 – Parts III 'Zones', Part V 'Development Requirements' and Part VI 'Planning Consent'.

Environmental Protection Act 1986

The proposal is a prescribed premises under the *Environmental Protection Regulations 1987* and the proponent must hold a Works Approval (for construction) and a Licence (for operation).

Health Act 1911

The *Shire of Kojonup Health Local-Laws 2000* have been adopted and the proposal requires approval under this Local Law.

State Government Policies

EPA Guidance for the Assessment of Environmental Factors (in accordance with EP Act 1986): Separation Distances between Industrial and Sensitive Land Uses' No. 3 June 2005.

WAPC State Planning Policy No. 4.1 'State Industrial Buffer Policy'.

Local Policies

There are no local planning policies that apply to the proposal.

Consultation:

Public Consultation

Nil consultation required under Scheme.

Consultation with other Agencies or Consultants

The applicant has consulted with the Department of Environment Regulation, Department of Agriculture and Food and Shire of Kojonup in preparing the application.

An on-site inspection of the present operations and proposed expansion was undertaken by the Development Services Coordinator and Town Planner from the Shire of Kojonup and Agribusiness Development Officer (Pat Page) from the Department of Agriculture and Food on Tuesday 3 March 2015.

The applicant provided a briefing on the existing operations and proposed expansion to the Shire of Kojonup Councillors and Senior Staff members on 7 April 2015.

Planning assessment:

The piggery is located approximately 20km north of the main Kojonup townsite at the intersection of Albany Highway and Crapella Road and 3.5km east of the undeveloped minor Boscabel townsite.

The property is 57.1 hectares in area and largely cleared with some isolated pockets of remnant vegetation. No clearing of remnant vegetation is proposed. There are some areas of landscaping that have been developed as a condition of the existing planning consent approval. Some areas of this landscaping will be removed as part of the development and the applicant has committed to undertake additional landscaping to replace these areas upon completion of the development.

The site is relatively flat with a minor depression in the middle of the site associated with a drainage line that exits the property to the north. The soil types is sandy gravel and the applicant advises that groundwater levels taken from existing bores indicates groundwater between 5-10m below ground level with some likely perched groundwater below 2m in the existing salt pan area on the property.

The property has access/egress to Crapella Road (unsealed road with open drains) which is a local road under the care and control of the Shire of Kojonup. Crapella Road connects to Albany Highway which is a State Road under the care and control of Main Roads WA. The expansion proposes a new access/egress point to Crapella Road approximately 220m west of the existing service access/egress point. The applicant advises the expansion will increase the truck movements on Crapella Road from 460 loads/year to 912 loads/year and will be spread evenly over the full year.

The piggery currently utilises 2 bores for water supply and the applicant advises the expansion will require an increase in water usage from 20,000m³/year to 55,000m³/year. The property is not within a proclaimed or drinking water supply catchment area and the applicant advises that no licence from the Department of Water is required. The applicant has committed to locating 2 monitoring bores immediately west of the new evaporation pond.

The existing house on the lot is used for piggery staff accommodation. The applicant advises the new dwelling will consist of a 4 bedroom single person quarters to house the additional 4 employees required. The location of staff permanently on-site is considered an advantage to the operation of the piggery.

The land is zoned Rural under the Shire of Kojonup Town Planning Scheme No. 3 and a piggery is consistent with the definition of intensive agriculture under the Scheme (Schedule 1 Interpretations). The Zoning Table (Table 1) includes intensive agriculture land uses as an 'AA' discretionary land use class within the Rural zone, which means that the Council may, at its discretion, permit the use (c.3.3.2).

The property has been used as a piggery for some 18 years and has been expanded over this time. GD Pork Holdings Pty Ltd has operated the piggery at this site since 2007 without complaint to the Shire (of any of the known impacts of noise, odour and dust) and the Shire considers the site to be well managed by the operators. The applicant advises that the proposal has been designed to comply with the Australian Pork Limited *National Environmental Guidelines for Piggeries* (2nd edition revised 2011) which is best practice for the industry.

The use of all land within the Rural zone must be consistent with the objectives for the zone (c.3.2.7) as follows:

- (a) The zone shall consist of predominantly rural uses.
- (b) To protect land from urban uses that may jeopardise the future use of that land for other planned purposes which are compatible with the zoning.
- (c) To protect the land from closer development which would detract from the rural character and amenity of the area.

- (d) To prevent any development which may affect the viability of a holding.
- (e) To provide for limited commercial accommodation opportunities in a rural environment consistent with the Council's policy for 'Farmstay', 'Bed and Breakfast Accommodation' and 'Chalet' facilities.

The piggery expansion is considered to be consistent with objectives (a), (c) and (d) above.

The Scheme does not have any specific provisions relating to intensive agriculture and/or piggery uses/developments in the Rural zone.

Any development (c.5.4) shall conform to the requirements for that use specified in Table II - Development Table. As there is no specific requirements specified for intensive agriculture uses, the Council must determine the relevant requirements to comply with having regard to the predominant use and objectives of the Rural zone (c.5.4.1).

Table II sets out standards for setbacks, plot ratio, landscaping and car parking and the proposal and relevant development standards are discussed below:

Setbacks

The existing piggery is setback:

- 750m from Albany Highway in the north-east corner at the rear of the property;
- Approximately 40m from the nearest adjoining property boundary; and
- Approximately 2km from the closet farm dwellings, not forming part of the applicant's farm.

The 9 new piggery sheds will be 101.5m long x 13m wide with a 2.4m wall height and constructed with steel framing and concrete floor and clad with 'surfmist' coloured colorbond metal sheeting. They will be setback:

- 550m from Albany Highway (between the existing piggery sheds and Albany Highway);
- Approximately 150m from the nearest adjoining property boundary; and
- More than 2.2km from the closet farm dwellings, not forming part of the applicant's farm.

The new feed mill building will be 20m wide x 24m long with a wall height of 6.2m and constructed with steel framing and concrete floor and clad with 'surfmist' coloured colorbond metal sheeting. The building will have an adjacent $32m^2$ office/control room area and concrete apron constructed to allow for 23 silos (from 27 – 220t) to be located around the building. This part of the proposal will be setback:

- 800m from Albany Highway (to the south of the existing piggery sheds) and at the rear of the property;
- Approximately 15m from the nearest adjoining property boundary; and
- Approximately 2.25km from the closet farm dwellings, not forming part of the applicant's farm.

The new waste treatment plant will be constructed within a building approximately 60m wide x 60m long with a wall height of 6m and constructed of steel frames and concrete floor and clad with 'surfmist' coloured colorbond metal sheeting. The building will be setback:

- Approximately 400m from Albany Highway (to the south of the property);
- Approximately 150m from the nearest adjoining property boundary; and

Approximately 2km from the closet farm dwellings, not forming part of the applicant's farm.

The new evaporation pond will be approximately 360m long x 100m wide with a depth of 1.5m (pond wall 0.75m above ground level). It will be clay lined to prevent leaching to groundwater and designed into 2 compartments. The pond will be setback:

- Approximately 350m from Albany Highway;
- 30m from the nearest adjoining property boundary; and
- Approximately 2km from the closet farm dwellings, not forming part of the applicant's farm.

The new stormwater detention basin will be approximately 80m wide by 80m long with a depth of 3m (pond wall 0.75m above ground level) and designed to contain a 1 in 20 year winter rainfall event and will be setback:

- 300m from Albany Highway (to the south of the property);
- Approximately 200m from the nearest adjoining property boundary; and
- Approximately 2km from the closet farm dwellings, not forming part of the applicant's farm.

These setbacks are considered appropriate in this instance and consistent with other similar developments in the rural zone/areas of the Shire of Kojonup.

The new staff accommodation dwelling is to be collocated with the existing staff accommodation dwelling and will be setback:

- 200m from Albany Highway (to the west);
- 100m from Crapella Road;
- Approximately 470m from the southern adjoining property boundary;
- Approximately 750m from the eastern adjoining property boundary; and
- Approximately 400m from the piggery buildings.

Residential development within the Rural zone must comply with the setback requirements for the R2 residential planning code (c.5.7.3(d)). The proposed setbacks exceed the 20m front setback, and 10m side/rear setbacks stipulated in the R-Codes.

Plot Ratio

The existing piggery buildings have a plot ratio of 0.020 and this will rise to 0.026 with the proposed expansion.

Landscaping

The existing operations required landscaping to be undertaken on parts of the property as a condition of the planning approval granted by the Shire of Kojonup in 2012.

The applicant has advised that some areas of this landscaping will need to be removed to provide for the expansion and has committed to replacing these tress following completion of the construction works.

It is recommended that additional landscaping be undertaken along the southern property boundary and in the south-west corner of the property between the ponds/waste treatment plant and Albany Highway to assist screen these developments from direct view from outside the property. The applicant has advised verbally that they accept this request.

Car Parking

All loading/unloading and parking currently occurs within the property and whilst the proposed expansion will increase the number of vehicles visiting the site, this situation will not change. The existing parking areas can accommodate any increase required.

Buffer Area

The EPA Guidelines require the following generic separation distance for intensive piggeries:

	Description of Industry	DoE Licence Impacts or Registration category	Key Government agencies for advice or approvals	Code of Practice/ environmental requirements	Impacts					Buffer
Industry					Gas	Noise	Odour	Dust	Risk	distance in metres and qualifying notes
Piggery – intensive, - 5000 pigs or more - 500 – 5000 pigs - 50 – 500 pigs - Less than 50 pigs	premises on which pigs are fed, watered and housed in indoor pens	√ (2, 69)	Dept of Agriculture & Food, Department of Water, Local Government	Dept of Agriculture & Food – Guidelines for new and existing piggeries (May 2000)		V	V			5000 for piggeries with more than 5000 pigs. 3500 for piggeries with 500 – 5000 pigs. 2000 for piggeries with 50 – 500 pigs. 500 for piggeries with less than 50 pigs.

The piggery complies with these requirements. As noted above, the piggery has operated without complaint to the Shire of any of the known impacts of noise, odour and dust and is considered to be well managed.

The applicants have made an application to the Department of Environment Regulation for Works Approval. The Department can refer any proposal that needs a Works Approval, Licence or Registration to the EPA if they determine the proposal has potential to cause significant environmental impacts. The Works Approval and Licence will assist ensure the proposal is constructed and operated in an acceptable manner to reduce potential for pollution and/or community harm.

New Entry Point onto Crapella Road

The applicants seek approval for a new additional main entrance to the property off Crapella Road and would improve traffic movements within the site.

The new crossover shall be designed and constructed to the satisfaction of the Shire of Kojonup.

Site Management

Piggeries by their nature of operations have the potential to create emissions including dust and odour. These impacts are controlled by various pieces of legislation such as the *Environmental Protection Act* and *Soil and Land Conservation Act* etc.

The application has included an Environmental Management Plan prepared by the applicants that details how the operations will be managed to reduce potential for offsite impacts to occur. The applicant has indicated that the Environmental Management Plan has been developed in accordance with the Australian Pork Limited *National Environmental Guidelines for Piggeries* (2nd edition revised 2011). These guidelines outline best practice management for Australian piggeries.

As noted above, the applicants have made an application to the Department of Environment Regulation for Works Approval and this and the subsequent Licence will assist ensure the proposal is constructed and operated in an acceptable manner to reduce potential for pollution and/or community harm.

Options/Alternatives

Nil.

Council Recommendation:

Nil.

Conclusion:

The proposed expansion of the piggery is considered to be consistent with requirements of the Shire of Kojonup Town Planning Scheme No. 3 and should be approved subject to conditions.



Attachment 1: Aerial Image of Lot 10 Crapella Road, Boscabel (outlined in red)



Attachment 2: Aerial Image of Piggery location from Kojonup and Boscabel

	\$P . *2			HSTER NUMBER	
			DUPLICATE EDITION	DATE DUPLICA	
WESTERN		AUSTRALIA	2	12/2/2	2008
				VOLUME	FOLIO
RECORD OF	CERTIFICA	ATE OF TI	TLE	2173	889
UNDER THE	TRANSFER OF L	AND ACT 1893			
The person described in the first schedule is the registered proprietor or reservations, conditions and depth limit contained in the original gran					
notifications shown in the second schedule.		A	11	STRAN O	1. TAR

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LAND DESCRIPTION:

LOT 10 ON PLAN 23562

REGISTERED PROPRIETOR: (FIRST SCHEDULE)

G D PORK HOLDINGS PTY LTD OF 13 CAMFIELD STREET, EATON (T K413177) REGISTERED 17 DECEMBER 2007

LIMITATIONS, INTERESTS, ENCUMBRANCES AND NOTIFICATIONS: (SECOND SCHEDULE)

1. *L194482 MORTGAGE TO BANK OF WESTERN AUSTRALIA LTD REGISTERED 7.1.2010.

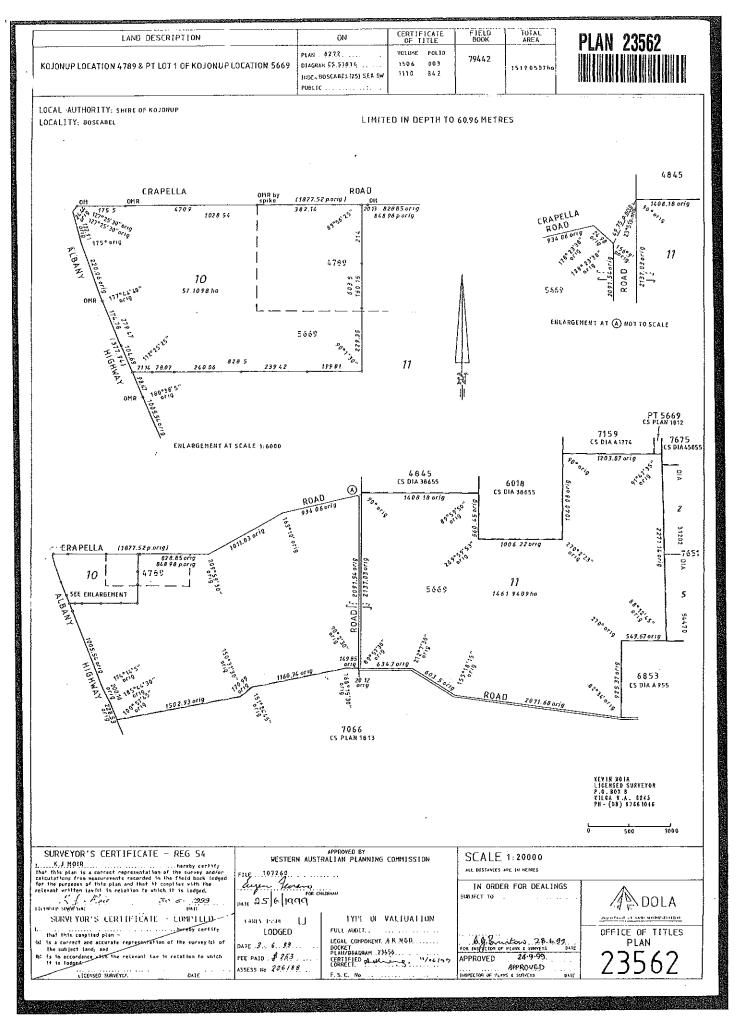
 Warning: A current search of the sketch of the land should be obtained where detail of position, dimensions or area of the lot is required.
 * Any entries preceded by an asterisk may not appear on the current edition of the duplicate certificate of title. Lot as described in the land description may be a lot or location.

STATEMENTS:

The statements set out below are not intended to be nor should they be relied on as substitutes for inspection of the land and the relevant documents or for local government, legal, surveying or other professional advice.

SKETCH OF LAND:	2173-889 (10/P23562).
PREVIOUS TITLE:	2173-888.
PROPERTY STREET ADDRESS:	NO STREET ADDRESS INFORMATION AVAILABLE.
LOCAL GOVERNMENT AREA:	SHIRE OF KOJONUP.

NOTE 1: DUPLICATE CERTIFICATE OF TITLE NOT ISSUED AS REQUESTED BY DEALING L194482



LANDGATE COPY OF ORIGINAL NOT TO SCALE Mon Feb 6 20:51:57 2012 JOB 38468429



Kojonup Farm Expansion Planning Approval Application April 2015 GD Pork Holdings Pty Ltd as trustee for GD Pork Unit Trust owns Lot 10 Crapella Road, Boscapel.

The site is currently used as an extensive pig farm.

GD Pork wishes to expand the operation on this site and turn it into an intensive piggery. Due to the size of the investment this Planning Approval Application has been lodged through the DAP process.

The expansion project is also dependent on granting of a works approval from Department of Environment and Regulation. A Works Approval Application has been applied for simultaneously.

This application has been put together by the proponent with assistance from Department of Agriculture (DAFWA) and private consultants.

GD Pork currently holds a planning approval for 9 more extensive sheds for the site (app. 2,800m2 and app. 4,000 more pigs) which have not yet been utilised. This new application (if approved) will override the existing application and the will be no practical need for utilising the existing application

The existing planning approval from the Shire of Kojonup was subject to a landscape plan including planting of trees along property boundaries and across the centre of the property for screening. These trees have been planted and where some of them will be in the way of the proposed new infrastructure (in the centre of the property) we plan to replace them with more trees around the proposed new infrastructure

Please find attached:

- Form 1 for lodging with DAP
- Site plan drawing
- Drawings of proposed new piggery sheds (one drawing as all 9 proposed sheds are similar)
- Drawings of auxiliary infrastructure
- Environmental Management Plan (EMP)
- Appendices to Environmental Management Plan

For questions or further information please don't hesitate to contact us.

Sincerely

Torben Soerensen Managing Director, GD Pork 0438940045 torben@gdpork.com.au www.gdpork.com.au

GD Pork Kojonup piggery expansion

Environmental Management Plan

Contact



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1. Overview

This is a proposal for the expansion of the GD Pork Kojonup piggery located at lot 10 Crapella Road, Boscabel. This site and operation are owed by GD Pork Holdings Pty Ltd and GD Pork Pty Ltd.

The piggery will be used as a grower unit for GD Pork's state wide piggery operation. The piggery will incorporate 36 extensive sheds (existing) and 9 new conventional indoor sheds (utilising a pull plug system) with a total capacity of 28,368 SPU. Pigs will arrive at the piggery at 8kg and leave at 100kg. Piggery manure (spent straw bedding and liquid effluent) will be treated in a waste treatment plant (WTP) which will also generate electricity for the piggery. All new infrastructure will be built on impermeable concrete pads.

The piggery will require 55,000m³ water per year.

The site is located well away from sensitive land uses and environmental features.

The expansion is expected to cost \$14.5 million and construction is expected to take 7 months.

The proposal complies substantially with the National Environmental Guidelines for Piggeries (2nd edition revised) and <u>the existing extensive piggery has not generated</u> any odour or other environmental problems.

See Appendices 2 and 3 for a consolidated summary of the waste management system.



Picture 1. Lot 10 Crapella Rd, Boscabel (Source: Google Earth)

2. Description of site

2.1 Production overview

Piglets arriving at the piggery are unloaded at the pig reception facility outside the perimeter fence of the site.



Picture 2. Pig reception facility

Weaners up to 40kg will be housed in the existing extensive sheds and moved to the conventional indoor sheds as finishers. Weaners up to 40kg are fed dry feed from feeders. Dry feed will be delivered from the feed mill to the shed by a feed trailer. Finishers will be fed liquid feed from troughs. The feed will be delivered from the liquid feed mixing room via an enclosed pipe system.

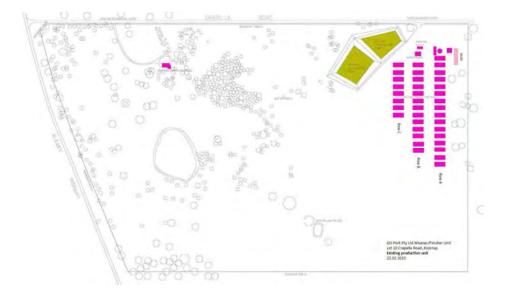
Pigs leaving for the abattoir are loaded onto trucks from the new sheds via a loading ramp between shed number 6 and 7.

See Appendix 1 for a detailed description of existing production.

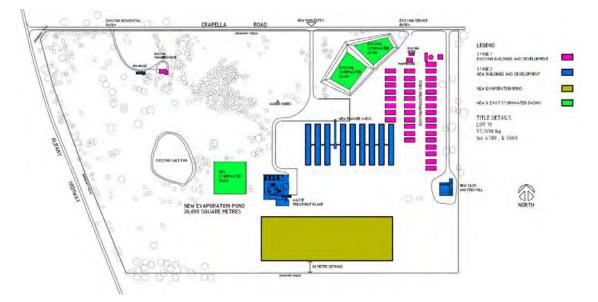
2.2 Infrastructure

The following sketches show current and proposed site infrastructure.

Sketch 1 (not in scale). Site plan existing production facilities lot 10, Crapella Road, Boscabel



Sketch 2 (not in scale). Existing (purple) and planned expansion (blue) unit



Existing infrastructure includes:

- Pig reception (arrival) facility
- 36 existing extensive sheds

Each shed is 26m x 12m.

· Feed silos and abattoir loading facility

These will not continue to be used after the new ones are built except as contingency.

• Storm water ponds

These will continue to be used even after the new one is built.

Managers house

New infrastructure includes:

New roads

New internal gravel roads will be added as indicated in sketch 2.

• 9 finisher sheds

9 standard colorbond Surfmist buildings each 13.0 m wide and 101.5 m long (measured inside) placed North-South and connected with a 2.5 m wide passage (18 fully separated sections) as shown on sketch 2. Each section contains a total of 36 pens in 2 rows each 6.0 m deep and 2.75 m broad.

• New feed mill and liquid feed shed facilities

The equipment for preparing the liquid feed will be placed in a shed North of the passage between 6th and 7th finisher shed as indicated in sketch 2.

New silos and a feed mill will be constructed south of the existing silos and extensive sheds as shown on sketch 2. Equipment will be place inside a shed and on a 200mm thick concrete floor. The feed mill includes

- weighbridge and grain intake placed adjacent to shed
- 1,400 tonne of grain and meal storage silos placed adjacent to shed
- A 10 tonne per hour grinder placed inside the shed
- Minerals and vitamins dosing system placed inside the shed
- A mixer placed inside the shed
- 297 tonne of ready-made feed silos placed adjacent to shed
- A control room

• Waste treatment plant and associated infrastructure

The waste treatment facility will consist of anaerobic digester tank, pumps, separator, concrete hardstand etc. See Appendix 3 for more information about the waste treatment plant and associated infrastructure.

• New abattoir loading facilities

New abattoir delivery facilities of same type as existing will be constructed North of connection between finisher shed 6 and 7 as indicated in sketch 2.

• More employee housing consisting of one single mens quarter with 4 bedrooms

• Wastewater evaporation pond

The evaporation pond has a capacity of 33,725 m³ and a surface area of 36,000m². The evaporation pond is shown at the bottom right hand corner of sketch 2. See appendix 4 for more detail.

• New stormwater pond

A new storm water pond is proposed next to the WTP. The pond will have a capacity of 13,598 m^3 and a surface area of 6,400 m^2 . See sketch 2

Infrastructure with a changed use includes:

• Entrance

A new extra entrance will be established from Crapella Road.

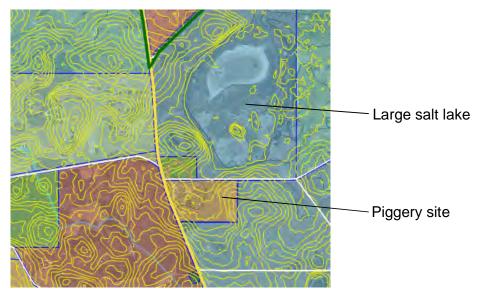
3. Water pollution control

3.1 Siting and land availability

The property is 57ha.

Two thirds of the site is flat. Buildings will be located on the remaining third of the site that slopes gently North West (they will therefore be positioned slightly higher than the waste management facility).

The site is very likely above the 1 in 100 year flood level as it is located 8m above large nearby salt lake, as show in the picture below.



Picture 4. Topography of surrounding site show unlikeliness of flooding

There is a smaller salt lake 500m North of the indoor sheds (125m from the enclosed WTP).

Bore data from 270m North of the site indicates groundwater at 5.29m below ground level. Data from other nearby bores indicates that there is likely to be permanent groundwater under the site at somewhere between 5m and 10m below ground level. There is also likely to be shallow perched groundwater at up to 2m below ground level in lower slope landscape positions.

The site is in a predominately cleared agricultural area and is not in proximity to any environmentally sensitive areas.

The soil type is sandy gravel.

3.2 Shed or pen design

The new finisher sheds will have a fully slatted concrete floor and outer wall with an insulated ceiling.

3.3 Clean water diversion

Clean rainwater will be harvested from between and off the roof of sheds and directed to a stormwater dam before it is reused. Water will be captured using strategically placed concrete drains and sand traps.

3.4 Deceased animals

Dead animals will be brought to the to the waste treatment plant, shredded and added. See Appendices 2 and 3 for more information about quantities of waste, the waste treatment facility and associated infrastructure.

3.5 Manure and waste treatment

After expansion, the piggery will produce both spent straw bedding (from the extensive sheds) and liquid effluent. Both solids and liquid effluent will be treated in the waste treatment plant (WTP).

Liquid effluent will be collected from the new finisher sheds via a pull-plug system and directed to a covered concrete sump in 300mm PVC pipes before being added to the WTP. The liquid effluent management system is a closed system.

Spent deep litter (along with deceased animals) will be taken to the WTP's concrete solid waste receival site before also being added to the WTP.

The WTP outputs water (which will be directed to an evaporation pond) and solids (which will be taken off site).

In the unlikely event the WTP is not able to process the waste, the contingency plan will be put in place (Appendix 5).

See Appendices 2 and 3 for more information about quantities of waste, the waste treatment facility and associated infrastructure.

3.6 Wastewater management (not including slurry)

Wastewater sources include wash down water, spilt drinking water and contaminated run-off. Waste water from the pig reception facility and all new finisher sheds will travel in closed 300m PVC pipes into the same concrete collection sump as the liquid effluent before being added to the WTP. See Appendices 2 and 3 for more information about quantities of waste, the WTP and associated infrastructure. Greywater from the onsite employee accommodation facility will be treated by onsite effluent disposal system to be constructed in accordance with Shire of Kojonup requirements.

3.7 Evaporation pond

The evaporation pond has a capacity of 33,725 m³ and a surface area of 36,000 m² and includes a 0.5m freeboard. The pond will be split in 2 compartments to allow checking pond liner integrity should it be needed.

The pond is designed to hold a one in 20 year winter rainfall event however should it be shown to be too small, recovered heat from the WTP generators can be used to heat the water to hasten evaporation.

The evaporation pond will be lined with 300mm of compacted clay to achieve a permeability standard of 1 \times 10⁻⁹m/s.



The proposed location of groundwater monitoring bores is shown below.

Sketch 3. Proposed location of groundwater monitoring bores

See Appendix 4 for more details on the evaporation pond.

4. Community amenity protection

4.1 Separation distance

The distance to sensitive receptors is well within the conservative S-factor set out in the National Environmental Guidelines for Piggeries (2nd edition revised). The recommended separation distances are calculated using model 1.

Sensitive receptor	S factor recommend distance	Actual distance
Rural dwelling	1.5km	2.3km
Rural residential	2.0km	None actual to mention
Town site	3.3km	> 17km

The proposal comfortably meets separation distance recommendations.

4.2 Odour

Odour sources is limited to the sheds because the WTP is a closed system and treated water that goes to evaporation pond is odour less. However, the proposal meets the S factor separation distance recommendations under model 1 and the use of the WTP as a waste treated facility is anticipated to reduce the smell from pig manure and effluent by 90% compared to a conventional system.

The new finisher sheds will be ventilated using a combined tunnel/curtain ventilation air cooling system.

All sheds will be cleaned out and the new sheds will be washed and disinfected between each batch of pigs before new pigs arrive.

A complaints register will be kept to monitor odour impacts.

4.3 Noise

Pigs in original sheds will be continued to be fed in the current method. Pigs in new indoor sheds will be fed 4 times per day from a trough. All pigs will be able to access feed simultaneously which will reduce noise.

Production machinery will be operated manually during the hours of 6am to 6pm. The arrival and departure of delivery trucks will also be restricted to these times (except when animal welfare requires pigs to be moved during cooler times).

All traffic including heavy vehicles will arrive via Albany Highway onto Crapella Road.

A complaints register will be kept to monitor noise impacts.

4.4 Dust

The feed mill will be shedded. Buffer distances for odour and noise will also contain dust pollution.

4.5 Traffic

There will be an increased amount of traffic from trucks into the site. With milling the feed onsite traffic consisting of trucks delivering feed from Perth will stop. Instead trucks with grain will arrive from the local area. The traffic volume is spread evenly through the year as grain will arrive as we need and not only during harvest.

The total traffic numbers are mentioned in Appendix 2.

Other issues

5.1 Remnant vegetation

There is no clearing required.

5.2 Hazardous materials storage

Potentially hazardous materials include herbicides, veterinary chemicals, disinfectants, insecticides and rodenticides. Only minimal amounts of these materials will be stored on site at any one time. Approximate volumes include 60L of herbicides, disinfectants and insecticides and 40 kg of rat poison. All potentially hazardous materials will be stored in well-constructed, clean and safe chemical storage and handling facilities with concrete floors. These facilities will be locked and only accessible by suitably trained staff.

5.3 Contingency plans

See Appendix 5.

5.4 Biosecurity

The Kojonup piggery is not in proximity to any other piggeries.

In the event of a disease outbreak, GD Pork will follow the DAFWA Livestock Biosecurity Factsheet (current at 17 April 2013).

5.5 Site significance

The Kojonup piggery expansion will not affect any areas of heritage, archaeological or cultural significance.

Other inputs

6.1 Labour supply

The Kojonup piggery expansion will increase the number of employees at the facility from 4 to 8. Employees will be housed on-site.

6.2 Energy supply

The expanded piggery will require 900 000 kwh/annum of electricity. Power will be sourced from the onsite WTP generators and used to operate the feed mill, feeding machines, ventilation and lights. The heat recovered from the engine will be used to heat the process tank of the waste treatment system.

6.3 Water supply

The expanded piggery will require 55,000m³ of water per annum. This will be sourced from the 2 existing on site groundwater bores which will be supplemented with captured rainwater. As the farm is located in a Department of Water 'unproclaimed' area, no water licence is needed.

Appendix 1- Existing production

Description of pig housing sheds:

• Pig housing sheds are - as shown in below picture 1 from row A - a straw based system on 100 mm water impermeable concrete flooring and all sheds are covered with tarp

• Sheds have 1 m high walls on both sides and part of West end water impermeable connected to the floor.

- Middle part of West end is closed by 1 m high moveable concrete blocks for cleaning purpose
- Upper part of West end can in cool weather be closed by top mounted curtains

• In warm weather climate inside shed can be partly regulated with water sprinklers placed below top of shed

• In East end of sheds there are a 5 m long concrete repos in full wide of sheds with 6 eating places feeder in the middle of repos and drinking facilities placed on outer wall in each side (total of 10 drinking bawls per shed) - details in picture 2

• Feeders are filled with tractor and feeding trailer as shown in picture 3

• Between each batch sheds are cleaned out (picture 4) and floor sprayed with lime in a water solution for disinfection purpose before new pigs are inserted.



Picture 1. Interior of shed in row A and B



Picture 2. Feeder and drinkers in shed row A and B



Picture 3. Feeding equipment



Picture 4. Cleaning and manure moving equipment

Production flow:

Weaner period (8 kg to 30 kg):

Every week (normally Thursdays) around 500 pigs, 4 weeks old (8 kg), are inserted in the production unit by cleaned and disinfected truck.

At arrival they receive needed vaccinations/precaution, assorted after their size and inserted in a cleaned and disinfected shed in row C.

As shown in picture 5, sheds in row C differ from row A and row B with a longitudinal division of the shed in 2 parts each giving place for 250-275 weaners for an 8 weeks period from 8 kg to 30 kg. As shown from the picture there are 2 feeders in each of 8 sheds in row C.



Picture 5. Shed for weaners row C

In weaner period pigs are fed with 2 different type of dry feed according to their weight/age composed of tasteful ingredients to assure that pigs very fast will learn to eat.

Feeders are permanently containing feed and pigs can eat as much they want and as often they want which means there are no struggle and noise at feeding time as there are no specific feeding time.

Each day every pig is checked if they get sufficient feed and water and if any types of illness occur. Ill pigs are treated according to veterinarian prescription, and if they need special care they are moved to shed A15 designed as recover of ill pigs.

After 7.5 weeks in weaner section (row C) pigs are moved to grower section (row B) and shed is cleaned and disinfected before next batch arrive.

Grower period (30 kg to 65 kg):

Each shed receive 250-275 pigs all kept together as they come from row C.

In grower period pigs are fed with feed specially fulfilling the demand for 30-65 kg growers to give optimal feed conversion plus maximal weight gain and meat content in carcass.

Also feeders containing feed for growers are permanently containing feed and pigs can eat as much they want and as often they want which means there are no struggle and noise at feeding time as there are no specific feeding time.

Daily check procedures as described for weaners.

After 5-6 weeks in grower sheds in row B pigs are moved to finisher sheds in row A. Empty sheds are cleaned before next batch is inserted.

Finisher period (65 kg to 100 kg):

Each shed receive the pigs from row B, all kept together as they come from row B In finisher period pigs are fed with feed containing lower amount of nutrients compared to grower feed as finishers have lower nutrient demand than growers to give optimal feed conversion plus maximal weight gain and meat content in carcass.

Also in finisher period feeders are permanently containing feed and pigs can eat as much they want and as often they want which means there are no struggle and noise at feeding time as there are no specific feeding time.

Daily check procedures as described for weaners and growers.

At a weight of approximately 100kg - visually assessed – pigs are moved to loading facilities to be prepared for abattoir.

Appendix 2- Piggery inputs and outputs fact summary

Table 1	Units	Existing production	Production after expansion
Standardized Production Size	<u>S</u> tandard <u>P</u> ig <u>U</u> nits	11,820	28,368
Input:			
Weaners received	numbers/year	26,200	75,000
weaners	tonne/year	210	600
Feed	tonne/year	5,800	16,900
Dry matter	tonne/year	5,200	15,200
Total nitrogen (N)	tonne/year	160	475
Phosphorus (P)	tonne/year	300	870
Potassium (K)	tonne/year	365	1,070
Water, total	cubic metre/year	20,000	55,000
Straw bales (2.4mx1.2mx1.2 m)	bales/year	2,000	1,250
Straw	tonne/year	1,000	625
Electricity	kWh per year	50,000	900,000
Output:			
Finishers delivered to abattoir	numbers/year	22,600	71,000
Live weight, finishers to abattoir	tonne/year	2,300	7,100
Meat	tonne/year	1,600	4,900
Deceased animals	tonne/year	50	126
Dry matter	tonne/year	25	53
Deep litter manure	tonne/year	4,254	2,924
Deep litter manure dry matter	tonne/year	1,404	965
Slurry	tonne/year	-	31,505
, Slurry dry matter	tonne/year	-	1,922
Nutrients from manure, slurry and deceased animals			
Dry matter	tonne/year	1,429	2,940
Total nitrogen (N)	tonne/year	48	179
Phosphorus (P)	tonne/year	17	53
Potassium (K)	tonne/year	57	130
Trucks and heavy vehicle transpo	rtations:		
Weaners (15 tonne HR truck)	loads/year	52	104
Feed/grain transports (50 tonne truck)	loads/year	145	550
Straw transports (50 tonne truck)	loads/year	35	22
Deep litter manure/WTP fertilizer (50 tonne truck)	loads/year	100	12
Finishers, abattoir (25 tonne truck)	loads/year	110	200
Others (25 tonne truck)	loads/year	18	24
Total transports	loads/year	460	912

Table 2. GD Pork FUTURE water consumption and slurry production in NEW FULLY SLATTED SHEDS*)

Background actual GD Pork figures*):	70,931	finishers
Production system	Fully slatted	Source
Growth period	40-100 kg	
Average number of on farm heads	11,595	GD Pork
Finishers per year, 40-100 kg	70,931	GD Pork
	70,001	GB F OIR
Feed consumption, 1000 Feed Units per year	11,704	GD Pork
Drinking water, m ³ per year	30,757	AUS
Wasted drinking water, m ³ per year	4,614	DK
Water for wash of stables, m ³ per year	1,773	DK
Total water consumption, m ³ per year	37,144	DK
Water consumption per produced animal, litre	524	
Water consumption per head, litre per day	8.8	
Water from food conversion m3 per voor	7,022	DK
Water from feed conversion, m ³ per year		
Evaporation from animals and stables, m ³ per year	-11,704	DK
Gain in animals, m ³ per year	-2,880	DK
Water in waste (6.1 % DM) from fully slatted sheds, m ³ per year	29,583	DK
Total waste from fully slatted sheds, m3 per year	31,505	DK

*)Expected future GD Pork production figures inserted in "Yearly production, water consumption and amount of waste based on norms given in DJF-report number 36. Husdyrbrug, Danmarks JordbrugsForskning, 2001, updated 2014".

Water consumption and produced amount of waste can differ very much from norms, but will normally be within +/- 25 %.

The Danish Agricultural Advisory Centre, Department of Pig Production, Sept. 2003, ERN

Source: Hanne Damgaard Poulsen (ed): Norms for animal manure - 2014, 33 pages (Danish language) <u>http://anis.au.dk/fileadmin/DJF/Anis/normtal2000.pdf</u>

Table 3. Summary, FUTURE waste production

Input WTP

Deep litter manure, tonne per year:					
Produced weaners per					
year	73,125	Dry matter:	33.0%	Tonne	2,924
		Slurry, tonne per year:			
Produced finishers per					
year	70,931	Dry matter:	6.1%	Tonne	31,505
		Mortality:			
Dead animals per year	3,950	Dry matter:	42.1%	Tonne	126
Total amount of waste, to	nne per year				34,555

Output from future Kojonup WTP

Corrected for Methane and CO2 production plus biological processes in WTP	
Pressed manure (30% DM), tonne per year	6,390
To evaporation pond/reuse, tonne per year	25,560

Appendix 3 – Waste Treatment Plant (WTP)

1.1. Description of the process: Technical overview

The livestock waste treatment plant consists of an initial collection tank called the feeding tank. This tank is made of 316L stainless steel and has a total capacity of more than 115m3 and an available capacity of 96m3. The tank is mixed by a suitable machine which is submerged and whose task is to keep the material in the tank homogenized avoiding any stratification.

The power supply system of the digester is composed of a grinding machine and a volumetric pump. The loading system is equipped with recirculation in the load tank, thus the material in the tank can be homogenized and reduced to the desired size by a continuous passage in the shredder. A lacerating machine is also installed on the supply tank to reduce the deceased animals to an adequate size for mixing. This system also offers the opportunity to reduce the length of the manure fibres if necessary.

Lastly a machine which separates the effluents from the treatment system is installed on the tank. This machine performs a separation of the solid and the liquid. Being installed on the tank rim, it provides the automatic management of the recirculation of the separated solid directly in the system load. This guarantees the maximum recirculation of organic substance into the treatment plant ensuring the minimization of residual gas emissions.

The liquid material is then introduced into the digester. The digester has a diameter of 23m and a total height of 6m. The effective height of 5.3m provides an available volume of 2,492m3 with an estimated total time of retention of 25 days. The digester is also made of stainless steel 316L and is completely insulated to ensure less thermal interaction with the external environment. An elastic gasometrical dome covers the top of the digester ensuring the complete absence of oxygen and the total collection of harmful greenhouse gases developed in the storage phase. An adequate system of mixing and heating ensures the maintenance of the essential parameters of the process.

A second pump conveys the system effluents to the separator machine that divides the solid from the liquid recirculating part of the solid into the loading system and conveying the rest to an external storage bed. The liquid is piped to the nearby evaporative pond instead.

The solid material is then removed by the operators and stored in an appropriate waterproof concrete bunker that is bounded to collect any spills. This bunker has a total storage capacity of 90 days.

The collected gases are treated and dehumidified until reaching the appropriate limits to allow the use by internal combustion engines for the combined production of electricity and heat. The collected condensate is conveyed to the existing evaporative tank. The cleaning of the collected gas is carried out bacteriologically in the digester by the controlled introduction of a small amount of oxygen. The waste product is a stabilized salt high in sulfur content which precipitates in the sludge and is extracted from the system with the effluents. The gases are further treated with active carbon to ensure the minimization of impurities harmful to the cogeneration groups.

The electricity produced is completely consumed on site making the system completely independent from the local distribution network.

The heat is in part re-used for the system temperatures control and if necessary conveyed to the evaporation pond to accelerate the process of reduction of the volumes. After the start of the process we will evaluate the idea of reusing the excess heat for groundwater desalination.

The cogeneration groups provide a noise impact reduced to 70dBA at 7m. The whole system guarantees a noise impact reduced to 70dBA at 7mt less the operating machines used once a day for the loading of the feeding tank.

1.2. Description of the Biological process

The methanogen process, or anaerobic fermentation (i.e. in the absence of oxygen), takes place within the digester through the activity of bacteria that crush the more complex organic molecules, resulting in the formation of simple molecules, such as CH4, CO2, H2O, H2S, etc.

The material exiting from the digesters can be sent to the separation station to obtain a liquid phase and a solid phase.

The material undergone the treatment of anaerobic digestion has a reduced content of the organic substance by about 60% compared to the initial input.

Furthermore, the organic material of the digestate is stabilized.

The slurry thus treated are effectively stable and odourless and therefore readily usable by plants because mineralized and homogenized in the content of N-P-K.

At the end of digestion, the nutrients (nitrogen and phosphorus) are kept substantially unchanged. They are not removed via biochemical pathway except for the bacterial synthesis needs, which do not involve significant reductions.

The waste treatment plant also provides better sanitation to the community, thanks to the removal of odours and bacteria in the separated solids that is exported off site. Furthermore it guarantees a limited environmental impact than conventional energy production systems.

The benefits derived from the application of anaerobic digestion and collection of the obtained biogas is as follows:

- reduction of ammonia emissions
- reduction of greenhouse gases
- reduction of odorous gases
- controlled stabilization of sewage before their agronomic use

In addition to energy recovery, the convenience of this system must be evaluated on the basis of the physic-chemical characteristics of the effluent; during the anaerobic digestion, in fact, solid substances are liquefied and there is a potential reduction of these, due to the transformation of the readily degradable carbon compounds to methane and carbon dioxide. Also a transformation of organic nitrogen into ammonia occurs.

The effluent is stabilized and deodorized, it obtains a considerable reduction of the organic matter content, BOD, COD, total solids and volatile. However, it maintains intact its content of fertilizing elements, remaining in this way, excellent fertilizer for crops and soil improver.

For a careful evaluation of the characteristics of such material is essential to carry out analysis in a laboratory both on the input material and the outlet material coming from the digesters. It is indispensable to control the actual level of organic material degradation and therefore ensure the system maximum potential related to biogas production. Only relative changes of dry and organic matter occur, nitrogen is transformed into ammonia but does not undergo significant decreases in quantitative terms. The dry and so organic material are transformed into biogas.

There is no production of waste or other byproducts inside of the waste treatment plant. The cover system also captures the fermentation gases that contain a small percentage of hydrogen sulfide and ammonia, in addition to the main components (methane and carbon dioxide), as well as traces of other well noticeable malodorous compounds, such as mercaptans and volatile fatty acids. This results in an effective odour control.

Input material:

-Solid and liquid

SLURRY		Ton	ne/year		31,505	
MANURE		Ton	ne/year		2,924	
DECEASED ANIMAL	S	Ton	ne/year		126	
Inlet material	Dry matter cont %	ent	S.S. (dry matter content)	Losted transfo Biogas	ormed into	Mass loss estimated average
94.7 tonne/day	8.5 %		8.1 tone/day	2.8 ton	ine/day	3.1 tonne/day

Outlet:

-Solid and liquid (from digester)

Digestate (effluent materials)	Dry matter content %	S.S. (dry matter content)	Water content	Biogas density
87.5 tonne/day	5.6 %	4.9 tonne/day	82,6 tonne/day	1.25

-Solid and liquid (from separator)

74.1 m3 digested/day	Solid fraction	Liquid fraction
Distribution	20%*	80%*
Tonne/day	17,5	70,0
Dry matter content, %	30%*	2%*
Dry matter, tonne/day	5,3	1.4

*There will be some variation depending on the final machine set up and environment conditions.

Gas:

Expected production	Equivalent methane CH4	Electricity production	Electricity production
2476 Nm3 biogas /day*	1614 Nm3/day	6200 kW/day**	258kW/hour

*Biogas expected composition:

CH4: 55-60% CO2 + CO: 40-45% H2S: 0.1% Other gases **The engine's electrical efficiency is 0.4

Engine exhaust gas (each unit):

Exhaust gas temperature	°C	457 (200 with recovery system on)
Exhaust gas volume	Nm3/h	3.650
	kg/h	4.910
Combustion air volume	Nm3/h	3.766
	kg/h	4.868

Exhaust gas composition (*)			
Nitrogen oxide (Nox)	mg/Nm3	<450	
Carbon oxide (CO)	mg/Nm3	<500	
Ultra small particolate (PST)	mg/Nm3	<10	
СОТ	mg/Nm3	<150	
(*) exhaust gas 5% O2	·		

Appendix 4 - Pond details

Evaporation Pond size			
Kojonup farm			
Evaporation pond internal dimensions			
Dopth ov fragboard	1	m	
Depth ex freeboard Freeboard	0.5	m	
	360	m	
Length at crest Width at crest	380 100	m	
Internal Batter	2.5		
Surface area	36,000	m2	
Internal capacity	33,725	m3	
Evaporation pond foot print			
Width of crest	3	m	
External batter	3	:1	
Height of pond wall above ground level	0.75	m	
Length of pond outside at ground level	370.5	m	
Width of pond outside at ground level	110.5	m	
Total foot print of evaporation pond	40,940	m2	
	- /		

31,825 343.6 10,935	m2 mm m3
343.6	mm
343.6	mm
2.5	m
0.5	m
80	m
80	m
2.5	:1
6,400	m2
13,598	m3
2,199	m3
13,134	m3
	m3
	6,400 13,598 2,199

Storm water dam foot print		
Width of crest	3	m
External batter	3	:1
Height of pond wall above ground level	0.75	m
Length of pond outside at ground level	90.5	m
Width of pond outside at ground level	90.5	m
Total foot print of storm water dam	8,190	m2

The following water balance for the evaporation pond is based on monthly balances using the following:

- Highest 1 in 20 year winter rainfall data every year.
- Median figures for evaporation
- 0.85 PAN factor

The data shows that in 20 years with 1 in 20 year winter rainfall every winter the pond does not overflow. (noted by "Closing Storage volume available" being a positive figure)

Year 1 January PAN	0.85	February		March	
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36,000
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,13
Rainfall (mm)	19.1	Rainfall (mm)	10.9	Rainfall (mm)	2
Rainfall (m3)	688	Rainfall (m3)	392	Rainfall (m3)	72
Total Inflow (m3)	2,818	Total Inflow (m3)	2,522	Total Inflow (m3)	2,85
Evaporation (mm)	229.4	Evaporation (mm)	184.8	Evaporation (mm)	15
Evaporation (m3)	7,053	Evaporation (m3)	5,681	Evaporation (m3)	4,76
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)	4
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)	
Total Outflow (m3)	7,053	Total Outflow (m3)	5,681	Total Outflow (m3)	4,76
Inflow -Outflow (m3)	-4,235	Inflow -Outflow (m3)	-3,159	Inflow -Outflow (m3)	-1,91
Opening Storage Volume Availab	33,725	Opening Storage Volume Availab	33,725	Opening Storage Volume Availab	33,72
Closing Storage Volume Available	33,725	Closing Storage Volume Available	33,725	Closing Storage Volume Available	33,72
Storage Change (m3)	0	Storage Change (m3)	0	Storage Change (m3)	
April		May		June	
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36,000
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,13
Rainfall (mm)	33.2	Rainfall (mm)	29.2	Rainfall (mm)	153.
Rainfall (m3)	1,195	Rainfall (m3)	1,051	Rainfall (m3)	5,515
Total Inflow (m3)	3,325	Total Inflow (m3)	3,181	Total Inflow (m3)	7,64
Evaporation (mm)	90	Evaporation (mm)	58.9	Evaporation (mm)	35
Evaporation (m3)	2,767	Evaporation (m3)	1,811	Evaporation (m3)	1,19
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)	(
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)	
Total Outflow (m3)	2,767	Total Outflow (m3)	1,811	Total Outflow (m3)	1,19
Inflow -Outflow (m3)	558	Inflow -Outflow (m3)	1,370	Inflow -Outflow (m3)	6,44
Opening Storage Volume Availab	33,725	Opening Storage Volume Availab	33,167	Opening Storage Volume Availab	31,790
Closing Storage Volume Available	33,167	Closing Storage Volume Available	31,796	Closing Storage Volume Available	25,350
Storage Change (m3)	-558	Storage Change (m3)	-1,370	Storage Change (m3)	-6,446
July		August		September	
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36,000
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,13
Rainfall (mm)	102.6	Rainfall (mm)	58.8	Rainfall (mm)	47.
Rainfall (m3)	3,694	Rainfall (m3)	2,117	Rainfall (m3)	1,71
Total Inflow (m3)	5,824	Total Inflow (m3)	4,247	Total Inflow (m3)	3,84
Evaporation (mm)	40.3	Evaporation (mm)	52.7	Evaporation (mm)	7
Evaporation (m3)	1,239	Evaporation (m3)	1,620	Evaporation (m3)	2,214
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)	(
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)	(
Total Outflow (m3)	1,239	Total Outflow (m3)	1,620	Total Outflow (m3)	2,214
Inflow -Outflow (m3)	4,585	Inflow -Outflow (m3)	2,627	Inflow -Outflow (m3)	1,634
Opening Storage Volume Availab	25,350	Opening Storage Volume Availab	20,766	Opening Storage Volume Availab	18,13
Closing Storage Volume Available	20,766	Closing Storage Volume Available	18,139	Closing Storage Volume Available	16,50
Storage Change (m3)	-4,585	Storage Change (m3)	-2,627	Storage Change (m3)	-1,634
October		November		December	
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36,000
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,13
Rainfall (mm)	25.9	Rainfall (mm)	29.6	Rainfall (mm)	59.9
Painfall (m2)	932	Rainfall (m3)	1,066	Rainfall (m3)	2,15
Rainfall (m3)	3,062	Total Inflow (m3)	3,196	Total Inflow (m3)	4,28
		Evaporation (mm)	147	Evaporation (mm)	207.
Total Inflow (m3) Evaporation (mm)	207.7			Evaporation (m3)	6,38
Total Inflow (m3) Evaporation (mm)	207.7	Evaporation (m3)	4,519	exaber actors (ma)	
Total Inflow (m3) Evaporation (mm) Evaporation (m3)		Evaporation (m3) Seepage (m3)	4,519 0	Seepage (m3)	
Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)	6,386				
Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3)	6,386	Seepage (m3)	0	Seepage (m3)	6,38
Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	6,386 0 0	Seepage (m3) Irrigation (m3)	0	Seepage (m3) Irrigation (m3)	6,38/ -2,099
Rainfail (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab	6,386 0 0 6,386	Seepage (m3) Irrigation (m3) Total Outflow (m3)	0 0 4,519	Seepage (m3) Irrigation (m3) Total Outflow (m3)	
Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	6,386 0 6,386 -3,323	Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	0 4,519 -1,324	Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	-2,09

Year 2 January		February		March	
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36,00
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,13
	19.1	Rainfall (mm)	10.9		2,15
Rainfall (mm)				Rainfall (mm)	
Rainfall (m3)	688	Rainfall (m3)	392	Rainfall (m3)	72
Total Inflow (m3)	2,818	Total Inflow (m3)	2,522	Total Inflow (m3)	2,85
Evaporation (mm)	229.4	Evaporation (mm)	184.8	Evaporation (mm)	15
Evaporation (m3)	7,053	Evaporation (m3)	5,681	Evaporation (m3)	4,76
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)	
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)	
Total Outflow (m3)	7,053	Total Outflow (m3)	5,681	Total Outflow (m3)	4,76
Inflow -Outflow (m3)	-4,235	Inflow -Outflow (m3)	-3,159	Inflow -Outflow (m3)	-1,91
Opening Storage Volume Availab	23,251	Opening Storage Volume Availab	27,486	Opening Storage Volume Availab	30,64
Closing Storage Volume Available	27,486	Closing Storage Volume Available	30,646	Closing Storage Volume Available	32,56
Storage Change (m3)	4,235	Storage Change (m3)	3,159	Storage Change (m3)	1,91
April		May		June	
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36,00
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,13
Rainfall (mm)	33.2	Rainfall (mm)	29.2	Rainfall (mm)	153
Rainfall (m3)	1,195	Rainfall (m3)	1,051	Rainfall (m3)	5,51
Total Inflow (m3)	3,325	Total Inflow (m3)	3,181	Total Inflow (m3)	7,64
Evaporation (mm)	90	Evaporation (mm)	58.9	Evaporation (mm)	3
Evaporation (m3)	2,767	Evaporation (m3)	1,811	Evaporation (m3)	1,19
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)	4,43
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)	
Total Outflow (m3)	2,767	Total Outflow (m3)	1,811	Total Outflow (m3)	1,19
Inflow -Outflow (m3)	558	Inflow -Outflow (m3)	1,370	Inflow -Outflow (m3)	6,44
Opening Storage Volume Availab	32,561	Opening Storage Volume Availab	32,003	Opening Storage Volume Availab	30,63
Closing Storage Volume Available	32,003	Closing Storage Volume Available	30,632	Closing Storage Volume Available	24,18
Storage Change (m3)	-558	Storage Change (m3)	-1,370	Storage Change (m3)	-6,44
July		August		September	
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36,00
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,13
Rainfall (mm)	102.6	Rainfall (mm)	58.8	Rainfall (mm)	47.
Rainfall (m3)	3,694	Rainfall (m3)	2,117	Rainfall (m3)	1,71
Total Inflow (m3)	5,824	Total Inflow (m3)	4,247	Total Inflow (m3)	3,84
Evaporation (mm)	40.3	Evaporation (mm)	52.7	Evaporation (mm)	7
Evaporation (m3)	1,239	Evaporation (m3)	1,620	Evaporation (m3)	2,21
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)	
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)	
Total Outflow (m3)	1,239	Total Outflow (m3)	1,620	Total Outflow (m3)	2,21
Inflow -Outflow (m3)	4,585	Inflow -Outflow (m3)	2,627	Inflow -Outflow (m3)	1,63
Opening Storage Volume Availab		Opening Storage Volume Availab		Opening Storage Volume Availab	16,97
Closing Storage Volume Available	19,601	Closing Storage Volume Available	16,975	Closing Storage Volume Available	15,34
Storage Change (m3)	-4,585	Storage Change (m3)	-2,627	Storage Change (m3)	-1,63
October	4,040	November	-2,021	December	-4,00
	36.000		36.000		26.00
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36,00
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,13
Rainfall (mm)	25.9	Rainfall (mm)	29.6	Rainfall (mm)	59
Rainfall (m3)	932	Rainfall (m3)	1,066	Rainfall (m3)	2,15
Total Inflow (m3)	3,062	Total Inflow (m3)	3,196	Total Inflow (m3)	4,28
Evaporation (mm)	207.7	Evaporation (mm)	147	Evaporation (mm)	207
Evaporation (m3)	6,386	Evaporation (m3)	4,519	Evaporation (m3)	6,38
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)	
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)	
Total Outflow (m3)	6,386	Total Outflow (m3)	4,519	Total Outflow (m3)	6,38
Inflow -Outflow (m3)	-3,323	Inflow -Outflow (m3)	-1,324	Inflow -Outflow (m3)	-2,09
Opening Storage Volume Availab	15,341	Opening Storage Volume Availab	18,664	Opening Storage Volume Availab	19,98
Closing Storage Volume Available	18,664	Closing Storage Volume Available	19,988	Closing Storage Volume Available	22,08
	A.5.0 00000	Provide accurate a cumular wantering	A-1 - 2 - 2	Permit R strange animite wampers	44,00
Storage Change (m3)	3,323	Storage Change (m3)	1,324	Storage Change (m3)	2,09

January		February		March	
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36,00
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,13
Rainfall (mm)	19.1	Rainfall (mm)	10.9	Rainfall (mm)	2
Rainfall (m3)	688	Rainfall (m3)	392	Rainfall (m3)	72
Total Inflow (m3)	2,818	Total Inflow (m3)	2,522	Total Inflow (m3)	2,85
Evaporation (mm)	229.4	Evaporation (mm)	184.8	Evaporation (mm)	15
Evaporation (m3)	7,053	Evaporation (m3)	5,681	Evaporation (m3)	4,76
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)	
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)	
Total Outflow (m3)	7,053	Total Outflow (m3)	5,681	Total Outflow (m3)	4,76
Inflow -Outflow (m3)	-4,235	Inflow -Outflow (m3)	-3,159	Inflow -Outflow (m3)	-1,91
Opening Storage Volume Availab	22,087	Opening Storage Volume Availab	26,322	Opening Storage Volume Availab	29,48
Closing Storage Volume Available	26,322	Closing Storage Volume Available	29,481	Closing Storage Volume Available	31,39
Storage Change (m3)	4,235	Storage Change (m3)	3,159	Storage Change (m3)	1,91
April		May		June	
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36,00
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,13
Rainfall (mm)	33.2	Rainfall (mm)	29.2	Rainfall (mm)	153.
Rainfall (m3)	1,195	Rainfall (m3)	1,051	Rainfall (m3)	5,51
Total Inflow (m3)	3,325	Total Inflow (m3)	3,181	Total Inflow (m3)	7,64
Evaporation (mm)	90	Evaporation (mm)	58.9	Evaporation (mm)	3
Evaporation (m3)	2,767	Evaporation (m3)	1,811	Evaporation (m3)	1,19
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)	4,40
	0		0		
Irrigation (m3)	3 707	Irrigation (m3)	1.011	Irrigation (m3)	
Total Outflow (m3)	2,767	Total Outflow (m3)	1,811	Total Outflow (m3)	1,19
Inflow -Outflow (m3)	558	Inflow -Outflow (m3)	1,370	Inflow -Outflow (m3)	6,44
Opening Storage Volume Availab	31,397	Opening Storage Volume Availab	30,838	Opening Storage Volume Availab	29,46
Closing Storage Volume Available	30,838	Closing Storage Volume Available	29,468	Closing Storage Volume Available	23,02
Storage Change (m3)	-558	Storage Change (m3)	-1,370	Storage Change (m3)	-6,44
July		August		September	100
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36,00
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,13
Rainfall (mm)	102.6	Rainfall (mm)	58.8	Rainfall (mm)	47.
Rainfall (m3)	3,694	Rainfall (m3)	2,117	Rainfall (m3)	1,71
Total Inflow (m3)	5,824	Total Inflow (m3)	4,247	Total Inflow (m3)	3,84
Evaporation (mm)	40.3	Evaporation (mm)	52.7	Evaporation (mm)	7
Evaporation (m3)	1,239	Evaporation (m3)	1,620	Evaporation (m3)	2,21
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)	
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)	
Total Outflow (m3)	1,239	Total Outflow (m3)	1,620	Total Outflow (m3)	2,21
Inflow -Outflow (m3)	4,585	Inflow -Outflow (m3)	2,627	Inflow -Outflow (m3)	1,63
Opening Storage Volume Availab	23,022	Opening Storage Volume Availab	18,437	Opening Storage Volume Availab	15,81
Closing Storage Volume Available	18,437	Closing Storage Volume Available	15,811	Closing Storage Volume Available	14,17
Storage Change (m3)	-4,585	Storage Change (m3)	-2,627	Storage Change (m3)	-1,63
October	4,3463	November		December	1,00
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36.00
				Wastewater Inflow (m3/month)	36,00
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130		2,13
Rainfall (mm)	25.9	Rainfall (mm)	29.6	Rainfall (mm)	59.
Balafall (m 3)	932	Rainfall (m3)	1,066	Rainfall (m3)	2,15
			3,196	Total Inflow (m3)	4,28
Total Inflow (m3)	3,062	Total Inflow (m3)			
Total Inflow (m3) Evaporation (mm)	3,062 207.7	Evaporation (mm)	147	Evaporation (mm)	
Total Inflow (m3) Evaporation (mm)	3,062			Evaporation (mm) Evaporation (m3)	
Total Inflow (m3) Evaporation (mm) Evaporation (m3)	3,062 207.7	Evaporation (mm)	147		
Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)	3,062 207.7 6,386	Evaporation (mm) Evaporation (m3)	147 4,519	Evaporation (m3)	
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3)	3,062 207.7 6,386 0	Evaporation (mm) Evaporation (m3) Seepage (m3)	147 4,519 0	Evaporation (m3) Seepage (m3)	6,38
Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	3,062 207.7 6,386 0 0 6,386	Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	147 4,519 0 4,519	Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	207. 6,38 6,38 -2,09
Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	3,062 207.7 6,386 0 0 6,386 -3,323	Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	147 4,519 0 4,519 -1,324	Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	6,38 6,38 -2,09
Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	3,062 207.7 6,386 0 0 6,386	Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	147 4,519 0 4,519	Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	6,38

January		February		March	
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36,000
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,13
Rainfall (mm)	19.1	Rainfall (mm)	10.9	Rainfall (mm)	2
Rainfall (m3)	688	Rainfall (m3)	392	Rainfall (m3)	72
Total Inflow (m3)	2,818	Total Inflow (m3)	2,522	Total Inflow (m3)	2,85
	229.4		184.8		15
Evaporation (mm)		Evaporation (mm)		Evaporation (mm)	4,76
Evaporation (m3)	7,053	Evaporation (m3)	5,681	Evaporation (m3)	4,70
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)	
Irrigation (m3)	7,053	Irrigation (m3) Total Outflow (m3)	5.681	Irrigation (m3) Total Outflow (m3)	4,76
Total Outflow (m3)					-1,91
Inflow -Outflow (m3)	-4,235	Inflow -Outflow (m3)	-3,159	Inflow -Outflow (m3)	
Opening Storage Volume Availab	20,923	Opening Storage Volume Availab	25,158	Opening Storage Volume Availab	28,31
Closing Storage Volume Available	25,158	Closing Storage Volume Available	28,317	Closing Storage Volume Available	30,23
Storage Change (m3)	4,235	Storage Change (m3)	3,159	Storage Change (m3)	1,91
April		May		June	
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36,00
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,13
Rainfall (mm)	33.2	Rainfall (mm)	29.2	Rainfall (mm)	153.
Rainfall (m3)	1,195	Rainfall (m3)	1,051	Rainfall (m3)	5,51
Total Inflow (m3)	3,325	Total Inflow (m3)	3,181	Total Inflow (m3)	7,64
Evaporation (mm)	90	Evaporation (mm)	58.9	Evaporation (mm)	3
Evaporation (m3)	2,767	Evaporation (m3)	1,811	Evaporation (m3)	1,19
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)	
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)	
Total Outflow (m3)	2,767	Total Outflow (m3)	1,811	Total Outflow (m3)	1,19
Inflow -Outflow (m3)	558	Inflow -Outflow (m3)	1.370	Inflow Outflow (m3)	6,44
Opening Storage Volume Availab	30,233	Opening Storage Volume Availab	29,674	Opening Storage Volume Availab	28,30
Closing Storage Volume Available	29,674	Closing Storage Volume Available	28,304	Closing Storage Volume Available	21,85
Storage Change (m3)	-558	Storage Change (m3)	-1,370	Storage Change (m3)	-6,44
vlut		August		September	
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36,000
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,13
Rainfall (mm)	102.6	Rainfall (mm)	58.8	Rainfall (mm)	47.
Rainfall (m3)	3,694	Rainfall (m3)	2,117	Rainfall (m3)	1,71
Total Inflow (m3)	5,824	Total Inflow (m3)	4,247	Total Inflow (m3)	3,84
Evaporation (mm)	40.3	Evaporation (mm)	52.7	Evaporation (mm)	7
Evaporation (m3)	1,239	Evaporation (m3)	1,620		2,21
				Evaporation (m3)	4,41
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)	
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)	2.24
Total Outflow (m3)	1,239	Total Outflow (m3)	1,620	Total Outflow (m3)	2,21
Inflow -Outflow (m3)	4,585	Inflow Outflow (m3)	2,627	Inflow Outflow (m3)	1,63
Opening Storage Volume Availab	21,858	Opening Storage Volume Availab	17,273		14,64
Closing Storage Volume Available	17,273	Closing Storage Volume Available	14,647	Closing Storage Volume Available	13,01
Storage Change (m3)	-4,585	Storage Change (m3)	-2,627	Storage Change (m3)	-1,63
October		November		December	
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36,00
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,13
Rainfall (mm)	25.9	Rainfall (mm)	29.6	Rainfall (mm)	59.5
Rainfall (m3)	932	Rainfall (m3)	1,066	Rainfall (m3)	2,15
		Total Inflow (m3)	3,196	Total Inflow (m3)	4,28
	3,062				207.
Total Inflow (m3)	3,062 207.7	Evaporation (mm)	147	Evaporation (mm)	
Total Inflow (m3) Evaporation (mm)			147 4,519	Evaporation (mm) Evaporation (m3)	
Total Inflow (m3) Evaporation (mm) Evaporation (m3)	207.7	Evaporation (mm)			
Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)	207.7	Evaporation (mm) Evaporation (m3)	4,519	Evaporation (m3)	
Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3)	207.7 6,386 0 0	Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3)	4,519 0 0	Evaporation (m3) Seepage (m3) Irrigation (m3)	6,38
Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	207.7 6,386 0 6,386	Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	4,519 0 4,519	Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	6,38
Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	207.7 6,386 0 6,386 -3,323	Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	4,519 0 4,519 -1,324	Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	6,38 6,38 -2,09
	207.7 6,386 0 6,386	Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	4,519 0 4,519	Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	6,38

January		February		March	
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36,000
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,13
Rainfall (mm)	19.1	Rainfall (mm)	10.9	Rainfall (mm)	2
Rainfall (m3)	688	Rainfall (m3)	392	Rainfall (m3)	72
Total Inflow (m3)	2,818	Total Inflow (m3)	2,522	Total Inflow (m3)	2,85
Evaporation (mm)	229.4	Evaporation (mm)	184.8	Evaporation (mm)	15
Evaporation (m3)	7,053	Evaporation (m3)	5,681	Evaporation (m3)	4,76
		Seepage (m3)	5,001	Seepage (m3)	4,70
Seepage (m3) Irrigation (m3)	0		0	Irrigation (m3)	
Total Outflow (m3)	7,053	Irrigation (m3) Total Outflow (m3)	5,681	Total Outflow (m3)	4,76
Inflow -Outflow (m3)	-4,235	Inflow -Outflow (m3)	-3,159	Inflow -Outflow (m3)	-1,91
	19,759		23,994	Opening Storage Volume Availab	27,15
Opening Storage Volume Availab	and the second second	Opening Storage Volume Availab			
Closing Storage Volume Available	23,994	Closing Storage Volume Available	27,153	Closing Storage Volume Available	29,06
Storage Change (m3)	4,235	Storage Change (m3)	3,159	Storage Change (m3)	1,91
April	26.000	May	26.000	June	36.00
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36,00
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,13
Rainfall (mm)	33.2	Rainfall (mm)	29.2	Rainfall (mm)	153.
Rainfall (m3)	1,195	Rainfall (m3)	1,051	Rainfall (m3)	5,51
Total Inflow (m3)	3,325	Total Inflow (m3)	3,181	Total Inflow (m3)	1
Evaporation (mm)	90	Evaporation (mm)	58.9	Evaporation (mm)	35
Evaporation (m3)	2,767	Evaporation (m3)	1,811	Evaporation (m3)	1,19
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)	4
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)	(
Total Outflow (m3)	2,767	Total Outflow (m3)	1,811	Total Outflow (m3)	1,19
Inflow -Outflow (m3)	558	Inflow -Outflow (m3)	1,370	Inflow -Outflow (m3)	-1,19
Opening Storage Volume Availab	29,068	Opening Storage Volume Availab	28,510	Opening Storage Volume Availab	27,14
Closing Storage Volume Available	28,510	Closing Storage Volume Available	27,140	Closing Storage Volume Available	28,335
Storage Change (m3)	-558	Storage Change (m3)	-1,370	Storage Change (m3)	1,19
July		August		September	
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36,000
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,13
Rainfall (mm)	102.6	Rainfall (mm)	58.8	Rainfall (mm)	47.
Rainfall (m3)	3,694	Rainfall (m3)	2,117	Rainfall (m3)	1,71
Total Inflow (m3)	0	Total Inflow (m3)	0	Total Inflow (m3)	3,84
Evaporation (mm)	40.3	Evaporation (mm)	52.7	Evaporation (mm)	7
Evaporation (m3)	1,239	Evaporation (m3)	1,620	Evaporation (m3)	2,21
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)	
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)	
Total Outflow (m3)	1,239	Total Outflow (m3)	1,620		2,21
Inflow -Outflow (m3)	-1,239	Inflow -Outflow (m3)	-1,620	Inflow -Outflow (m3)	1,634
Opening Storage Volume Availab	28,339			Opening Storage Volume Availab	31,19
Closing Storage Volume Available	29,578	Closing Storage Volume Available	31,198	Closing Storage Volume Available	29,56
Storage Change (m3)	1,239	Storage Change (m3)	1,620	Storage Change (m3)	-1,63
October	-	November		December	
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36,00
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,13
Rainfall (mm)	25.9	Rainfall (mm)	29.6	Rainfall (mm)	59.
Rainfall (m3)	932	Rainfall (m3)	1,066	Rainfall (m3)	
					2,15
Total Inflow (m3)	3,062	Total Inflow (m3)	3,196	Total Inflow (m3)	4,28
Evaporation (mm)	207.7	Evaporation (mm)	147	Evaporation (mm)	207.
Evaporation (m3)	6,386	Evaporation (m3)	4,519	Evaporation (m3)	6,38
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)	
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)	
Total Outflow (m3)	6,386	Total Outflow (m3)	4,519	Total Outflow (m3)	6,38
Inflow -Outflow (m3)	-3,323	Inflow -Outflow (m3)	-1,324	Inflow -Outflow (m3)	-2,09
			0.0.0.0.0	Occurring Changes Malance Availab	24 21
Opening Storage Volume Availab	29,564	Opening Storage Volume Availab	32,888	Opening Storage Volume Availab	34,21
	29,564 32,888	Opening Storage Volume Availab Closing Storage Volume Available Storage Change (m3)	32,888	Closing Storage Volume Available	33,72

Year 6

January		February
Storage Surface Area m2	36,000	Storage Surfa
		-
Wastewater Inflow (m3/month)	2,130	Wastewater
Rainfall (mm)		Rainfall (mm)
Rainfall (m3)	688	Rainfall (m3)
Total Inflow (m3)	2,818	Total Inflow
Evaporation (mm)		Evaporation
Evaporation (m3)	7,053	Evaporation
Seepage (m3)	0	Seepage (m3
Irrigation (m3) Total Outflow (m3)	7,053	Irrigation (m. Total Outflow
Inflow -Outflow (m3)	-4,235	Inflow -Outfl
Opening Storage Volume Availab	33,725	Opening Stor
Closing Storage Volume Available	33,725	Closing Stora
	0	
Storage Change (m3)	U	Storage Chan
April	36.000	May
Storage Surface Area m2	36,000	Storage Surfa
Wastewater Inflow (m3/month)	2,130	Wastewater
Rainfall (mm)	33.2	Rainfall (mm
Rainfall (m3)	1,195	Rainfall (m3)
Iotal Inflow (m3)	3,325	Total Inflow
Evaporation (mm)	90	Evaporation
Evaporation (m3)	2,767	Evaporation
Seepage (m3)	0	Seepage (m3
Irrigation (m3)	0	Irrigation (m.
Total Outflow (m3)	2,767	Total Outflow
Inflow -Outflow (m3)	558	Inflow Outfle
Opening Storage Volume Availab	33,725	Opening Stor
Closing Storage Volume Available	33,167	Closing Stora
Storage Change (m3)	-558	Storage Chan
July	26.000	August
Storage Surface Area m2	36,000	Storage Surfa
Wastewater Inflow (m3/month)	2,130	Wastewater
Rainfall (mm)	102.6	Rainfall (mm
Rainfall (m3)		Rainfall (m3)
1 - 1 - 0 - 1 - 01		Ward I all and
	5,824	
Evaporation (mm)	5,824 40.3	Evaporation
Evaporation (mm) Evaporation (m3)	5,824 40.3 1,239	Evaporation Evaporation
Evaporation (mm) Evaporation (m3) Seepage (m3)	5,824 40.3 1,239 0	Evaporation Evaporation Seepage (m3
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3)	5,824 40.3 1,239 0 0	Evaporation Evaporation Seepage (m3 Irrigation (m3
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	5,824 40.3 1,239 0 0 1,239	Evaporation Evaporation Seepage (m3 Irrigation (m3 Total Outflow
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	5,824 40.3 1,239 0 0 1,239 4,585	Evaporation Evaporation Seepage (m3 Irrigation (m3 Total Outflow Inflow Outfl
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab	5,824 40.3 1,239 0 1,239 4,585 25,350	Evaporation Evaporation Seepage (m3 Irrigation (m3 Total Outflov Inflow -Outflo Opening Stor
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab Closing Storage Volume Availab	5,824 40.3 1,239 0 0 1,239 4,585 25,350 20,766	Evaporation Evaporation Seepage (m3 Irrigation (m3 Total Outflow Inflow -Outflo Opening Stor Closing Stora
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3)	5,824 40.3 1,239 0 1,239 4,585 25,350	Evaporation Evaporation Seepage (m3 Irrigation (m3 Total Outflow Inflow -Outflo Opening Stor Closing Stora Storage Chan
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Fotal Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) October	5,824 40.3 1,239 0 1,239 4,585 25,350 20,766 -4,585	Evaporation Evaporation Seepage (m3 Irrigation (m3 Total Outflow Inflow -Outflo Opening Stor Closing Stora Storage Chan November
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) October Storage Surface Area m2	5,824 40.3 1,239 0 1,239 4,585 25,350 20,766 -4,585 36,000	Evaporation Evaporation Seepage (m3 Irrigation (m3 Total Outflow Inflow -Outflo Opening Stor Closing Stora Storage Chan November Storage Surfa
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month)	5,824 40.3 1,239 0 1,239 4,585 25,350 20,766 -4,585 36,000 2,130	Evaporation Evaporation Seepage (m3 Irrigation (m3 Total Outflow Inflow -Outflo Opening Stor Closing Stora Storage Chan November Storage Surfa Wastewater
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm)	5,824 40.3 1,239 0 1,239 4,585 25,350 20,766 -4,585 36,000 2,130 25.9	Evaporation Evaporation Seepage (m3 Irrigation (m3 Total Outflow Inflow -Outflo Opening Stor Closing Stora Storage Chan November Storage Surfa Wastewater Rainfall (mm
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3)	5,824 40.3 1,239 0 1,239 4,585 25,350 20,766 -4,585 36,000 2,130 25.9 932	Evaporation Evaporation Seepage (m3 Irrigation (m3 Total Outflow Inflow -Outflow Opening Stor Closing Stora Storage Chan Storage Chan Storage Surfa Wastewater Rainfall (mm Rainfall (m3)
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3)	5,824 40.3 1,239 0 1,239 4,585 25,350 20,766 -4,585 36,000 2,130 25.9	Evaporation Evaporation Seepage (m3 Irrigation (m3 Total Outflow Inflow -Outflow Opening Stor Closing Stora Storage Chan Storage Chan Storage Surfa Wastewater Rainfall (mm Rainfall (m3)
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm)	5,824 40.3 1,239 0 1,239 4,585 25,350 20,766 -4,585 36,000 2,130 25.9 932 3,062 207.7	Evaporation Evaporation Seepage (m3 Irrigation (m3 Total Outflow Inflow -Outflow Opening Stor Closing Stora Storage Chan Storage Chan November Storage Surfa Wastewater Rainfall (mm Rainfall (m3) Total Inflow (Evaporation
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm)	5,824 40.3 1,239 0 1,239 4,585 25,350 20,766 -4,585 36,000 2,130 25.9 932 3,062	Evaporation Evaporation Seepage (m3 Irrigation (m3 Total Outflow Inflow -Outflow Opening Stor Closing Stora Storage Chan Storage Chan Storage Surfa Wastewater Rainfall (mm) Rainfall (m3) Total Inflow (Evaporation
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)	5,824 40.3 1,239 0 1,239 4,585 25,350 20,766 -4,585 36,000 2,130 25.9 932 3,062 207.7	Evaporation Evaporation Seepage (m3 Irrigation (m3 Total Outflow Inflow -Outflow Opening Stor Closing Stora Storage Chan Storage Chan Storage Surfa Wastewater Rainfall (m3) Total Inflow (Evaporation Seepage (m3
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)	5,824 40.3 1,239 0 1,239 4,585 25,350 20,766 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386	Evaporation Evaporation Seepage (m3 Irrigation (m) Total Outflov Inflow -Outflov Opening Stor Closing Stora Storage Char November Storage Surfa Wastewater Rainfall (mm) Rainfall (m3) Total Inflow (Evaporation Seepage (m3) Irrigation (m)
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3)	5,824 40.3 1,239 0 1,239 4,585 25,350 20,766 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386 0	Evaporation Evaporation Seepage (m3 Irrigation (m) Total Outflov Inflow -Outflov Opening Stor Closing Stora Storage Char November Storage Surfa Wastewater Rainfall (mm) Rainfall (m3) Total Inflow (Evaporation Seepage (m3) Irrigation (m)
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	5,824 40.3 1,239 0 1,239 4,585 25,350 20,766 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386 0 0	Evaporation Evaporation Seepage (m3 Irrigation (m3 Total Outflow Inflow -Outflow Opening Stor Closing Stora Storage Chan Storage Chan Storage Surfa Wastewater Rainfall (m3) Total Inflow (Evaporation Evaporation Seepage (m3 Irrigation (m3 Total Outflow
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3) Rainfall (mm) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	5,824 40.3 1,239 0 1,239 4,585 25,350 20,766 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386 0 0 6,386	Evaporation i Evaporation i Seepage (m3 Irrigation (m3 Total Outflow Inflow -Outflow Opening Stora Storage Chan Storage Chan November Storage Surfa Wastewater I Rainfall (m3) Total Inflow (Evaporation i Seepage (m3 Irrigation (m3 Total Outflow Inflow -Outflow
Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available	5,824 40.3 1,239 0 1,239 4,585 25,350 20,766 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386 0 0 6,386 -3,323	Total Inflow (Evaporation) Evaporation (Seepage (m3) Irrigation (m3) Total Outflow Inflow -Outflo Opening Stor Closing Stora Storage Chan November Storage Surfa Wastewater I Rainfall (m3) Total Inflow (Evaporation) Seepage (m3) Irrigation (m3) Total Outflow Inflow -Outflo Opening Stor Closing Stora

	February	
T	Storage Surface Area m2	36,000
	Wastewater Inflow (m3/month)	2,130
	Rainfall (mm)	10.9
	Rainfall (m3)	392
	Total Inflow (m3)	2,522
	Evaporation (mm)	184.8
	Evaporation (m3)	5,681
	Seepage (m3)	0
	Irrigation (m3)	0
	Total Outflow (m3)	5,681
	Inflow -Outflow (m3)	-3,159
	Opening Storage Volume Availab	33,725
	Closing Storage Volume Available	33,725
	Storage Change (m3)	0
1	May	0
T	Storage Surface Area m2	36,000
	Wastewater Inflow (m3/month)	2,130
	Rainfall (mm)	29.2
	Rainfall (m3)	1,051
	Total Inflow (m3)	3,181
		58.9
	Evaporation (mm)	
	Evaporation (m3)	1,811
	Seepage (m3)	0
	Irrigation (m3)	0
	Total Outflow (m3)	1,811
	Inflow -Outflow (m3)	1,370
	Opening Storage Volume Availab	33,167
	Closing Storage Volume Available	31,796
1	Storage Change (m3)	-1,370
T	August	
		36,000
	Storage Surface Area m2.	36,000
	Wastewater Inflow (m3/month)	2,130
	Wastewater Inflow (m3/month) Rainfall (mm)	2,130 58.8
	Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3)	2,130 58.8 2,117
	Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3)	2,130 58.8 2,117 4,247
	Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm)	2,130 58.8 2,117 4,247 52.7
	Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3)	2,130 58.8 2,117 4,247 52.7 1,620
	Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)	2,130 58.8 2,117 4,247 52.7 1,620 0
	Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3)	2,130 58.8 2,117 4,247 52.7 1,620 0 0
	Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	2,130 58.8 2,117 4,247 52.7 1,620 0 1,620
	Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627
	Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab	2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 20,766
	Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available	2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 20,766 18,139
	Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3)	2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 20,766 18,139
	Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November	2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 20,766 18,139 -2,627
	Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2	2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 20,766 18,139 -2,627 36,000
	Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month)	2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 20,766 18,139 -2,627 36,000 2,130
	Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm)	2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 20,766 18,139 -2,627 36,000 2,130 29.6
	Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3)	2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 20,766 18,139 -2,627 36,000 2,130 29.6 1,066
	Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3)	2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 20,766 18,139 -2,627 36,000 2,130 2,9.6 1,066 3,196
	Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm)	2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 20,766 18,139 -2,627 36,000 2,130 2,9.6 1,066 3,196 1,47
	Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3)	2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 20,766 18,139 -2,627 36,000 2,130 2,130 2,130 2,9,6 1,066 3,196 1,066 3,196
	Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)	2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 20,766 18,139 -2,627 36,000 2,130 2,9.6 1,066 3,196 1,066 3,196 147 4,519 0
	Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3)	2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 20,766 18,139 -2,627 36,000 2,130 2,9.6 1,066 3,196 1,066 3,196 1,47 4,519 0 0
	Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 20,766 18,139 -2,627 36,000 2,130 2,9.6 1,066 3,196 1,066 3,196 1,47 4,519 0 0 0
	Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3)	2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 20,766 18,139 -2,627 36,000 2,130 2,9.6 1,066 3,196 1,066 3,196 1,47 4,519 0 0
	Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 20,766 18,139 -2,627 36,000 2,130 2,9.6 1,066 3,196 1,066 3,196 1,47 4,519 0 0 0
	Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 20,766 18,139 -2,627 36,000 2,130 2,9.6 1,066 3,196 147 4,519 0 0 4,519 -1,324

	A A A A	22.000
	rage Surface Area m2	36,000
	stewater Inflow (m3/month)	2,130
	nfall (mm)	20
	nfall (m3)	720
	al Inflow (m3)	2,850
	poration (mm)	155
	poration (m3)	4,765
	page (m3)	0
	(m3)	0
	al Outflow (m3)	4,765
	ow -Outflow (m3)	-1,915
	ming Storage Volume Availab	33,725
	ing Storage Volume Available	33,725
	rage Change (m3)	0
Jun		
	rage Surface Area m2	36,000
	stewater Inflow (m3/month)	2,130
	afall (mm)	153.2
Rain	nfall (m3)	5,515
Tota	al Inflow (m3)	7,645
Eva	poration (mm)	39
Eva	poration (m3)	1,199
See	page (m3)	0
Irrig	ation (m3)	0
Tota	al Outflow (m3)	1,199
Infle	ow -Outflow (m3)	6,446
Ope	ening Storage Volume Availab	31,796
Clos	ing Storage Volume Available	25,350
Stor	rage Change (m3)	-6,446
-	tember	
Stor	rage Surface Area m2	36,000
Wat	stewater Inflow (m3/month)	2,130
Rain	nfall (mm)	47.7
Rain	nfall (m3)	1,717
Tota	al Inflow (m3)	3,847
	from the second s	
Eva	poration (mm)	72
	poration (mm) poration (m3)	
Eva		2,214
Eva See	poration (m3)	2,214
Eva See	poration (m3) page (m3)	2,214 0 0
Eva See Irrig Tota	poration (m3) page (m3) (ation (m3)	2,214 0 0 2,214
Eva See Irrig Tota Infle	poration (m3) page (m3) (ation (m3) al Outflow (m3)	2,214 0 0 2,214 1,634
Eva See Irrig Tota Inflo	poration (m3) page (m3) (ation (m3) al Outflow (m3) ow -Outflow (m3) ening Storage Volume Availab	2,214 0 0 2,214 1,634 18,139
Eval See Irrig Tota Infle Ope Clos	poration (m3) page (m3) (ation (m3) al Outflow (m3) ow -Outflow (m3)	2,214 0 0 2,214 1,634 18,139 16,505
Eval See Irrig Tota Infle Ope Clos Stor	poration (m3) page (m3) (ation (m3) al Outflow (m3) ow -Outflow (m3) ening Storage Volume Available ing Storage Volume Available	2,214 0 0 2,214 1,634 18,139 16,505
Eval See Irrig Tota Infle Ope Clos Stor Dec	poration (m3) page (m3) (ation (m3) al Outflow (m3) ow -Outflow (m3) ening Storage Volume Available rage Change (m3)	72 2,214 0 0 2,214 1,634 18,139 16,505 -1,634 36,000
Eval See Irrig Tota Infle Ope Clos Stor Stor Stor	poration (m3) page (m3) (ation (m3) al Outflow (m3) ow -Outflow (m3) ening Storage Volume Available rage Change (m3) ember	2,214 0 2,214 1,634 18,139 16,505 -1,634
Eval See Irrig Tota Infle Ope Clos Stor Dec Stor Wat	poration (m3) page (m3) (ation (m3) al Outflow (m3) ow -Outflow (m3) ening Storage Volume Available rage Storage Volume Available rage Change (m3) ember rage Surface Area m2	2,214 0 2,214 1,634 18,139 16,505 -1,634 36,000 2,130
Eval See Irrig Tota Infle Ope Clos Stor Stor Was Rain	poration (m3) page (m3) (ation (m3) al Outflow (m3) ow -Outflow (m3) ening Storage Volume Available rage Change (m3) ember rage Surface Area m2 stewater Inflow (m3/month)	2,214 0 2,214 1,634 18,139 16,505 -1,634 36,000 2,130 59,9
Eval See Irrig Tota Infle Ope Clos Stor Dec Stor Waz Rain Rain	poration (m3) page (m3) (ation (m3) al Outflow (m3) ow -Outflow (m3) ong Storage Volume Available rage Change (m3) ember rage Surface Area m2 stewater Inflow (m3/month) nfall (mm) nfall (m3)	2,214 0 2,214 1,634 18,139 16,505 -1,634 36,000 2,130 59.9 2,156
Eva See Irrig Tot: Inflo Ope Clos Stor Dec Stor Was Rair Tot:	poration (m3) page (m3) (ation (m3) al Outflow (m3) ow -Outflow (m3) ening Storage Volume Available rage Change (m3) ember rage Surface Area m2 stewater Inflow (m3/month) infall (m3) al Inflow (m3)	2,214 0 0 2,214 1,634 18,139 16,505 -1,634 36,000 2,130 59.9 2,156 4,286
Eva See Irrig Tot: Inflo Ope Clos Stor Dec Stor Waz Rain Rain Tot: Eva	poration (m3) page (m3) (ation (m3) al Outflow (m3) ow -Outflow (m3) ening Storage Volume Available rage Change (m3) ember rage Surface Area m2 stewater Inflow (m3/month) infall (m3) al Inflow (m3) poration (mm)	2,214 0 0 2,214 1,634 18,139 16,505 -1,634 36,000 2,130 59.9 2,156 4,286 207.7
Eva See Irrig Tot: Inflo Ope Clos Stor Stor Waz Rair Rair Rair Tot: Eva Eva	poration (m3) page (m3) (ation (m3) al Outflow (m3) ow -Outflow (m3) ening Storage Volume Available rage Change (m3) ember rage Surface Area m2 stewater Inflow (m3/month) infall (m3) al Inflow (m3) poration (mm) poration (m3)	2,214 0 0 2,214 1,634 18,139 16,505 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386
Eva See Irrig Tot: Inflo Ope Clos Stor Stor Stor Was Rain Tot: Eva Eva See	poration (m3) page (m3) (ation (m3) al Outflow (m3) ow -Outflow (m3) ening Storage Volume Available rage Change (m3) ember rage Surface Area m2 stewater Inflow (m3/month) infall (m3) al Inflow (m3) poration (mm) poation (m3) page (m3)	2,214 0 2,214 1,634 18,139 16,505 -1,634 36,000 2,130 59,9 2,156 4,286 207.7 6,386 0
Eval See Irrig Tot: Inflo Ope Clos Stor Stor Waz Rair Rair Rair Tot: Eval Eval See Irrig	poration (m3) page (m3) (ation (m3) al Outflow (m3) ow -Outflow (m3) ow -Outflow (m3) sing Storage Volume Available rage Change (m3) ember rage Surface Area m2 stewater Inflow (m3/month) nfall (m3) al Inflow (m3) poration (m3) page (m3) (ation (m3)	2,214 0 2,214 1,634 18,139 16,505 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386 0 0
Eval See Irrig Tot: Infle Ope Clos Stor Waz Rain Rain Tot: Eval Eval See Irrig Tot:	poration (m3) page (m3) (ation (m3) al Outflow (m3) ow -Outflow (m3) ow -Outflow (m3) ening Storage Volume Available rage Change (m3) ember rage Surface Area m2 stewater Inflow (m3/month) nfall (m3) al Inflow (m3) poration (m3) page (m3) (ation (m3) al Outflow (m3)	2,214 0 2,214 1,634 18,139 16,505 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386 0 0 0 6,386
Eval See Irrig Tota Infle Ope Close Stor Dec Stor Waz Rain Rain Tota Eval Eval See Irrig Tota Infle Ope Close Stor Waz Rain Tota Infle Ope Close Stor Waz Rain Tota Infle Ope Close Stor Waz Rain Tota Infle Ope Close Stor Waz Rain Tota Infle Ope Close Stor Waz Rain Tota Infle Ope Close Stor Waz Rain Tota Infle Ope Close Stor Waz Rain Tota Infle Ope Close Stor Vaz Rain Tota Infle Ope Close Stor Vaz Rain Tota Infle Ope Close Stor Vaz Rain Tota Infle Note Infle I	poration (m3) page (m3) (ation (m3) al Outflow (m3) ow -Outflow (m3) ow -Outflow (m3) ening Storage Volume Available rage Change (m3) ember rage Surface Area m2 stewater Inflow (m3) mfall (m3) al Inflow (m3) poration (m3) page (m3) (ation (m3) al Outflow (m3) ow -Outflow (m3)	2,214 0 0 2,214 1,634 18,139 16,505 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386 0 0 6,386 0 0 0 6,386
Eval See Irrig Tot: Infle Ope Close Stor Dec Stor Waz Rain Rain Tot: Eval Eval See Irrig Tot: Infle Ope Close Stor Waz Rain Tot: Infle Ope Close Stor Waz Rain Tot: Infle Ope Close Stor Waz Rain Tot: Infle Ope Close Stor Waz Rain Tot: Infle Ope Close Stor Waz Rain Tot: Infle Ope Close Stor Waz Rain Tot: Infle Ope Close Stor Waz Rain Tot: Infle Ope Close Stor Waz Rain Tot: Infle Ope Close Stor Waz Rain Tot: Infle Ope Close Stor Waz Rain Tot: Infle Ope Close Stor Waz Rain Tot: Infle Ope Close Stor Waz Rain Tot: Infle Ope Close Stor Waz Rain Tot: Infle Ope Close Stor Waz Rain Tot: Infle Ope Close Stor Vaz Stor Vaz Stor Infle Ope Close Stor Vaz Rain Tot: Infle Ope Close Stor Infle	poration (m3) page (m3) (ation (m3) al Outflow (m3) ow -Outflow (m3) ow -Outflow (m3) ening Storage Volume Available rage Change (m3) ember rage Surface Area m2 stewater Inflow (m3/month) nfall (m3) al Inflow (m3) poration (m3) page (m3) (ation (m3) al Outflow (m3) ow -Outflow (m3) ening Storage Volume Availab	2,214 0 0 2,214 1,634 18,139 16,505 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386 0 0 6,386 -2,099 21,152
Eval See Irrig Tot: Infle Ope Clos Stor Waz Rain Tot: Eval Eval Eval See Irrig Tot: Infle Ope Clos Stor Waz	poration (m3) page (m3) (ation (m3) al Outflow (m3) ow -Outflow (m3) ow -Outflow (m3) ening Storage Volume Available rage Change (m3) ember rage Surface Area m2 stewater Inflow (m3) mfall (m3) al Inflow (m3) poration (m3) page (m3) (ation (m3) al Outflow (m3) ow -Outflow (m3)	2,214 0 2,214 1,634 18,139 16,505 -1,634 36,000 2,130 59.9 2,156

Year 7

Year 7		Patrone and		a design of the second s	
January	26.000	February	26.000	March	26.000
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36,000
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130
Rainfall (mm)	19.1	Rainfall (mm)	10.9	Rainfall (mm)	20
Rainfall (m3)	688	Rainfall (m3)	392	Rainfall (m3)	720
Total Inflow (m3)	2,818	Total Inflow (m3)	2,522	Total Inflow (m3)	2,850
Evaporation (mm)	229,4	Evaporation (mm)	184.8	Evaporation (mm)	155
Evaporation (m3)	7,053	Evaporation (m3)	5,681	Evaporation (m3)	4,765
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)	0
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)	0
Total Outflow (m3)	7,053	Total Outflow (m3)	5,681	Total Outflow (m3)	4,765
Inflow -Outflow (m3)	-4,235	Inflow -Outflow (m3)	-3,159	Inflow -Outflow (m3)	-1,915
Opening Storage Volume Availab	23,251	Opening Storage Volume Availab	27,486	Opening Storage Volume Availab	30,646
Closing Storage Volume Available	27,485	Closing Storage Volume Available	30,646	Closing Storage Volume Available	32,561
Storage Change (m3)	4,235	Storage Change (m3)	3,159	Storage Change (m3)	1,915
April		May		June	
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36,000
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130
Rainfall (mm)	33.2	Rainfall (mm)	29.2	Rainfall (mm)	153.2
Rainfall (m3)	1,195	Rainfall (m3)	1,051	Rainfall (m3)	5,515
Total Inflow (m3)	3,325	Total Inflow (m3)	3,181	Total Inflow (m3)	7,645
Evaporation (mm)	90	Evaporation (mm)	58.9	Evaporation (mm)	39
Evaporation (m3)	2,767	Evaporation (m3)	1,811	Evaporation (m3)	1,199
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)	0
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)	0
Total Outflow (m3)	2,767	Total Outflow (m3)	1,811	Total Outflow (m3)	1,199
Inflow -Outflow (m3)	558	Inflow -Outflow (m3)	1,370	Inflow -Outflow (m3)	6,446
Opening Storage Volume Availab	32,561	Opening Storage Volume Availab	32,003	Opening Storage Volume Availab	30,632
Closing Storage Volume Available	32,003	Closing Storage Volume Available	30,632	Closing Storage Volume Available	24,186
Storage Change (m3)	-558	Storage Change (m3)	-1,370	Storage Change (m3)	-6,446
July	-2.30	August	-1,570	September	-0,440
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	26.000
					36,000
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130
Rainfall (mm)	102.6	Rainfall (mm)	58.8	Rainfall (mm)	47.7
Rainfall (m3)	3,694	Rainfall (m3)	2,117	Rainfall (m3)	1,717
Total Inflow (m3)	5,824	Total Inflow (m3)	4,247	Total Inflow (m3)	3,847
Evaporation (mm)	40.3	Evaporation (mm)	52.7	Evaporation (mm)	72
Evaporation (m3)	1,239	Evaporation (m3)	1,620	Evaporation (m3)	2,214
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)	0
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)	0
Total Outflow (m3)	1,239	Total Outflow (m3)	1,620	Total Outflow (m3)	2,214
Inflow -Outflow (m3)	4,585	Inflow -Outflow (m3)	2,627	Inflow -Outflow (m3)	1,634
Opening Storage Volume Availab	24,186	Opening Storage Volume Availab	19,601	Opening Storage Volume Availab	16,975
Closing Storage Volume Available	19,601	Closing Storage Volume Available	16,975	Closing Storage Volume Available	15,341
Storage Change (m3)	-4,585	Storage Change (m3)	-2,627	Storage Change (m3)	-1,634
October		November		December	
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36,000
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130
Rainfall (mm)	25.9	Rainfall (mm)	29.6	Rainfall (mm)	59.9
Rainfall (m3)	932	Rainfall (m3)	1,066	Rainfall (m3)	2,156
Total Inflow (m3)	3,062	Total Inflow (m3)	3,196	Total Inflow (m3)	4,286
Evaporation (mm)	207.7	Evaporation (mm)	147	Evaporation (mm)	207.7
Evaporation (m3)	6,385	Evaporation (m3)	4,519	Evaporation (m3)	6,386
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)	0
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)	0
Total Outflow (m3)	6,386	Total Outflow (m3)	4,519	Total Outflow (m3)	6 396
	and the second se		and the second second		6,386
Inflow -Outflow (m3)	-3,323	Inflow -Outflow (m3)	-1,324	Inflow -Outflow (m3) Opening Storage Volume Availab	-2,099
Considera Charles and Malles and Malles			18,664	IL IDEDIDE MORARE VOLUME Availab	19,988
Opening Storage Volume Availab	15,341	Opening Storage Volume Availab			
Opening Storage Volume Availab Closing Storage Volume Available Storage Change (m3)	15,341 18,664 3,323	Closing Storage Volume Available Storage Change (m3)	19,988	Closing Storage Volume Available Storage Change (m3)	22,087

Year 8 January		February		March	
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36,000
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130
Rainfall (mm)	19.1	Rainfall (mm)	10.9	Rainfall (mm)	20
Rainfall (m3)	688	Rainfall (m3)	392	Rainfall (m3)	720
Total Inflow (m3)	2,818	Total Inflow (m3)	2,522	Total Inflow (m3)	2,850
Evaporation (mm)	229.4	Evaporation (mm)	184.8	Evaporation (mm)	155
Evaporation (m3)	7,053	Evaporation (m3)	5,681	Evaporation (m3)	4,765
Seepage (m3)	1,055	Seepage (m3)	3,001	Seepage (m3)	4,703
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)	
Total Outflow (m3)	7,053	Total Outflow (m3)	5,681	Total Outflow (m3)	4,765
Inflow -Outflow (m3)	-4,235	Inflow -Outflow (m3)	-3,159	Inflow Outflow (m3)	-1,915
Opening Storage Volume Availab	22,087	Opening Storage Volume Availab	26,322	Opening Storage Volume Availab	29,481
Closing Storage Volume Available	26,322	Closing Storage Volume Available	29,481	Closing Storage Volume Available	31,397
Storage Change (m3)	4,235	Storage Change (m3)	3,159	Storage Change (m3)	1,915
April	4,233	May	3,133	June	4,340
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36,000
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130
Rainfall (mm)		Rainfall (mm)		Rainfall (mm)	153.2
	33.2	Rainfall (m3)	29.2		
Rainfall (m3)	1,195	and the second	1,051	Rainfall (m3) Total Inflow (m3)	5,515
Total Inflow (m3)	3,325	Total Inflow (m3) Evaporation (mm)	3,181	Evaporation (mm)	7,645
Evaporation (mm)	90		58.9		39
Evaporation (m3)	2,767	Evaporation (m3)	1,811	Evaporation (m3)	1,199
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)	0
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)	0
Total Outflow (m3)	2,767	Total Outflow (m3)	1,811	Total Outflow (m3)	1,199
Inflow -Outflow (m3)	558	Inflow -Outflow (m3)	1,370	Inflow -Outflow (m3)	6,446
Opening Storage Volume Availab	31,397	Opening Storage Volume Availab	30,838	Opening Storage Volume Availab	29,468
Closing Storage Volume Available	30,838	Closing Storage Volume Available	29,468	Closing Storage Volume Available	23,022
Storage Change (m3)	-558	Storage Change (m3) August	-1,370	Storage Change (m3) September	-6,446
July Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36,000
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130
Rainfall (mm)	102.6	Rainfall (mm)	58.8	Rainfall (mm)	47.7
Rainfall (m3)	3,694	Rainfall (m3)	2,117	Rainfall (m3)	1,717
Total Inflow (m3)	5,824	Total Inflow (m3)	4,247	Total Inflow (m3)	3,847
Evaporation (mm)	40.3	Evaporation (mm)	52.7	Evaporation (mm)	72
Evaporation (m3)	1,239	Evaporation (m3)	1,620	Evaporation (m3)	2,214
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)	4,414
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)	
Total Outflow (m3)	1,239	Total Outflow (m3)	1,620	Total Outflow (m3)	2,214
Inflow -Outflow (m3)	4,585	Inflow -Outflow (m3)	2,627	Inflow -Outflow (m3)	1,634
Opening Storage Volume Availab	23,022	Opening Storage Volume Availab	18,437	Opening Storage Volume Availab	15,811
Closing Storage Volume Available	18,437	Closing Storage Volume Available	15,811	Closing Storage Volume Available	14,177
Storage Change (m3)	-4,585	Storage Change (m3)	-2,627	Storage Change (m3)	-1,634
October	4,303	November	-6,061	December	-1,004
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36,000
Wastewater Inflow (m3/month)		Wastewater Inflow (m3/month)		Wastewater Inflow (m3/month)	
	2,130		2,130		2,130
Painfall (mm)	25.0	Painfall (mm)	20 6		
Rainfall (mm)	25.9	Rainfall (mm)	29.6	Rainfall (mm)	
Rainfall (m3)	932	Rainfall (m3)	1,066	Rainfall (m3)	2,156
Rainfall (m3) Total Inflow (m3)	932 3,062	Rainfall (m3) Total Inflow (m3)	1,066 3,196	Rainfall (m3) Total Inflow (m3)	2,156
Rainfall (m3) Total Inflow (m3) Evaporation (mm)	932 3,062 207.7	Rainfall (m3) Total Inflow (m3) Evaporation (mm)	1,066 3,196 147	Rainfall (m3) Total Inflow (m3) Evaporation (mm)	2,156 4,286 207.7
Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3)	932 3,062 207.7 6,386	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3)	1,066 3,196 147 4,519	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3)	2,156 4,286 207,7
Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)	932 3,062 207.7 6,386 0	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)	1,066 3,196 147 4,519 0	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)	2,156 4,286 207,7
Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3)	932 3,062 207.7 6,386 0 0	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3)	1,066 3,196 147 4,519 0 0	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3)	2,156 4,286 207.3 6,386 0
Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	932 3,062 207.7 6,386 0 0 6,386	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	1,066 3,196 147 4,519 0 0 4,519	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	2,156 4,286 207.7 6,386 0 6,386
Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	932 3,062 207.7 6,386 0 0 6,386 -3,323	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	1,066 3,196 147 4,519 0 4,519 -1,324	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	2,156 4,286 207.7 6,386 0 0 6,386 -2,099
Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab	932 3,062 207.7 6,386 0 0 6,386 -3,323 14,177	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab	1,066 3,196 147 4,519 0 4,519 -1,324 17,500	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab	2,156 4,286 207.7 6,386 0 6,386 -2,099 18,824
Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	932 3,062 207.7 6,386 0 0 6,386 -3,323	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	1,066 3,196 147 4,519 0 4,519 -1,324	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	2,156 4,286 207.7 6,386 0 6,386

Year 9	_		
January		February	
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130
Rainfall (mm)	19.1	Rainfall (mm)	10.5
Rainfall (m3)	688	Rainfall (m3)	392
Total Inflow (m3)	2,818	Total Inflow (m3)	2,522
Evaporation (mm)	229.4	Evaporation (mm)	184.1
Evaporation (m3)	7,053	Evaporation (m3)	5,683
Seepage (m3)	0	Seepage (m3)	
Irrigation (m3)	0	Irrigation (m3)	
Total Outflow (m3)	7,053	Total Outflow (m3)	5,68
Inflow Outflow (m3)	-4,235	Inflow -Outflow (m3)	-3,15
Opening Storage Volume Availab	20,923	Opening Storage Volume Availab	25,15
Closing Storage Volume Available	25,158	Closing Storage Volume Available	28,31
Storage Change (m3)	4,235	Storage Change (m3)	3,15
April		May	
Storage Surface Area m2	36,000	Storage Surface Area m2	36,00
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130
Rainfall (mm)	33.2	Rainfall (mm)	29.3
Rainfall (m3)	1,195	Rainfall (m3)	1,05
Total Inflow (m3)	3,325	Total Inflow (m3)	3,18
Evaporation (mm)	90	Evaporation (mm)	58.9
Evaporation (m3)	2,767	Evaporation (m3)	1,81
Seepage (m3)	0	Seepage (m3)	(
Irrigation (m3)	0	Irrigation (m3)	
Total Outflow (m3)	2,767	Total Outflow (m3)	1,81
Inflow -Outflow (m3)	558	Inflow -Outflow (m3)	1,37
Opening Storage Volume Availab	30,233	Opening Storage Volume Availab	29,67
Closing Storage Volume Available	29,674	Closing Storage Volume Available	28,30
Storage Change (m3)	-558	Storage Change (m3)	-1,37
luly	-	August	
Storage Surface Area m2	36,000	Storage Surface Area m2	36,00
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,13
Rainfall (mm)	102.6	Rainfall (mm)	58.
Rainfall (m3)	3,694	Rainfall (m3)	2,11
Total Inflow (m3)	5,824	Total Inflow (m3)	4,24
Evaporation (mm)	40.3	Evaporation (mm)	52.
Evaporation (m3)	1,239	Evaporation (m3)	1,62
Seepage (m3)	0	Seepage (m3)	
Irrigation (m3)	0	Irrigation (m3)	1
Total Outflow (m3)	1,239	Total Outflow (m3)	1,62
Inflow -Outflow (m3)	4,585	Inflow -Outflow (m3)	2,62
Opening Storage Volume Availab	21,858	Opening Storage Volume Availab	17,27
Closing Storage Volume Available	17,273	Closing Storage Volume Available	14,64
Storage Change (m3)	-4,585	Storage Change (m3)	-2,62
October	-	November	
Storage Surface Area m2	36,000	Storage Surface Area m2	36,00
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,13
Rainfall (mm)	25.9	Rainfall (mm)	29.
Rainfall (m3)	932	Rainfall (m3)	1,06
fotal Inflow (m3)	3,062	Total Inflow (m3)	3,19
Evaporation (mm)	207.7	Evaporation (mm)	14
Evaporation (m3)	6,386	Evaporation (m3)	4,51
Seepage (m3)	0	Seepage (m3)	
rrigation (m3)	0	Irrigation (m3)	
Total Outflow (m3)	6,386	Total Outflow (m3)	4,51
Inflow -Outflow (m3)	-3,323	Inflow -Outflow (m3)	-1,32
	13,013		
Opening Storage Volume Availab	13,013	Opening Storage Volume Availab	16,33
	16 336	Closing Storney Velume Augustable	
Closing Storage Volume Available Storage Change (m3)	16,336 3,323	Closing Storage Volume Available Storage Change (m3)	17,66

-	March	
00	Storage Surface Area m2	36,000
10	Wastewater Inflow (m3/month)	2,130
9	Rainfall (mm)	20
12	Rainfall (m3)	720
2	Total Inflow (m3)	2,850
8	Evaporation (mm)	155
81	Evaporation (m3)	4,765
0	Seepage (m3)	0
0	Irrigation (m3)	0
11	Total Outflow (m3)	4,765
9	Inflow -Outflow (m3)	-1,915
58	Opening Storage Volume Availab	28,317
7	Closing Storage Volume Available	30,233
9	Storage Change (m3)	1,915
	June	
0	Storage Surface Area m2	36,000
30	Wastewater Inflow (m3/month)	2,130
2	Rainfall (mm)	153.2
1	Rainfall (m3)	5,515
11	Total Inflow (m3)	7,645
9	Evaporation (mm)	39
11	Evaporation (m3)	1,199
0	Seepage (m3)	0
0	Irrigation (m3)	0
11	Total Outflow (m3)	1,199
10	Inflow -Outflow (m3)	6,446
4	Opening Storage Volume Availab	28,304
14	Closing Storage Volume Available	21,858
20	Storage Change (m3)	-6,446
	September	
)()	Storage Surface Area m2	36,000
30	Wastewater Inflow (m3/month)	2,130
.8		a., a. 314
	Rainfall (mm)	47.7
17	Rainfall (mm) Rainfall (m3)	
		47.7
17	Rainfall (m3)	47.7
47	Rainfall (m3) Total Inflow (m3)	47.7 1,717 3,847
47	Rainfall (m3) Total Inflow (m3) Evaporation (mm)	47.7 1,717 3,847 72
47 .7 20	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3)	47.7 1,717 3,847 72 2,214
17 .7 0 0	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)	47.7 1,717 3,847 72 2,214 0 0
17 .7 20 0 20	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3)	47.7 1,717 3,847 72 2,214 0
17 .7 20 0 20 20	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	47.7 1,717 3,847 72 2,214 0 0 2,214
17 .7 20 0 20 20 27	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	47.7 1,717 3,847 72 2,214 0 0 2,214 1,634
47 20 0 20 27 73	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3)	47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 14,647
47 20 0 20 20 27 73 47 27	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) December	47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 14,647 13,013
47 20 0 20 20 27 73 47 27	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3)	47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 14,647 13,013
47 .7 20 0 20 20 27 73 47 27	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) December	47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 14,647 13,013 -1,634
47 20 0 20 20 27 347 27 30 80	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) December Storage Surface Area m2	47.7 1,717 3,847 72 2,214 0 0 0 2,214 1,634 14,647 13,013 -1,634 36,000
17 .7 20 0 20 27 33 17 27 27 20 0 0 20 20 20 20 20 20 20 20 20 20 20	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month)	47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 14,647 13,013 -1,634 36,000 2,130
47 20 0 20 20 27 73 47 20 00 20 20 20 20 20 20 20 20	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm)	47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 14,647 13,013 -1,634 36,000 2,130 59.9
47 20 0 20 20 27 73 47 27 30 30 30 56 96	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3)	47.7 1,717 3,847 72 2,214 0 0 0 2,214 1,634 14,647 13,013 -1,634 36,000 2,130 59.9 2,156
17 .7 20 0 20 27 37 37 37 37 30 30 30 30 30 30 30 30 30 30 30 30 30	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3)	47.7 1,717 3,847 72 2,214 0 0 0 2,214 1,634 14,647 13,013 -1,634 36,000 2,130 59.9 2,156 4,286
47 20 0 20 27 73 47 27 30 30 30 30 30 30 30 30 30 30	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm)	47.7 1,717 3,847 72 2,214 0 0 0 2,214 1,634 14,647 13,013 -1,634 36,000 2,130 59.9 2,156 4,286 207.7
17 .7 20 0 20 27 31 27 30 20 27 30 20 27 30 30 30 30 30 30 30 30 30 30 30 30 30	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3)	47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 14,647 13,013 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386
17 .7 20 0 20 27 13 17 27 27 20 0 20 20 20 20 20 20 20 20 20 20 20 2	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)	47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 14,647 13,013 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,385 0 0 0 0 0 0 0 0 0 0 0 0 0
17 .7 00 00 20 27 13 17 27 20 00 20 20 20 20 20 20 20 20 20 20 20	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Seepage (m3) Irrigation (m3)	47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 14,647 13,013 -1,634 36,000 2,130 2,130 59.9 2,156 4,286 207.7 6,386 0
0 20 27 73 47 27 30 30 30 30 30 30 30 30 30 30 30 30 30	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	47.7 1,717 3,847 72 2,214 0 0 2,214 14,634 14,647 13,013 -1,634 36,000 2,130 2,130 59.9 2,156 4,286 207.7 6,386 0 0 0
17 .7 20 0 20 27 30 27 30 27 30 20 27 30 20 27 30 20 27 30 20 20 27 30 20 20 20 20 20 20 20 20 20 20 20 20 20	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 14,647 13,013 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386 0 0 0 6,386 -2,099

Year 10				
January		February		March
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)
Rainfall (mm)	19.1	Rainfall (mm)	10.9	Rainfall (mm)
Rainfall (m3)	688	Rainfall (m3)	392	Rainfall (m3)
Total Inflow (m3)	2,818	Total Inflow (m3)	2,522	Total Inflow (m3)
Evaporation (mm)	229.4	Evaporation (mm)	184.8	Evaporation (mm)
Evaporation (m3)	7,053	Evaporation (m3)	5,681	Evaporation (m3)
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)
Total Outflow (m3)	7,053	Total Outflow (m3)	5,681	Total Outflow (m3)
Inflow -Outflow (m3)	-4,235	Inflow -Outflow (m3)	-3,159	Inflow -Outflow (m3)
Opening Storage Volume Availab	19,759	Opening Storage Volume Availab	23,994	Opening Storage Volume Availab
Closing Storage Volume Available	23,994	Closing Storage Volume Available	27,153	Closing Storage Volume Available
Storage Change (m3)	4,235	Storage Change (m3)	3,159	Storage Change (m3)
April		May		June
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)
Rainfall (mm)	33.2	Rainfall (mm)	29.2	Rainfall (mm)
Rainfall (m3)	1,195	Rainfall (m3)	1,051	Rainfall (m3)
Total Inflow (m3)	3,325	Total Inflow (m3)	3,181	Total Inflow (m3)
Evaporation (mm)	90	Evaporation (mm)	58.9	Evaporation (mm)
Evaporation (m3)	2,767	Evaporation (m3)	1,811	Evaporation (m3)
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)
Total Outflow (m3)	2,767	Total Outflow (m3)	1,811	Total Outflow (m3)
Inflow -Outflow (m3)	558	Inflow -Outflow (m3)	1,370	Inflow -Outflow (m3)
Opening Storage Volume Availab	29,068	Opening Storage Volume Availab	28,510	Opening Storage Volume Availab
Closing Storage Volume Available	28,510	Closing Storage Volume Available	27,140	Closing Storage Volume Available
Storage Change (m3)	-558	Storage Change (m3)	-1,370	Storage Change (m3)
luly		August		September
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)
Rainfall (mm)	102.6	Rainfall (mm)	58.8	Rainfall (mm)
Rainfall (m3)	3,694	Rainfall (m3)	2,117	Rainfall (m3)
Total Inflow (m3)	5,824	Total Inflow (m3)	4,247	Total Inflow (m3)
Evaporation (mm)	40.3	Evaporation (mm)	52.7	Evaporation (mm)
Evaporation (m3)	1,239	Evaporation (m3)	1,620	Evaporation (m3)
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)
Total Outflow (m3)	1,239	Total Outflow (m3)	1,620	Total Outflow (m3)
Inflow -Outflow (m3)	4,585	Inflow -Outflow (m3)	2,627	Inflow -Outflow (m3)
Opening Storage Volume Availab	20,694	Opening Storage Volume Availab	16,109	
Closing Storage Volume Available	16,109	Closing Storage Volume Available	13,482	Closing Storage Volume Available
Storage Change (m3)	-4,585	Storage Change (m3)	-2,627	Storage Change (m3)
October	4000	November		December
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)
Rainfall (mm)	25.9	Rainfall (mm)	29.6	Rainfall (mm)
Rainfall (m3)	932	Rainfall (m3)	1,066	Rainfall (m3)
		Total Inflow (m3)		
Total Inflow (m3)	3,062		3,196	Total Inflow (m3)
Evaporation (mm)	207.7	Evaporation (mm)	147	Evaporation (mm)
Evaporation (m3)	6,386	Evaporation (m3)	4,519	Evaporation (m3)
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)
Total Outflow (m3)	6,386	Total Outflow (m3)	4,519	Total Outflow (m3)
Inflow -Outflow (m3)	-3,323	Inflow Outflow (m3)	-1,324	Inflow -Outflow (m3)
Opening Storage Volume Availab	11,849	Opening Storage Volume Availab	15,172	Opening Storage Volume Availab
Closing Storage Volume Available	15,172	Closing Storage Volume Available	16,496	Closing Storage Volume Available
clusing storage volume available	adjara.	steamy annuge results President		Second storage volume revenues

36,000

2,130 20 720 2,850 155 4,765 0 4,765 -1,915

27,153

29,068 1,915

36,000

2,130 153.2 5,515 7,645 39 1,199 0 1,199 6,446

27,140

20,694 -6,446 36,000

> 2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634

13,482

11,849 -1,634

36,000

2,130 59.9 2,156 4,286 207.7 6,386 0 6,386 -2,099 16,496

18,595

Year 11 January		February
Storage Surface Area m2	36,000	Storage Surfa
Wastewater Inflow (m3/month)	2,130	Wastewater
Rainfall (mm)	19.1	Rainfall (mm)
Rainfall (m3)	688	Rainfall (m3)
Total Inflow (m3)	2.818	Total Inflow
Evaporation (mm)	229.4	Evaporation
Evaporation (m3)	7,053	Evaporation
Seepage (m3)	0	Seepage (m3
Irrigation (m3)	0	Irrigation (m.
Total Outflow (m3)	7,053	Total Outflow
Inflow -Outflow (m3)	-4,235	Inflow Outfl
Opening Storage Volume Availab	18,595	Opening Stor
Closing Storage Volume Available	22,830	Closing Stora
Storage Change (m3)	4,235	Storage Chan
April		May
Storage Surface Area m2	36,000	Storage Surfa
Wastewater Inflow (m3/month)	2,130	Wastewater
Rainfall (mm)	33.2	Rainfall (mm)
Rainfall (m3)	1,195	Rainfall (m3)
Total Inflow (m3)	3,325	Total Inflow
Evaporation (mm)	90	Evaporation
Evaporation (m3)	2,767	Evaporation
Seepage (m3)	0	Seepage (m3
Irrigation (m3)	0	Irrigation (m)
Total Outflow (m3)	2,767	Total Outflow
Inflow -Outflow (m3)	558	Inflow Outfl
Opening Storage Volume Availab	27,904	Opening Stor
Closing Storage Volume Available	27,346	Closing Stora
Storage Change (m3)	-558	Storage Chan
ylut		August
Storage Surface Area m2	36,000	Storage Surfa
Wastewater Inflow (m3/month)	2,130	Wastewater
Rainfall (mm)	102.6	Rainfall (mm
Rainfall (m3)	3,694	Rainfall (m3)
Total Inflow (m3)	5,824	Total Inflow
Evaporation (mm)	40.3	
Evaporation (mm) Evaporation (m3)	1,239	Evaporation
Evaporation (mm) Evaporation (m3) Seepage (m3)	1,239 0	Evaporation Seepage (m3
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3)	1,239 0 0	Evaporation Seepage (m3 Irrigation (m)
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	1,239 0 0 1,239	Evaporation Seepage (m3 Irrigation (m) Total Outflow
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	1,239 0 1,239 4,585	Evaporation Seepage (m3 Irrigation (m) Total Outflow Inflow Outfl
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab	1,239 0 1,239 4,585 19,530	Evaporation Seepage (m3 Irrigation (m3 Total Outflow Inflow -Outfli Opening Stor
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab Closing Storage Volume Availab	1,239 0 1,239 4,585 19,530 14,945	Evaporation i Seepage (m3 Irrigation (m3 Total Outflow Inflow -Outfli Opening Stor Closing Stora
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab Closing Storage Volume Available Storage Change (m3)	1,239 0 1,239 4,585 19,530	Evaporation i Seepage (m3 Irrigation (m3 Total Outflow Inflow -Outfli Opening Stor Closing Stora Storage Chan
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab Closing Storage Volume Available Storage Change (m3) October	1,239 0 1,239 4,585 19,530 14,945 -4,585	Evaporation Seepage (m3 Irrigation (m) Total Outflow Inflow -Outflo Opening Stor Closing Stora Storage Chan November
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) October Storage Surface Area m2	1,239 0 1,239 4,585 19,530 14,945 -4,585	Evaporation Seepage (m3 Irrigation (m3 Total Outflow Inflow -Outflo Opening Stor Closing Stora Storage Chan November Storage Surfa
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availabl Closing Storage Volume Availabl Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month)	1,239 0 1,239 4,585 19,530 14,945 -4,585 36,000 2,130	Evaporation Seepage (m3 Irrigation (m) Total Outflow Inflow -Outflow Opening Stor Closing Stora Storage Chan November Storage Surfa Wastewater
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm)	1,239 0 1,239 4,585 19,530 14,945 -4,585 36,000 2,130 25.9	Evaporation Seepage (m3 Irrigation (m3 Total Outflow Inflow -Outflow Opening Stor Closing Stora Storage Chan November Storage Surfa Wastewater Rainfall (mm
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3)	1,239 0 1,239 4,585 19,530 14,945 -4,585 36,000 2,130 25.9 932	Evaporation Seepage (m3 Irrigation (m3 Total Outflow Inflow -Outflow Opening Stor Closing Stora Storage Chan November Storage Surfa Wastewater Rainfall (mm Rainfall (m3)
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3)	1,239 0 1,239 4,585 19,530 14,945 -4,585 36,000 2,130 25.9 932 3,062	Evaporation Seepage (m3 Irrigation (m Total Outflov Inflow -Outfl Opening Stor Closing Stora Storage Char November Storage Surfa Wastewater Rainfall (mm Rainfall (m3) Total Inflow
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm)	1,239 0 1,239 4,585 19,530 14,945 -4,585 36,000 2,130 25.9 932 3,062 207.7	Evaporation Seepage (m3 Irrigation (m Total Outflov Inflow -Outfl Opening Stor Closing Stora Storage Char November Storage Surfa Wastewater Rainfall (mm Rainfall (m3) Total Inflow Evaporation
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3)	1,239 0 1,239 4,585 19,530 14,945 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386	Evaporation Seepage (m3 Irrigation (m) Total Outflov Inflow -Outflov Opening Stor Closing Stora Storage Chan November Storage Surfa Wastewater Rainfall (mm) Rainfall (m3) Total Inflow Evaporation
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)	1,239 0 1,239 4,585 19,530 14,945 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386 0	Evaporation Seepage (m3 Irrigation (m) Total Outflov Inflow -Outflov Opening Stor Closing Stora Storage Chan Storage Chan November Storage Surfa Wastewater Rainfall (mm) Rainfall (m3) Total Inflow Evaporation Seepage (m3
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3)	1,239 0 1,239 4,585 19,530 14,945 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386 0 0	Evaporation Seepage (m3 Irrigation (m) Total Outflov Inflow -Outflov Opening Stora Storage Chan Storage Chan Storage Surfa Wastewater Rainfall (mm) Rainfall (m3) Total Inflow Evaporation Seepage (m3 Irrigation (m)
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3) Rainfall (mm) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	1,239 0 1,239 4,585 19,530 14,945 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386 0 0 6,386	Evaporation i Seepage (m3 Irrigation (m3 Total Outflow Inflow -Outflow Opening Stora Storage Chan Storage Chan Storage Surfa Wastewater Rainfall (m3) Total Inflow (Evaporation Seepage (m3 Irrigation (m3 Total Outflow
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3) Rainfall (mm) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	1,239 0 1,239 4,585 19,530 14,945 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386 0 0 6,386 -3,323	Evaporation i Seepage (m3 Irrigation (m3 Total Outflow Inflow -Outflow Opening Stora Storage Chan Storage Chan Storage Surfa Wastewater Rainfall (m3) Total Inflow (Evaporation Seepage (m3 Irrigation (m3 Total Outflow Inflow -Outflow
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3) Rainfall (mm) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab	1,239 0 1,239 4,585 19,530 14,945 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386 0 0 6,386 -3,323 10,685	Evaporation i Seepage (m3 Irrigation (m) Total Outflov Inflow -Outflov Opening Stora Storage Chan Storage Chan Storage Surfa Wastewater Rainfall (mm) Rainfall (m3) Total Inflow (Evaporation Evaporation Seepage (m3 Irrigation (m) Total Outflov Inflow -Outflo Opening Stor
Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3) Rainfall (mm) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	1,239 0 1,239 4,585 19,530 14,945 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386 0 0 6,386 -3,323	Evaporation Evaporation Seepage (m3 Irrigation (m) Total Outflov Inflow -Outflo Opening Stor Closing Stora Storage Charn November Storage Surfa Wastewater Rainfall (mm) Rainfall (m3) Total Inflow (Evaporation Evaporation Seepage (m3 Irrigation (m) Total Outflov Inflow -Outflo Opening Stor Closing Stora Storage Char

February Storage Surface Area m2	26.000
Storage Surface Area m2	36,000
Wastewater Inflow (m3/month)	2,130
Rainfall (mm)	10.9
Rainfall (m3)	392
Total Inflow (m3)	-
Evaporation (mm)	184.8
Evaporation (m3)	5,681
Seepage (m3)	0
Irrigation (m3) Total Outflow (m3)	5,681
Inflow -Outflow (m3)	-3,159
	22,830
Opening Storage Volume Availab	25,989
Closing Storage Volume Available	
Storage Change (m3)	3,159
May	26.000
Storage Surface Area m2	36,000
Wastewater Inflow (m3/month)	2,130
Rainfall (mm)	29.2
Rainfall (m3)	1,051
Total Inflow (m3)	3,181
Evaporation (mm)	
Evaporation (m3)	1,811
Seepage (m3)	0
Irrigation (m3)	0
Total Outflow (m3)	1,811
Inflow Outflow (m3)	1,370
Opening Storage Volume Availab	27,346
Closing Storage Volume Available	25,976
Storage Change (m3)	-1,370
August Storage Surface Area m2	36,000
Wastewater Inflow (m3/month)	2,130
Rainfall (mm)	58.8
Rainfall (m3)	2,117
Total Inflow (m3)	4,247
Evaporation (mm)	52.7
Evaporation (m3)	1,620
	1,620
Seepage (m3)	0
Irrigation (m3) Total Outflow (m3)	1,620
	1,020
Inflow -Outflow (m3)	2,627
Inflow -Outflow (m3) Opening Storage Volume Availab	2,627 14,945
Inflow -Outflow (m3) Opening Storage Volume Availab Closing Storage Volume Available	2,627 14,945 12,318
Inflow -Outflow (m3) Opening Storage Volume Availab Closing Storage Volume Available Storage Change (m3)	2,627 14,945 12,318
Inflow -Outflow (m3) Opening Storage Volume Availab Closing Storage Volume Available Storage Change (m3) November	2,627 14,945 12,318 -2,627
Inflow -Outflow (m3) Opening Storage Volume Availab Closing Storage Volume Available Storage Change (m3) November Storage Surface Area m2	2,627 14,945 12,318 -2,627 36,000
Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month)	2,627 14,945 12,318 -2,627 36,000 2,130
Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm)	2,627 14,945 12,318 -2,627 36,000 2,130 29.6
Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3)	2,627 14,945 12,318 -2,627 36,000 2,130 29.6 1,066
Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3)	2,627 14,945 12,318 -2,627 36,000 2,130 29.6 1,066 3,196
Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm)	2,627 14,945 12,318 -2,627 36,000 2,130 29.6 1,066 3,196 147
Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3)	2,627 14,945 12,318 -2,627 36,000 2,130 29.6 1,066 3,196 147 4,519
Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)	2,627 14,945 12,318 -2,627 36,000 2,130 29.6 1,066 3,196 147 4,519 0
Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3)	2,627 14,945 12,318 -2,627 36,000 2,130 29.6 1,066 3,196 147 4,519 0 0
Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	2,627 14,945 12,318 -2,627 36,000 2,130 29.6 1,066 3,196 147 4,519 0 0 0 4,519
Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	2,627 14,945 12,318 -2,627 36,000 2,130 29.6 1,066 3,196 147 4,519 0 0 4,519 -1,324
Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab	2,627 14,945 12,318 -2,627 36,000 2,130 29.6 1,066 3,196 1,066 3,196 1,47 4,519 0 0 4,519 -1,324 14,008
Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	2,627 14,945 12,318 -2,627 36,000 2,130 29.6 1,066 3,196 147 4,519 0 0 4,519 -1,324

	March	
0	Storage Surface Area m2	36,000
0	Wastewater Inflow (m3/month)	2,130
9	Rainfall (mm)	20
2	Rainfall (m3)	720
2	Total Inflow (m3)	2,850
8	Evaporation (mm)	155
1	Evaporation (m3)	4,765
0	Seepage (m3)	0
0	Irrigation (m3)	0
1	Total Outflow (m3)	4,765
9	Inflow -Outflow (m3)	-1,915
0	Opening Storage Volume Availab	25,989
9	Closing Storage Volume Available	27,904
9	Storage Change (m3)	1,915
	June	
0	Storage Surface Area m2	36,000
0	Wastewater Inflow (m3/month)	2,130
2	Rainfall (mm)	153.2
1	Rainfali (m3)	5,515
1	Total Inflow (m3)	7,645
9	Evaporation (mm)	39
1	Evaporation (m3)	1,199
0	Seepage (m3)	0
0	Irrigation (m3)	0
1	Total Outflow (m3)	1,199
0	Inflow -Outflow (m3)	6,446
6	Opening Storage Volume Availab	25,976
6	Closing Storage Volume Available	19,530
0	Storage Change (m3) September	-6,446
0		36,000
	Storage Surface Area m2	36,000
0	Storage Surface Area m2 Wastewater Inflow (m3/month)	2,130
0	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm)	2,130 47.7
0 8 7	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3)	2,130 47.7 1,717
0 8 7 7	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3)	2,130 47.7 1,717 3,847
087777	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm)	2,130 47.7 1,717 3,847 72
087770	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3)	2,130 47.7 1,717 3,847 72 2,214
08777700	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)	2,130 47.7 1,717 3,847 72 2,214 0
08777000	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Evaporation (m3) Seepage (m3) Irrigation (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0
0877700000	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214
0877700007	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634
08777000075	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 12,318
0 0 8 7 7 7 0 0 0 7 5 8 7	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634
0 8 7 7 7 0 0 0 7 5 8 7	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 12,318 10,685 -1,634
0 8 7 7 7 0 0 0 7 5 8 7 0 0 0 7 5 8 7 0 0 0 7 5 8 7 0 0 0 7 5 8 7 0 0 0 0 7 5 8 7 0 0 0 0 7 5 8 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 12,318 10,685 -1,634 36,000
0 8 7 7 7 0 0 0 7 5 8 7 0 0 0 7 5 8 7 0 0 0 0 7 5 8 7 0 0 0 0 7 5 8 7 0 0 0 0 0 7 5 8 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 12,318 10,685 -1,634 36,000 2,130
0 8 7 7 7 0 0 0 0 7 5 8 7 0 0 6	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 12,318 10,685 -1,634 36,000 2,130 59.9
0 8 7 7 7 0 0 0 7 5 8 7 0 0 6 6	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 12,318 10,685 -1,634 36,000 2,130 59.9 2,156
0 8 7 7 0 0 0 0 7 5 8 7 0 0 6 6 6 6	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 12,318 10,685 -1,634 36,000 2,130 59.9 2,156 4,286
0 8 7 7 7 0 0 0 0 7 5 8 7 0 0 6 6 6 7	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 12,318 10,685 -1,634 36,000 2,130 59.9 2,156 4,286 207.7
08777000075870066679	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 12,318 10,685 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386
0 8 7 7 7 0 0 0 7 5 8 7 0 0 6 6 6 7 9 0	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 12,318 10,685 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386 0
08770007587006667900	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 12,318 10,685 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386 0 0
	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 12,318 10,685 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386 0 0 0 6,386
0877700007587006666790094	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Inflow -Outflow (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 12,318 10,685 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386 0 0 0 6,386 -2,099
0877700007587006667900948	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Inflow -Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 12,318 10,685 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386 0 0 6,386 -2,099 15,332
0877700007587006666790094	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Inflow -Outflow (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 12,318 10,685 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386 0 0 0 6,386 -2,099

January		February		March	
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36,000
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,13
Rainfall (mm)	19.1	Rainfall (mm)	10.9	Rainfall (mm)	2
Rainfall (m3)	688	Rainfall (m3)	392	Rainfall (m3)	72
Total Inflow (m3)	2,818	Total Inflow (m3)	2,522	Total Inflow (m3)	2,85
			100 A 100 A		15
Evaporation (mm)	229.4	Evaporation (mm)	184.8	Evaporation (mm)	
Evaporation (m3)	7,053	Evaporation (m3)	5,681	Evaporation (m3)	4,76
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)	
Irrigation (m3) Total Outflow (m3)	7,053	Irrigation (m3) Total Outflow (m3)	5,681	Irrigation (m3)	4,76
			and the second second	Total Outflow (m3)	
Inflow -Outflow (m3)	-4,235	Inflow -Outflow (m3)	-3,159	Inflow Outflow (m3)	-1,91
Opening Storage Volume Availab	17,431	Opening Storage Volume Availab	21,666	Opening Storage Volume Availab	24,82
Closing Storage Volume Available	21,666	Closing Storage Volume Available	24,825	Closing Storage Volume Available	26,74
Storage Change (m3)	4,235	Storage Change (m3)	3,159	Storage Change (m3)	1,91
April		Мау		June	
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36,00
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,13
Rainfall (mm)	33.2	Rainfall (mm)	29.2	Rainfall (mm)	153.
Rainfall (m3)	1,195	Rainfall (m3)	1,051	Rainfall (m3)	5,51
Total Inflow (m3)	3,325	Total Inflow (m3)	3,181	Total Inflow (m3)	7,64
Evaporation (mm)	90	Evaporation (mm)	58.9	Evaporation (mm)	3
Evaporation (m3)	2,767	Evaporation (m3)	1,811	Evaporation (m3)	1,19
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)	
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)	
Total Outflow (m3)	2,767	Total Outflow (m3)	1,811	Total Outflow (m3)	1,19
Inflow -Outflow (m3)	558	Inflow -Outflow (m3)	1,370	Inflow -Outflow (m3)	6,44
Opening Storage Volume Availab	26,740	Opening Storage Volume Availab	26,182	Opening Storage Volume Availab	24,81
Closing Storage Volume Available	26,182	Closing Storage Volume Available	24,812	Closing Storage Volume Available	18,36
Storage Change (m3)	-558	Storage Change (m3)	-1,370	Storage Change (m3)	-6,44
ylut		August		September	
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36,00
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,13
Rainfall (mm)	102.6	Rainfall (mm)	58.8	Rainfall (mm)	47.
Rainfall (m3)	3,694	Rainfall (m3)	2,117	Rainfall (m3)	1,71
Total Inflow (m3)	5,824	Total Inflow (m3)	4,247	Total Inflow (m3)	3,84
Evaporation (mm)	40.3	Evaporation (mm)	52.7	Evaporation (mm)	7
Evaporation (m3)	1,239	Evaporation (m3)	1,620	Evaporation (m3)	2,21
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)	-,
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)	
Total Outflow (m3)	1,239	Total Outflow (m3)	1,620	Total Outflow (m3)	2,21
Inflow -Outflow (m3)	4,585	Inflow -Outflow (m3)	2,627	Inflow -Outflow (m3)	1,63
Opening Storage Volume Availab	18,365	Opening Storage Volume Availab	13,781	Opening Storage Volume Availab	11,15
	13,781	Closing Storage Volume Available	13,761	Closing Storage Volume Available	9,52
Closing Storage Volume Available			11,154		
Storage Change (m3)	-4,585	Storage Change (m3) November	-2,627	Storage Change (m3) December	-1,63
October Storage Surface Area m2	36,000		36,000		36.00
	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36,00
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,13
Rainfall (mm)	25.9	Rainfall (mm)	29.6	Rainfall (mm)	59.
Rainfall (m3)	932	Rainfall (m3)	1,066	Rainfall (m3)	2,15
Total Inflow (m3)	3,062	Total Inflow (m3)	3,196	Total Inflow (m3)	4,28
Evaporation (mm)	207.7	Evaporation (mm)	147	Evaporation (mm)	207.
Evaporation (m3)	6,386	Evaporation (m3)	4,519	Evaporation (m3)	6,38
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)	
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)	
Total Outflow (m3)	6,386	Total Outflow (m3)	4,519	Total Outflow (m3)	6,38
rotal outline (ma)		In Day Or a Day (m2)	-1,324	Inflow -Outflow (m3)	-2,09
	-3,323	Inflow -Outflow (m3)	.7524	union and and they	
Inflow -Outflow (m3) Opening Storage Volume Availab	-3,323 9,521	Opening Storage Volume Availab	12,844	Opening Storage Volume Availab	14,16
Inflow -Outflow (m3)					

January		February		March	
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36,000
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130
Rainfall (mm)	19.1	Rainfall (mm)	10.9	Rainfall (mm)	20
Rainfall (m3)	688	Rainfall (m3)	392	Rainfall (m3)	720
Total Inflow (m3)	2,818	Total Inflow (m3)	2.522	Total Inflow (m3)	2,85
Evaporation (mm)	229.4	Evaporation (mm)	184.8	Evaporation (mm)	155
Evaporation (m3)	7,053	Evaporation (m3)	5,681	Evaporation (m3)	4,765
Seepage (m3)	1,035	Seepage (m3)	3,001	Seepage (m3)	4,10.
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)	
Total Outflow (m3)	7,053	Total Outflow (m3)	5,681	Total Outflow (m3)	4,765
Inflow -Outflow (m3)	-4,235	Inflow -Outflow (m3)	-3,159	Inflow -Outflow (m3)	-1,919
Opening Storage Volume Availab	16,267	Opening Storage Volume Availab	20,502	Opening Storage Volume Availab	23,661
Closing Storage Volume Available	20,502	Closing Storage Volume Available	23,661	Closing Storage Volume Available	25,576
Storage Change (m3)	4,235	Storage Change (m3)	3,159	Storage Change (m3)	1,91
April	4,233	May	3,133	June	1,51.
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36,000
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130
Rainfall (mm)	33.2	Rainfall (mm)	29.2		153.2
Rainfall (m3)	1,195	Rainfall (m3)	1,051	Rainfall (mm) Rainfall (m3)	
	3,325	Total Inflow (m3)		Total Inflow (m3)	5,515
Total Inflow (m3)			3,181		7,645
Evaporation (mm)	90	Evaporation (mm)	58.9	Evaporation (mm)	39
Evaporation (m3)	2,767	Evaporation (m3)	1,811	Evaporation (m3)	1,199
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)	-
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)	
Total Outflow (m3)	2,767	Total Outflow (m3)	1,811	Total Outflow (m3)	1,199
Inflow -Outflow (m3)	558	Inflow Outflow (m3)	1,370	Inflow -Outflow (m3)	6,446
Opening Storage Volume Availab	25,576	Opening Storage Volume Availab	25,018	Opening Storage Volume Availab	23,647
Closing Storage Volume Available	25,018	Closing Storage Volume Available	23,647	Closing Storage Volume Available	17,201
Storage Change (m3)	-558	Storage Change (m3)	-1,370	Storage Change (m3)	-6,446
July		August		September	
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36,000
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130
Rainfall (mm)	102.6	Rainfall (mm)	58.8	Rainfall (mm)	47.3
Rainfall (m3)	3,694	Rainfall (m3)	2,117	Rainfall (m3)	1,717
Total Inflow (m3)	5,824	Total Inflow (m3)	4,247	Total Inflow (m3)	3,847
Evaporation (mm)	40.3	Evaporation (mm)	52.7	Evaporation (mm)	72
Evaporation (m3)	1,239	Evaporation (m3)	1,620	Evaporation (m3)	2,214
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)	0
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)	0
Total Outflow (m3)	1,239	Total Outflow (m3)	1,620	Total Outflow (m3)	2,214
Inflow -Outflow (m3)	4,585	Inflow -Outflow (m3)	2,627	Inflow -Outflow (m3)	1,634
Opening Storage Volume Availab	17,201	Opening Storage Volume Availab	12,617	Opening Storage Volume Availab	9,990
Closing Storage Volume Available	12,617	Closing Storage Volume Available	9,990	Closing Storage Volume Available	8,356
Storage Change (m3)	-4,585	Storage Change (m3)	-2,627	Storage Change (m3)	-1,634
October		November		December	
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	36,000
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130
Rainfall (mm)	25.9	Rainfall (mm)	29.6	Rainfall (mm)	59.5
Rainfall (m3)	932	Rainfall (m3)	1,066	Rainfall (m3)	2,150
Total Inflow (m3)	3,062	Total Inflow (m3)	3,196	Total Inflow (m3)	4,286
Evaporation (mm)	207.7	Evaporation (mm)	147	Evaporation (mm)	207.7
Evaporation (m3)	6,386	Evaporation (m3)	4,519	Evaporation (m3)	6,386
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)	(
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)	
Total Outflow (m3)	6,386	Total Outflow (m3)		Total Outflow (m3)	6,380
Inflow -Outflow (m3)	-3,323	Inflow -Outflow (m3)	-1,324	Inflow -Outflow (m3)	-2,099
	a start	and a source final		and a success (ma)	
	8 356	Opening Storage Volume Auslish	11 690	Opening Storage Volume Availab	12 001
Opening Storage Volume Availab	8,356	Opening Storage Volume Available	11,680	Opening Storage Volume Availab	
Opening Storage Volume Availab Closing Storage Volume Available Storage Change (m3)	8,356 11,680 3,323	Opening Storage Volume Availab Closing Storage Volume Available Storage Change (m3)	11,680 13,003 1,324	Opening Storage Volume Availab Closing Storage Volume Available Storage Change (m3)	13,003 15,102 2,099

Year 14

Year 14		
January		February
Storage Surface Area m2	36,000	Storage Surface
Wastewater Inflow (m3/month)	2,130	Wastewater In
Rainfall (mm)	19.1	Rainfall (mm)
Rainfall (m3)	688	Rainfall (m3)
Total Inflow (m3)	2,818	Total Inflow (m
Evaporation (mm)	229.4	Evaporation (m
Evaporation (m3)	7,053	Evaporation (m
Seepage (m3)	0	Seepage (m3)
Irrigation (m3)	0	Irrigation (m3)
Total Outflow (m3)	7,053	Total Outflow
Inflow -Outflow (m3)	-4,235	Inflow Outflow
Opening Storage Volume Availab	15,102	Opening Storag
Closing Storage Volume Available	19,338	Closing Storage
Storage Change (m3)	4,235	Storage Change
April		May
Storage Surface Area m2	36,000	Storage Surface
Wastewater Inflow (m3/month)	2,130	Wastewater In
Rainfall (mm)	33.2	Rainfall (mm)
Rainfall (m3)	1,195	Rainfall (m3)
Total Inflow (m3)	3,325	Total Inflow (m
Evaporation (mm)	90	Evaporation (m
Evaporation (m3)	2,767	Evaporation (m
Seepage (m3)	0	Seepage (m3)
Irrigation (m3)	0	Irrigation (m3)
Total Outflow (m3)	2,767	Total Outflow
Inflow -Outflow (m3)	558	Inflow Outflow
Opening Storage Volume Availab	24,412	Opening Storag
Closing Storage Volume Available	23,854	Closing Storage
Storage Change (m3)	-558	Storage Change
Indu		A
July		August
Storage Surface Area m2	36,000	Storage Surface
Storage Surface Area m2 Wastewater Inflow (m3/month)	2,130	Storage Surface Wastewater In
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm)	2,130 102.6	Storage Surface Wastewater In Rainfall (mm)
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3)	2,130 102.6 3,694	Storage Surface Wastewater In/ Rainfall (mm) Rainfall (m3)
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3)	2,130 102.6 3,694 5,824	Storage Surface Wastewater In Rainfall (mm) Rainfall (m3) Total Inflow (m
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm)	2,130 102.6 3,694 5,824 40.3	Storage Surface Wastewater In Rainfall (mm) Rainfall (m3) Total Inflow (m Evaporation (m
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3)	2,130 102.6 3,694 5,824 40.3 1,239	Storage Surfaci Wastewater Ini Rainfall (mm) Rainfall (m3) Total Inflow (m Evaporation (m Evaporation (m
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)	2,130 102.6 3,694 5,824 40.3 1,239 0	Storage Surfaci Wastewater Ini Rainfall (mm) Rainfall (m3) Total Inflow (m Evaporation (m Evaporation (m Seepage (m3)
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Evaporation (m3) Seepage (m3) Irrigation (m3)	2,130 102.6 3,694 5,824 40.3 1,239 0 0	Storage Surfaci Wastewater Ini Rainfall (mm) Rainfall (m3) Total Inflow (m Evaporation (m Evaporation (m Seepage (m3) Irrigation (m3)
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239	Storage Surfaci Wastewater Ini Rainfall (m3) Total Inflow (m Evaporation (m Evaporation (m Seepage (m3) Irrigation (m3) Total Outflow (
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585	Storage Surface Wastewater Ini Rainfall (mm) Rainfall (m3) Total Inflow (m Evaporation (m Evaporation (m Seepage (m3) Irrigation (m3) Total Outflow (Inflow -Outflow)
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 16,037	Storage Surface Wastewater Ini Rainfall (mm) Rainfall (m3) Total Inflow (m Evaporation (m Evaporation (m Seepage (m3) Irrigation (m3) Total Outflow Opening Storage
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab Closing Storage Volume Availab	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 16,037 11,453	Storage Surface Wastewater Ini Rainfall (mm) Rainfall (m3) Total Inflow (m Evaporation (m Evaporation (m Seepage (m3) Irrigation (m3) Total Outflow (Inflow -Outflow Opening Storage Closing Storage
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3)	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 16,037	Storage Surface Wastewater Ini Rainfall (mm) Rainfall (m3) Total Inflow (m Evaporation (m Evaporation (m3) Irrigation (m3) Total Outflow (Inflow -Outflow Opening Storage Storage Chang
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 16,037 11,453 -4,585	Storage Surface Wastewater Ini Rainfall (mm) Rainfall (m3) Total Inflow (m Evaporation (m Evaporation (m3) Irrigation (m3) Total Outflow (Inflow -Outflow Opening Storage Closing Storage Storage Change
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab Closing Storage Volume Availab Storage Change (m3) October Storage Surface Area m2	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 16,037 11,453 -4,585 36,000	Storage Surface Wastewater Ini Rainfall (mm) Rainfall (m3) Total Inflow (m Evaporation (m Evaporation (m3) Irrigation (m3) Total Outflow (Inflow -Outflow Opening Storage Storage Change Storage Surface
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab Closing Storage Volume Availab Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month)	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 16,037 11,453 -4,585 36,000 2,130	Storage Surface Wastewater Ini Rainfall (mm) Rainfall (m3) Total Inflow (m Evaporation (m Evaporation (m3) Irrigation (m3) Total Outflow (Inflow -Outflow Opening Storage Storage Change November Storage Surface Wastewater Ini
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm)	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 16,037 11,453 -4,585 36,000 2,130 25.9	Storage Surface Wastewater Ini Rainfall (mm) Rainfall (m3) Total Inflow (m Evaporation (m Evaporation (m3) Irrigation (m3) Total Outflow (Inflow -Outflow Opening Storage Storage Change November Storage Surface Wastewater Ini Rainfall (mm)
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3)	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 16,037 11,453 -4,585 36,000 2,130 25.9 932	Storage Surface Wastewater Ini Rainfall (mm) Rainfall (m3) Total Inflow (m Evaporation (m Evaporation (m3) Irrigation (m3) Total Outflow (Inflow -Outflow Opening Storage Storage Change November Storage Surface Wastewater Ini Rainfall (mm) Rainfall (m3)
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3)	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 16,037 11,453 -4,585 36,000 2,130 25.9 932 3,062	Storage Surface Wastewater Ini Rainfall (mm) Rainfall (m3) Total Inflow (m Evaporation (m Evaporation (m3) Total Outflow (Inflow -Outflow Opening Storage Storage Change November Storage Surface Wastewater Ini Rainfall (mm) Rainfall (m3) Total Inflow (m
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm)	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 16,037 11,453 -4,585 36,000 2,130 25.9 932 3,062 207.7	Storage Surface Wastewater Ini Rainfall (mm) Rainfall (m3) Total Inflow (m Evaporation (m Evaporation (m3) Total Outflow (Inflow -Outflow (Opening Storage Storage Change November Storage Surface Wastewater Ini Rainfall (mm) Rainfall (m3) Total Inflow (m Evaporation (m
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3)	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 16,037 11,453 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386	Storage Surface Wastewater Ini Rainfall (mm) Rainfall (m3) Total Inflow (m Evaporation (m Evaporation (m3) Total Outflow (Inflow -Outflow (Inflow -Outflow (Opening Storage Storage Change November Storage Surface Wastewater Ini Rainfall (mm) Rainfall (m3) Total Inflow (m Evaporation (m
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 16,037 11,453 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386 0	Storage Surfaci Wastewater Ini Rainfall (mm) Rainfall (m3) Total Inflow (m Evaporation (m Evaporation (m Seepage (m3) Irrigation (m3) Total Outflow (Inflow -Outflow Opening Storage Storage Change November Storage Surfaci Wastewater Ini Rainfall (mm) Rainfall (m3) Total Inflow (m Evaporation (m Seepage (m3)
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3)	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 16,037 11,453 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386 0 0	Storage Surface Wastewater Ini Rainfall (mm) Rainfall (m3) Total Inflow (m Evaporation (m Evaporation (m Seepage (m3) Irrigation (m3) Total Outflow (Inflow -Outflow Opening Storage Storage Change November Storage Surface Wastewater Ini Rainfall (mm) Rainfall (m3) Total Inflow (m Evaporation (m Seepage (m3) Irrigation (m3)
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 16,037 11,453 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386 0 0 6,386	Storage Surfaci Wastewater Ini Rainfall (mm) Rainfall (m3) Total Inflow (m Evaporation (m Evaporation (m Seepage (m3) Irrigation (m3) Total Outflow Opening Storage Storage Change November Storage Surfaci Wastewater Ini Rainfall (mm) Rainfall (m3) Total Inflow (m Evaporation (m Seepage (m3) Irrigation (m3) Total Outflow (
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Inflow -Outflow (m3)	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 16,037 11,453 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386 0 0 6,386 -3,323	Storage Surface Wastewater Ini Rainfall (mm) Rainfall (m3) Total Inflow (m Evaporation (m Evaporation (m Seepage (m3) Irrigation (m3) Total Outflow (Inflow -Outflow Opening Storage Storage Change November Storage Surface Wastewater Ini Rainfall (m3) Total Inflow (m Evaporation (m Seepage (m3) Irrigation (m3) Total Outflow (Inflow -Outflow (Inflow -Outflow (Inflow -Outflow (Inflow -Outflow (
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Inflow -Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 16,037 11,453 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386 0 0 6,386 -3,323 7,192	Storage Surface Wastewater Ini Rainfall (mm) Rainfall (m3) Total Inflow (m Evaporation (m Evaporation (m Seepage (m3) Irrigation (m3) Total Outflow (Inflow -Outflow Opening Storage Storage Change November Storage Surface Wastewater Ini Rainfall (mm) Rainfall (m3) Total Inflow (m Evaporation (m Seepage (m3) Irrigation (m3) Total Outflow (Inflow -Outflow Opening Storage
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 16,037 11,453 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386 0 0 6,386 -3,323	Storage Surface Wastewater Ini Rainfall (mm) Rainfall (m3) Total Inflow (m Evaporation (m Evaporation (m Seepage (m3) Irrigation (m3) Total Outflow (Inflow -Outflow Opening Storage Storage Change November Storage Surface Wastewater Ini Rainfall (mm) Rainfall (m3) Total Inflow (m Evaporation (m Seepage (m3) Irrigation (m3) Total Outflow (Inflow -Outflow Opening Storage Closing Storage Closing Storage Closing Storage
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Inflow -Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 16,037 11,453 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386 0 0 6,386 -3,323 7,192	Storage Surfi Wastewater Rainfall (mm Rainfall (m3) Total Inflow Evaporation Evaporation Seepage (m3) Irrigation (m Total Outflov Inflow -Outflov Inflow -Outflov Closing Storage Storage Char Storage Char Storage Char Storage Surfi Wastewater Rainfall (m3) Total Inflow Evaporation Evaporation Seepage (m3) Irrigation (m Total Outflov Inflow -Outflov Inflow -Outflov Inflow -Outflov Inflow -Outflov

February		M
Storage Surface Area m2	36,000	Ste
Wastewater Inflow (m3/month)	2,130	W
Rainfall (mm)	10.9	Ra
Rainfall (m3)	392	Ra
Total Inflow (m3)	2,522	To
Evaporation (mm)	184.8	Ev
Evaporation (m3)	5,681	Ev
Seepage (m3)	0	Se
trrigation (m3)	0	Irr
Total Outflow (m3)	5,681	To
Inflow -Outflow (m3)	-3,159	Inf
Opening Storage Volume Availab	19,338	Op
Closing Storage Volume Available	22,497	Clo
Storage Change (m3)	3,159	Ste
May Storage Surface Area m2	36,000	Ju
Wastewater Inflow (m3/month)	2,130	W
Rainfall (mm)	29.2	Ra
Rainfall (m3)	1,051	Ra
Total Inflow (m3)	3,181	To
Evaporation (mm)	58.9	Ev
Evaporation (m3)	1,811	Ev
Seepage (m3)	0	Se
Irrigation (m3)	0	Im
Total Outflow (m3)	1,811	To
Inflow -Outflow (m3)	1,370	Inf
Opening Storage Volume Availab	23,854	Op
Closing Storage Volume Available	22,483	Cle
Storage Change (m3)	-1,370	Ste
area alle en aulte fuest	1,3/0	1000
August	-1,270	Se
August Storage Surface Area m2	36,000	Sto
August	36,000 2,130	Se
August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm)	36,000 2,130 58.8	Sto
August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3)	36,000 2,130 58.8 2,117	Se Sto Wa Ra Ra
August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3)	36,000 2,130 58.8 2,117 4,247	Se Sto Ra Ra To
August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm)	36,000 2,130 58.8 2,117 4,247 52.7	Se Str Wa Ra Ra To Ev
August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3)	36,000 2,130 58.8 2,117 4,247 52.7 1,620	Se Sto Wa Ra Ra To Ev Ev
August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)	36,000 2,130 58.8 2,117 4,247 52.7 1,620 0	Se Sto Ra Ra To Ev Ev Se
August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3)	36,000 2,130 58.8 2,117 4,247 52.7 1,620 0 0	Se Sto Ra Ra To Ev Ev Se Irr
August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	36,000 2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620	Se Str Ra Ra To Ev Se Irr To
August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	36,000 2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627	See Str Wi Ra Ra To Ev Ev See Irr To Inf
August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Yotal Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab	36,000 2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 11,453	Se Str Ra Ra To Ev Se Irr To
August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Yotal Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available	36,000 2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 11,453 8,826	See Stri Ra Ra Ra To Ev See Irri To Irri Op Clo
August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3)	36,000 2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 11,453	See Stri Ra Ra To Ev See Irri To Irri Op Clo Stri
August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November	36,000 2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 11,453 8,826 -2,627	Se Str Wi Ra Ra To Ev Se Irri To Inf Op Clo Sto De
August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2	36,000 2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 11,453 8,826 -2,627 36,000	See Stri Ra Ra To Ev See Irri To Irri Op Clo Stri
August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month)	36,000 2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 11,453 8,826 -2,627 36,000 2,130	Se Str W: Ra Ra To Ev Se Irr To Irr To Inf Op Cle Str W:
August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm)	36,000 2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 11,453 8,826 -2,627 36,000 2,130 29.6	Se Str W: Ra Ra To Ev Se Irr To Irr Op Clo Str Str Str
August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3)	36,000 2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 11,453 8,826 -2,627 36,000 2,130 29.6 1,066	See Stor W: Ra Ra To Ev Se Irri To Clo Stor W: Ra Ra Ra
August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm)	36,000 2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 11,453 8,826 -2,627 36,000 2,130 29.6	See Stri W: Ra Ra To Ev Ev See Irri To Irri Op Clo Stri W: Ra
August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm)	36,000 2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 11,453 8,826 -2,627 36,000 2,130 29.6 1,066 3,196 147	See Stri WW Ra Ra To Ev Ev See Int To Inf Op Cla Stri WR Ra To Ev Ev
August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (mm) Evaporation (m3)	36,000 2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 11,453 8,826 -2,627 36,000 2,130 29.6 1,066 3,196	See Stri W: Ra Ra To Ev Se Irri To Irri Op Clo Stri W: Ra Ra To
August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Evaporation (m3) Seepage (m3)	36,000 2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 11,453 8,826 -2,627 36,000 2,130 29.6 1,066 3,196 147 4,519	See Stri WW Ra Ra To Ev See Irr To Inf Op Clo Stri WW Ra Ra To EV EV EV EV
August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Evaporation (m3) Seepage (m3) Irrigation (m3)	36,000 2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 11,453 8,826 -2,627 36,000 2,130 29.6 1,066 3,196 147 4,519 0 0	Second States St
August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	36,000 2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 11,453 8,826 -2,627 36,000 2,130 29.6 1,066 3,196 147 4,519 0	See International Sectors Sect
August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Evaporation (m3) Seepage (m3) Irrigation (m3) Seepage (m3) Irrigation (m3) Seepage (m3) Irrigation (m3) Seepage (m3) Irrigation (m3) Social Outflow (m3) Irrigation (m3) Total Outflow (m3) Irrigation (m3) Total Outflow (m3) Irrigation (m3) Seepage (m3) Irrigation (m3) Inflow -Outflow Inflow -Outflow (m3) Inflow -Outflow Inflow -	36,000 2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 11,453 8,826 -2,627 36,000 2,130 29.6 1,066 3,196 147 4,519 0 0 4,519	See Int Open Content of Content o
August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Evaporation (m3) Seepage (m3) Irrigation (m3) Seepage (m3) Irrigation (m3) Seepage (m3) Irrigation (m3) Seepage (m3) Irrigation (m3) Solution (m3) Total Outflow (m3) Inflow -Outflow (m3) Inflow -Outflow (m3) Inflow -Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) Irrigation (m3) Seepage (m3) Irrigation (m3) Opening Storage Volume Availab	36,000 2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 11,453 8,826 -2,627 36,000 2,130 29.6 1,066 3,196 147 4,519 0 0 4,519 -1,324	See Info Classes I
August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Evaporation (m3) Seepage (m3) Irrigation (m3) Seepage (m3) Irrigation (m3) Seepage (m3) Irrigation (m3) Seepage (m3) Irrigation (m3) Social Outflow (m3) Irrigation (m3) Total Outflow (m3) Irrigation (m3) Total Outflow (m3) Irrigation (m3) Seepage (m3) Irrigation (m3) Inflow -Outflow Inflow -Outflow (m3) Inflow -Outflow Inflow -	36,000 2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 11,453 8,826 -2,627 36,000 2,130 29.6 1,066 3,196 147 4,519 0 0 4,519 -1,324 10,515	See Info Classes I

_	March	
0	Storage Surface Area m2	36,000
0	Wastewater Inflow (m3/month)	2,130
9	Rainfall (mm)	20
2	Rainfall (m3)	720
2	Total Inflow (m3)	2,850
8	Evaporation (mm)	155
1	Evaporation (m3)	4,765
Ø	Seepage (m3)	0
0	Irrigation (m3)	0
1	Total Outflow (m3)	4,765
9	Inflow -Outflow (m3)	-1,915
8	Opening Storage Volume Availab	22,497
7	Closing Storage Volume Available	24,412
9	Storage Change (m3)	1,915
_	June	24.220
0	Storage Surface Area m2	36,000
0	Wastewater Inflow (m3/month)	2,130
2	Rainfall (mm)	153.2
1	Rainfall (m3)	5,515
1	Total Inflow (m3)	7,645
9	Evaporation (mm)	39
1	Evaporation (m3)	1,199
0	Seepage (m3)	0
1	Irrigation (m3) Total Outflow (m3)	1,199
0	Inflow -Outflow (m3)	6,446
4	Opening Storage Volume Availab	22,483
3	Closing Storage Volume Available	16,037
0	Storage Change (m3)	-6,446
_	and the sum for (true)	
	September	
0	September Storage Surface Area m2	36,000
0		
	Storage Surface Area m2	36,000 2,130 47.7
0	Storage Surface Area m2 Wastewater Inflow (m3/month)	2,130
08	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm)	2,130 47.7
0 8 7	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3)	2,130 47.7 1,717
0877	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3)	2,130 47.7 1,717 3,847
0 8 7 7 7 7	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm)	2,130 47.7 1,717 3,847 72
0 8 7 7 7 0	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3)	2,130 47.7 1,717 3,847 72 2,214
0 8 7 7 7 0 0	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)	2,130 47.7 1,717 3,847 72 2,214 0
0 8 7 7 7 0 0 0	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0
0 8 7 7 7 0 0 0 0	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214
0 8 7 7 7 0 0 0 7 3 6	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 8,826 7,192
0 8 7 7 7 0 0 0 7 3	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 8,826
0 8 7 7 7 0 0 0 7 3 6 7	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 8,826 7,192 -1,634
0 8 7 7 7 0 0 0 7 3 6 7 0 0	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 8,826 7,192 -1,634 36,000
0 8 7 7 7 0 0 0 0 7 3 6 7 0 0 0	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 8,826 7,192 -1,634 36,000 2,130
0 8 7 7 7 0 0 0 7 3 6 7 0 0 6	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 8,826 7,192 -1,634 36,000 2,130 59.9
08777000073670066	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 8,826 7,192 -1,634 36,000 2,130 59.9 2,156
087770000736700666	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 8,826 7,192 -1,634 36,000 2,130 59.9 2,156 4,286
0877700007367006667	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 8,826 7,192 -1,634 36,000 2,130 59.9 2,156 4,286 207.7
08777000073670066679	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 8,826 7,192 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386
087770000736700666790	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 8,826 7,192 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386 0
0877700007367006667900	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Evaporation (m3) Seepage (m3) Irrigation (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 8,826 7,192 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386 0 0
08777000073670066679009	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 8,826 7,192 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386 0 0 6,386
087770000736700666790094	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Inflow -Outflow (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 8,826 7,192 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386 0 0 6,386 -2,099
0877700007367 006667900945	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Inflow -Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 8,826 7,192 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386 0 0 6,386 -2,099 11,839
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Opening Storage Volume Availab 6,028 Opening Storage Volume Availab Closing Storage Volume Availabl 9,351 Closing Storage Volume Availab	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Seepage (m3) Irrigation (m3)	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 14,873 10,288 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386 0 0	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3)
Closing Storage Volume Available 9,351 Closing Storage Volume Available	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 14,873 10,288 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386 0 0 0 6,386	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)
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Storage Change (m3) 3,323 Storage Change (m3)	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Inflow -Outflow (m3) Inflow -Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Closing Storage Volume Available	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 14,873 10,288 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386 0 0 6,386 -3,323 6,028 9,351	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Seepage (m3) Irrigation (m3) Seepage (m3) Inflow -Outflow (m3) Inflow -Outflow (m3) Inflow -Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab Closing Storage Volume Availab Closing Storage Volume Availab

	March	
36,000	Storage Surface Area m2	36,000
2,130	Wastewater Inflow (m3/month)	2,130
10.9	Rainfall (mm)	20
392	Rainfall (m3)	720
2,522	Total Inflow (m3)	2,850
184.8	Evaporation (mm)	155
5,681	Evaporation (m3)	4,765
0	Seepage (m3)	0
0	Irrigation (m3)	0
5,681	Total Outflow (m3)	4,765
-3,159	Inflow -Outflow (m3)	-1,915
18,173	Opening Storage Volume Availab	21,332
21,332	Closing Storage Volume Available	23,248
3,159	Storage Change (m3)	1,915
26.000	June	36.000
36,000 2,130	Storage Surface Area m2	36,000 2,130
2,130	Wastewater Inflow (m3/month) Rainfall (mm)	2,130
1,051	Rainfall (m3)	5,515
3,181	Total Inflow (m3)	7,645
58.9	Evaporation (mm)	39
1,811	Evaporation (m3)	1,199
0	Seepage (m3)	0
0	Irrigation (m3)	0
1,811	Total Outflow (m3)	1,199
1,370	Inflow -Outflow (m3)	6,446
22,690	Opening Storage Volume Availab	21,319
21,319	Closing Storage Volume Available	14,873
-1,370	Storage Change (m3)	-6,446
	September	
36,000	September Storage Surface Area m2	36,000
36,000 2,130		36,000 2,130
2,130 58.8	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm)	2,130 47.7
2,130 58.8 2,117	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3)	2,130 47.7 1,717
2,130 58.8 2,117 4,247	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3)	2,130 47.7 1,717 3,847
2,130 58.8 2,117 4,247 52.7	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm)	2,130 47.7 1,717 3,847 72
2,130 58.8 2,117 4,247 52.7 1,620	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3)	2,130 47.7 1,717 3,847 72 2,214
2,130 58.8 2,117 4,247 52.7 1,620 0	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Evaporation (m3) Seepage (m3)	2,130 47.7 1,717 3,847 72 2,214 0
2,130 58.8 2,117 4,247 52.7 1,620 0 0	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0
2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214
2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634
2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 10,288	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 7,662
2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 10,288 7,662	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 7,662 6,028
2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 10,288	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 7,662
2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 10,288 7,662 -2,627	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 7,662 6,028 -1,634
2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 10,288 7,662 -2,627 36,000	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 7,662 6,028 -1,634 36,000
2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 10,288 7,662 -2,627 36,000 2,130	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 7,662 6,028 -1,634 36,000 2,130
2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 10,288 7,662 -2,627 36,000 2,130 29.6	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 7,662 6,028 -1,634 36,000 2,130 59.9
2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 10,288 7,662 -2,627 36,000 2,130	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availabk Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 7,662 6,028 -1,634 36,000 2,130 59.9 2,156
2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 10,288 7,662 -2,627 36,000 2,130 29.6 1,066	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availabk Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 7,662 6,028 -1,634 36,000 2,130 59.9 2,156 4,286
2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 10,288 7,662 -2,627 36,000 2,130 29.6 1,066 3,196	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availabk Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 7,662 6,028 -1,634 36,000 2,130 59.9 2,156
2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 10,288 7,662 -2,627 36,000 2,130 29.6 1,066 3,196 1,066 3,196	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availabk Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 7,662 6,028 -1,634 36,000 2,130 59.9 2,156 4,286 207.7
2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 10,288 7,662 -2,627 36,000 2,130 29.6 1,066 3,196 1,066 3,196 147 4,519	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 7,662 6,028 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386
2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 10,288 7,662 -2,627 36,000 2,130 29.6 1,066 3,196 1,066 3,196 147 4,519 0	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 7,662 6,028 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386 0
2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 10,288 7,662 -2,627 36,000 2,130 2,130 2,9.6 1,066 3,196 1,066 3,196 1,47 4,519 0 0	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Evaporation (m3) Seepage (m3) Irrigation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 7,662 6,028 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386 0 0 6,386
2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 10,288 7,662 -2,627 36,000 2,130 29.6 1,066 3,196 147 4,519 0 0 4,519	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 7,662 6,028 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386 0 0
2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 10,288 7,662 -2,627 36,000 2,130 29.6 1,066 3,196 147 4,519 0 0 4,519 -1,324	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Inflow -Outflow (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 7,662 6,028 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386 0 0 6,386 0 0 6,386 -2,099
2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 10,288 7,662 -2,627 36,000 2,130 29.6 1,066 3,196 147 4,519 0 0 4,519 -1,324 9,351	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Inflow -Outflow (m3) Inflow -Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 7,662 6,028 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386 0 0 6,386 0 0 6,386 -2,099 10,675

Year 16 January		February		March
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surfa
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater I
Rainfall (mm)	19.1	Rainfall (mm)	10.9	Rainfall (mm)
Rainfall (m3)	688	Rainfall (m3)	392	Rainfall (m3)
Total Inflow (m3)	2,818	Total Inflow (m3)	2,522	Total Inflow (
Evaporation (mm)	229.4	Evaporation (mm)	184.8	Evaporation (
Evaporation (m3)	7,053	Evaporation (m3)	5,681	Evaporation (
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3
Total Outflow (m3)	7,053	Total Outflow (m3)	5,681	Total Outflow
Inflow -Outflow (m3)	-4,235	Inflow -Outflow (m3)	-3,159	Inflow -Outflo
Opening Storage Volume Availab	12,774	Opening Storage Volume Availab	17,009	Opening Stor
Closing Storage Volume Available	17,009	Closing Storage Volume Available	20,168	Closing Storag
Storage Change (m3)	4,235	Storage Change (m3)	3,159	Storage Chan
April		May		June
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surfa
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater In
Rainfall (mm)	33.2	Rainfall (mm)	29.2	Rainfall (mm)
Rainfall (m3)	1,195	Rainfall (m3)	1,051	Rainfall (m3)
Total Inflow (m3)	3,325	Total Inflow (m3)	3,181	Total Inflow (
Evaporation (mm)	90	Evaporation (mm)	58.9	Evaporation (
Evaporation (m3)	2,767	Evaporation (m3)	1,811	Evaporation (
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3
Total Outflow (m3)	2,767	Total Outflow (m3)	1,811	Total Outflow
Inflow -Outflow (m3)	558	Inflow -Outflow (m3)	1,370	Inflow -Outflo
Opening Storage Volume Availab	22,084	Opening Storage Volume Availab	21,525	Opening Stora
Closing Storage Volume Available	21,525	Closing Storage Volume Available	20,155	Closing Storag
Storage Change (m3)	-558	Storage Change (m3)	-1,370	Storage Chang
Vlut		August	35.000	September
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surfa
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater I
Rainfall (mm)	102.6	Rainfall (mm)	58.8	Rainfall (mm)
Rainfall (m3)	3,694	Rainfall (m3)	2,117	Rainfall (m3)
Total Inflow (m3)	5,824	Total Inflow (m3)	4,247	Total Inflow (
	40.2		6 7 7	
	40.3	Evaporation (mm)	52.7	
Evaporation (m3)	1,239	Evaporation (m3)	1,620	Evaporation (
Evaporation (m3) Seepage (m3)	1,239	Evaporation (m3) Seepage (m3)	1,620 0	Evaporation (Seepage (m3)
Evaporation (m3) Seepage (m3) Irrigation (m3)	1,239 0 0	Evaporation (m3) Seepage (m3) Irrigation (m3)	1,620 0 0	Evaporation (Seepage (m3) Irrigation (m3
Seepage (m3) Irrigation (m3) Total Outflow (m3)	1,239 0 0 1,239	Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	1,620 0 0 1,620	Evaporation (Seepage (m3) Irrigation (m3 Total Outflow
Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	1,239 0 1,239 4,585	Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	1,620 0 1,620 2,627	Evaporation (Seepage (m3) Irrigation (m3 Total Outflow Inflow -Outflo
Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab	1,239 0 1,239 4,585 13,709	Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab	1,620 0 1,620 2,627 9,124	Evaporation (Seepage (m3) Irrigation (m3 Total Outflow Inflow -Outflo Opening Store
Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab Closing Storage Volume Available	1,239 0 1,239 4,585 13,709 9,124	Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available	1,620 0 1,620 2,627 9,124 6,498	Evaporation (Seepage (m3) Irrigation (m3 Total Outflow Inflow -Outflo Opening Stora Closing Stora
Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab Closing Storage Volume Available Storage Change (m3)	1,239 0 1,239 4,585 13,709	Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3)	1,620 0 1,620 2,627 9,124	Evaporation (Seepage (m3) Irrigation (m3 Total Outflow Inflow -Outflo Opening Stora Closing Storage Storage Chan
Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availabl Closing Storage Volume Availabl Storage Change (m3) October	1,239 0 1,239 4,585 13,709 9,124 -4,585	Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) November	1,620 0 1,620 2,627 9,124 6,498 -2,627	Evaporation (Seepage (m3) Irrigation (m3 Total Outflow Inflow -Outflo Opening Stora Closing Stora Storage Chan December
Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab Closing Storage Volume Available Storage Change (m3) October Storage Surface Area m2	1,239 0 1,239 4,585 13,709 9,124 -4,585	Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) November Storage Surface Area m2	1,620 0 1,620 2,627 9,124 6,498 -2,627 36,000	Storage Surfa
Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab Closing Storage Volume Availabl Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month)	1,239 0 1,239 4,585 13,709 9,124 -4,585 36,000 2,130	Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month)	1,620 0 1,620 2,627 9,124 6,498 -2,627 36,000 2,130	Evaporation (Seepage (m3) Irrigation (m3 Total Outflow Inflow -Outflo Opening Storag Storage Chang Storage Chang Storage Surfa Wastewater II
Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availabl Closing Storage Volume Availabl Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm)	1,239 0 1,239 4,585 13,709 9,124 -4,585 36,000 2,130 25,9	Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm)	1,620 0 1,620 2,627 9,124 6,498 -2,627 36,000 2,130 29.6	Evaporation (Seepage (m3) Irrigation (m3 Total Outflow Inflow -Outflo Opening Storag Storage Chang Storage Chang Storage Surfa Wastewater II Rainfall (mm)
Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availabl Closing Storage Volume Availabl Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm)	1,239 0 1,239 4,585 13,709 9,124 -4,585 36,000 2,130 25.9 932	Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3)	1,620 0 1,620 2,627 9,124 6,498 -2,627 36,000 2,130 29.6 1,066	Evaporation (Seepage (m3) Irrigation (m3 Total Outflow Inflow -Outflo Opening Storag Storage Chang Storage Chang Storage Surfa Wastewater II Rainfall (mm) Rainfall (m3)
Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3)	1,239 0 1,239 4,585 13,709 9,124 -4,585 36,000 2,130 25,9 932 3,062	Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3)	1,620 0 1,620 2,627 9,124 6,498 -2,627 36,000 2,130 29.6 1,066 3,196	Evaporation (Seepage (m3) Irrigation (m3 Total Outflow Inflow -Outflo Opening Storag Storage Chan December Storage Surfa Wastewater I Rainfall (mm) Rainfall (m3) Total Inflow (i
Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm)	1,239 0 1,239 4,585 13,709 9,124 -4,585 36,000 2,130 25.9 932 3,062 207.7	Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm)	1,620 0 1,620 2,627 9,124 6,498 -2,627 36,000 2,130 29.6 1,066	Evaporation (Seepage (m3) Irrigation (m3 Total Outflow Inflow -Outflo Opening Storag Storage Chan Storage Chan December Storage Surfa Wastewater II Rainfall (mm) Rainfall (m3) Total Inflow (s
Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3)	1,239 0 1,239 4,585 13,709 9,124 -4,585 36,000 2,130 25,9 932 3,062	Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3)	1,620 0 1,620 2,627 9,124 6,498 -2,627 36,000 2,130 29,6 1,066 3,196 147	Evaporation (Seepage (m3) Irrigation (m3 Total Outflow Inflow -Outflo Opening Storag Storage Chang Storage Chang Storage Surfa Wastewater II Rainfall (mm) Rainfall (m3) Total Inflow (s Evaporation (Evaporation (
Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)	1,239 0 1,239 4,585 13,709 9,124 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386	Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)	1,620 0 1,620 2,627 9,124 6,498 -2,627 36,000 2,130 29,6 1,066 3,196 147 4,519	Evaporation (Seepage (m3) Irrigation (m3 Total Outflow Inflow -Outflo Opening Storag Storage Chang Storage Chang Storage Surfa Wastewater II Rainfall (mm) Rainfall (m3) Total Inflow (s Evaporation (Seepage (m3)
Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Seepage (m3) Irrigation (m3)	1,239 0 1,239 4,585 13,709 9,124 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386 0 0	Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3)	1,620 0 1,620 2,627 9,124 6,498 -2,627 36,000 2,130 29,6 1,066 3,196 147 4,519 0	Evaporation (Seepage (m3) Irrigation (m3 Total Outflow Inflow -Outflo Opening Storag Storage Chang Storage Chang Storage Surfa Wastewater II Rainfall (m3) Total Inflow (n Evaporation (m Seepage (m3) Irrigation (m3
Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	1,239 0 1,239 4,585 13,709 9,124 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386 0 0 6,386	Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	1,620 0 1,620 2,627 9,124 6,498 -2,627 36,000 2,130 29,6 1,066 3,196 147 4,519 0 0 4,519	Evaporation (Seepage (m3) Irrigation (m3 Total Outflow Inflow -Outflo Opening Storag Storage Chang Storage Chang Storage Surfa Wastewater II Rainfall (m3) Total Inflow (n Evaporation (m Seepage (m3) Irrigation (m3 Total Outflow
Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	1,239 0 1,239 4,585 13,709 9,124 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386 0 0 6,386 -3,323	Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	1,620 0 1,620 2,627 9,124 6,498 -2,627 36,000 2,130 29,6 1,066 3,196 147 4,519 0 0 4,519 -1,324	Evaporation (Seepage (m3) Irrigation (m3 Total Outflow Inflow -Outflo Opening Storag Storage Chang Storage Chang Storage Surfa Wastewater II Rainfall (m3) Total Inflow (n Evaporation (m Seepage (m3) Irrigation (m3 Total Outflow Inflow -Outflow
Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3)	1,239 0 1,239 4,585 13,709 9,124 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386 0 0 6,386	Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	1,620 0 1,620 2,627 9,124 6,498 -2,627 36,000 2,130 29,6 1,066 3,196 147 4,519 0 0 4,519	Evaporation (Seepage (m3) Irrigation (m3 Total Outflow Inflow -Outflo Opening Storag Storage Chang Storage Chang Storage Surfa Wastewater II Rainfall (m3) Total Inflow (n Evaporation (m Seepage (m3) Irrigation (m3

n'	March	
18 C	March Storage Surface Area m2	36,000
)	Wastewater Inflow (m3/month)	2,130
	Rainfall (mm)	2,130
	Rainfall (m3)	720
	Total Inflow (m3)	2,850
	Evaporation (mm)	155
Ľ	Evaporation (m3)	4,765
L	Seepage (m3)	0
Ľ	Irrigation (m3)	0
	Total Outflow (m3)	4,765
L	Inflow -Outflow (m3)	-1,915
L	Opening Storage Volume Availab	20,168
L	Closing Storage Volume Available	22,084
	Storage Change (m3)	1,915
1	June	
1	Storage Surface Area m2	36,000
	Wastewater Inflow (m3/month)	2,130
L	Rainfall (mm)	153.2
	Rainfall (m3)	5,515
	Total Inflow (m3)	7,645
	Evaporation (mm)	39
	Evaporation (m3)	1,199
	Seepage (m3)	0
L	Irrigation (m3)	0
	Total Outflow (m3)	1,199
	Inflow -Outflow (m3)	6,446
	Opening Storage Volume Availab	20,155
	Closing Storage Volume Available	13,709
	Storage Change (m3)	-6,446
1	September	0,440
1	Storage Surface Area m2	36,000
	Wastewater Inflow (m3/month)	2,130
L	Rainfall (mm)	
1	Padding to dealers a statistic of the second s	47.7
		47.7
	Rainfall (m3)	1,717
	Rainfall (m3) Total Inflow (m3)	1,717 3,847
	Rainfall (m3) Total Inflow (m3) Evaporation (mm)	1,717 3,847 72
	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3)	1,717 3,847 72 2,214
	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)	1,717 3,847 72 2,214 0
	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3)	1,717 3,847 72 2,214 0 0
	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	1,717 3,847 72 2,214 0 0 2,214
	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	1,717 3,847 72 2,214 0 0 2,214 1,634
	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab	1,717 3,847 72 2,214 0 0 2,214 1,634 6,498
	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available	1,717 3,847 72 2,214 0 0 2,214 1,634 6,498 4,854
	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3)	1,717 3,847 72 2,214 0 0 2,214 1,634 6,498 4,854
	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available	1,717 3,847 72 2,214 0 0 2,214 1,634 6,498 4,854
	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2	1,717 3,847 72 2,214 0 0 2,214 1,634 6,498 4,854 -1,634
	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month)	1,717 3,847 72 2,214 0 0 2,214 1,634 6,498 4,854 -1,634 36,000 2,130
	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm)	1,717 3,847 72 2,214 0 0 2,214 1,634 6,498 4,854 -1,634 36,000 2,130 59.9
	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3)	1,717 3,847 72 2,214 0 0 2,214 1,634 6,498 4,854 -1,634 36,000 2,130 59.9 2,156
	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3)	1,717 3,847 72 2,214 0 0 2,214 1,634 6,498 4,854 -1,634 36,000 2,130 59.9 2,156 4,286
	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm)	1,717 3,847 72 2,214 0 0 2,214 1,634 6,498 4,854 -1,634 36,000 2,130 59.9 2,156 4,286 207.7
	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3)	1,717 3,847 72 2,214 0 0 2,214 1,634 6,498 4,854 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386
	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)	1,717 3,847 72 2,214 0 0 2,214 1,634 6,498 4,854 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386 0
	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3)	1,717 3,847 72 2,214 0 0 2,214 1,634 6,498 4,854 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386 0 0
	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	1,717 3,847 72 2,214 0 0 2,214 1,634 6,498 4,854 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386 0 0 0 6,386
	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	1,717 3,847 72 2,214 0 0 2,214 1,634 6,498 4,854 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386 0 0 6,386 0 0
	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab	1,717 3,847 72 2,214 0 0 2,214 1,634 6,498 4,854 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386 0 0 6,386 -2,099 9,511
	Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	1,717 3,847 72 2,214 0 0 2,214 1,634 6,498 4,854 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386 0 0 6,386 0 0

1.44	-	-	
1.1	car	1	1
		_	-

Year 17	_		
January		February	
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130
Rainfall (mm)	19.1	Rainfall (mm)	10.9
Rainfall (m3)	688	Rainfall (m3)	392
Total Inflow (m3)	2,818	Total Inflow (m3)	2,522
Evaporation (mm)	229.4	Evaporation (mm)	184.8
Evaporation (m3)	7,053	Evaporation (m3)	5,681
Seepage (m3)	0	Seepage (m3)	0
Irrigation (m3)	0	Irrigation (m3)	0
Total Outflow (m3)	7,053	Total Outflow (m3)	5,681
Inflow -Outflow (m3)	-4,235	Inflow -Outflow (m3)	-3,159
Opening Storage Volume Availab	11,610	Opening Storage Volume Availab	15,845
Closing Storage Volume Available	15,845	Closing Storage Volume Available	19,004
Storage Change (m3)	4,235	Storage Change (m3)	3,159
April	1,2.2.2	May	-,
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130
Rainfall (mm)	33.2	Rainfall (mm)	29.2
		Rainfall (m3)	
Rainfall (m3)	1,195		1,051
Total Inflow (m3)	3,325	Total Inflow (m3)	3,181
Evaporation (mm)	90	Evaporation (mm)	58.9
Evaporation (m3)	2,767	Evaporation (m3)	1,811
Seepage (m3)	0	Seepage (m3)	0
Irrigation (m3)	0	Irrigation (m3)	0
Total Outflow (m3)	2,767	Total Outflow (m3)	1,811
Inflow -Outflow (m3)	558	Inflow -Outflow (m3)	1,370
Opening Storage Volume Availab	20,920	Opening Storage Volume Availab	20,361
Closing Storage Volume Available	20,361	Closing Storage Volume Available	18,991
Storage Change (m3)	-558	Storage Change (m3)	-1,370
July		August	
July Storage Surface Area m2	36,000		36,000
	36,000 2,130	August	36,000 2,130
Storage Surface Area m2		August Storage Surface Area m2	
Storage Surface Area m2 Wastewater Inflow (m3/month)	2,130	August Storage Surface Area m2 Wastewater Inflow (m3/month)	2,130
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm)	2,130 102.6	August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm)	2,130 58.8
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3)	2,130 102.6 3,694	August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3)	2,130 58.8 2,117
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm)	2,130 102.6 3,694 5,824	August Storage Surface Area m2 Wastewater inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm)	2,130 58.8 2,117 4,247
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3)	2,130 102.6 3,694 5,824 40.3	August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3)	2,130 58.8 2,117 4,247 52.7
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)	2,130 102.6 3,694 5,824 40.3 1,239	August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)	2,130 58.8 2,117 4,247 52.7 1,620
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Evaporation (m3) Seepage (m3) Irrigation (m3)	2,130 102.6 3,694 5,824 40.3 1,239 0 0	August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3)	2,130 58.8 2,117 4,247 52.7 1,620 0 0
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239	August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	2,130 58.8 2,117 4,247 52.7 1,620 0 1,620
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585	August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 12,545	August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab	2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 7,960
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 12,545 7,960	August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available	2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 7,960 5,334
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3)	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 12,545	August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3)	2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 7,960
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 12,545 7,960 -4,585	August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November	2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 7,960 5,334 -2,627
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 12,545 7,960 -4,585 36,000	August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2	2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 7,960 5,334 -2,627 36,000
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month)	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 12,545 7,960 -4,585 36,000 2,130	August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month)	2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 7,960 5,334 -2,627 36,000 2,130
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm)	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 12,545 7,960 -4,585 36,000 2,130 25.9	August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm)	2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 7,960 5,334 -2,627 36,000 2,130 29.6
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3)	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 12,545 7,960 -4,585 36,000 2,130 25.9 932	August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3)	2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 7,960 5,334 -2,627 36,000 2,130 2,130 2,9,6 1,066
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3)	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 12,545 7,960 -4,585 36,000 2,130 25.9 932 3,062	August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3)	2,130 58.8 2,117 4,247 5,2.7 1,620 0 0 1,620 2,627 7,960 5,334 -2,627 36,000 2,130 2,130 2,9,6 1,066 3,196
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm)	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 12,545 7,960 -4,585 36,000 2,130 25.9 932 3,062 207.7	August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm)	2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 7,960 5,334 -2,627 36,000 2,130 2,9.6 1,066 3,196 1,47
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3)	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 12,545 7,960 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386	August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3)	2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 7,960 5,334 -2,627 36,000 2,130 2,9,6 1,066 3,196 1,066 3,196
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 12,545 7,960 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386 0	August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Evaporation (m3) Seepage (m3)	2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 7,960 5,334 -2,627 36,000 2,130 2,9.6 1,066 3,196 147 4,519 0
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3)	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 12,545 7,960 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386 0 0	August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Evaporation (m3) Seepage (m3) Irrigation (m3) Seepage (m3) Irrigation (m3) Seepage (m3) Irrigation (m3) Seepage (m3) Irrigation (m3)	2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 7,960 5,334 -2,627 36,000 2,130 2,9,6 1,066 3,196 147 4,519 0 0
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 12,545 7,960 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386 0	August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Evaporation (m3) Seepage (m3) Irrigation (m3) Seepage (m3) Irrigation (m3) Seepage (m3) Irrigation (m3) Seepage (m3) Irrigation (m3) Yotal Outflow (m3)	2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 7,960 5,334 -2,627 36,000 2,130 2,9.6 1,066 3,196 147 4,519 0
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3)	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 12,545 7,960 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386 0 0	August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Evaporation (m3) Seepage (m3) Irrigation (m3) Seepage (m3) Irrigation (m3) Seepage (m3) Irrigation (m3) Seepage (m3) Irrigation (m3)	2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 7,960 5,334 -2,627 36,000 2,130 2,9,6 1,066 3,196 147 4,519 0 0
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Opening Storage Volume Available Storage Change (m3) Ottober Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 12,545 7,960 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386 0 0 0 6,386	August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Evaporation (m3) Seepage (m3) Irrigation (m3) Seepage (m3) Irrigation (m3) Seepage (m3) Irrigation (m3) Seepage (m3) Irrigation (m3) Yotal Outflow (m3)	2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 7,960 5,334 -2,627 36,000 2,130 2,9,6 1,066 3,196 147 4,519 0 0 0
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Inflow -Outflow (m3)	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 12,545 7,960 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386 0 0 6,386 -3,323	August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Evaporation (m3) Seepage (m3) Irrigation (m3) Seepage (m3) Irrigation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow -Outflow (m3) Inflow -Outflow -Outflo	2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 7,960 5,334 -2,627 36,000 2,130 2,9,6 1,066 3,196 147 4,519 0 0 4,519 -1,324
Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Opening Storage Volume Available Storage Change (m3) October Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab	2,130 102.6 3,694 5,824 40.3 1,239 0 0 1,239 4,585 12,545 7,960 -4,585 36,000 2,130 25.9 932 3,062 207.7 6,386 0 0 6,386 -3,323 3,700	August Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) November Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Evaporation (m3) Seepage (m3) Irrigation (m3) Sourflow (m3) Inflow -Outflow -Outf	2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 7,960 5,334 -2,627 36,000 2,130 29.6 1,066 3,196 1,076 3,196 1,076 1,066 3,196 1,077 1,07

000	March	
	Storage Surface Area m2	36,000
30	Wastewater Inflow (m3/month)	2,130
0.9	Rainfall (mm)	20
92	Rainfall (m3)	720
22	Total Inflow (m3)	2,850
4.8	Evaporation (mm)	155
81	Evaporation (m3)	4,765
0	Seepage (m3)	0
0	Irrigation (m3)	0
81	Total Outflow (m3)	4,765
59	Inflow -Outflow (m3)	-1,915
45	Opening Storage Volume Availab	19,004
04	Closing Storage Volume Available	20,920
59	Storage Change (m3)	1,915
	June	
000	Storage Surface Area m2	36,000
30	Wastewater Inflow (m3/month)	2,130
9.2	Rainfall (mm)	153.2
151	Rainfall (m3)	5,515
81	Total Inflow (m3)	7,645
8.9	Evaporation (mm)	39
11	Evaporation (m3)	1,199
0	Seepage (m3)	0
0	Irrigation (m3)	0
11	Total Outflow (m3)	1,199
70	Inflow -Outflow (m3)	6,446
61	Opening Storage Volume Availab	18,991
91	Closing Storage Volume Available	12,545
70	Storage Change (m3)	-6,446
	September	
00	Storage Surface Area m2	36,000
30	Wastewater Inflow (m3/month)	2,130
8.8	Rainfall (mm)	47.7
17	Rainfall (m3)	1,717
47	Total Inflow (m3)	3,847
2.7	Evaporation (mm)	72
20	Evaporation (m3)	
		2,214
0	Seepage (m3)	2,214
0	Seepage (m3) Irrigation (m3)	
0	Irrigation (m3)	0
0	Irrigation (m3) Total Outflow (m3)	0 0 2,214
0	Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	0 2,214 1,634
0 20 27 60	Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab	0 2,214 1,634 5,334
0 20 27 60 34	Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available	0 2,214 1,634 5,334 3,700
0 20 27 60	Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab Closing Storage Volume Availabk Storage Change (m3)	0 2,214 1,634 5,334 3,700
0 20 27 60 34 27	Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) December	0 2,214 1,634 5,334 3,700 -1,634
0 20 27 60 34 27	Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) December Storage Surface Area m2	0 0 2,214 1,634 5,334 3,700 -1,634 36,000
0 20 27 60 34 27 000 30	Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) December	0 2,214 1,634 5,334 3,700 -1,634
0 20 27 60 34 27 27 30 30 9.6	Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm)	0 2,214 1,634 5,334 3,700 -1,634 36,000 2,130 59,9
0 20 27 60 34 27 000 30 9.6 066	Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3)	0 2,214 1,634 5,334 3,700 -1,634 36,000 2,130 59,9 2,156
0 220 227 960 134 227 9000 130 9.6 966 966	Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3)	0 2,214 1,634 5,334 3,700 -1,634 36,000 2,130 59,9 2,156 4,286
0 20 27 960 334 527 900 300 9.6 966 996 447	Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm)	0 2,214 1,634 5,334 3,700 -1,634 36,000 2,130 59,9 2,156 4,286 207,7
0 520 527 960 334 527 000 330 99.6 99.6 99.6 99.6 99.6 99.6	Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3)	0 2,214 1,634 5,334 3,700 -1,634 36,000 2,130 59,9 2,156 4,286 207.7 6,386
0 27 660 34 27 000 30 9.6 666 966 966 966 96 96 96 96 9	Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)	0 2,214 1,634 5,334 3,700 -1,634 36,000 2,130 59,9 2,156 4,286 207.7 6,386 0
0 20 27 660 334 227 000 300 9.6 966 966 966 966 96 96 96 96 9	Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Closing Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Seepage (m3) Irrigation (m3)	0 2,214 1,634 5,334 3,700 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386 0 0
0 20 227 660 334 227 0000 330 9.6 966 966 966 966 96 96 96 96 9	Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	0 2,214 1,634 5,334 3,700 -1,634 36,000 2,130 59,9 2,156 4,286 207.7 6,386 0 0 6,386
0 220 227 260 334 227 200 330 9.6 966 966 966 966 96 96 96 96 9	Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	0 2,214 1,634 5,334 3,700 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386 0 0 6,386 -2,099
0 220 227 260 334 227 200 330 300 300 300 300 300 300	Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (m3) Total Inflow (m3) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab	0 2,214 1,634 5,334 3,700 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386 0 0 6,386 -2,099 8,347
0 220 227 260 334 227 200 330 9.6 966 966 966 966 96 96 96 96 9	Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	0 2,214 1,634 5,334 3,700 -1,634 36,000 2,130 59.9 2,156 4,286 207.7 6,386 0 0 6,386 -2,099

Year 18 January		February		March
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)
Rainfall (mm)	19.1	Rainfall (mm)	10.9	Rainfall (mm)
Rainfall (m3)	688	Rainfall (m3)	392	Rainfall (m3)
Total Inflow (m3)	2,818	Total Inflow (m3)	2,522	Total Inflow (m3)
Evaporation (mm)	229.4	Evaporation (mm)	184.8	Evaporation (mm)
Evaporation (m3)	7,053	Evaporation (m3)	5,681	Evaporation (m3)
Seepage (m3)	7,055	Seepage (m3)	5,001	Seepage (m3)
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)
Total Outflow (m3)	7,053	Total Outflow (m3)	5,681	Total Outflow (m3)
Inflow -Outflow (m3)	-4,235	Inflow -Outflow (m3)	-3,159	Inflow Outflow (m3)
Opening Storage Volume Availab	10,446	Opening Storage Volume Availab	14,681	Opening Storage Volume Availab
Closing Storage Volume Available	14,681	Closing Storage Volume Available	17,840	Closing Storage Volume Available
Storage Change (m3)	4,235	Storage Change (m3)	3,159	Storage Change (m3)
April	35.000	May	25.000	June
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)
Rainfall (mm)	33.2	Rainfall (mm)	29.2	Rainfall (mm)
Rainfall (m3)	1,195	Rainfall (m3)	1,051	Rainfall (m3)
Total Inflow (m3)	3,325	Total Inflow (m3)	3,181	Total Inflow (m3)
Evaporation (mm)	90	Evaporation (mm)	58.9	Evaporation (mm)
Evaporation (m3)	2,767	Evaporation (m3)	1,811	Evaporation (m3)
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)
Total Outflow (m3)	2,767	Total Outflow (m3)	1,811	Total Outflow (m3)
Inflow -Outflow (m3)	558	Inflow -Outflow (m3)	1,370	Inflow -Outflow (m3)
Opening Storage Volume Availab	19,755	Opening Storage Volume Availab	19,197	Opening Storage Volume Availab
Closing Storage Volume Available	19,197	Closing Storage Volume Available	17,827	Closing Storage Volume Available
Storage Change (m3)	-558	Storage Change (m3)	-1,370	Storage Change (m3)
ylut		August		September
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)
Rainfall (mm)	102.6	Rainfall (mm)	58.8	Rainfall (mm)
Rainfall (m3)	3,694	Rainfall (m3)	2,117	Rainfall (m3)
Total Inflow (m3)	5,824	Total Inflow (m3)	4,247	Total Inflow (m3)
Evaporation (mm)	40.3	Evaporation (mm)	52.7	Evaporation (mm)
Evaporation (m3)	1,239	Evaporation (m3)	1,620	Evaporation (m3)
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)
Total Outflow (m3)	1,239	Total Outflow (m3)	1,620	Total Outflow (m3)
Inflow -Outflow (m3)	4,585	Inflow -Outflow (m3)	2,627	Inflow -Outflow (m3)
Opening Storage Volume Availab	11,381	Opening Storage Volume Availab	6,796	Opening Storage Volume Availab
Closing Storage Volume Available	6,796	Closing Storage Volume Available	4,169	Closing Storage Volume Available
Storage Change (m3)	-4,585	Storage Change (m3)	-2,627	Storage Change (m3)
October		November		December
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)
Rainfall (mm)	25.9	Rainfall (mm)	29.6	Rainfall (mm)
Rainfall (m3)	932	Rainfall (m3)	1,066	Rainfall (m3)
Total Inflow (m3)	3,062	Total Inflow (m3)	3,196	Total Inflow (m3)
Evaporation (mm)	207.7	Evaporation (mm)	147	Evaporation (mm)
Evaporation (m3)	6,386	Evaporation (m3)	4,519	Evaporation (m3)
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)
	6,386		4,519	Total Outflow (m3)
Total Outflow (m3)	and the second se	Total Outflow (m3)		
Inflow -Outflow (m3)	-3,323	Inflow -Outflow (m3)	-1,324	Inflow -Outflow (m3)
Opening Storage Volume Availab	2,536	Opening Storage Volume Availab	5,859	Opening Storage Volume Availab
Closing Storage Volume Available Storage Change (m3)	5,859	Closing Storage Volume Available Storage Change (m3)	7,183	Closing Storage Volume Available Storage Change (m3)

36,000

2,130 20 720 2,850 155 4,765 0 0 4,765 -1,915 17,840

19,755 1,915 36,000

2,130 153.2 5,515 7,645 39 1,199 0 0 1,199 6,446 17,827

11,381 -6,446 36,000

2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634

4,169

2,536 -1,634 36,000

> 2,130 59.9 2,156 4,286 207.7 6,386 0 6,386 -2,099 7,183

9,282

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Year 19	_	
January		February
Storage Surface Area m2	36,000	Storage Surface Area m2
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)
Rainfall (mm)	19.1	Rainfall (mm)
Rainfall (m3)	688	Rainfall (m3)
Total Inflow (m3)	2,818	Total Inflow (m3)
Evaporation (mm)	229,4	Evaporation (mm)
Evaporation (m3)	7,053	Evaporation (m3)
Seepage (m3)	0	Seepage (m3)
Irrigation (m3)	0	Irrigation (m3)
Total Outflow (m3)	7,053	Total Outflow (m3)
Inflow -Outflow (m3)	-4,235	Inflow -Outflow (m3)
Opening Storage Volume Availab	9,282	Opening Storage Volume Availab
Closing Storage Volume Available	13,517	Closing Storage Volume Available
Storage Change (m3)	4,235	Storage Change (m3)
April		May
Storage Surface Area m2	36,000	Storage Surface Area m2
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)
Rainfall (mm)	33.2	Rainfall (mm)
Rainfall (m3)	1,195	Rainfall (m3)
Total Inflow (m3)	3.325	Total Inflow (m3)
Evaporation (mm)	90	Evaporation (mm)
Evaporation (m3)	2,767	Evaporation (m3)
Seepage (m3)	0	Seepage (m3)
	0	Irrigation (m3)
Irrigation (m3)	2,767	
Total Outflow (m3)		Total Outflow (m3)
Inflow -Outflow (m3)	558	Inflow -Outflow (m3)
Opening Storage Volume Availab	18,591	Opening Storage Volume Availab
Closing Storage Volume Available	18,033	Closing Storage Volume Available
Storage Change (m3)	-558	Storage Change (m3)
ylut	36.000	August
Storage Surface Area m2	36,000	Storage Surface Area m2
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)
Rainfall (mm)	102.6	Rainfall (mm)
Rainfall (m3)	3,694	Rainfall (m3)
Total Inflow (m3)	5,824	Total Inflow (m3)
Evaporation (mm)	40.3	Evaporation (mm)
Evaporation (m3)	1,239	Evaporation (m3)
Seepage (m3)	0	Seepage (m3)
Irrigation (m3)	0	Irrigation (m3)
Total Outflow (m3)	1,239	Total Outflow (m3)
Inflow -Outflow (m3)	4,585	Inflow Outflow (m3)
Opening Storage Volume Availab	10,216	Opening Storage Volume Availab
Closing Storage Volume Available	5,632	Closing Storage Volume Available
Storage Change (m3)	-4,585	Storage Change (m3)
October		November
Storage Surface Area m2	36,000	Storage Surface Area m2
Wastewater Inflow (m3/month)	3 1 50	Wastewater Inflow (m3/month)
	2,130	the second se
Rainfall (mm)	25.9	Rainfall (mm)
Rainfall (mm) Rainfall (m3)		
	25.9	Rainfall (mm)
Rainfall (m3) Total Inflow (m3)	25.9 932	Rainfall (mm) Rainfall (m3)
Rainfall (m3) Total Inflow (m3) Evaporation (mm)	25.9 932 3,062	Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm)
Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3)	25.9 932 3,062 207.7 6,386	Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3)
Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)	25.9 932 3,062 207.7 6,386 0	Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)
Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3)	25.9 932 3,062 207.7 6,386 0 0	Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3)
Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	25.9 932 3,062 207.7 6,386 0 0 6,386	Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)
Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	25.9 932 3,062 207.7 6,386 0 0 6,386 -3,323	Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)
Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab	25.9 932 3,062 207.7 6,386 0 0 6,386 -3,323 1,372	Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab
Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	25.9 932 3,062 207.7 6,386 0 0 6,386 -3,323	Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)

	March	
36,000	Storage Surface Area m2	36,000
2,130	Wastewater Inflow (m3/month)	2,130
10.9	Rainfall (mm)	20
392	Rainfall (m3)	720
2,522	Total Inflow (m3)	2,850
184.8	Evaporation (mm)	155
5,681	Evaporation (m3)	4,765
0	Seepage (m3)	0
0	Irrigation (m3)	0
5,681	Total Outflow (m3)	4,765
-3,159	Inflow -Outflow (m3)	-1,915
13,517	Opening Storage Volume Availab	16,676
16,676	Closing Storage Volume Available	18,591
3,159	Storage Change (m3)	1,915
	June	
36,000	Storage Surface Area m2	36,000
2,130	Wastewater Inflow (m3/month)	2,130
29.2	Rainfall (mm)	153.2
1,051	Rainfall (m3)	5,515
3,181	Total Inflow (m3)	7,645
58.9	Evaporation (mm)	39
1,811	Evaporation (m3)	1,199
0	Seepage (m3)	0
0	Irrigation (m3)	0
1,811	Total Outflow (m3)	1,199
1,370	Inflow -Outflow (m3)	6,446
18,033	Opening Storage Volume Availab	16,663
16,663	Closing Storage Volume Available	10,216
-1,370	Storage Change (m3) September	-6,446
36,000		36,000
36,000	Storage Surface Area m2	36,000
2,130	Storage Surface Area m2 Wastewater Inflow (m3/month)	2,130
2,130 58.8	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm)	2,130 47.7
2,130 58.8 2,117	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3)	2,130 47.7 1,717
2,130 58.8 2,117 4,247	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3)	2,130 47.7 1,717 3,847
2,130 58.8 2,117	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm)	2,130 47.7 1,717
2,130 58.8 2,117 4,247 52.7	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3)	2,130 47.7 1,717 3,847 72
2,130 58.8 2,117 4,247 52.7 1,620	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)	2,130 47.7 1,717 3,847 72 2,214
2,130 58.8 2,117 4,247 52.7 1,620 0	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0
2,130 58.8 2,117 4,247 52.7 1,620 0 0	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3)	2,130 47.7 1,717 3,847 72 2,214 0
2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214
2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 3,005 1,372
2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 5,632	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Availab	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 3,005
2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 5,632 3,005	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 3,005 1,372
2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 5,632 3,005	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 3,005 1,372 -1,634
2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 5,632 3,005 -2,627	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 3,005 1,372 -1,634 36,000 2,130
2,130 58.8 2,117 4,247 52.7 1,620 0 1,620 2,627 5,632 3,005 -2,627 36,000	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 3,005 1,372 -1,634
2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 5,632 3,005 -2,627 36,000 2,130 29.6 1,066	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 3,005 1,372 -1,634 36,000 2,130 59.9 2,156
2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 5,632 3,005 -2,627 36,000 2,130 29.6	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 3,005 1,372 -1,634 36,000 2,130 59.9 2,156 4,286
2,130 58.8 2,117 4,247 52.7 1,620 0 0 1,620 2,627 5,632 3,005 -2,627 36,000 2,130 29.6 1,066 3,196 1,076 3,196	Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm) Evaporation (m3) Seepage (m3) Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3) Opening Storage Volume Available Storage Change (m3) December Storage Surface Area m2 Wastewater Inflow (m3/month) Rainfall (mm) Rainfall (m3) Total Inflow (m3) Evaporation (mm)	2,130 47.7 1,717 3,847 72 2,214 0 0 2,214 1,634 3,005 1,372 -1,634 36,000 2,130 59.9 2,156 4,286 207.7
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Year 20 January		February		March	
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	
Rainfall (mm)	19.1	Rainfall (mm)	10.9	Rainfall (mm)	
Rainfall (m3)	688	Rainfall (m3)	392	Rainfall (m3)	
Total Inflow (m3)	2.818	Total Inflow (m3)	2,522	Total Inflow (m3)	
Evaporation (mm)	229.4	Evaporation (mm)	184.8	Evaporation (mm)	
Evaporation (m3)	7.053	Evaporation (m3)	5,681	Evaporation (m3)	
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)	
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)	
Total Outflow (m3)	7,053	Total Outflow (m3)	5,681	Total Outflow (m3)	
Inflow -Outflow (m3)	-4,235	Inflow Outflow (m3)	-3,159	Inflow -Outflow (m3)	
Opening Storage Volume Availab	8,118	Opening Storage Volume Availab	12,353	Opening Storage Volume Availab	
Closing Storage Volume Available	12,353	Closing Storage Volume Available	15,512	Closing Storage Volume Available	
Storage Change (m3)	4,235	Storage Change (m3)	3,159	Storage Change (m3)	
April		May		June	
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	
Rainfall (mm)	33.2	Rainfall (mm)	29.2	Rainfall (mm)	
Rainfall (m3)	1,195	Rainfall (m3)	1,051	Rainfall (m3)	
Total Inflow (m3)	3,325	Total Inflow (m3)	3,181	Total Inflow (m3)	
Evaporation (mm)	90	Evaporation (mm)	58.9	Evaporation (mm)	
Evaporation (m3)	2,767	Evaporation (m3)	1,811	Evaporation (m3)	
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)	
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)	
Total Outflow (m3)	2,767	Total Outflow (m3)	1,811	Total Outflow (m3)	
Inflow -Outflow (m3)	558	Inflow -Outflow (m3)	1,370	Inflow -Outflow (m3)	
Opening Storage Volume Availab	17,427	Opening Storage Volume Availab	16,869	Opening Storage Volume Availab	
Closing Storage Volume Available	16,869	Closing Storage Volume Available	15,499	Closing Storage Volume Available	
Storage Change (m3)	-558	Storage Change (m3)	-1,370	Storage Change (m3)	
July Storage Surface Area m2	36,000	August Storage Surface Area m2	36,000	September Storage Surface Area m2	-
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	
Rainfall (mm)	102.6	Rainfall (mm)	58.8	Rainfall (mm)	
Rainfall (m3)	3,694	Rainfall (m3)	2,117	Rainfall (m3)	
Total Inflow (m3)	5,824	Total Inflow (m3)	4,247	Total Inflow (m3)	
Evaporation (mm)	40.3	Evaporation (mm)	52.7	Evaporation (mm)	
Evaporation (m3)	1,239	Evaporation (m3)	1,620	Evaporation (m3)	
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)	
Irrigation (m3)	0	Irrigation (m3)	0	Irrigation (m3)	
Total Outflow (m3)	1,239	Total Outflow (m3)	1,620	Total Outflow (m3)	
Inflow -Outflow (m3)	4,585	Inflow -Outflow (m3)	2,627	Inflow -Outflow (m3)	
Opening Storage Volume Availab	9,052	Opening Storage Volume Availab	4,468	Opening Storage Volume Availab	
Closing Storage Volume Available	4,468	Closing Storage Volume Available	1,841	Closing Storage Volume Available	
Storage Change (m3)	-4,585	Storage Change (m3)	-2,627	Storage Change (m3)	
October		November	-	December	
Storage Surface Area m2	36,000	Storage Surface Area m2	36,000	Storage Surface Area m2	
Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	2,130	Wastewater Inflow (m3/month)	
Rainfall (mm)	25.9	Rainfall (mm)	29.6	Rainfall (mm)	
Rainfall (m3)	932	Rainfall (m3)	1,066	Rainfall (m3)	
Total Inflow (m3)	3,062	Total Inflow (m3)	3,196	Total Inflow (m3)	
Evaporation (mm)	207.7	Evaporation (mm)	147	Evaporation (mm)	
Evaporation (m3)	6,386	Evaporation (m3)	4,519	Evaporation (m3)	
Seepage (m3)	0	Seepage (m3)	0	Seepage (m3)	
			0	Irrigation (m3)	
Irrigation (m3)	0	Irrigation (m3)	0	angacon (ma)	
	6,386	Total Outflow (m3)	4,519	Total Outflow (m3)	
Irrigation (m3)					
Irrigation (m3) Total Outflow (m3)	6,386	Total Outflow (m3)	4,519	Total Outflow (m3)	
Irrigation (m3) Total Outflow (m3) Inflow -Outflow (m3)	6,386 -3,323	Total Outflow (m3) Inflow -Outflow (m3)	4,519 -1,324	Total Outflow (m3) Inflow -Outflow (m3)	

36,000

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17,427

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2,130 153.2 5,515 7,645 39 1,199 0 0 1,199 6,446 15,499

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2,130 47.7 1,717 3,847 72 2,214 0 2,214 1,634 1,841

208

36,000

2,130 59.9 2,156 4,286 207.7 6,386 0 6,386 -2,099 4,854

6,954 2,099 **Appendix 5- Contingency Plans**

Table 1 Contingency measures

Area/Section	Management Action	Trigger Point	Action	Contingency 1	Contingency 2
Waste Treatment Plant (WTP) Whole system.	Daily visual check of the entire WTP system intact with optimal function. Quality of methane gas measured daily Methane gas production metered and recorded daily	Any failure or malfunction in the plant e.g.: - blower fails - back up flare fails - leak in pipes - gas generator fails	Farm Manager to be notified immediately. Stop pumping waste into digester until further notice. Organise immediate repair of failed component (a list of suitable contractors/ service providers and their contact details is displayed in farm office). Normal routine of flushing effluent from sheds to collecting pit will for storage purpose be continued. Maintenance records of WTP are kept as part of farm QA system.	Use the capacity of collecting pit and maintain normal routine of flushing from sheds to collecting pit as long as possible (to avoid storing effluent under sheds longer than normal routine). There is enough holding capacity in the sump pit for three days effluent production and in sheds for another 30 days (effluent level levelled).	Transport effluent of farm in tankers. (Estimated 81 m ³ per day of effluent would require four semi tanker trucks for removal).

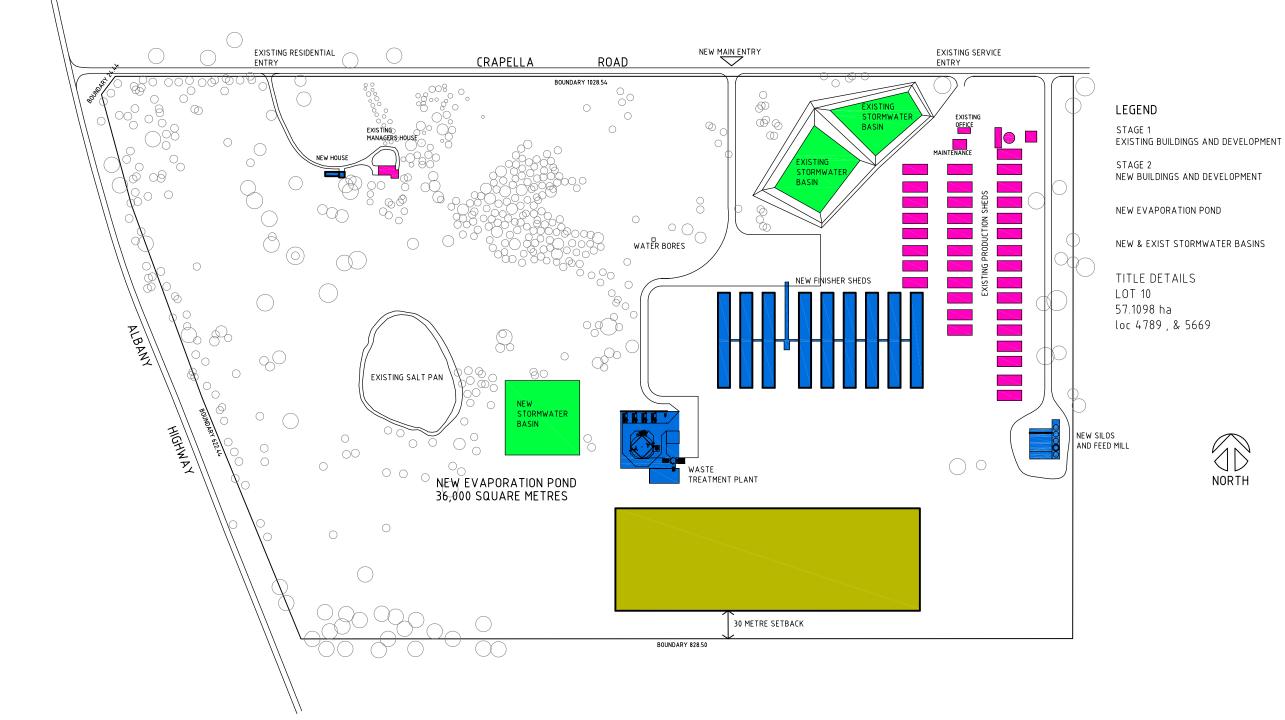
Area/Section	Management Action	Trigger Point	Action	Contingency 1	Contingency 2
Mixing of effluent and dry material from sump pit/concrete area to Waste Treatment Plant (WTP)	At regular daily basis a number of effluent pits in sheds will be "pulled" when they are 80-90 % filled. It will give a continuous inflow through PVC pipes into the covered collecting pit just outside WTP. Effluent (slurry), deep litter manure and shredded dead animals will on demand be mixed and pumped by manually operated pump be pumped in digester tank in WTP. There will be no long term storage of effluent in sheds, and WTP collecting pit will be permanently covered which means that odour is contained as much as possible even while collecting pit is mechanically stirred.	Leak/break in effluent pipe. Effluent pump break down.	Contact Farm Manager. Manually turn of effluent pump. Organise repair of effluent pipe/and or pump. Utilise spare effluent pump until pump is fixed.	The sump pit can be used to store the effluent from the shed pits for up to three days capacity or until the issue is rectified. Should the issue go beyond three days effluent can be stored in the sheds, as a last resort. There is minimum 30 days of storage capacity in pits under sheds if the content is levelled.	Transport effluent of farm i tankers. (Estimated 81 m ³ per day o effluent would require four semi tanker trucks for removal).

Area/Section	Management Action	Trigger Point	Action	Contingency 1	Contingency 2
Ventilation system of new finisher sheds (no forced ventilation in originally sheds) Sheds are ventilated by an automatic ventilation system called 'tunnel ventilation'. Fans in one end of the shed pull air from the other end of the shed. The temperature is then lowered by the addition of water resulting in evaporative cooling.	The system operates automatically based on inside and outside air temperature and will step in fans according to cooling required. As such on a cold day with still wind condition when there is most risk of odour travelling beyond property boundary there will only be one fan operating and odour from shed will be absent. Ventilation system computer to send alarm to mobile phone when trigger temperature reached.	Alarm from ventilation computer	Contact Farm Manager. Ventilation system adjustment needs to be determined by Managing Director and/or Farm Manager to ensure no impact on the welfare of livestock. Repair and change of broken components to take place	n/a	n/a

Area/Section	Management Action	Trigger Point	Action	Contingency 1	Contingency 2
Cleaning of sheds after emptying and before new animals arrive.	Cleaning will be undertaken using high pressure water cleaners with a pressure in excess of 3000 psi and a rate of 21 litres per minute. As clean water is used there is no additional odour associated with this practice. When the piggery is operating normally there is up to two sheds being pressure washed weekly. Before pressure washing all remaining effluent is flushed out of the sheds like normal flushing of pits.	Any above mentioned trigger points that are relevant to flushing out the effluent ("pulling the pits") before washing must be adhered prior to commencing pressure cleaning. There is no risk of odour from the actual pressure washing.	n/a	n/a	n/a
Damage to housing sheds resulting in compromised management.	If a shed is significantly damaged in such a way that management impacting the environment is compromised the DER will be consulted and if necessary livestock will be temporarily vacated from the shed and relocated The damage will be repaired before re-stocking.	Structural or mechanical damage resulting in impact on animals and/or surroundings.	Destocking of pigs	n/a	n/a

Area/Section	Management Action	Trigger Point	Action	Contingency 1	Contingency 2
Power Outage Ventilation and effluent oumping systems are dependent on electricity.	The site will have a diesel back-up generator with automatic change over switch. In the event of power failure back- up generator will activate automatically. The back-up diesel generator will be maintained and checked once every week including topping up diesel and oil. The generator will be fully serviced every six months. A power failure will be simulated weekly to ensure that the contingency system works.	Power failure and back-up generator failure.	Contact Farm Manager. Hire generator for use while back-up generator is repaired.	If no hire generator is available. The back-up generator from other GD Pork site can be brought in temporarily.	n/a
Education of Staff	All staff will be trained in all aspect of pig production relevant for GD Pork, Kojonup branch. They will be trained in good management practices such as housing, feeding, health check and treatment, cleaning, washing, maintenance of equipment, ventilation and contingency responses in respect to odour management.	New personnel to GD Pork, Kojonup branch. When changes occur in management procedure or contingency plans.	All new personnel to be trained in all type of management and contingency procedures. All existing staff to be advised of any changes to management and contingency plans.	n/a	n/a

Area/Section	Management Action	Trigger Point	Action	Contingency 1	Contingency 2
Complaints Register	All complaints to GD Pork, Kojonup branch received in respect to any type of management will be logged on a complaints register and investigated. Where corrective actions are possible, GD Pork will ensure these are undertaken.	Any complaint received in respect to any type of inconveniency caused to surroundings from GD Pork, Kojonup branch. Consecutive complaints (i.e. more than one valid complaint in 24 hours).	Complaint will be logged and investigated. Corrective action taken where possible. Communication will be undertaken with the complainant to identify the time and severity of the issue to ensure the problem is identified and addressed. A follow up with the complainant will be undertaken to ensure they are satisfied with the response and if not what options are available to address the concerns.	n/a	n/a



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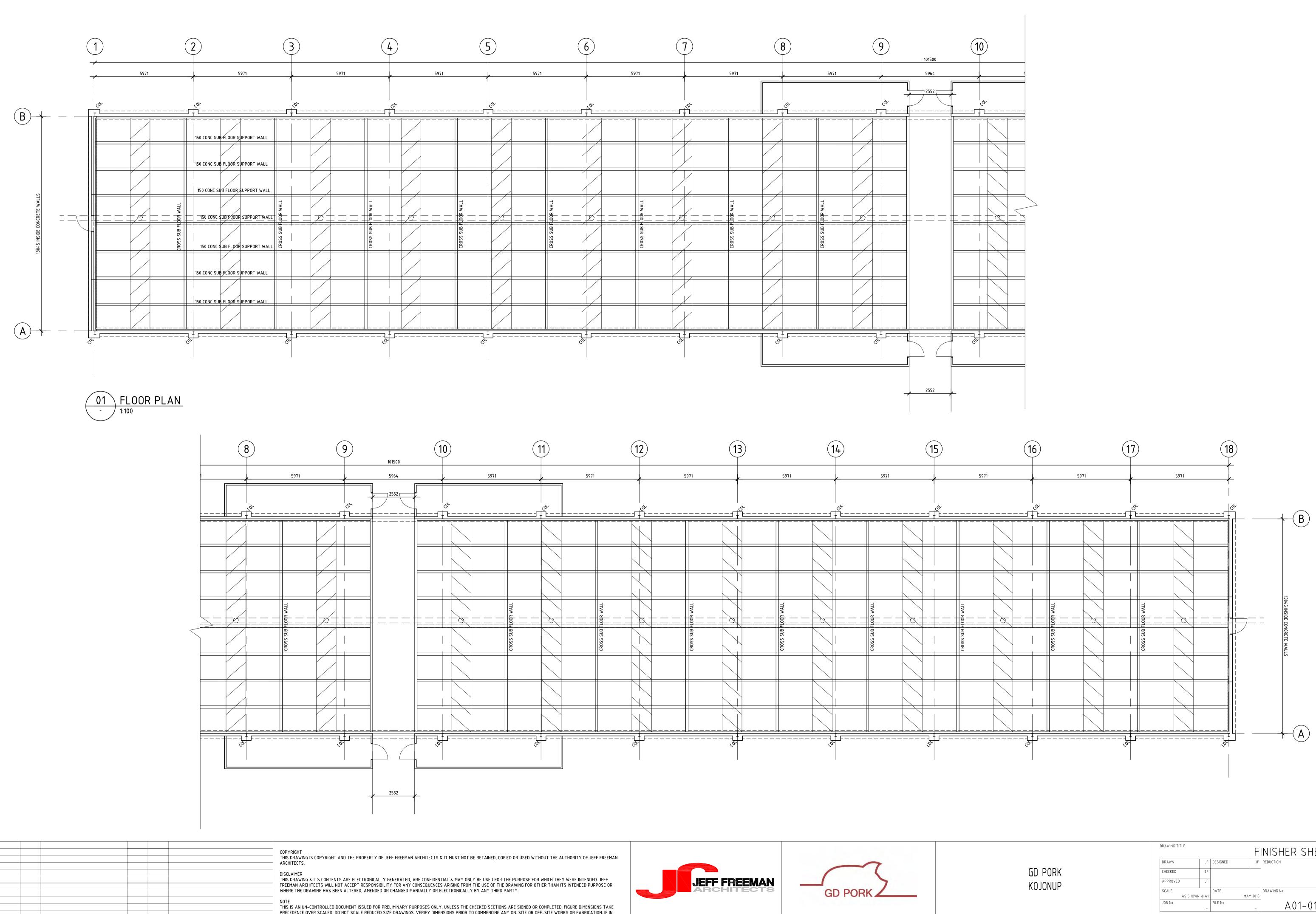
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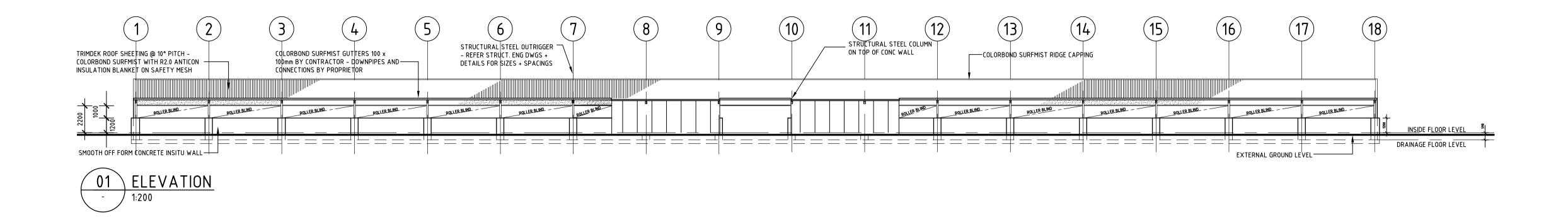
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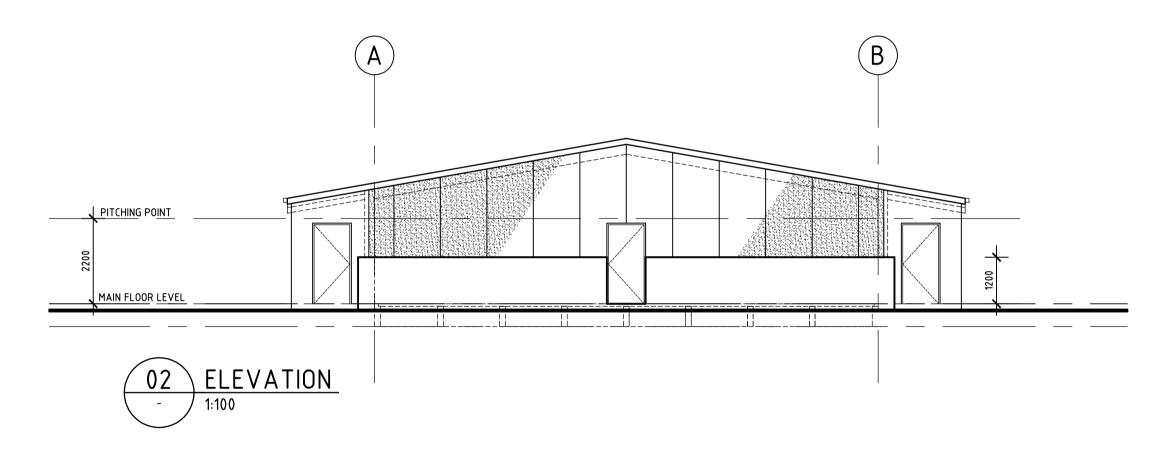
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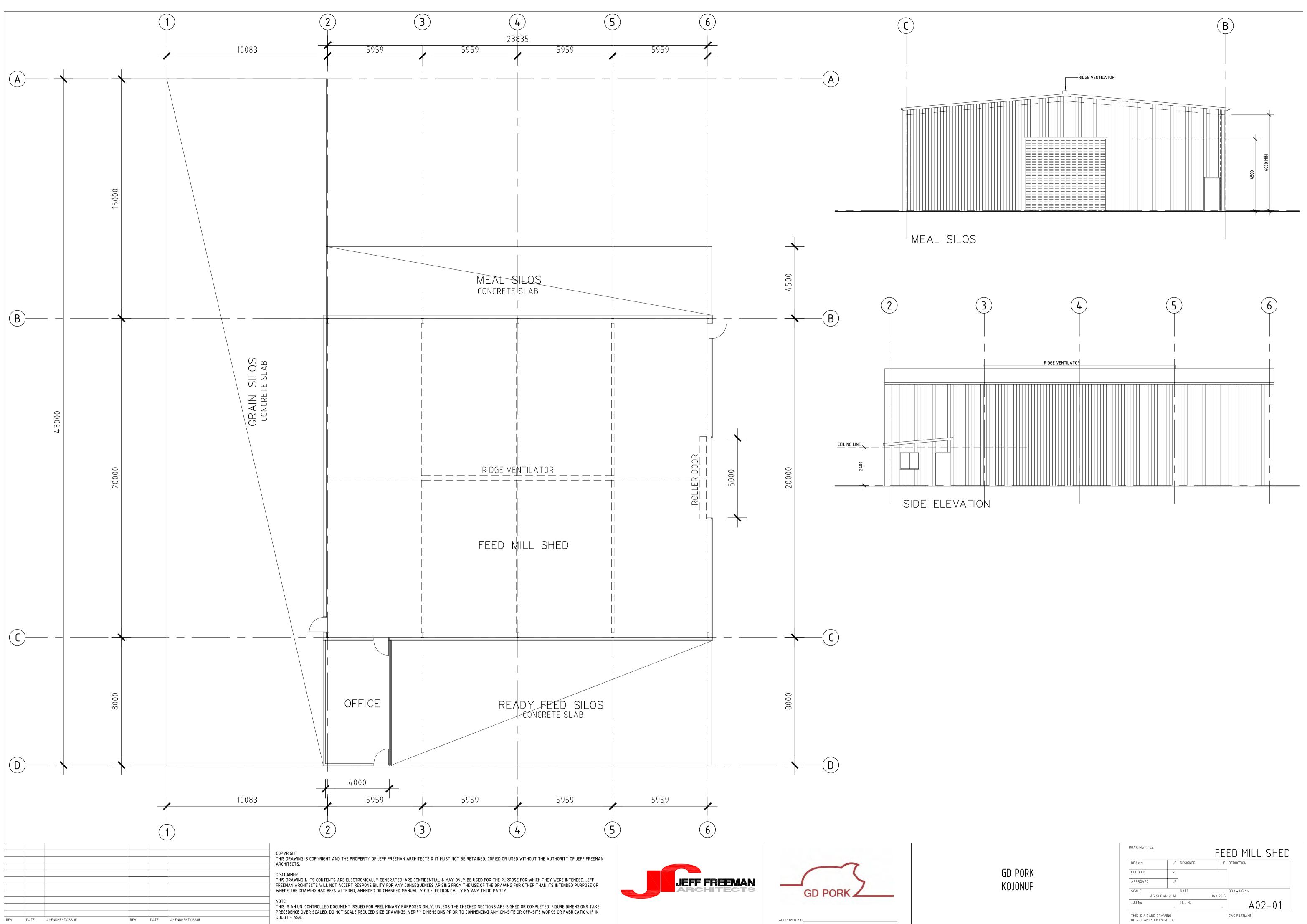


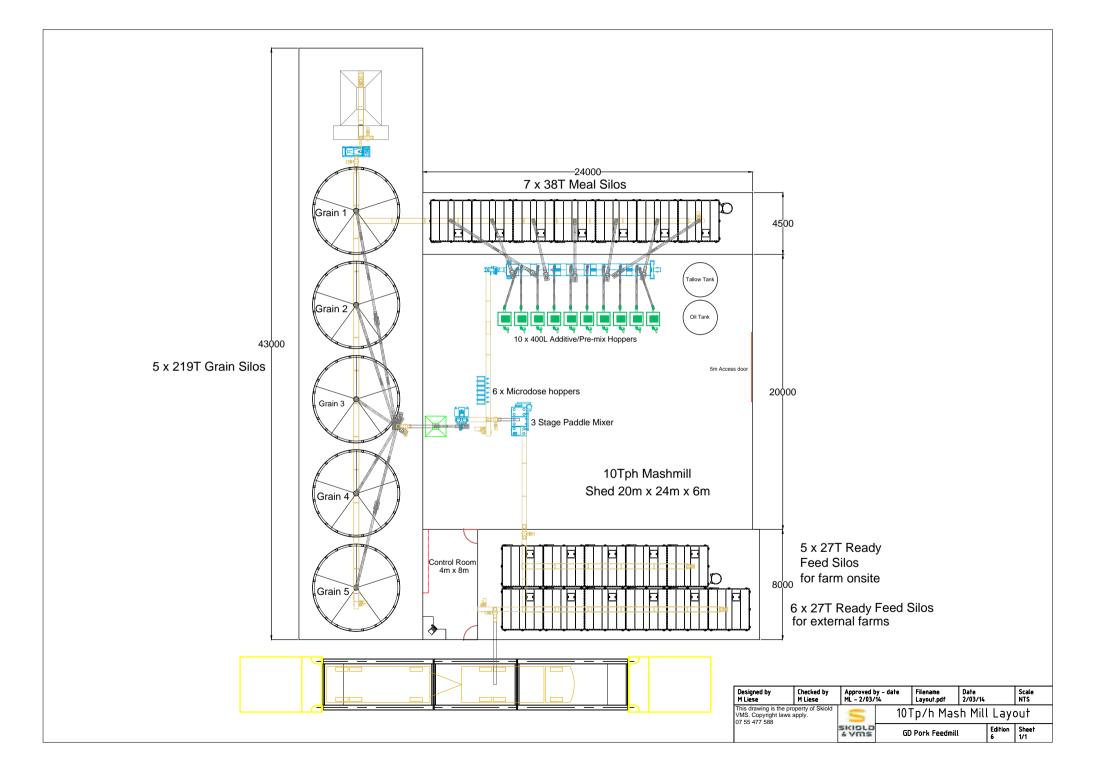
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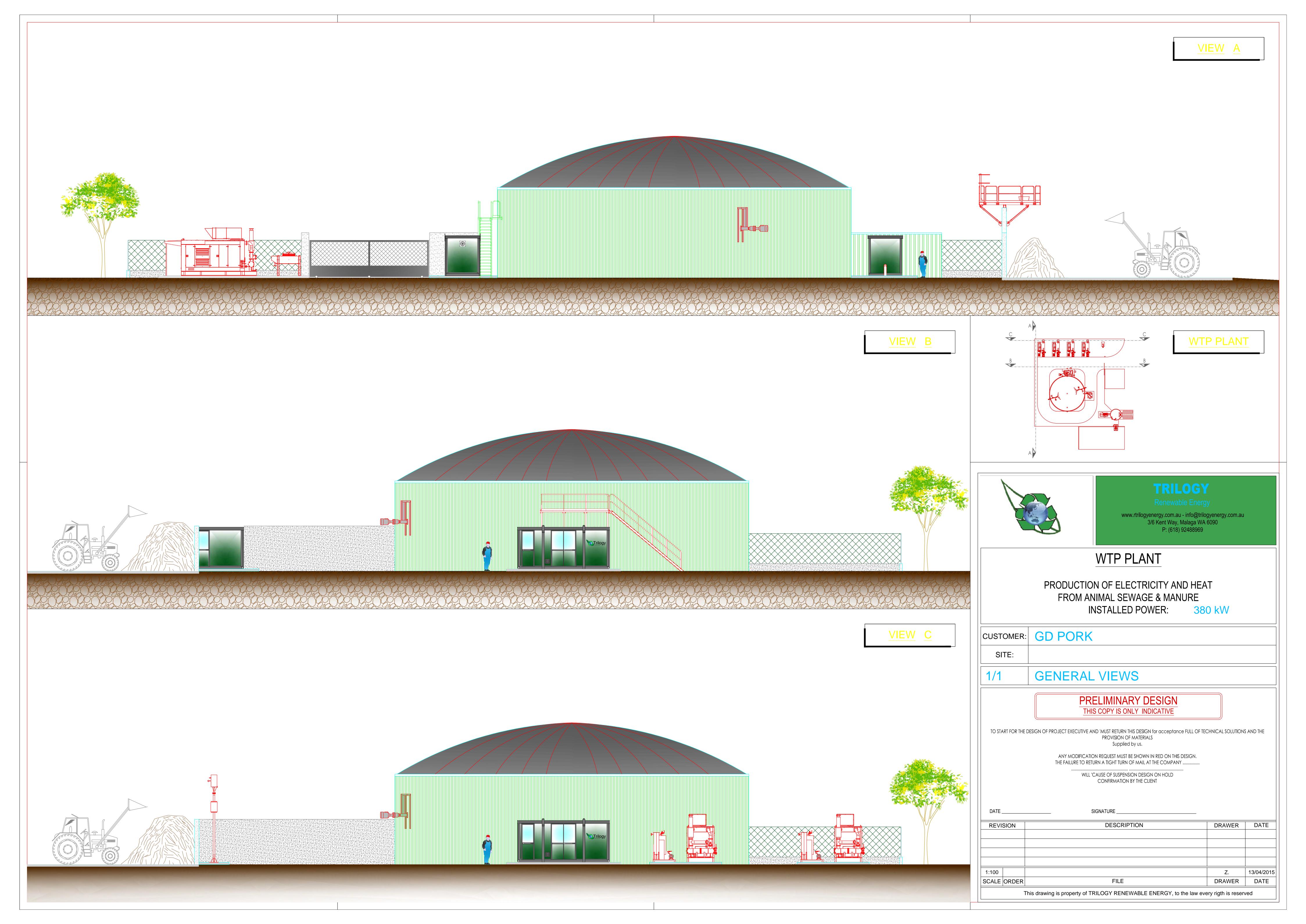
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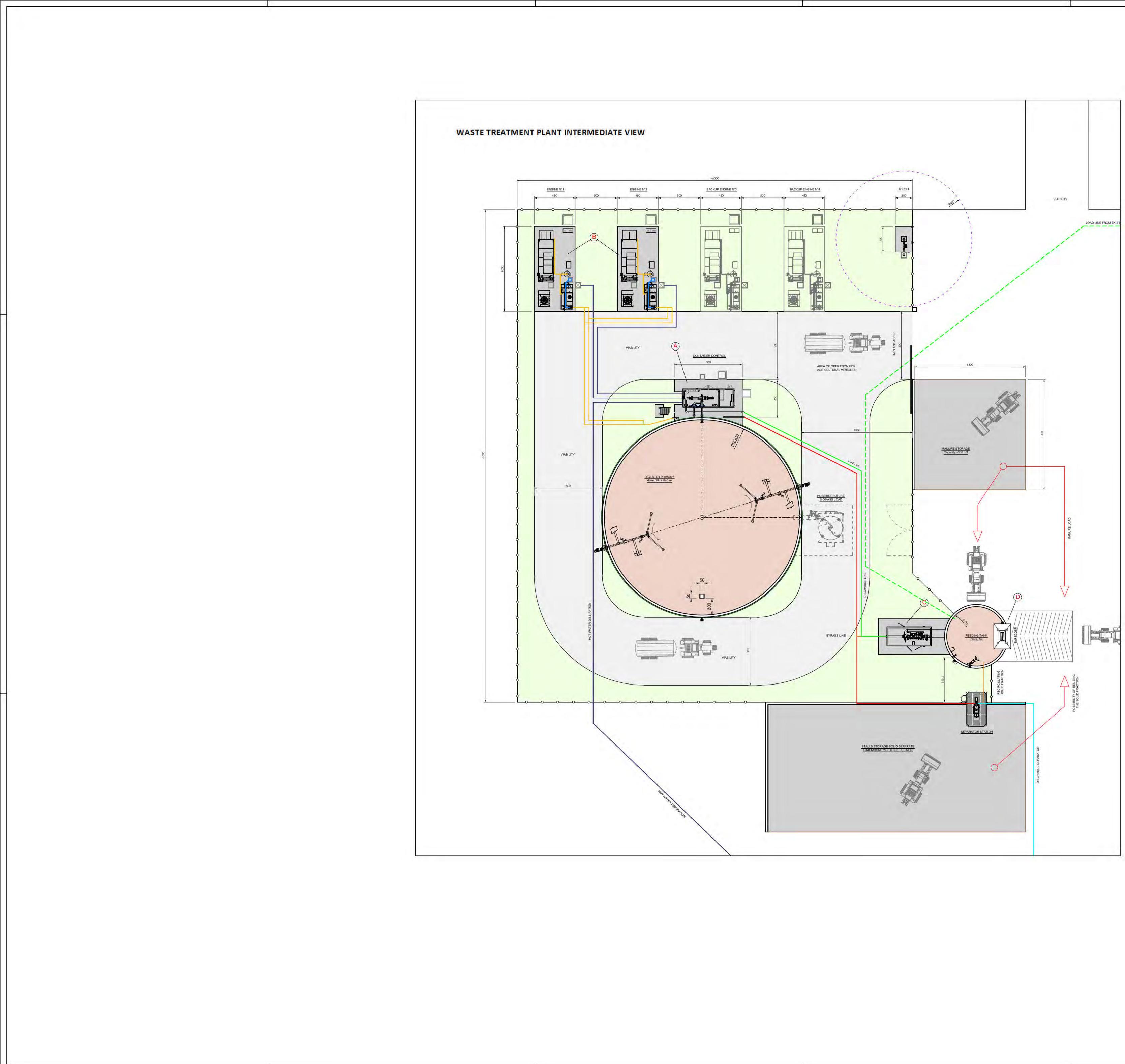
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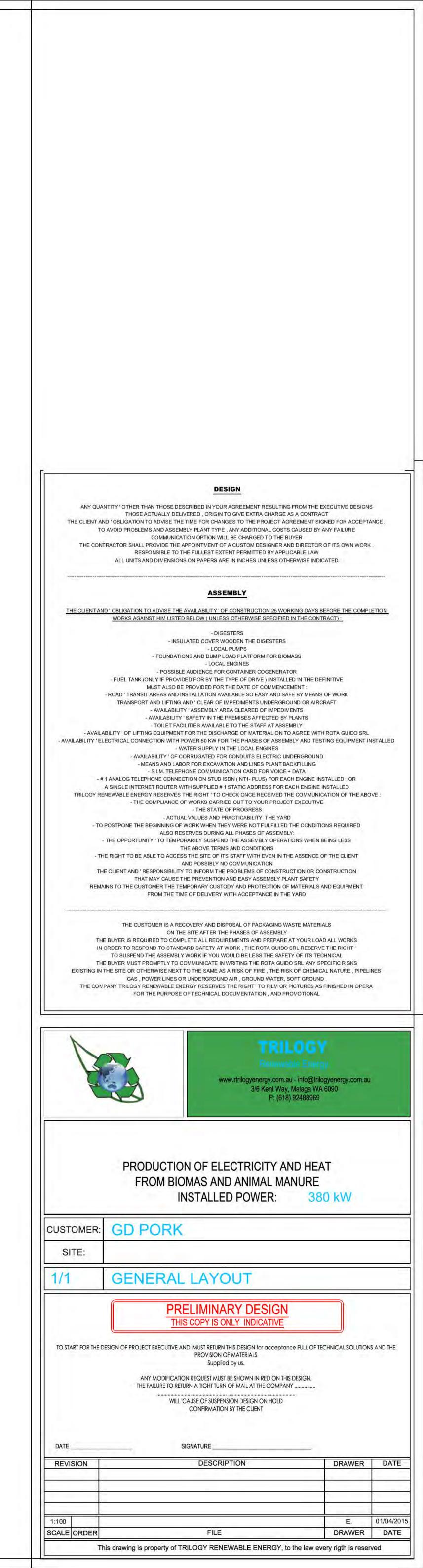
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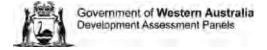












Form 2 - Responsible Authority Report

Property Location:	Lot 6023 Norton Promenade, Dalyellup
	(Previously Lot 9028 prior to subdivision
	clearance)
Application Details:	Take-Away Food Outlet
DAP Name:	South-West JDAP
Applicant:	McDonalds Australia Limited C/o Urbis
Owner:	Dalyellup Beach Pty Ltd
LG Reference:	C5.2.D.99
Responsible Authority:	Shire of Capel
Authorising Officer:	Kim Muste – Senior Strategic Planning Office
Department of Planning File No:	DAP/15/00773
Report Date:	29 July 2015
Application Receipt Date:	25 May 2015
Application Process Days:	65
Attachment(s):	 Original JDAP Notice of Determination and Approved Development Plans DAP/15/00773 Original RAR Report Amended Development Plans DA02 (Rev G), DA03 (Rev D) DA04 (Rev A), DA05 (Rev C and DA06 (Rev B)

(Regulation 17)

Officer Recommendation:

That the South-West JDAP resolves to:

- 1. **Accept** that the DAP Application reference DAP/15/00773 as detailed on the DAP Form 2 dated 9 June 2015 is appropriate for consideration in accordance with regulation 17 of the *Planning and Development* (Development Assessment Panels) Regulations 2011;
- 2. **Approve** the DAP Application reference DAP/15/00773 as detailed on the DAP Form 2 date 9 June 2015 and revised accompanying amended plans DA02 (Rev G), DA03 (Rev D) DA04 (Rev A), DA05 (Rev C and DA06 (Rev B) in accordance with the provisions of the Shire of Capel Town Planning Scheme No.7, for the proposed minor amendment to the approved Take-Away Food Outlet at Lot 6023 Norton Promenade, Dalyellup, subject to the following conditions.

a) Amend Condition 14 to read:

The provision of 35 car parking bays (inclusive of the two (2) waiting car parking bays and one (1) disabled car parking bay) and vehicle manoeuvring areas being constructed, drained marked out and maintained to the satisfaction of the Shire of Capel for the life of the development. Where parking spaces adjoin pedestrian paths wheel stops shall be provided.

c) Delete Condition 4 and related advice note

Background:

Property Address:		Lot 6023 Norton Promenade, Dalyellup
Zoning	GBRS:	Urban
	TPS:	Urban Development Zone (Development
		Precinct 1)
Use Class:		Take-Away Food Outlet
Strategy Policy:		District Centre (under Dalyellup East Local
		Structure Plan) Retail Centre Core (under
		Dalyellup District Centre ODP)
Development Scheme:		Shire of Capel Town Planning Scheme No 7
Lot Size:		3,192m ²
Existing Land Use:		Vacant
Value of Development:		\$3.1million

The South West JDAP granted conditional Planning Consent for a Take-Away Food Outlet at its meeting held on 5 May 2015.

Refer to Attachment 1 and 2 for the original JDAP determination and approved development plans.

Details: outline of development application:

The applicant submitted amended plans with a covering letter dated 26 June 2015. As a result of queries raised by Shire officers the applicant subsequently submitted the following:

- 06 July 2015, replacement amended plans; and
- 20 July 2015, further modified replacement amended plans (refer to Attachment 3), the subject to this report.

The applicant seeks the following changes to the approved plans:

- 1. **Second Blade Wall for Signage** A second blade wall for signage is proposed at the north western end of the building. This was initially proposed to be 9.43m high. As a result of consultation this blade wall has been reduced to a supported height of 7.919m.
- 2. **Originally approved Blade Wall** The originally approved blade wall at the north western end of the building was initially proposed to be retained at the approved height of 7.875m. Shire advice recommended this blade wall be either deleted or reduced in height to 6.090m to be level with the closest portion of the proposed building elevation. The applicant initially responded by reducing this blade wall in height from 7.875m to 7.255m being level with the maximum building elevation height of 7.255m. As a result of further consultation the applicant further reduced this blade wall to 6.090m as recommended by Shire officers to comply with DAP1 in respect of only permitting a single prominent feature for corporate branding.
- 3. *Minor internal changes to accommodate a Burger Bar* Minor changes are proposed to the internal layout to accommodate a separate "Burger Bar' adjoining the proposed kitchen area. The 'Burger Bar' is outlined to be a new offer to McDonalds dine-in customers.

To accommodate floor space for the 'Burger Bar' the internal walls to the Terrace, Playplace, Party Room and Corral have been moved. *Table 1* as provided by the applicant details proposed changes in internal floor areas and confirms the total seating remains unchanged. This modification is supported.

	APPROVED PLANS GLA	AMENDED PLANS GLA	
Building:	485m ²	505m ²	
Corral:	40m ²	33m ²	
Terrace:	44m ²	38m ²	
layland:	51m ²	44m ²	
Fotal GLA:	620m ²	620m ²	
Total Seating:	135	135	

- 4. Western Power Transformer site, reduction in two car parking bays and relocation of Disabled Parking Bay A western power transformer is required to be located at the north western corner of the site. The location of the transformer is limited by an existing water metre. The applicant seeks a reduction of three car parking bays as a result of the proposed transformer location and to provide for the Disabled parking bay to be retained close to the building entry and recommended by Shire officers. The reduction of three car parking bays is supported.
- 5. *Limestone retaining wall:* A minor limestone retaining wall is proposed on the north eastern corner boundary with a maximum height of 400mm. This minor change is supported in compliance with Scheme requirements with no further Planning assessment comment provided.
- 6. Landscaping changed to paving: As required by JDAP Condition 6 -Landscape Plan, a section of landscaping in front of the building façade has been changed to a paved pedestrian path to provide access from the carpark. This required change is supported in compliance with the approval with no further Planning assessment comment is provided.
- 7. *Minor Western path link:* As required by JDAP Condition 6 Landscape Plan, a paved pedestrian path within the landscaped area on the western boundary has been included to link with required paths along the frontage of proposed adjoining future development. Paving along the western edge of the building has also been extended following advice from Shire officers to provide for increased pedestrian accessibility. These outcomes are supported and no further Planning assessment comment is provided.

Legislation & policy:

Legislation

- Greater Bunbury Region Scheme.
- Shire of Capel Town Planning Scheme No.7 (Scheme).

State Government Policies

- Activity Centres for Greater Bunbury Policy.
- Greater Bunbury Strategy 2013

Local Plans and Policies:

- Dalyellup East Local Structure Plan (DELSP) The subject land is within a designated District Centre.
- Dalyellup District Centre Outline Development Plan (DDCODP) The subject land is located within Precinct B Business. Clause 1.5.4 lists Take Away Food Outlet (excluding drive through fast foods) as a "P" Permitted Land Use within Precinct B. The ability for Council to consider a Take Away Food Outlet with a Drive Through facility has been separately addressed by modification to an applicable Detailed Area Plan.
- Dalyellup District Centre Detailed Area Plan No.1 Precincts A, B, and D (East) (DAP1) DAP1 was adopted by Shire of Capel 16th March 2015 in accordance with clause 1.2.7 of the DDCODP. DAP1 provides for minor modifications to the DDCODP including:
 - A Drive Through facility is permitted in conjunction with Take Away Food Outlets on nominated sites, in variance to clause 1.5.4 of the DDCODP.
 - Measures to ensure the first stage of development and subsequent stages have co-ordinated constructed vehicle access ways with easements and pedestrian access.
 - Not included in the original RAR, Clause 2.2.6 of DAP1 states:

Notwithstanding any general standards for signage set out in a Signage Strategy for the District Centre ODP Area no pylon sign either freestanding or attached to a building shall be permitted. Signage, including corporate branding emblems or naming panels, for development on separate lots shall be integrated with the architectural design of buildings and shall not attain a height above the elevation of the building greater than equivalent to 30% of the height of the elevation of the building. Where more than one business is contained on a lot in either separate or a common building signage shall be limited to one corporate branding emblem or naming panel per business.

- Dalyellup District Centre Signage Strategy A signage strategy for the district centre, as a seriously entertained document was been in development for some time and was approved on the 3 June 2015 pursuant to clauses 1.2.10 and 1.3.6.1g) of the DDCODP. The signage strategy includes the following requirements applicable to the amended blade wall.
 - Section *4.2 Mandatory Requirements* of the strategy details the following relevant mandatory requirement consistent with DAP1:
 - d. Signage, including corporate branding emblems or naming panels, shall be integrated with the architectural design of buildings and shall not attain a height above the elevation of the building greater than the equivalent to 30% of the height of the elevation of the building.
 - Section 5.2.1 Freestanding Pylon Sign details the potential for a single freestanding pylon sign to be located on private land on the opposite corner of Tiffany Centre and Norton Promenade (not the subject land). To provide context for the proposed blade wall, section 5.2.1 includes the following requirements for the pylon sign:
 - b) The sign shall be no higher than 9m above natural ground level and shall be in the form consistent with the image contained in the signage strategy.
 - c) The sign shall only be permitted to advertise the District Centre and a range of individual businesses.
 - d) Advertising of only one single business will not be permitted.
 - Section 5.2.2 Signage affixed to Building façade and Roofs includes the following:
 - h) Signage that protrudes above a façade and/or roofline will generally not be supported. Any protruding signage shall be subject to the following:
 - **§** Generally be limited to a maximum of one protruding sign per building or group of tenancies within a building.
 - § Illuminated protruding façade or roof signage shall not be visually obtrusive from nearby residential and/or short stay development.

Subdivision Approval:

- As detailed in the Original RAR, Lot 9028 is subject to subdivision approval (WAPC Ref:149334) that will create 4 freehold lots including a separate Lot 6023 for the proposed development. As of July 2015 subdivision works have been completed and titles issued for the resultant lots.
- Vehicle access for the proposed development (and Lot 6023) is to be provided as follows:

- In accordance with DAP1 direct vehicle access to Norton Promenade and Tiffany Circle is not permitted.
- A shared access way along the southern boundary of Lot 6023 has been constructed.
- A shared access way within proposed adjoining Lot 6022 is required and has now been constructed.

Consultation:

Public Consultation

As a Permitted Land Use no public consultation was required to process the amended plans.

<u>Consultation with other Agencies or Consultants</u> Consultation with agencies was not necessary or required.

Consultation occurred with the applicant in June and July that resulted in refinements to the submitted amended plan and provision of additional information as detailed within the Planning assessment.

Planning assessment:

Lot number

For accuracy the report refers to the subject land as Lot 6023 Norton Promenade as an applicable subdivision of the original land (Lot 9028) detailed in the original RAR has been progressed to the issue of titles.

Modification to originally approved blade wall

DAP1 and the Signage Strategy are clear that only one naming panel for corporate branding/signage (in this case described as a blade wall) shall be integrated with the architectural design of buildings and shall not attain a height above the elevation of the building greater than the equivalent to 30% of the height of the elevation of the building.

The proposed blade wall on the north western corner of the building was originally supported and approved at a height of 7.875m in accordance with the above requirement. Two blade walls for corporate signage do not comply with DAP1 or the intent of the Signage Strategy and would set an undesirable precedent for the proliferation of large dominant signage within an emerging district centre.

It is clear that the proposed second north eastern blade wall is preferred by the proponent as it faces westward towards Bussell Highway and is likely to be more visible to potential passing trade. To achieve this outcome the original north western blade wall was recommended by Shire officers to be deleted or reduced in height to 6.090m so that it does not protrude above the height of the closest portion of building elevation, where it could then be interpreted to form part of the building.

The applicant initially responded by reducing the blade wall in height from 7.875m to 7.255m being level with the maximum building elevation height of 7.255m. As a result of further Shire officer recommendations the applicant submitted a subsequent amended plan the subject of this report reducing the height of the approved blade wall to 6.09m. The Shire's basis for this outcome is as follows:

- The applicant has demonstrated a preference for the blade wall towards the north eastern corner of the building to be the dominant more architectural visible feature for corporate branding and signage;
- As submitted, the applicant has effectively proposed a second blade wall that does not comply with DAP1 requirements unless the original is deleted or reduced in height as now submitted;
- At 7.255m the blade all would have been more dominant and be a second protruding feature for signage that is higher than the 6.090m building elevation closest to where the blade wall is located;
- A second protruding blade wall is inconsistent with the provisions of DAP for a single architecturally integrated corporate branding panel and would set an undesirable precedent for the proliferation of large dominant signage within an emerging district centre;
- A reduction in height of the original approved blade wall to 6.09m is considered a reasonable compromise for a more integrated lower blade wall for signage that does not protrude above the predominant building elevation of 6.090m where the blade wall is located;
- The blade wall is attached to the Terrace entry area that has a roof height of 3.620m. At 6.09m the blade wall would still protrude above the height of the Terrace roof by 2.47m providing ample visibility and opportunities for signage; and
- Placed in context, a 6.09m blade wall is the equivalent of 2 storeys high and would be located within an unobstructed position when viewed from Norton Promenade.

Second Blade wall for signage

The applicant has interpreted that DAP1 provides the ability to achieve a blade wall that is 30% higher than the maximum height of the building. The western elevation of the building from where the proposed second blade wall will be most visible is 20.15m long and 6.090m high. Of the 20.12m length of the western elevation, approximately 7.1m, or 35.2%, is 7.255m high. This 7.255m higher portion of the building is associated with the Playplace area and is setback approximately 16m from the western façade. Similarly, the majority of the northern and primary front elevation of the building is 30.960m long and 6.090m high. Of the 30.960m length of the front elevation only 7.5m or 24.2% is 7.255m high.

Notwithstanding the potential to attain a maximum blade wall high of 9.43m, where integrated into the design and building elevation, in this instance the applicant was recommended that the north eastern proposed blade wall be reduced in height from 9.43m to 7.917m, or 30% higher than the elevation of the building in the location of the feature, for the following reasons:

• A blade wall height of 9.43m is not considered to be appropriately integrated into the architectural design of the building due to its height above the predominant elevation where it is positioned,

- A blade wall at 9.43m high it is an increase in the predominant height of the western elevation by 54.8% (6.090m to 9.43m), and
- DAP1 provides for a blade wall to be 30% higher than the elevation of the building. In this case, this is applied to the predominant height where the feature is located. This provides for a blade wall height of 7.917m.

The applicant responded by reducing the height of the blade wall from 9.43m to 7.917m as recommended by Shire officers.

Minor internal changes to accommodate a 'Burger Bar'

As demonstrated by *Table 1*, the proposed minor internal changes to accommodate a Burger Bar do not change the Gross Leasable Area or proposed seating capacity whereby no addition or amended conditions are required.

Western Power Transformer site, reduction in two car parking bays and relocation of Disabled Parking Bay

The need to accommodate a Western Power Transformer site is acknowledged and supported.

A reduction in 3 car parking bays to accommodate the transformer site and to maintain the location of the disabled car parking bay close to the building entry is supported.

The parking assessment within the original RAR detailed (as a guide) a requirement for 34 car parking bays. 38 car parking pays were approved and a reduction of 3 car parking bays still demonstrates compliance with the assessed minimum requirement for 34 bays.

JDAP Condition 4 and related advice note

Condition 4 was required as construction of a shared accessway on adjoining proposed Lot 6022 to provide vehicle access to the subject development site was not yet constructed as a separate condition of subdivision approval. The required accessway for vehicle access has been constructed and the subdivision cleared to the issue of titles. As a result Condition 4 and the related advice note can be deleted due to fulfilment of the condition.

Conclusion:

Consultation with the applicant resulted in modifications to the amended plans in accordance with Shire officer recommendations.

The amended plans submitted 20 July 2015 are recommended for approval with minor adjustment to the conditions of approval.



Government of Western Australia Development Assessment Panels

LG Ref:C5.2.D.199DoP Ref:DAP/15/00773Enquiries:Development Assessment PanelsTelephone:(08) 6551 9919

Mr Simon Wilkes Urbis Level 1/55 St Georges Terrace Perth WA 6000

Dear Mr Wilkes

South-West JDAP – Shire of Capel – DAP Application C5.2.D.199 Lot 9028 Norton Promenade, Dalyellup Take-Away Food Outlet

Thank you for your application and plans submitted to the Shire of Capel on 16 March 2015 for the above development at the above mentioned site.

This application was considered by the South-West Joint Development Assessment Panel at its meeting held on 5 May 2015, where in accordance with the provisions of the Shire of Capel Town Planning Scheme No.7, it was resolved to <u>approve the application</u> as per the attached notice of determination.

Should the applicant not be satisfied by this decision, a DAP Form 2 application may be made to amend or cancel this planning approval in accordance with Regulation 17 of the Development Assessment Panel Regulations 2011.

Please be advised that there is a right of review by the State Administrative Tribunal in accordance with Part 14 of the *Planning and Development Act 2005*. An application must be made within 28 days of the determination in accordance with the *State Administrative Tribunal Act 2004*.

Should you have any enquiries in respect to the conditions of approval please contact Mr Kim Muste at the Shire of Capel on (08) 9727 0222.

Yours sincerely

Sean O'Connor

DAP Secretariat

11/05/2015

- Encl. DAP Determination Notice Approved plans
- Cc: Mr Kim Muste Shire of Capel kmuste@capel.wa.gov.au





Planning and Development Act 2005

Shire of Capel Town Planning Scheme No.7

South-West Joint Development Assessment Panel

Determination on Development Assessment Panel Application for Planning Approval

Location: Lot 9028 Norton Promenade, Dalyellup Description of proposed Development: Take-Away Food Outlet

In accordance with Regulation 8 of the *Development Assessment Panels Regulations* 2011, the above application for planning approval was **granted** on 5 May 2015, subject to the following:

Approve DAP Application reference No. 15/00723 and accompanying plans DA02 - Revision C (amended as received 2nd April 2015), DA03, DA04, DA05, DA06, DA07 in accordance with Clauses 8.3 and 8.10.1 of the Shire of Capel Town Planning Scheme No.7, subject to the following conditions:

General Conditions:

- 1. This approval is for Planning Consent only and is valid for two (2) years from the date of the decision. If the approved development is not substantially commenced within the two (2) year period, the approval shall lapse and be of no further effect.
- 2. The approved development shall be undertaken and fully implemented in accordance with the approved plan(s).
- 3. This approval does not include proposed signage. A separate application for Planning Consent for Advertising signage is required.

Prior to Commencement of Development or Application for Building Permit Conditions:

- 4. Before development commences a shared access way and crossover (corresponding to Internal Road #1 as notated on the approved plans DA2) shall be designed, approved by the Shire of Capel, constructed and covered by a registered Easement in Gross on the certificate of title. The design and location of the shared access way and crossover shall include finished ground levels and drainage that demonstrate suitable shared access arrangements and vehicle manoeuvrability for the development.
- 5. A site plan showing finished ground levels, pavement levels and finished floor levels is to be submitted for assessment and approval by the Shire Capel prior to submission of a Building Permit application. The finished ground levels shall conform to the overall earthworks design levels for the subdivision by which proposed Lot 6023 is to be created.





- 6. A Landscape Plan is to be submitted for assessment and approval by the Shire of Capel prior to commencement of development. The Landscaping Plan is to be implemented and maintained for the life of the development and shall include:
 - A paved pedestrian path between the northern façade of the building and car parking bays.
 - A paved pedestrian path within the landscaped area on the western boundary.
 - Landscaping of the site and adjoining road verge on Tiffany Centre between the property boundary and existing pedestrian path shall be consistent with the Dalyellup District Centre Landscape Master Plan.
- 7. A schedule of materials colours and finishes is to be submitted with the Building Permit application for assessment and approval by the Shire of Capel.
- 8. A Stormwater Management Plan is to be submitted for assessment and approval by the Shire of Capel prior to submission of a Building Permit application.
- 9. A Daily Operation Management Plan is to be submitted for assessment and approval by the Shire of Capel prior to submission of a Building Permit application, and thereafter the plan shall be implemented at all times to the satisfaction of the Shire of Capel.
- 10. A Construction Management Plan is be submitted for assessment and approval by the Shire of Capel prior to submission of a Building Permit application.
- 11. All off-street parking and access thereto shall comply with Australian Standard 2890.1 to the satisfaction of the Shire of Capel. Construction plans shall be submitted for assessment and approval by the Shire of Capel prior to submission of a Building Permit application.

Prior to Occupation/Use of Development Conditions:

- 12. A Waste Management and Recycling Plan is to be submitted for assessment and approval prior to occupation of the premises and thereafter the plan shall be implemented at all times to the satisfaction of the Shire of Capel.
- 13. The installation of outdoor lighting shall be in accordance with the requirements of the Australian Standard AS 4282-1997: 'Control of the Obtrusive Effects of Outdoor Lighting'.
- 14. The provision of 38 car parking bays (inclusive of two (2) waiting car parking bays and one (1) disabled car parking bay) and vehicle manoeuvring areas being constructed, drained, marked out and maintained to the satisfaction of the Shire of Capel for the life of the development. Where parking spaces adjoin pedestrian paths wheel stops shall be provided.





15. A minimum of 4 bicycle parking bays at the rate of 1 per 200m2 GLA designed to comply with Australian Standard 2890.3 are to be provided on site clear of any vehicular carriageways. Details of the bicycle parking shall be submitted to the Shire of Capel for assessment and approval prior to construction commencing.

Advice Notes:

- 1. The design and construction of the required shared access way with Easement in Gross is required to provide vehicular access to the development site. Part Lot 9028 is subject to conditional subdivision approval WAPC Ref: 149334 where the subdivider is proposed to construct the required shared access way with Easements in Gross and upon doing so the Planning Consent condition would be fulfilled.
- 2. The Landscape Plan is to detail the following:
 - a. Those areas to be reticulated.
 - b. Verge Treatments.
 - c. Species Types and numbers.
 - d. Lighting to pathways, communal space and parking areas.
 - e. Outdoor furniture, bin enclosures and pavement treatments.
 - f. Measures to be taken to ensure that trees and shrubs planted will thrive and be maintained in a healthy state for the life of the development.
 - g. Pedestrian path linkages.
- 3. The Stormwater Management Plan is to detail the following:
 - a. Catchments, flow paths, water quality improvement measures, area calculations and design criteria demonstrating that all stormwater from a 1year ARI can be retained on site and infiltrated.
 - b. Overflows from soak wells and/ or rain gardens are to enter the road pipe network by a direct piped lot connection with a capacity for a 10year ARI.
 - c. Events beyond a 10year ARI are to be directed to the road by overland flow.
 - d. Mosquito breeding control measures where stormwater infrastructure is likely to result in standing water that will provide breeding habitat.
- 4. Stormwater drainage levels should have regard to the invert level of a pipe connection for stormwater to be directed to the public road drainage pipe network. The Stormwater Management Plan should be in accordance with Shire of Capel information sheet "Specifications for Stormwater" and incorporate the principles and guidelines set out in the WAPC Guidelines for Better Urban Water Management and the Department of Water Stormwater Management Manual for Western Australia.
- 5. Proposed Lots 6020, 6021, 6022 and 6023 have been supplied with a 225mm diameter pipe connection to the Shire's stormwater system. The 1st 10mm of stormwater flow must be detained onsite with the remainder flowing to the Shire drainage system via a Gross Pollutant Trap. For proposed Lot 6023 the minimum height of overland flows exiting the site must be 7.64 AHD.





- 6. The Construction Management Plan is to detail how the following matters are to be managed:
 - a. Access to and from the site;
 - b. The delivery of materials and equipment to the site;
 - c. The storage of materials and equipment on the site;
 - d. Other matters likely to impact on surrounding properties;
 - e. The parking arrangements for contractors and subcontractors;
 - f. Management of construction waste; and
 - g. Dust mitigation.
- 7. The Waste Management Plan is to address the following:
 - a. The location of bin storage areas and bin collection areas;
 - b. The number, volume and type of bins, and the type of waste to be placed in the bins. This is to include measures that will support recycling:
 - c. Management of the bins and the bin storage areas, including cleaning, rotation, moving bins to and from the bin collection areas and actions to contain and clean any spillage of waste or other materials; and
 - d. Frequency of bin collections.
- 8. The carpark standards applied to proposed Lots 6020, 6021, 6022 and 6023 have been assessed as requiring user class classification 3A in accordance with Australian Standard AS/NZS 2890.1. The Class 3A option of 2.6m x 5.4m bays with aisle width of 6.6m has been applied to the proposed lots and subject land.
- 9. In relation to signage:
 - a. Requirements for an application for approval of Advertising signage are set out in Clause 7.12 of Town Planning Scheme No 7 and the Shire of Capel Signs Local Law 2001.
 - b. Signage is to comply with the Dalyellup District Centre Signage Strategy and Dalyellup District Centre Detailed Area Plan No.1.
- 10. In relation to Building:
 - a. Compliance with the Building Act 2011, Building Regulations 2012 and the Building Code of Australia will be required. Advice should be sought from a registered building surveying contractor in order to obtain the appropriate certificates for building permit and occupancy permit applications.
 - b. If the project requires Fire Hydrants, the sites water pressure and flow test results will need to be established at the point of proposed water main access.
 - c. AS 2419 covers installation details and minimum required pressure and flow rates for fire hydrants. If minimum requirements cannot be obtained at the point of supply, the design of pumps and tanks would need to be considered.





11. In relation to Environmental Health Advice:

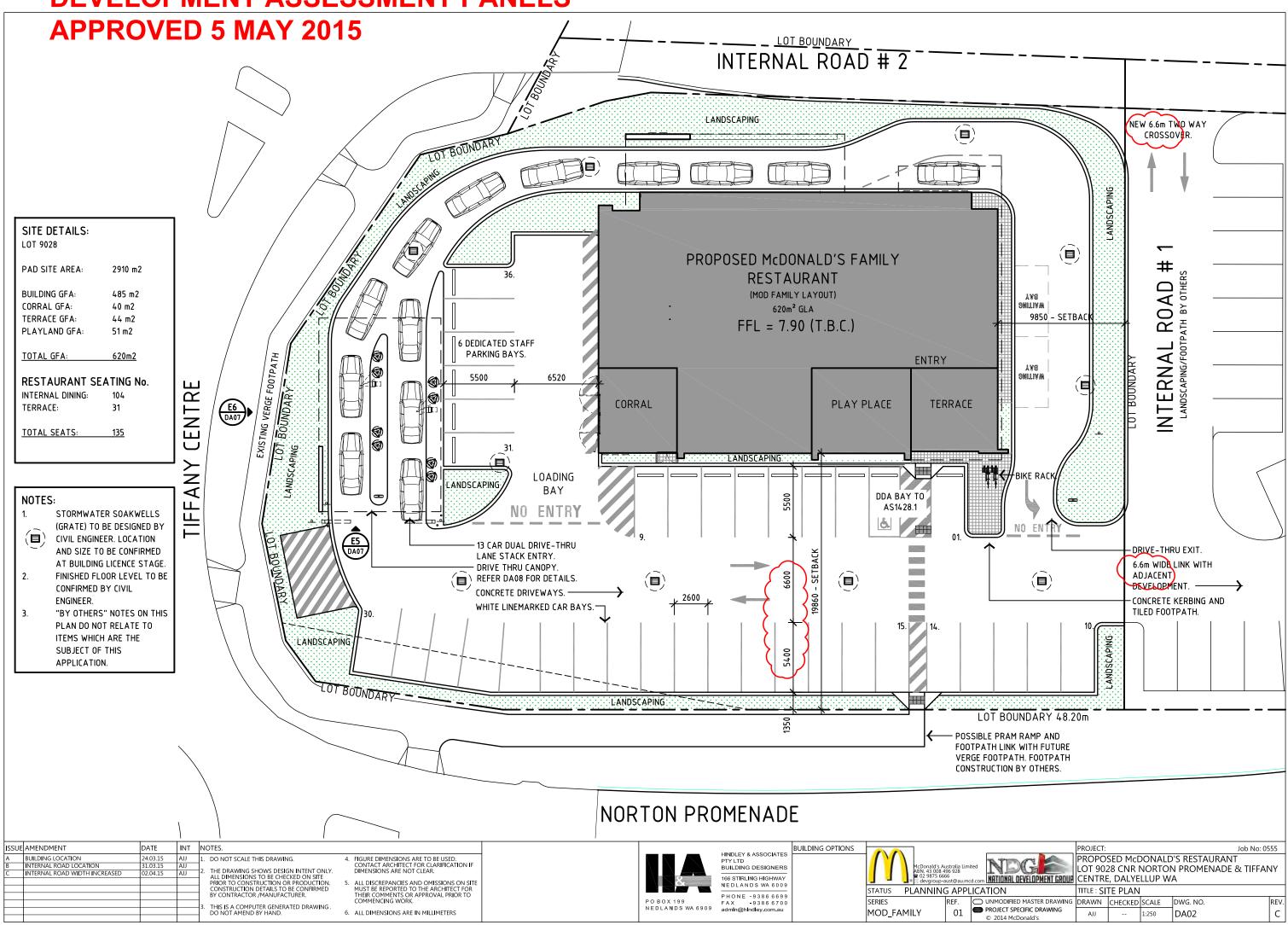
- a. Compliance with the AS 4674-2004 will be required to meet the requirements of the National Food Safety Standards 3.2.3.
- b. Compliance with the Environmental Protection (Noise) Regulations 1997 is required.
- c. Contact Council's Health Services to obtain the Food Act 2008 Food Business Notification/Registration Form.
- 12. A Sustainability Implementation and Outcomes Plan is in the process of being prepared for the Dalyellup District Centre as a requirement of the Dalyellup District Centre Outline Development Plan. This plan will encourage landowners of commercial premises, business proprietors and/or tenants to consider and implement a range of sustainability initiatives and practices. The applicant is encouraged to consider sustainable development initiatives including the Sustainability Implementation and Outcomes Plan when it is available. Notwithstanding this, the applicants are invited to demonstrate sustainability measures that will be incorporated into the project.

The applicants are encouraged to provide a number of bicycle parking bays in excess of Australian Standard 2890.3

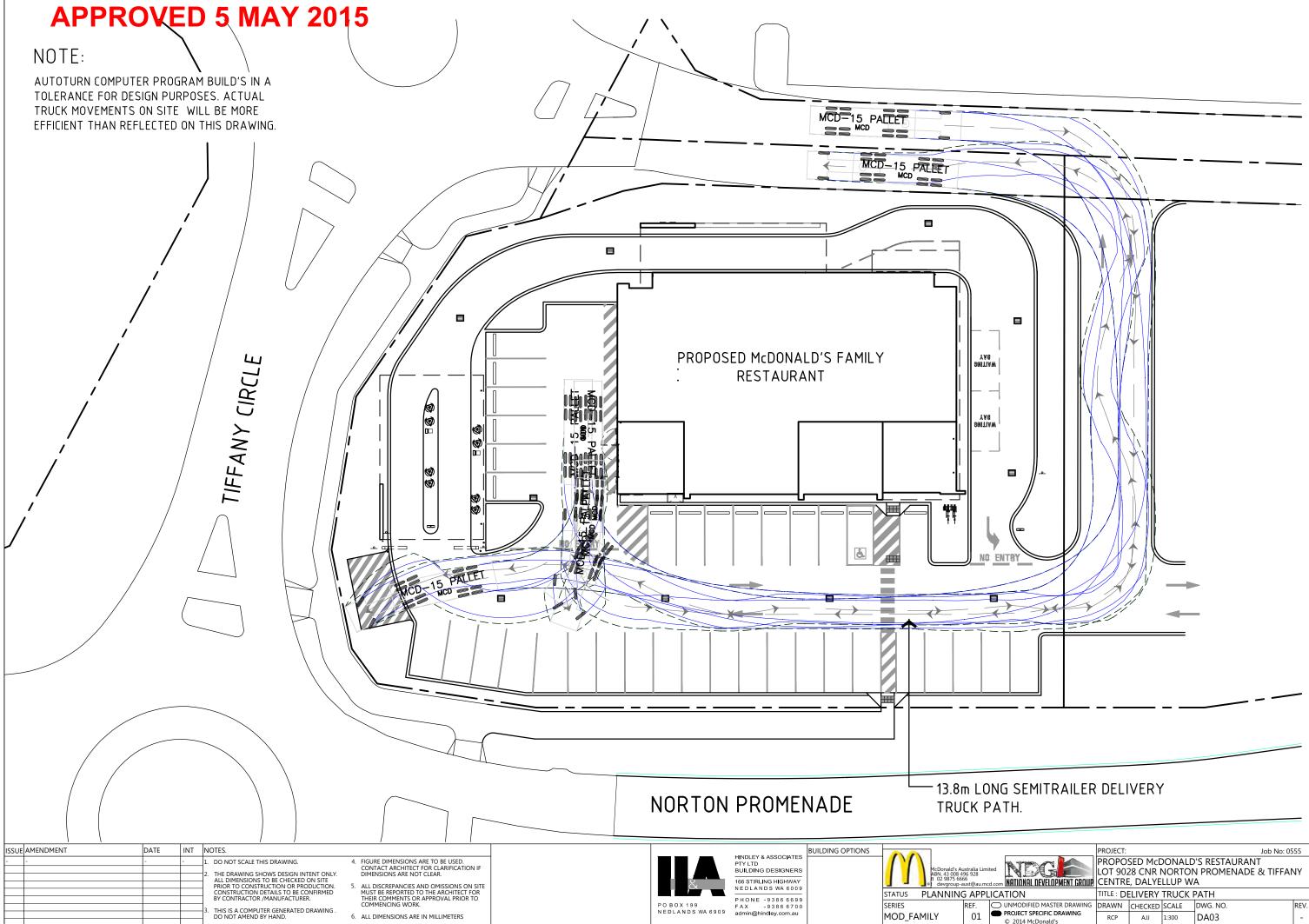
Where an approval has so lapsed, no development shall be carried out without further approval having first been sought and obtained, unless the applicant has applied and obtained Development Assessment Panel approval to extend the approval term under regulation 17(1)(a) of the *Development Assessment Panel Regulations 2011*.





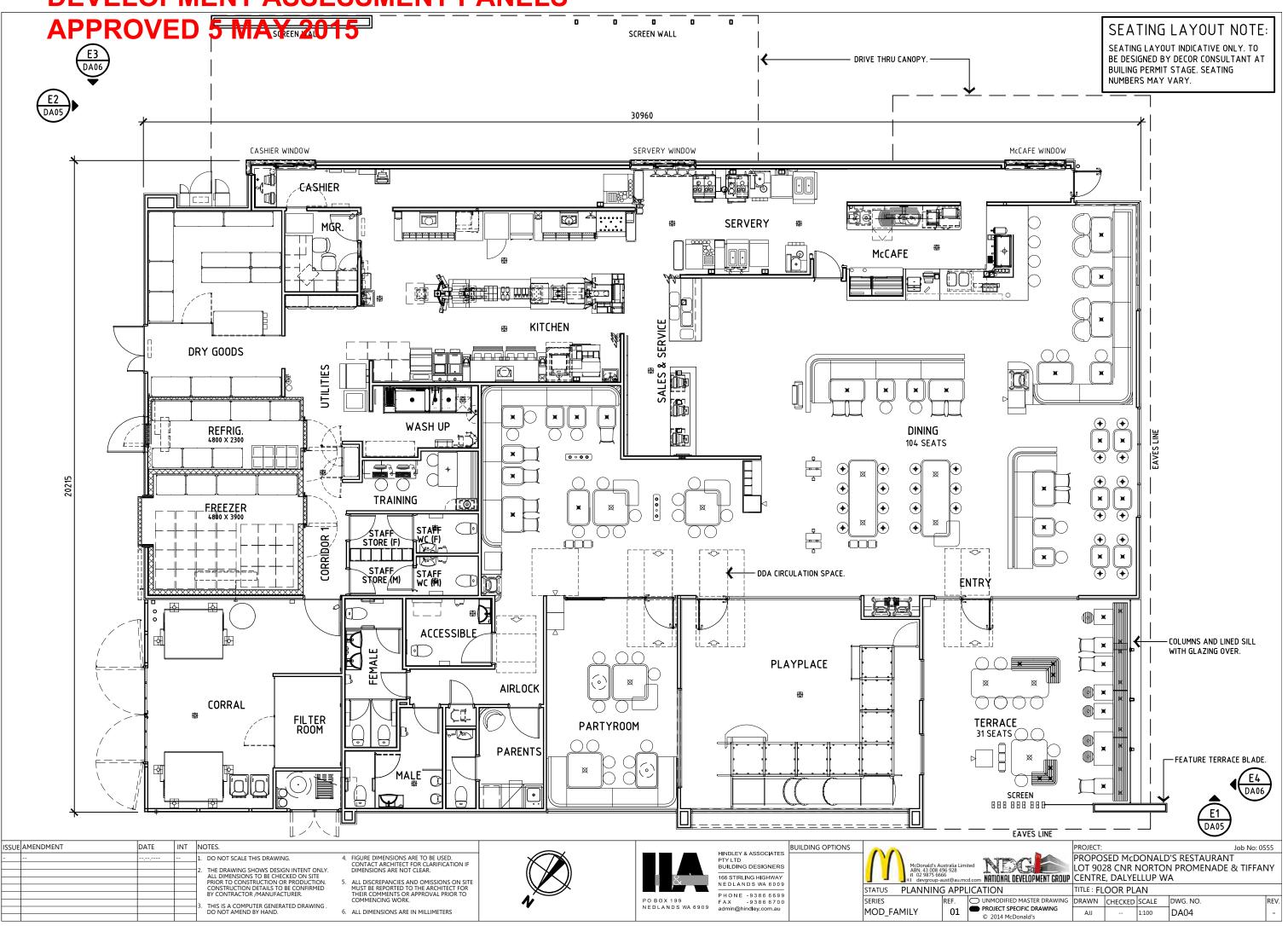


DEVELOPMENT ASSESSMENT PANELS

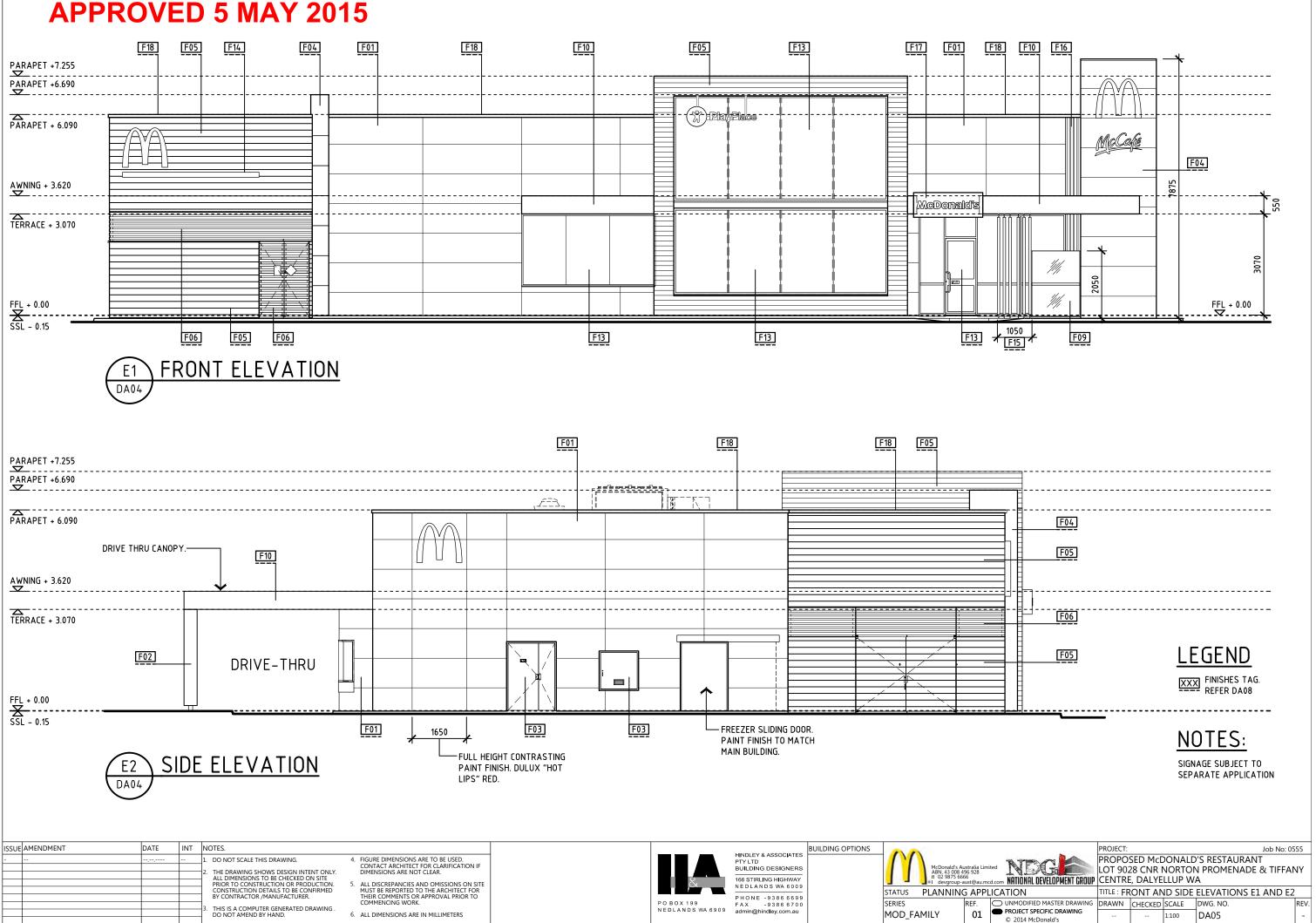


PROJECT:			Job No: 05	555
PROPOSED McDONALD'S RESTAURANT LOT 9028 CNR NORTON PROMENADE & TIFFANY CENTRE, DALYELLUP WA				
TITLE : DE	ELIVERY	TRUCK I	PATH	
DRAWN	CHECKED	SCALE	DWG. NO.	REV.
RCP	AJJ	1:300	DA03	-
	PROPO LOT 902 CENTRE TITLE : DI DRAWN	PROPOSED McE LOT 9028 CNR I CENTRE, DALYE TITLE : DELIVERY DRAWN CHECKED	PROPOSED McDONALD LOT 9028 CNR NORTON CENTRE, DALYELLUP W TITLE : DELIVERY TRUCK F DRAWN CHECKED SCALE	PROPOSED McDONALD'S RESTAURANT LOT 9028 CNR NORTON PROMENADE & TIFFAI CENTRE, DALYELLUP WA TITLE : DELIVERY TRUCK PATH DRAWN CHECKED SCALE DWG. NO.

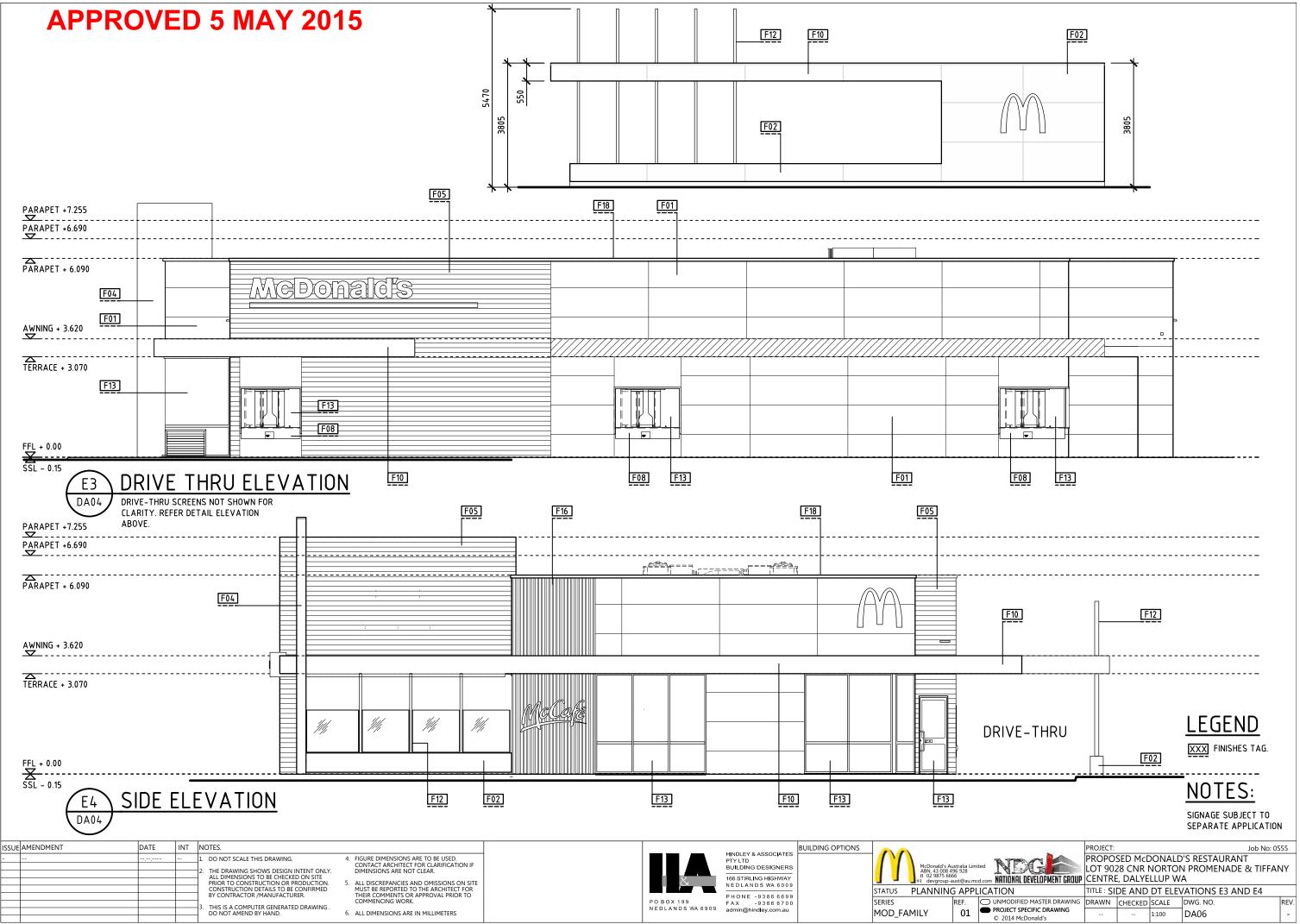
DEVELOPMENT ASSESSMENT PANELS



DEVELOPMENT ASSESSMENT PANELS APPROVED 5 MAY 2015

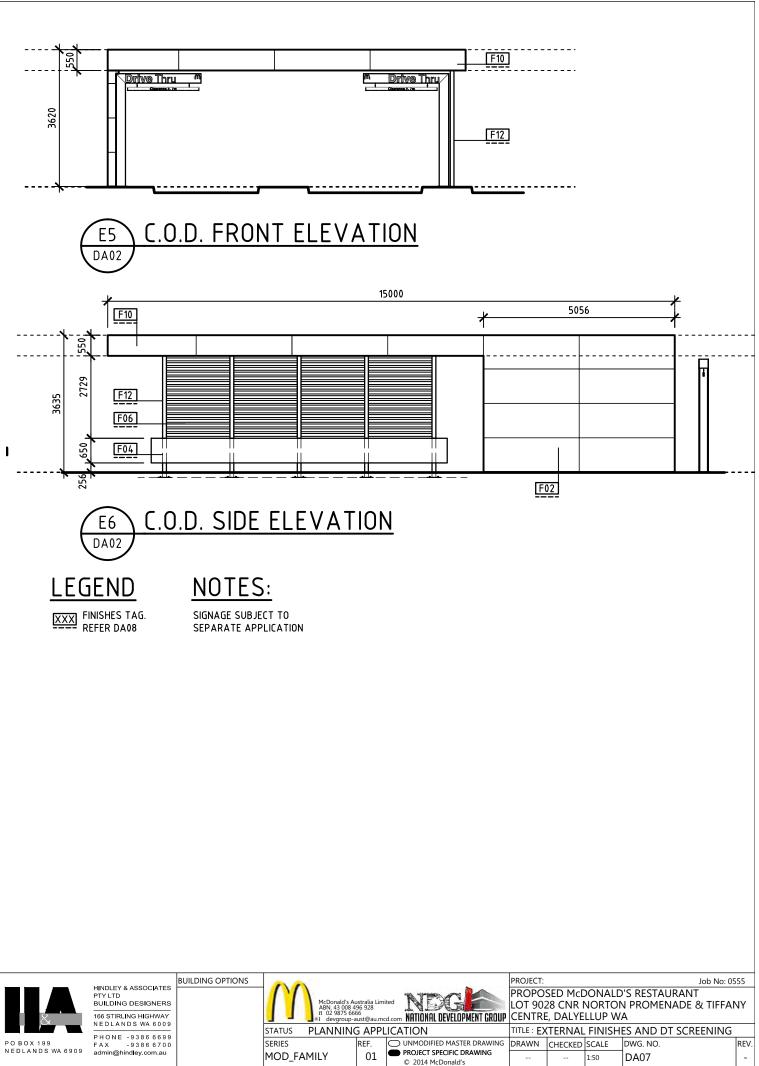


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TAG	AREA	DESCRIPTION	COLOUR
F01	MAIN BUILDING WALLS, DRIVE THRU WALLS (REFER ELEVATION FOR EXTENT OF ALT. COLOUR).	COMPRESSED FIBRE CEMENT WITH APPLIED FINISH.	DULUX COLOUR: WAYWARD GREY PG1G8.
F02	DRIVE THRU FEATURE/SCREEN WALL.	COMPRESSED FIBRE CEMENT WITH APPLIED FINISH.	DULUX COLOUR: VIVID WHITE PCWB4/PW1H9.
F03	GOODS ENTRY DOOR AND FREEZER HATCH.	METAL LINED DOOR WITH PAINT FINISH.	DULUX COLOUR: WAYWARD GREY PG1G8.
F04	TERRACE BLADE WALLS, ORDER CANOPY SCREEN SILL AND CORRAL BLADE	COMPRESSED FIBRE CEMENT WITH APPLIED FINISH.	EXTERIOR GRADE TO MATCH DULUX COLOUR: McDONALD'S RED (HOT LIPS) R189, G0, B22.
F05	CORRAL WALLS/GATES AND PLAY PLACE WALLS.	DECOWOOD 200mm SHADOLINE UA6478 ALUMINIUM WEATHER- BOARD POWDERCOAT FINISH.	NATURAL CASUARINA
F06	CORRAL WALL BATTENS, CO2 / HELIUM ENCLOSURE DOORS AND ORDER CANOPY SCREEN.	POWDERCOATED ALUMINIUM DECOWOOD SLATS -65x16x1.2 RHS	NATURAL CASUARINA
F07	DRIVE THRU COLUMNS EXPOSED STEELWORK.	STEEL FRAMING TO STRUCTURAL ENGINEER'S DETAIL.	EXTERIOR GRADE TO MATCH DULUX COLOUR: McDONALD'S RED (HOT LIPS) R189, G0, B22.
F08	DRIVE THRU BOOTH BENCH TOP/TURN DOWN AND WINDOW TRIM.	STONE.	BLACK STONE
F09	TERRACE	ALUMINIUM FRAMED WITH 10mm THICK GLAZING	NATURAL ANODISED FRAMES
F10	TERRACE AND DRIVETHRU CANOPY FASCIAS AND DRIVE THRU WALL	COMPRESSED FIBRE CEMENT WITH APPLIED FINISH.	DULUX COLOUR: VIVID WHITE PCWB4/PW1H9.
F12	TERRACE AND DRIVE THRU CANOPY EXPOSED STEELWORK.	STEEL FRAMING TO STRUCTURAL ENGINEER'S DETAIL.	DULUX COLOUR: BLACK
F13	ALUMINIUM WINDOW AND DOOR FRAMES.	PREFABRICATED ALUMINIUM FRAMING.	NATURAL FINISH CLEAR ANODISED
F14	SIGNAGE ACCENT STRIP.	COMPRESSED FIBRE CEMENT WITH APPLIED FINISH.	EXTERIOR GRADE TO MATCH DULUX COLOUR: McDONALD'S RED (HOT LIPS) R189, G0, B22.
F15	TERRACE SCREEN	POWDERCOATED ALUMINIUM DECOWOOD	NATURAL ANODISED FRAMES
F16	BUILDING PARAPET WALLS	POWDERCOATED ALUMINIUM DECOWOOD	NATURAL ANODISED FRAMES
F17	TERRACE FASCIA	COMPRESSED FIBRE CEMENT WITH APPLIED FINISH.	EXTERIOR GRADE TO MATCH DULUX COLOUR: McDONALD'S RED (HOT LIPS) R189, G0, B22.
F18	MAIN BUILDING PARAPET CAPPING, DOWNPIPES AND OVERFLOW PIPES.	ZINCALUME	DULUX COLOUR TO MATCH WALL BEHIND/BELOW.



ISSUE AMENDMENT	DATE	INT	NOTES.
			DO NOT SCALE THIS DRAWING. THE DRAWING SHOWS DESIGN INTENT ONL' ALL DIMENSIONS TO BE CHECKED ON SITE PRIOR TO CONSTRUCTION OR PRODUCTION CONSTRUCTION DETAILS TO BE CONFIRMED BY CONTRACTOR (MANUFACTURE). THIS IS A COMPUTER GENERATED DRAWING DO NOT AMEND BY HAND.

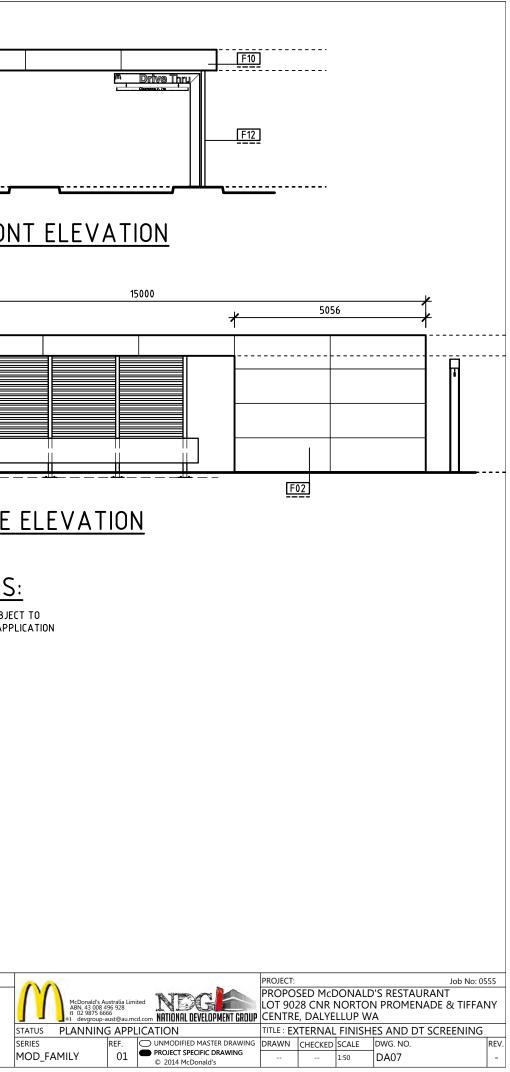
4. FIGURE DIMENSIONS ARE TO BE USED. CONTACT ARCHITECT FOR CLARIFICATION IF DIMENSIONS ARE NOT CLEAR. DO NOT SCALE THIS DRAWING. THE DRAWING SHOWS DESIGN INTENT ONLY. ALL DIMENSIONS TO BE CHECKED ON SITE PRIOR TO CONSTRUCTION OR PRODUCTION. CONSTRUCTION DETAILS TO BE CONFIRMED BY CONTRACTOR /MANUFACTURER.

ALL DISCREPANCIES AND OMISSIONS ON SITE MUST BE REPORTED TO THE ARCHITECT FOR THEIR COMMENTS OR APPROVAL PRIOR TO COMMENCING WORK.

6. ALL DIMENSIONS ARE IN MILLIMETERS









Form 1 - Responsible Authority Report

(Regulation 12)

Property Location:	Lot 9028 Norton Promenade, Dalyellup		
Application Details:	Take-Away Food Outlet		
DAP Name:	South –West JDAP		
Applicant:	McDonalds Australia Limited C/o Urbis		
Owner:	Dalyellup Beach Pty Ltd		
LG Reference:	C5.2.D.99		
Responsible Authority:	Shire of Capel		
Authorising Officer:	Kim Muste – Senior Strategic Planning Office		
Department of Planning File No:	DAP/15/00723		
Report Date:	24 th April 2015		
Application Receipt Date:	16 March 2015		
	Amended Plan DA2 received 2 nd April 2015		
Application Process Days:	60 Days		
Attachment(s):	1. Dalyellup District Centre Outline		
	Development Plan		
	2. Dalyellup District Centre Detailed		
	Area Plan No.1 Precinct A, B &D (East)		
	3. Development Plans DA01		
	(location plan) to DA07 inclusive		
	and 7 graphic design renderings		
	(not numbered)		

Recommendation:

That the South-West Joint Development Assessment Panel resolves to:

Approve DAP Application reference No. 15/00723 and accompanying plans DA02 (amended as received 2nd April 2015), DA03, DA04, DA05, DA06, DA07 in accordance with Clauses 8.3 and 8.10.1 of the Shire of Capel Town Planning Scheme No.7, subject to the following conditions:

General Conditions:

- 1. This approval is for Planning Consent only and is valid for two (2) years from the date of the decision. If the approved development is not substantially commenced within the two (2) year period, the approval shall lapse and be of no further effect.
- 2. The approved development shall be undertaken and fully implemented in accordance with the approved plan(s).
- 3. A separate application for Planning Consent for Advertising signage is required.

Prior to Commencement of Development Conditions:

4. Before development commences a shared access way and crossover (corresponding to Internal Road #1 as notated on the approved plans DA2) shall be designed, approved by the Shire of Capel, constructed and covered

by a registered Easement in Gross on the certificate of title. The design and location of the shared access way and crossover shall include finished ground levels and drainage that demonstrate suitable shared access arrangements and vehicle manoeuvrability for the development.

- 5. A site plan showing finished ground levels, pavement levels and finished floor levels is to be submitted for assessment and approval by the Shire Capel prior to submission of a Building Permit application. The finished ground levels shall conform to the overall earthworks design levels for the subdivision by which proposed Lot 6023 is to be created.
- 6. A Landscape Plan is to be submitted for assessment and approval by the Shire of Capel prior to commencement of development. The Landscaping Plan is to be implemented and maintained for the life of the development and shall include:
 - A paved pedestrian path between the northern façade of the building and car parking bays.
 - A paved pedestrian path within the landscaped area on the western boundary.
 - Landscaping of the site and adjoining road verge on Tiffany Centre between the property boundary and existing pedestrian path shall be consistent with the Dalyellup District Centre Landscape Master Plan.
- 7. A schedule of materials colours and finishes is to be submitted with the Building Permit application for assessment and approval by the Shire of Capel.
- 8. A Stormwater Management Plan is to be submitted for assessment and approval by the Shire of Capel prior to submission of a Building Permit application.
- 9. A Daily Operation Management Plan is to be submitted for assessment and approval by the Shire of Capel prior to submission of a Building Permit application, and thereafter the plan shall be implemented at all times to the satisfaction of the Shire of Capel.
- 10. A Construction Management Plan is be submitted for assessment and approval by the Shire of Capel prior to submission of a Building Permit application.
- 11. All off-street parking and access thereto shall comply with Australian Standard 2890.1 to the satisfaction of the Shire of Capel. Construction plans shall be submitted for assessment and approval by the Shire of Capel prior to submission of a Building Permit application.

Prior to Occupation/Use of Development Conditions:

12. A Waste Management and Recycling Plan is to be submitted for assessment and approval prior to occupation of the premises and thereafter the plan shall be implemented at all times to the satisfaction of the Shire of Capel.

- 13. The installation of outdoor lighting shall be in accordance with the requirements of the Australian Standard AS 4282-1997: 'Control of the Obtrusive Effects of Outdoor Lighting'.
- 14. The provision of 38 car parking bays (inclusive of two (2) waiting car parking bays and one (1) disabled car parking bay) and vehicle manoeuvring areas being constructed, drained, marked out and maintained to the satisfaction of the Shire of Capel for the life of the development. Where parking spaces adjoin pedestrian paths wheel stops shall be provided.
- 15. Bicycle parking bays at the rate of 1 per 200m2 GLA designed to comply with Australian Standard 2890.3 are to be provided on site clear of any vehicular carriageways. Details of the bicycle parking shall be submitted to the Shire of Capel for assessment and approval prior to construction commencing.

Advice Notes:

- The design and construction of the required shared access way with Easement in Gross is required to provide vehicular access to the development site. Part Lot 9028 is subject to conditional subdivision approval WAPC Ref: 149334 where the subdivider is proposed to construct the required shared access way with Easements in Gross and upon doing so the Planning Consent condition would be fulfilled.
- 2. The Landscape Plan is to detail the following:
 - a. Those areas to be reticulated.
 - b. Verge Treatments.
 - c. Species Types and numbers.
 - d. Lighting to pathways, communal space and parking areas.
 - e. Outdoor furniture, bin enclosures and pavement treatments.
 - f. Measures to be taken to ensure that trees and shrubs planted will thrive and be maintained in a healthy state for the life of the development.
 - g. Pedestrian path linkages.
- 3. The Stormwater Management Plan is to detail the following:
 - a. Catchments, flow paths, water quality improvement measures, area calculations and design criteria demonstrating that all stormwater from a 1year ARI can be retained on site and infiltrated.
 - b. Overflows from soak wells and/ or rain gardens are to enter the road pipe network by a direct piped lot connection with a capacity for a 10year ARI.
 - c. Events beyond a 10year ARI are to be directed to the road by overland flow.
 - d. Mosquito breeding control measures where stormwater infrastructure is likely to result in standing water that will provide breeding habitat.
- 4. Stormwater drainage levels should have regard to the invert level of a pipe connection for stormwater to be directed to the public road drainage pipe network. The Stormwater Management Plan should be in accordance with Shire of Capel information sheet "Specifications for Stormwater" and incorporate the principles and guidelines set out in the WAPC Guidelines for

Better Urban Water Management and the Department of Water Stormwater Management Manual for Western Australia.

- 5. Proposed Lots 6020, 6021, 6022 and 6023 have been supplied with a 225mm diameter pipe connection to the Shire's stormwater system. The 1st 10mm of stormwater flow must be detained onsite with the remainder flowing to the Shire drainage system via a Gross Pollutant Trap. For proposed Lot 6023 the minimum height of overland flows exiting the site must be 7.64 AHD.
- 6. The Construction Management Plan is to detail how the following matters are to be managed:
 - a. Access to and from the site;
 - b. The delivery of materials and equipment to the site;
 - c. The storage of materials and equipment on the site;
 - d. Other matters likely to impact on surrounding properties;
 - e. The parking arrangements for contractors and subcontractors;
 - f. Management of construction waste; and
 - g. Dust mitigation.
- 7. The Waste Management Plan is to address the following:
 - a. The location of bin storage areas and bin collection areas;
 - b. The number, volume and type of bins, and the type of waste to be placed in the bins. This is to include measures that will support recycling:
 - c. Management of the bins and the bin storage areas, including cleaning, rotation, moving bins to and from the bin collection areas and actions to contain and clean any spillage of waste or other materials; and
 - d. Frequency of bin collections.
- The carpark standards applied to proposed Lots 6020, 6021, 6022 and 6023 have been assessed as requiring user class classification 3A in accordance with Australian Standard AS/NZS 2890.1. The Class 3A option of 2.6m x 5.4m bays with aisle width of 6.6m has been applied to the proposed lots and subject land.
- 9. In relation to signage:
 - a. Requirements for an application for approval of Advertising signage are set out in Clause 7.12 of Town Planning Scheme No 7 and the Shire of Capel Signs Local Law 2001.
 - b. Signage is to comply with the Dalyellup District Centre Signage Strategy and Dalyellup District Centre Detailed Area Plan No.1.
- 10. In relation to Building:
 - a. Compliance with the Building Act 2011, Building Regulations 2012 and the Building Code of Australia will be required. Advice should be sought from a registered building surveying contractor in order to obtain the appropriate certificates for building permit and occupancy permit applications.

- b. If the project requires Fire Hydrants, the sites water pressure and flow test results will need to be established at the point of proposed water main access.
- c. AS 2419 covers installation details and minimum required pressure and flow rates for fire hydrants. If minimum requirements cannot be obtained at the point of supply, the design of pumps and tanks would need to be considered.
- 11. In relation to Environmental Health Advice:
 - a. Compliance with the AS 4674-2004 will be required to meet the requirements of the National Food Safety Standards 3.2.3.
 - b. Compliance with the Environmental Protection (Noise) Regulations 1997 is required.
 - c. Contact Council's Health Services to obtain the Food Act 2008 Food Business Notification/Registration Form.
- 12. A Sustainability Implementation and Outcomes Plan is in the process of being prepared for the Dalyellup District Centre as a requirement of the Dalyellup District Centre Outline Development Plan. This plan will encourage landowners of commercial premises, business proprietors and/or tenants to consider and implement a range of sustainability initiatives and practices. The applicant is encouraged to consider sustainable development initiatives including the Sustainability Implementation and Outcomes Plan when it is available. Notwithstanding this, the applicants are invited to demonstrate sustainability measures that will be incorporated into the project.
- 13. The applicants are encouraged to provide a number of bicycle parking bays in excess of Australian Standard 2890.3.

Background:

Property Address:		Lot 9028 Norton Promenade, Dalyellup		
Zoning	GBRS:	Urban		
	TPS:	Urban Development Zone (Development		
		Precinct 1)		
Use Class:		Take-Away Food Outlet		
Strategy Policy:		District Centre (under Dalyellup East Local		
		Structure Plan) Retail Centre Core (under		
		Dalyellup District Centre ODP)		
Development Scheme:		Shire of Capel Town Planning Scheme No 7		
Lot Size:		31.826ha		
Existing Land Use:		Vacant		
Value of Development:		\$3.1million		

Site Context

- The application site is within the developing Dalyellup District Centre.
- Comprehensive planning including a Local Structure Plan, Outline Development Plan and Detailed Area Plan are in place to facilitate and guide development within the District Centre.
- A current subdivision approval of the subject land applies that will create four individual freehold lots fronting Norton Promenade, including creation of a separate lot, the subject of the Development Application. The subdivision has yet to be fully constructed and cleared to the issue of titles.
- The main street of the District Centre is nearing completion and a supermarket (Woolworths) with a range of tenancies opened in mid-April 2015.
- The Development Application site area is vacant, devoid of natural vegetation and subject to subdivision works.

Details: outline of development application:

Approval is sought for a Take-Away Food Outlet with a Drive Through facility comprising the following key components:

- Indoor dining area (McDonalds Restaurant) seating 104 persons incorporating Sales and Service counter and Café.
- Covered outdoor terrace eating area seating 31 persons.
- Separate playground and party room.
- Kitchen, preparation and food storage areas.
- Bathroom and toilet facilities.
- Staff facilities including Manager's office.
- Storage area.
- Corral for servicing, waste and storage.
- Dual lane covered Drive-Through facility with associated vehicle queuing/stacking to accommodate 13 cars.

- 38 dedicated car parking bays comprise 30 fixed bays for customers, 2 waiting bays and 6 bays for staff.
- Hours of operation proposed are 24hours a day, seven days a week.
- · Landscaping works.
- Access to the proposed development will be from Tiffany centre via internal access ways with easement over adjoining Lot 5001 and existing Lot 9028 (or future proposed lots 6022 and 6023 following the issue of titles related to a current subdivision approval).
- Gross Floor Area (GFA) for the building is 620m² in addition to the covered Drive Through facility.

Proposed advertising signage shown on the submitted plans and graphics do not form part of the application.

Legislation & policy:

Legislation

- Greater Bunbury Region Scheme.
- Shire of Capel Town Planning Scheme No.7 (Scheme).

State Government Policies

- Activity Centres for Greater Bunbury Policy.
- Greater Bunbury Strategy 2013

Local Plans and Policies

- Dalyellup East Local Structure Plan (DELSP) The subject land is within a designated District Centre.
- Dalyellup District Centre Outline Development Plan (DDCODP) The subject land is located within Precinct B Business. Clause 1.5.4 lists Take Away Food Outlet (excluding drive through fast foods) as a "P" Permitted Land Use within Precinct B. The ability for Council to consider a Take Away Food Outlet with a Drive Through facility has been separately addressed by modification to an applicable Detailed Area Plan.
- Dalyellup District Centre Detailed Area Plan No.1 Precincts A, B, and D (East) (DAP1) – DAP1 was adopted by Shire of Capel 16th March 2015 in accordance with clause 1.2.7 of the DDCODP. DAP1 provides for minor modifications to the DDCODP including:
 - A Drive Through facility is permitted in conjunction with Take Away Food Outlets on nominated sites, in variance to clause 1.5.4 of the DDCODP.
 - Measures to ensure the first stage of development and subsequent stages have co-ordinated constructed vehicle access ways with easements and pedestrian access.

Subdivision Approval:

- Lot 9028 is subject to subdivision approval (WAPC Ref:149334) that will create 4 freehold lots including a separate Lot 6023 for the proposed development. As of April 2015 subdivision works have not been completed or subdivision clearances achieved for the issue of titles.
- Vehicle access to the individual lots (including proposed Lot 6023) is to be via a series of coordinated main and secondary internal shared access ways subject to Easements in Gross to control vehicular movements and provide access to the public road network.
- Vehicle access for the proposed development (and proposed Lot 6023) is to be provided as follows:
 - In accordance with DAP1 direct vehicle access to Norton Promenade and Tiffany Circle is not permitted.
 - A shared access way along the southern boundary of the proposed lot has been constructed.
 - A shared access way within proposed adjoining Lot 6022 is required and has not been constructed. Potential exists that this access way will be constructed prior to determination of the application or prior to the issue of a Building Permit.

Consultation:

- External public consultation or referral to other agencies is not required.
- Relevant to the application, DAP1 was advertised for a period of 28 days from the 6/11/2014 to 5/12/2014 to introduce the permissibility for a Drive Through facility permitted in conjunction with Take-Away Food Outlet on the application site in variation to Clause 1.5.4 of the DDCODP. Only two submissions where received during the DAP1 consultation period and matters raised were addressed via additional and revised clauses in relation to signage and access.
- Pre-lodgement consultation between the applicant and Shire officers occurred resulting in refinements to the building layout, elevations, integrated signage panel, car parking and access way specifications.

Planning assessment:

Land Use Permissibility

A Take Away Food outlet with Drive Through facility is permitted in accordance with DAP1 as a variation to the DDCODP.

Building location

Proposed buildings including the separate covered Drive Through facility are located in general compliance with indicative building locations shown within DAP1.

Built form

Clause 1.3.2.3 of the DDCODP sets out general objectives for Built Form within the District Centre. The application includes elevation drawings and a schedule of materials and colours that confirms acceptable built form, building materials and colours in accordance with the objectives of the DDCODP.

Pedestrian Walkways and Landscaping

In accordance with Clause 1.5.5.2 of the DDCODP:

"A covered pedestrian walkway should be provided to the façade of buildings fronting Norton Promenade and to public streets and public car parking areas."

The application provides for a vegetated landscape bed along a portion of the northern façade of the building that limits pedestrian access from the car park. To improve pedestrian connectivity within the proposed development and to adjoining development the Landscape Plan condition includes requirements for a paved pedestrian path along the northern façade of the building and within the landscape area along the western boundary of the development site.

Only the main public entry to the building, notated as the "Terrace" is covered. The Terrace area is partially enclosed and provides for outdoor seating in addition to shelter depending on weather conditions. Subject to the additional recommended pedestrian path along the northern façade, this outcome is supported due to the extent of shelter provided.

Clause 7.10(f) of the Scheme requires a minimum 2m wide landscaping strip between car parking areas and adjoining street boundaries. The application provides for a landscaping strip along the Norton Promenade frontage of less than 2m (1.35m) and a section fronting Tiffany Centre of varying width. A development standard variation in accordance with Clause 8.10.1 of the Scheme (Relaxation of Standards) is acceptable to allow frontage landscaping as proposed based on the overall level of landscaping proposed.

Vehicle access

Development approval conditions and advice in relation to construction of shared access ways with Easements in Gross are recommended to ensure provision of vehicle access and coordination of proposed development based on yet to be finalised subdivision requirements.

Parking and vehicle queuing

Relevant DDCODP parking requirements include:

- In accordance with the DDCODP and Scheme the number of car parking bays required for the development is at the discretion of Council.
- Clause 1.3.4 a) General Development Standards states;"On street car parking immediately adjoining the site can be included in calculating car parking provision." As no on street car parking is available immediately adjoining the subject development site, Clause 1.3.4a) does not apply.

A Parking Management Strategy is to be prepared by the subdivider for the District Centre. As a Parking Management Strategy has yet to be prepared the provision of parking for the proposal is assessed on the merit of the application. As the development site has no frontage to the Main Street and has no abutting on street parking it is expected that the Parking Management Plan will not provide car parking concessions for the site.

Car parking and vehicle queuing provided by the proposal is acceptable based upon:

- As a guide, a Restaurant with a seating capacity of 135 people comparable to that proposed development would require in accordance with Appendix 8 of the Scheme the provision of 34 car parking bays (based on 1 bay per 4 seats).
- The proposal provides 38 dedicated car parking bays comprise 30 fixed bays for customers, 2 waiting bays and 6 bays for staff. This proposed parking provision is in excess of the above guide of car parking 34 bays.
- The dual lane Drive Through provides adequate space for vehicle queuing/stacking to minimise blocking of proposed onsite car parking bays.
- The proposal provides a bike rack for 4 bicycles close to the building entry.
- Amended plan DA2 confirms compliance with Australian Standard AS/NZS 2890.1 user class classification 3A applied to the approved subdivision in order to design the required shared access way system (6.6m width) and associated car parking (5.4m x 2.6m). This approach is supported as an improvement and variation to the Scheme car parking layout standards and as such a development standard variation in accordance with Clause 8.10.1 of the Scheme (Relaxation of Standards) is acceptable as reflected in the recommendation.

Trading Hours

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The location of the proposal within a District Centre and on the main access to the centre is appropriate for consideration of extended trading hours. Residents within the District Centre would generally expect a higher and different level of activity and amenity in comparison to more isolated residential development cells.

Land opposite the subject land on the northern side of Norton Promenade is also within the District Centre, proposed for residential and mixed use development in close proximity to Bussell Highway. These proposed mixed use/residential lots fronting Norton Promenade have yet to be created. Identical mixed use/residential lots already created within the District Centre have to date only generated proposals for residential development. This outcome is anticipated to apply to proposed lots opposite the subject land.

A Detailed Area Plan (DAP) covering the proposed mixed use/residential lots directly opposite the subject land is in the process of being developed. Discussions by Shire officers with the subdivider/landowner of this land (currently the same as the subject land) have raised the need for the DAP to include the application of quite house design requirements to reflect the potential for extended trading hours and traffic

noise resulting from development within the district centre. This outcome has yet to be confirmed.

Extended trading hours for the Take Away Food Outlet has the capacity to aid surveillance and security of the proposed premises and surrounding area subject to compliance with the Environmental Protection (Noise) Regulations and a detailed Daily Operations Management Plan as a recommended condition of approval.

Management Plan

The application details that McDonald's prepares detailed management plans for all of its restaurants and an example is provided. A condition is recommended requiring a daily operations management plan to ensure safety, security and amenity for a 24/7 operation is provided.

Sustainability

Clause 1.3.2.5 of the DDCODP sets out guidelines for the achievement of sustainability outcomes and clause 1.3.6.1(g) lists a requirement for the owner (subdivider) of the District Centre land to prepare among other things a Sustainability Outcomes and Implementation Plan prior to subdivision of the land. At the time of preparing this assessment the plan has not been finalised. A related advice note has been recommended to encourage implementation of sustainable development initiatives.

<u>Signage</u>

Signage is to be the subject of a separate application to the Shire. The elevation plans with the application show signage for the development including a section of elevated wall panel for primary signage that is an integral component of the architectural design. In consultation with the applicant this outcome is supported as an alternative to a pylon sign not permitted by DAP1.

Conclusion:

The application demonstrates compliance with the adopted planning framework and is recommended for approval with appropriate conditions to ensure compliant implementation and ongoing operation occurs.

