

Sunshine Coast University Hospital PPP
Kawana Way
Birtinya
Queensland 4575 Australia

Exemplar Health
c/- Capella Capital
AMP Centre, Level 31, 50 Bridge Street
Sydney
NSW 2000 Australia
Ph +61 2 82243888

MAIL TYPE	MAIL NUMBER	REFERENCE NUMBER
Notice	EXH-NOTICE-000040	EXH-NOTICE-000040

Notification of the Occurrence of an Event - Insurance Policy

From Bianca Jones - Exemplar Health


To (2) SCUH Project Director - Queensland Health - Capital Delivery Program
Roseanne Jennings - Queensland Health - Capital Delivery Program

Cc Mr Pat Coleman - Exemplar Health

Sent Monday, 19 October 2015 5:32:44 PM EST (GMT +10:00)

Status N/A

File Attachments (1)

- File Name
-  SCUH - EH Letter to the State Clause 49.pdf

Attributes

Attribute 1 Administration

Attribute 2 Project Wide

Message

Roseanne

Please find attached a Notice from the Project Co Representative, thank you.

Regards,

Bianca Jones | Development Co-ordinator

Sunshine Coast University Hospital Site Office
Gate 7 South Street, Birtinya QLD 4575 Australia

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RTI RELEASE

19 October 2015

Ms Roseanne Jennings
Executive Project Director
Sunshine Coast University
Hospital Project
K1 Building, Ground Floor,
16 Innovation Parkway
Birtinya QLD 4575
Sent via Aconex: Notice

Dear Roseanne

SUBJECT: SUNSHINE COAST UNIVERSITY HOSPITAL PROJECT: NOTIFICATION OF OCCURRENCE OF AN EVENT – INSURANCE POLICY

In accordance with Clause 49.7(c), Project Co hereby notifies the State of the occurrence of an event which would or might entitle Project Co to make a claim under the Insurance Policy.

Details of the event are as follows:

Date: 16 October 2015

Description: A storage tank carrying approximately 2.7 mega litres of water ruptured adjacent to Kawana Way. As a result, water and debris spilled across the Kawana Way and associated damage to the Works.

Project Co is taking all necessary steps to ensure that its rights, and the rights of any other persons to whom the benefit of the Insurance Policy may extend in respect of this claim, are fully preserved.

Should you have any queries or questions in relation to this matter please do not hesitate to contact me on Pat.Coleman@exemplarhealthscuh.com.au

Yours sincerely



Pat Coleman
Exemplar Health
Project Co Representative

Sunshine Coast University Hospital PPP
Kawana Way
Birtinya
Queensland 4575 Australia



MAIL TYPE
General Communication

MAIL NUMBER
QHP-GCOM-005927

REFERENCE NUMBER
QHP-GCOM-005927

SCPUH TES - Tank failure

From Mr Don Glynn - Queensland Health - Capital Delivery Program

To Ms Elizabeth Coe - Umow Lai & Associates

Cc (9) This Part Out of Scope of Application App

Roseanne Jennings - Queensland Health - Capital Delivery Program

Mr Andrew Leggate - Queensland Health - Capital Delivery Program

Mr Cyriac Mukkada - Queensland Health - Capital Delivery Program

Chris Anderson - Umow Lai & Associates

Mr Andrew Jenkinson - Umow Lai & Associates

Mr Brian McDonnell - Umow Lai & Associates

Mr Martin O'Connor - Wood & Grieve Engineers

This Part Out of Scope of Application App

Sent Monday, 19 October 2015 11:24:37 AM EST (GMT +10:00)

Submit comments by 23/10/2015

Status Responded

File Attachments (1)

File Name

 From CP1.JPG

Attributes

Attribute 1 Mechanical

Attribute 2 Facility Management Centre

Message

Elizabeth,

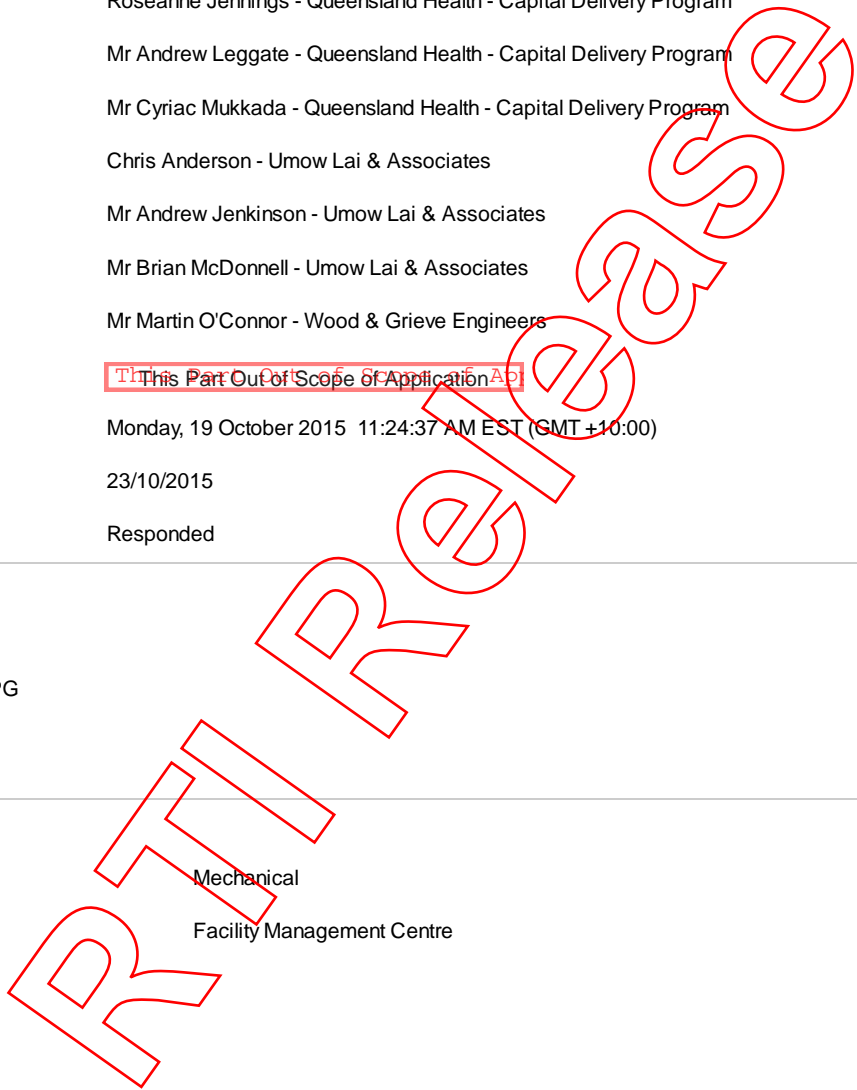
No doubt you would have heard by now that one of the TES tanks failed completely at 4pm on Friday after having been filled that day. The second tank suffered structural damage and is likely to be removed as well. The FMC suffered some external and internal damage and CP1 has some minor external damage as does the surrounding area. The full extent of the damage will not be determined for some time but we will keep our Advisors informed whenever we receive updates.

I have attached a picture for your information only and so that you can appreciate the extent of damage. It must not be distributed or used in any way other than for the intended purpose of this correspondence.

What we need to do now is start assessing the immediate and or long term impacts to program, commissioning strategies (ie temporary cooling to ICT rooms), design options (ie less TES, different tank design etc) and recurrent costs (ie no TES on Day 1). Can I ask that your team start to think about these things as we will be presented with options by EH to assess and we want to be ready with our own assessment and views on what options should be considered both immediately, in the interim and of course long term.

Regards,

Don



Don Glynn
Engineering and Technical Director
Sunshine Coast University Hospital Project

Health Infrastructure Branch | System Support Services | Queensland Health

Ground Floor - K1 | 16 Innovation Parkway | BIRTINYA QLD 4575

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RTI Release

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It will be interesting to see how much access of Scope get to the exclusion zones. We were kept out of the FMC albeit LL reported minimal damage to internal spaces.

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This Part Out of Scope of Application

Talk soon, RJ

Sent from my BlackBerry 10 smartphone on the Telstra NextG network.

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To: Roseanne Jennings; Tom Kirkland

This Part Out of Scope of Application

This Part Out of Scope of Application

Hi Roseanne and Tom,

Attached is a preliminary advice regarding the tank rupture incident and the notice received from EH earlier today.

I will give you a call tomorrow to discuss.

Regards,

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Redact Page

Pages 9 through 14 redacted for the following reasons:

This Part Out of Scope of Application

RTI Release

Sunshine Coast University Hospital PPP
Kawana Way
Birtinya
Queensland 4575 Australia



MAIL TYPE
General Communication

MAIL NUMBER
ULA-GCOM-000701

REFERENCE NUMBER
ULA-GCOM-000701

RE: Failed Chilled Water Tank Comments

From Mr Brian McDonnell - Umow Lai & Associates
To Roseanne Jennings - Queensland Health - Capital Delivery Program
Cc (4) Mr Don Glynn - Queensland Health - Capital Delivery Program
Chris Anderson - Umow Lai & Associates
Ms Elizabeth Coe - Umow Lai & Associates
Mr Andrew Jenkinson - Umow Lai & Associates
Sent Wednesday, 21 October 2015 9:30:47 AM EST (GMT +10:00)
Status N/A

Attributes

Attribute 1 HVAC Equipment
Attribute 2 Facility Management Centre

Message

Roseanne,
Please find below some initial, bullet point, comments on the chilled water tank failure.
Effect on Hospital Operation

This Part Out of Scope of Application
This Part Out of Scope of Application

Information required from Exemplar:

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This Part Out of Scope of Application

This Part Out of Scope of Application
This Part Out of Scope of Application

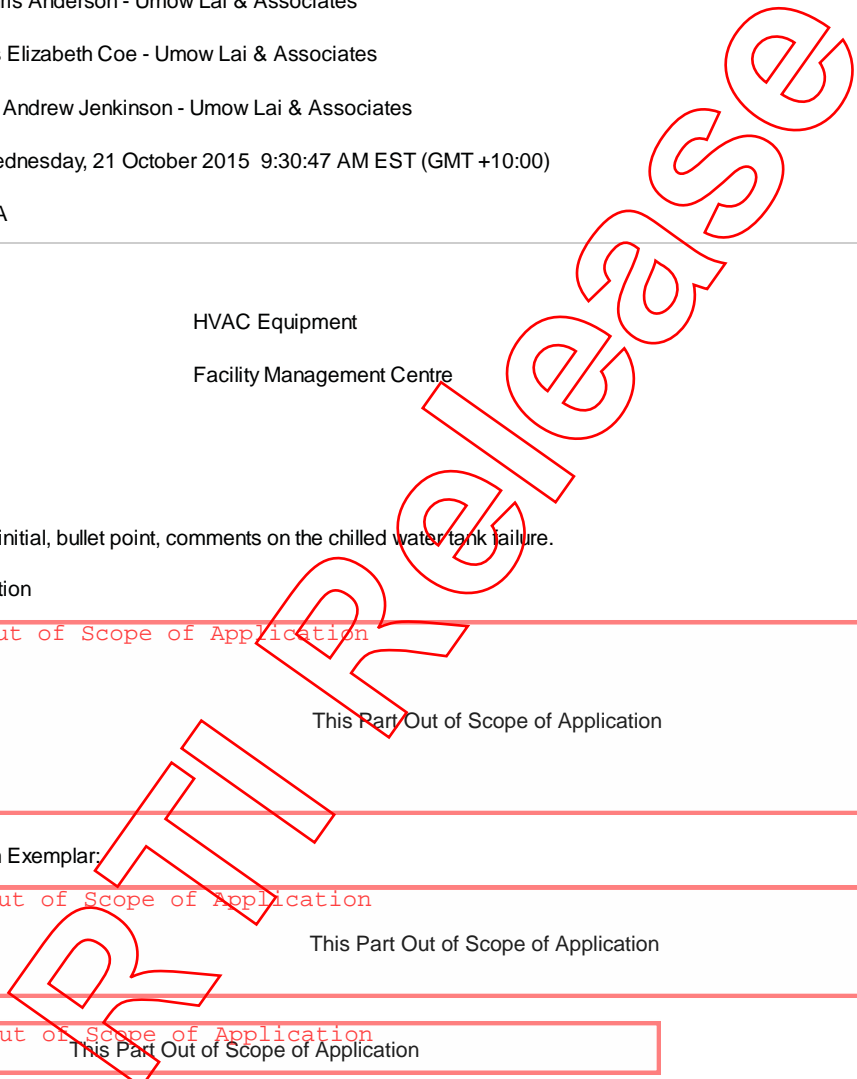
Preliminary identification of issues:

This Part Out of Scope of Application
This Part Out of Scope of Application

Any queries please let me know.

Regards,

Brian McDonnell | Associate Director
Umow Lai



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RTI Release

	Action/Notes	By Whom When
	<p>DG provided the following update on the recent site incident:</p> <ul style="list-style-type: none"> At around 4pm on Friday 16 October, one of the Thermal Energy Storage (TES) tanks located beside the FMC collapsed sending 2.4 million litres of water and debris across Kawana Way. All debris has since been removed and stored on site so an independent assessment can be undertaken to determine what caused the incident. One section of the tank is wrapped around the corner of the FMC and will remain there to assist investigators with their report. It may take up to 2 months before an interim report is provided outlining what may have occurred. Kawana Way will be closed again this weekend so the second TES tank can be removed due to the damage incurred. Nearby reclaimed water tanks have also been drained until the analysis on the cause of the incident is completed. This Part Out of Scope of Application This Part Out of Scope of Application to rectify will be undertaken shortly. Some damage has occurred to the FMC (Energex meter room, kitchen ceiling) and Lendlease will commence repairs to make good prior to the end of December. Commissioning of the FMC may be delayed but alternative options such as alternative temporary cooling solutions for ICT rooms will be implemented to continue facility commissioning overall. Damage to Carpark 1 includes part of a reinforced concrete wall being sheared off; damage to the UPS room; and adjacent pathways. The overall critical path for the project is being assessed, and until a final assessment report is received, it is too early to report on the likely impact(s) to the project. EHI have formally provided "Notification of Occurrence of an Event" as per the Project Deed, and the State will respond accordingly. Remedial works will be on hold until such time that the report is received outlining the cause of the tank failure. Lendlease are working with the family who were impacted by this incident. Full site works recommenced today. 	

Don Glynn

From: Graham, Nicky Out of Scope of Application@lendlease.com
Sent: Thursday, October 22, 2015 12:54 PM
To: Don Glynn
Subject: FW: SCPUH Incident - Updated Media Statement (Red)

Hi Don

Media statements below:

3.30pm 19 October

Safety is always our number one priority. The incident area has been deemed safe by Workplace Health and Safety and handed back to Lendlease. Our current focus is working towards re-opening the site. Once that has occurred, the incident will undergo thorough investigation of the root cause, underlying factors and corrective actions.

10.05am 17 October

The site is closed today and clean-up continues. The current plan is for a specialist long-reach excavator to disassemble pipework and scaffold adjacent to the tank. Safety remains our number one priority.

10.26pm 16 October

Tank engineers have inspected the second tank. It is empty and has been deemed safe. We have been in contact with the driver of the vehicle to ascertain how we can assist. Workplace Health and Safety are now onsite. The site will be closed tomorrow for further investigation. Clean-up of the area continues.

5.38pm 16 October

We are aware of an incident where a water tank has ruptured. Safety is our number one priority. We are currently working closely with emergency services.

Nicky Graham

Stakeholder Engagement Manager, Sunshine Coast Public University Hospital Project, Building
 Site Office: Gate 7 Barny Moy Road, Birtinya QLD 4575 Australia

This Part Out of Scope of Application

Out of Scope of Application Out of Scope of Application@lendlease.com | www.lendlease.com



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Sunshine Coast University Hospital PPP
Kawana Way
Birtinya
Queensland 4575 Australia



MAIL TYPE
Client Advice

MAIL NUMBER
QHP-CA-000279

REFERENCE NUMBER
EXH-NOTICE-000040

STATE RESPONSE: Notification of the Occurrence of an Event - Insurance Policy

From SCUH Project Director - Queensland Health - Capital Delivery Program
To (2) Mr Pat Coleman - Exemplar Health
Bianca Jones - Exemplar Health
Cc (2) Mr Don Glynn - Queensland Health - Capital Delivery Program
Roseanne Jennings - Queensland Health - Capital Delivery Program
Sent Thursday, 22 October 2015 3:41:25 PM EST (GMT +10:00)
Status N/A

File Attachments (1)

- File Name
- SH000721 Letter to EH re TES Tank Rupture.pdf

Attributes

Attribute 1 Administration
Attribute 2 Project Wide

Message

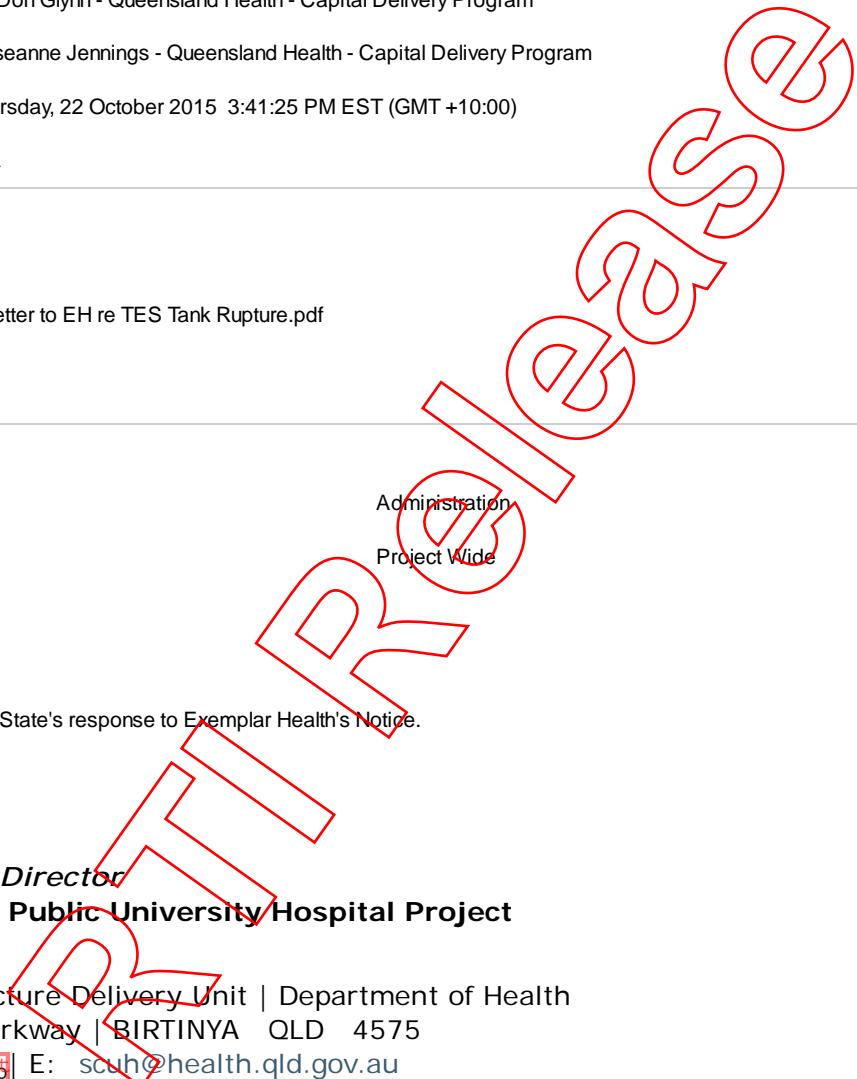
Dear Pat and Bianca
Please find attached the State's response to Exemplar Health's Notice.
Regards
Roseanne

SCPUH Project Director
Sunshine Coast Public University Hospital Project

Capital Infrastructure Delivery Unit | Department of Health
16 Innovation Parkway | BIRTINYA QLD 4575
P: This Part Out | E: scuh@health.qld.gov.au

From: B Jones
Sent: 19/10/2015 5:32:44 PM EST (GMT +10:00)
To: SCUH Project Director, Roseanne Jennings
Cc: Pat Coleman
Mail Number: EXH-NOTICE-000040
Subject: Notification of the Occurrence of an Event - Insurance Policy

Roseanne



Please find attached a Notice from the Project Co Representative, thank you.

Regards,

Bianca Jones | Development Co-ordinator

Sunshine Coast University Hospital Site Office
Australia

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This Part Out of Scope of Application

RTI Release

NOTES



Department of Health

Enquiries to: Don Glynn
Telephone: This Part Out of Scope of Application
Email: don.glynn@health.qld.gov.au
File Ref: SH000721

Pat Coleman
Chief Executive
Exemplar Health (SCUH) Partnership (Exemplar Health)
Level 31, 50 Bridge Street
SYDNEY NSW 2000

Issued via This Part Out of Scope of Application

Dear Pat

**Sunshine Coast Public University Hospital (SCPUH) Project
TES Tank Rupture & Clause 49.7(c) Notice**

We acknowledge receipt of your letter dated 19 October 2015 provided in accordance with clause 49.7(c) of the Project Deed that notified the State of the occurrence of an event which will or might entitle Exemplar Health (EH) to make a claim under the Insurance Policy.

EH has a separate obligation, under clause 50.1(a) of the Project Deed, to provide the State with a notice which identifies the damage or destruction to the Works and the location of such damage or destruction (Clause 50.1(a) notice). This notice must be provided at least 5 Business Days of EH becoming aware of any damage to or destruction of any part of the Works.

We note that the State has not yet received a Clause 50.1(a) notice from EH.

Clause 50.2(a) of the Project Deed requires the State, within 5 Business Days of receiving the Clause 50.1(a) notice, to notify EH whether it requires EH to rebuild or repair the Works on the basis of the same specifications as, or different specifications from, the original Works.

The State considers that this notification period does not provide it with adequate time to decide on which specifications EH should use to rebuild or repair the Works. Therefore, the State formally requests that EH agree, in writing, to suspend the notification period under clause 50.2(a) until a date to be agreed between the parties.

We look forward to receiving the Clause 50.1(a) notice as soon as possible and an acknowledgment that EH agrees to suspend the requisite notification period under clause 50.2(a).

This letter does not prejudice any of the State's other rights under the Project Deed.

Yours sincerely

Roseanne Jennings
Executive Project Director
22/10/2015

Office
Sunshine Coast Public University Hospital Project
Ground Floor, K1 Building
6 Innovation Parkway
BIRRIINYA Qld 4575

Phone This Part Out of Scope of Application **Fax**

Sunshine Coast University Hospital PPP
Kawana Way
Birtinya
Queensland 4575 Australia

Exemplar Health
c/- Capella Capital
AMP Centre, Level 31, 50 Bridge Street
Sydney
NSW 2000 Australia
Ph +61 2 82243888

MAIL TYPE	MAIL NUMBER	REFERENCE NUMBER
Notice	EXH-NOTICE-000041	EXH-NOTICE-000041

Notice of Delay in Progress - Tank Incident Clause 28.4

From Bianca Jones - Exemplar Health

To SCUH Project Director - Queensland Health - Capital Delivery Program

Cc (3) Mr Don Glynn - Queensland Health - Capital Delivery Program
Kate Gregson - Queensland Health - Capital Delivery Program
Roseanne Jennings - Queensland Health - Capital Delivery Program

Sent Friday, 23 October 2015 10:06:06 PM EST (GMT +10:00)

Status N/A

File Attachments (1)

- File Name
- SCUH - EH Letter to the State Clause 28.4 Tank Incident Notice of Delay in Progress of Combined Works.pdf

Attributes

Attribute 1 Administration

Attribute 2 Project Wide

Message

Roseanne

Please see attached a Notice from the Project Co Representative. Thank you.

Regards,

Bianca Jones | Development Co-ordinator

Sunshine Coast University Hospital Site Office
Gate 7 South Street, Birtinya QLD 4575 Australia

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RTI RELEASED

23 October 2015

Ms Roseanne Jennings
Executive Project Director
Sunshine Coast University
Hospital Project
K1 Building, Ground Floor,
16 Innovation Parkway
Birtinya QLD 4575
Sent via Aconex: Notice

Dear Roseanne

**SUBJECT: SUNSHINE COAST UNIVERSITY HOSPITAL PROJECT: NOTIFICATION OF
DELAY IN THE PROGRESS OF THE COMBINED WORKS**

In accordance with Clause 28.4 of the Project Deed, Project Co notifies the State that a delay in the progress of the Combined Works has or will occur which will delay or is likely to delay the achievement of Completion.

Nature and Cause of Potential Delay

On 16 October 2015, the thermal energy water storage tank located on the corner of the Facilities Management Centre, Kawana Way and Fenner Street (known as TES 1) ruptured, releasing approximately 2.7 million litres of water (Tank Incident). As a result of the Tank Incident, access to the Site was temporarily restricted.

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This Part Out of Scope of Application

Should you have any queries or questions in relation to this matter please do not hesitate to contact me on pat@exemplarhealthscuh.com.au

Yours sincerely



Pat Coleman

Sunshine Coast University Hospital PPP
Kawana Way
Birtinya
Queensland 4575 Australia


Exemplar Health
c/- Capella Capital
AMP Centre, Level 31, 50 Bridge Street
Sydney
NSW 2000 Australia
Ph +61 2 82243888

MAIL TYPE	MAIL NUMBER	REFERENCE NUMBER
Notice	EXH-NOTICE-000042	EXH-NOTICE-000042

Notice of Damage - Tank Incident Clauses 50.1(a) and 62.1(f)(4)

From Bianca Jones - Exemplar Health


To SCUH Project Director - Queensland Health - Capital Delivery Program

 Cc (7) Mr Terence Carroll - Exemplar Health
Mr Pat Coleman - Exemplar Health
Ms Sandra Hughes - Exemplar Health
Mr Phil Morrissey - Exemplar Health
Mr Don Glynn - Queensland Health - Capital Delivery Program
Kate Gregson - Queensland Health - Capital Delivery Program
Roseanne Jennings - Queensland Health - Capital Delivery Program

Sent Friday, 23 October 2015 10:15:11 PM EST (GMT +10:00)

Status N/A

File Attachments (1)

- File Name
-  SCUH - EH Letter to the State Clause 50.1 and 62.1(f)(4).pdf

Attributes

Attribute 1 Administration

Attribute 2 Main Hospital Building

Message

Roseanne

Please see Notice attached from the Project Co Representative.

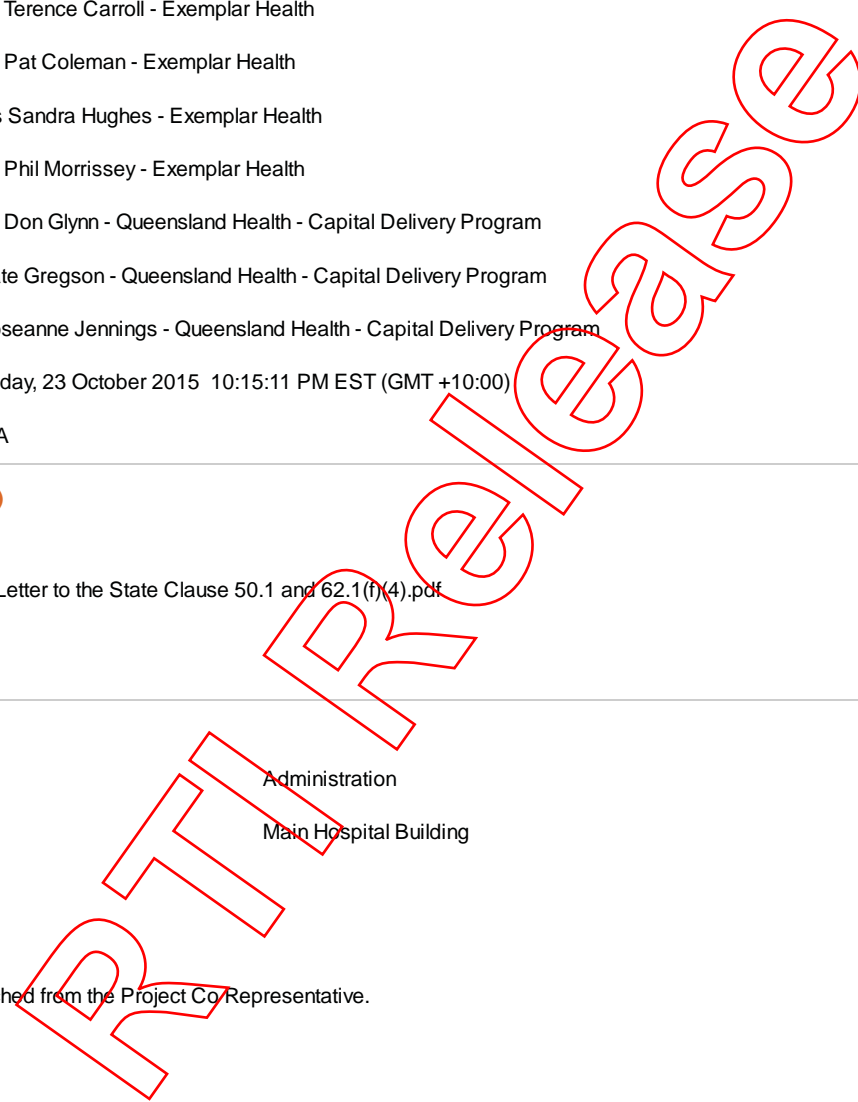
Regards,

Bianca Jones | Development Co-ordinator

Sunshine Coast University Hospital Site Office
Gate 7 South Street, Birtinya QLD 4575 Australia

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This Part Out of Scope of Application



23 October 2015

Ms Roseanne Jennings
Executive Project Director
Sunshine Coast University
Hospital Project
K1 Building, Ground Floor,
16 Innovation Parkway
Birtinya QLD 4575
Sent via Aconex: Notice

Dear Roseanne

SUBJECT: SUNSHINE COAST UNIVERSITY HOSPITAL PROJECT: NOTIFICATION OF DAMAGE TO PART OF THE WORKS

In accordance with Clause 50.1(a) and 62.1(f)(4) of the Project Deed, Project Co hereby notifies the State that damage has occurred to parts of the Works.

Identification and Location of Damage

On 16 October 2015, the thermal energy water storage tank located on the corner of the Facilities Management Centre, Kawana Way and Fenner Street (known as TES 1) ruptured, releasing approximately 2.7 million litres of water (**Tank Incident**).

As a result of the Tank Incident, damage was caused to parts of the Works. The full extent of the damage is currently being assessed by Lendlease, however, it can be broadly identified in the following locations:

1. Thermal Energy Storage (TES) Tank 1 & 2 and associated pipework

Extensive damage to both tanks.

2. Kawana Way in the vicinity of TES Tank 2

Damage to landscaping, footpaths, traffic signals, street lighting, road signage and asphalt.

3. Car Park 1

Damage to blockwork wall to UPS Room and to concrete wall.

4. Fenner Street

Damage to landscaping, footpaths and asphalt pavement.

5. Facilities Management Centre (FMC) Building

Damage to Energex metering room and equipment, northern façade to the building at Ground Level and Level 1, ground level dishwashing room and suspended services.

At this stage, Lendlease is working to understand the extent of the damage. We will provide the State with further information regarding our recommended plan for the rectification of the above damage as soon as practicable.

We acknowledge receipt of your letter dated 2 October 2015 ref:SH000721 and, in particular, the State's request to extend the period of time that the State has to respond to this notice under clause 50.2(a) of the Project Deed. Project Co is currently seeking the Contractor's consent in this regard in accordance with the relevant "back to back" terms of the Construction Contract and will respond shortly.

Should you have any queries or questions in relation to this matter please do not hesitate to contact me on Out of Scope of A

Yours sincerely



Pat Coleman
Exemplar Health
Project Co Representative

Sunshine Coast University Hospital PPP
Kawana Way
Birtinya
Queensland 4575 Australia

Exemplar Health
c/- Capella Capital
AMP Centre, Level 31, 50 Bridge Street
Sydney
NSW 2000 Australia
Ph +61 2 82243888

MAIL TYPE	MAIL NUMBER	REFERENCE NUMBER
Notice	EXH-NOTICE-000043	EXH-NOTICE-000043

Notice of Notifiable Incident WHS - Tank Incident Clause 2.10(l)

From Bianca Jones - Exemplar Health


To SCUH Project Director - Queensland Health - Capital Delivery Program

Cc (6)
 Mr Pat Coleman - Exemplar Health
 Ms Sandra Hughes - Exemplar Health
 Mr Phil Morrissey - Exemplar Health
 Mr Don Glynn - Queensland Health - Capital Delivery Program
 Kate Gregson - Queensland Health - Capital Delivery Program
 Roseanne Jennings - Queensland Health - Capital Delivery Program

Sent Friday, 23 October 2015 10:30:14 PM EST (GMT +10:00)

Status N/A

File Attachments (1)

- File Name
-  SCUH - EH Letter to the State Clause 2.10(l) Notice of Notifiable Incident.pdf

Attributes

Attribute 1 Administration

Attribute 2 Project Wide

Message

Roseanne

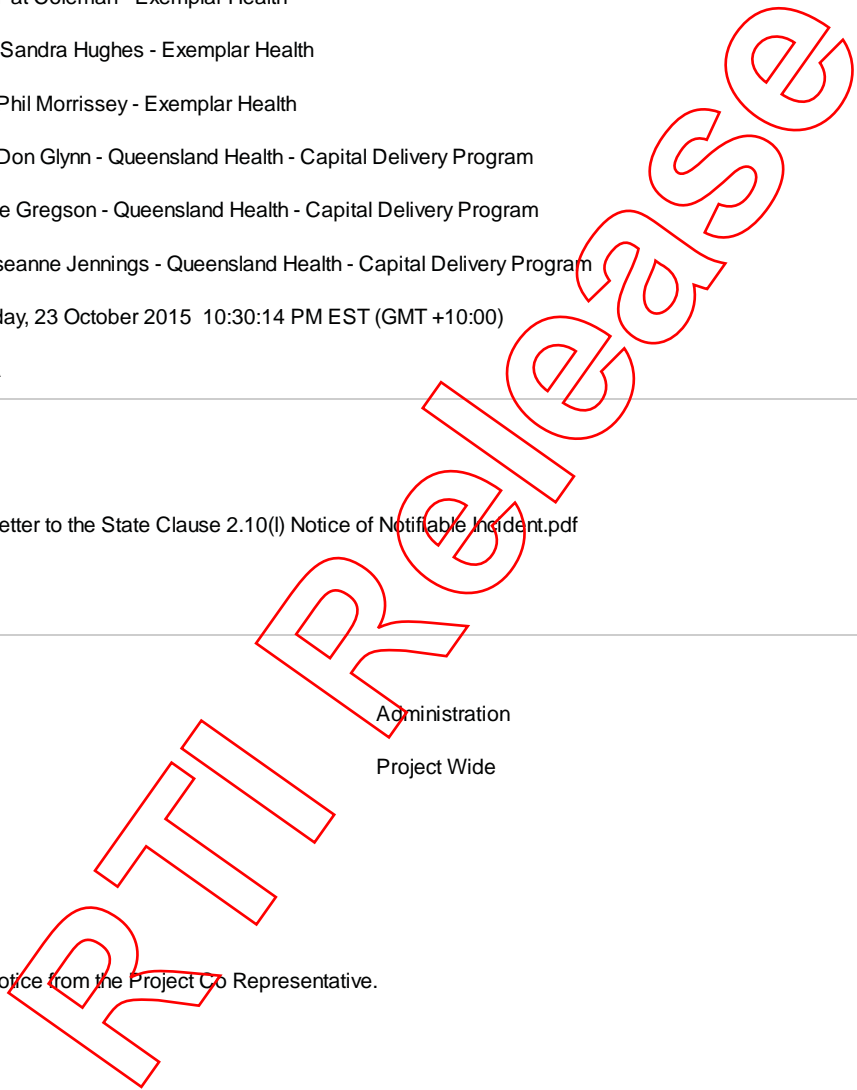
Please find attached a Notice from the Project Co Representative.

Regards,

Bianca Jones | Development Co-ordinator

Sunshine Coast University Hospital Site Office
Gate 7 South Street, Birtinya QLD 4575 Australia

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23 October 2015

Ms Roseanne Jennings
Executive Project Director
Sunshine Coast University
Hospital Project
K1 Building, Ground Floor,
16 Innovation Parkway
Birtinya QLD 4575
Sent via Aconex: Notice

Dear Roseanne

SUBJECT: SUNSHINE COAST UNIVERSITY HOSPITAL PROJECT: NOTIFICATION AND REPORT - INCIDENT UNDER WORKPLACE HEALTH AND SAFETY

In accordance with Clause 2.10(l) of the Project Deed, Project Co hereby notifies the State that an incident has occurred during the carrying out of the Combined Works that is notifiable under WHS Legislation. The following is a report giving details of the incident, results of investigations into cause and steps to rectify damage and prevent recurrence:

Details of Incident

On 16 October 2015 at approximately 4pm, the thermal energy water storage tank located on the corner of the Facilities Management Centre, Kawana Way and Fenner Street (known as TES 1) ruptured, releasing approximately 2.7 million litres of water (**Tank Incident**).

Incident Notification in respect of the Tank Incident was submitted to the Office of Fair and Safe Work Queensland, and confirmed as received on 19 October 2015.

As advised in our Notice of 23 October 2015 under clauses 50.1 and 62.1(f)(4) of the Project Deed, as a result of the Tank Incident, damage was caused to parts of the Works.

Results of Investigations into Cause

The cause of the Tank Incident is not yet known. Lendlease is working to understand the cause of the Tank Incident and we will provide the State with further information as soon as practicable.

Steps to Rectify Damage and Prevent Recurrence

As advised in our Notice of 23 October 2015 under clauses 50.1 and 62.1(f)(4) of the Project Deed, Lendlease is working to understand the extent of the damage caused by the Tank Incident and will provide the State with their recommended plan for the rectification of the damage as soon as practicable.

Immediate steps taken by Lendlease in relation to the Tank Incident have focussed upon ensuring the safety of people and property.

These steps have included:

1. Assessment of the second thermal energy storage tank (known as TES 2) by an engineer employed by the Subcontractor responsible for supply of the tank.
2. Daily inspections of TES 2
3. Establishment of an exclusion zone around the vicinity of TES 2.
4. Wind monitoring.
5. Placement of emergency traffic control on 'stand-by' in the event the decision is made to evacuate Kawana Way due to high winds.

Should you have any questions in relation to this matter please do not hesitate to contact me on Out of Scope of A

Yours sincerely



Pat Coleman
Exemplar Health
Project Co Representative

RTI Released

Sunshine Coast University Hospital PPP
Kawana Way
Birtinya
Queensland 4575 Australia



MAIL TYPE
General Communication

MAIL NUMBER
ULA-GCOM-000704

REFERENCE NUMBER
QHP-GCOM-005927

Re: SCPUH TES - Tank failure

From Ms Elizabeth Coe - Umow Lai & Associates
To Mr Don Glynn - Queensland Health - Capital Delivery Program
Cc (9) This Part Out of Scope of Application
Roseanne Jennings - Queensland Health - Capital Delivery Program
Mr Andrew Leggate - Queensland Health - Capital Delivery Program
Mr Cyriac Mukkada - Queensland Health - Capital Delivery Program
Chris Anderson - Umow Lai & Associates
Mr Andrew Jenkinson - Umow Lai & Associates
Mr Brian McDonnell - Umow Lai & Associates
Mr Martin O'Connor - Wood & Grieve Engineers

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This Part Out of Scope of Application

Sent Friday, 23 October 2015 8:07:27 AM EST (GMT +10:00)
Status N/A

Attributes

Attribute 1 Environmental Sustainability Design (ESD), Mechanical
Attribute 2 Facility Management Centre, Site Services Infrastructure

Message

Don, Roseanne

Further to our advice (from Brian McDonnell) copied below, This Part Out of Scope of Application

This Part Out of Scope of Application

This Part Out of Scope of Application

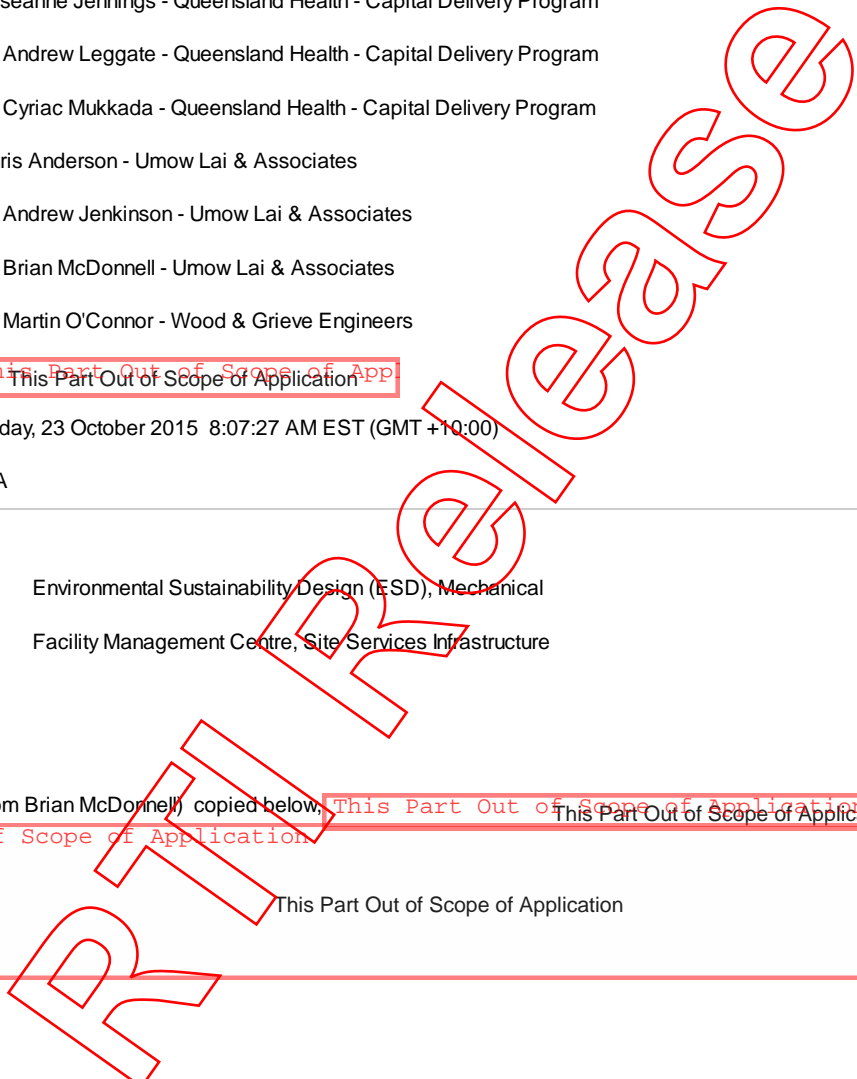
Regards,
Elizabeth Coe

From: B McDonnell
Sent: 21/10/2015 10:30:47 AM EST (GMT +11:00)
To: Roseanne Jennings
Cc: Don Glynn, Chris Anderson, Elizabeth Coe, Andrew Jenkinson
Mail Number: ULA-GCOM-000701
Subject: RE: Failed Chilled Water Tank Comments

Roseanne,

Please find below some initial, bullet point, comments on the chilled water tank failure.

Effect on Hospital Operation



- 1.
- 2.
- 3.
- 4.

Information required from Exemplar:

- 1.
- 2.
3. Full report on how the incident occurred and the QA process the tanks went through prior, during and after install;
4. This Part Out of Scope of Application
5. This Part Out of Scope of Application

Preliminary identification of issues:

1. This Part Out of Scope of Application
- 2.
3. This Part Out of Scope of Application
- 4.
5. How confidence in any new tank strategy can be assured after the failure of original tank(s).

Any queries please let me know.

Regards,

Brian McDonnell | Associate Director

This Part Out of Scope of Application
Part Out of Scope of Application

This Part Out of Scope of Application
Part Out of Scope of Application
umowla.com.au

From: D Glynn
Sent: 19/10/2015 12:24:37 PM EST (GMT +11:00)
To: Elizabeth Coe
Cc: Grant Buglar, Roseanne Jennings, Andrew Leggate, Cyriac Mukkada, Chris Anderson, Andrew Jenkinson, Brian McDonnell, Martin O'Connor, Michael Prior
Mail Number: QHP-GCOM-005927
Subject: SCPUH TES - Tank failure

Elizabeth,

No doubt you would have heard by now that one of the TES tanks failed completely at 4pm on Friday after having been filled that day. The second tank suffered structural damage and is likely to be removed as well. The FMC suffered some external and internal damage and CP1 has some minor external damage as does the surrounding area. The full extent of the damage will not be determined for some time but we will keep our Advisors informed whenever we receive updates.

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This Part Out of Scope of Application
This Part Out of Scope of Application

Regards,

Don

Don Glynn
Engineering and Technical Director
Sunshine Coast University Hospital Project

Health Infrastructure Branch | System Support Services | Queensland Health
Ground Floor - K1 | 16 Innovation Parkway | BIRTINYA QLD 4575

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This Part Out of Scope of Application

This Part Out of Scope of Application

RTI Release

NOTES

Sunshine Coast University Hospital PPP
Kawana Way
Birtinya
Queensland 4575 Australia



MAIL TYPE
General Communication

MAIL NUMBER
QHP-GCOM-006045

REFERENCE NUMBER
QHP-GCOM-005927

Re: SCPUH TES - Tank failure

From Mr Don Glynn - Queensland Health - Capital Delivery Program

To Ms Elizabeth Coe - Umow Lai & Associates

Cc (9) This Part Out of Scope of Application

Roseanne Jennings - Queensland Health - Capital Delivery Program

Mr Andrew Leggate - Queensland Health - Capital Delivery Program

Mr Cyriac Mukkada - Queensland Health - Capital Delivery Program

Chris Anderson - Umow Lai & Associates

Mr Andrew Jenkinson - Umow Lai & Associates

Mr Brian McDonnell - Umow Lai & Associates

This Part Out of Scope of Appli
This Part Out of Scope of Application

Sent Friday, 23 October 2015 9:59:52 AM EST (GMT +10:00)

Status N/A

Attributes

Attribute 1 Environmental Sustainability Design (ESD), Mechanical

Attribute 2 Facility Management Centre, Site Services Infrastructure

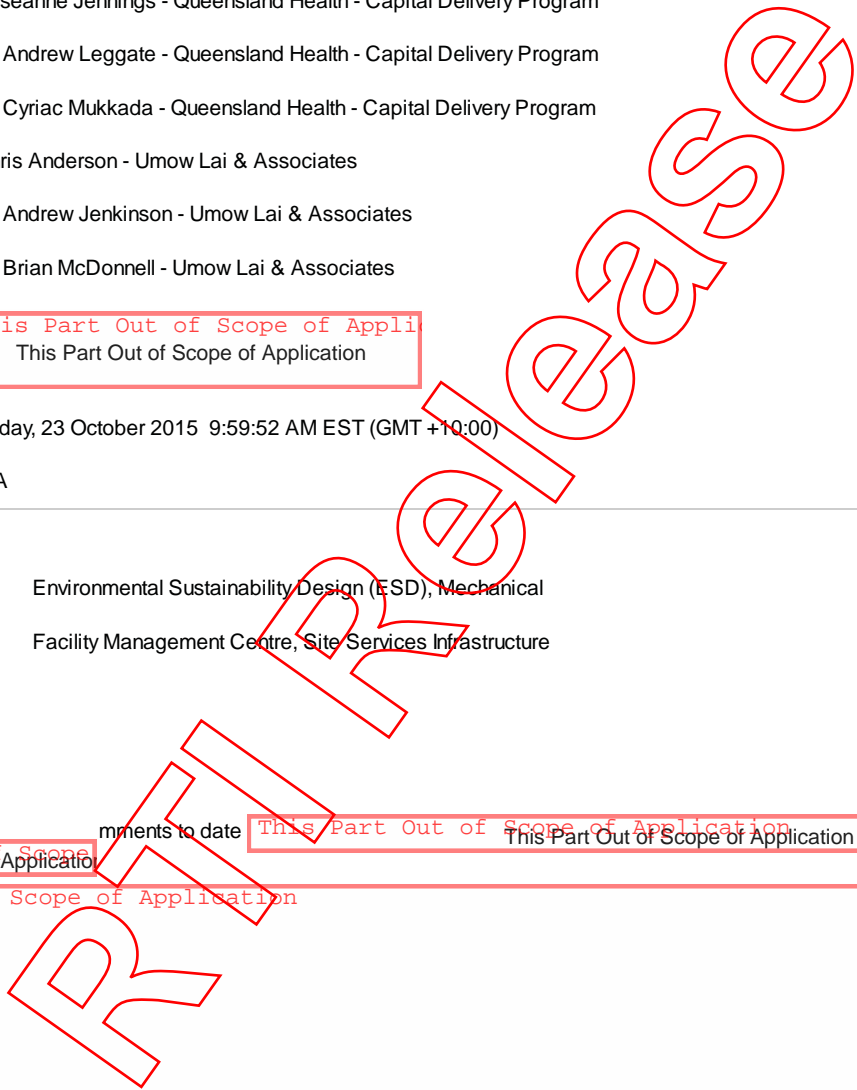
Message

Elizabeth and Brian,

Comments to date This Part Out of Scope of Application
This Part Out of Scope of Application

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Extract from Schedule 14 - Payment Schedule:

This Part Out of Scope of Application

RTI Release

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This Part Out of Scope of Application

Don Glynn
Engineering and Technical Director
Sunshine Coast University Hospital Project

Health Infrastructure Branch | System Support Services | Queensland Health
Ground Floor - K1 | 16 Innovation Parkway | BIRTINYA QLD 4575

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Out of Scope of Ap

From: E Coe
Sent: 23/10/2015 8:07:27 AM EST (GMT +10:00)
To: Don Glynn
Cc: Grant Buglar, Roseanne Jennings, Andrew Leggate, Cyriac Mukkada, Chris Anderson, Andrew Jenkinson, Brian McDonnell, Martin O'Connor, Michael Prior
Mail Number: ULA-GCOM-000704
Subject: Re: SCPUH TES - Tank failure

Don, Roseanne

Further to our advice (from Brian McDonnell) copied below, This Part Out of Scope of Application
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This Part Out of Scope of Application
This Part Out of Scope of Application

Regards,
Elizabeth Coe

From: B McDonnell
Sent: 21/10/2015 10:30:47 AM EST (GMT +11:00)
To: Roseanne Jennings
Cc: Don Glynn, Chris Anderson, Elizabeth Coe, Andrew Jenkinson
Mail Number: ULA-GCOM-000701
Subject: RE: Failed Chilled Water Tank Comments

Roseanne,

Please find below some initial, bullet point, comments on the chilled water tank failure.

Effect on Hospital Operation

1. This Part Out of Scope of Application
- 2.
3. This Part Out of Scope of Application
- 4.

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2. This Part Out of Scope of Application
3. Full report on how the incident occurred and the QA process the tanks went through prior, during and after install;
4. This Part Out of Scope of Application
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Preliminary identification of issues:

1. This Part Out of Scope of Application
- 2.
3. This Part Out of Scope of Application
- 4.
5. How confidence in any new tank strategy can be assured after the failure of original tank(s).

Any queries please let me know.

Regards,

Brian McDonnell | Associate Director

Umow Lai

This Part Out of Scope of Application

This Part Out of Scope of Application @umowlai.com.au

W: umowlai.com.au

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Mail Number: QHP-GCOM-005927
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Regards,

Don

Don Glynn

Engineering and Technical Director

Sunshine Coast University Hospital Project

Health Infrastructure Branch | System Support Services | Queensland Health

Ground Floor - K1 | 16 Innovation Parkway | BIRTINYA QLD 4575

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RTI Release

NOTES

Sunshine Coast University Hospital PPP
Kawana Way
Birtinya
Queensland 4575 Australia



MAIL TYPE
General Communication

MAIL NUMBER
QHP-GCOM-006099

REFERENCE NUMBER
QHP-GCOM-005927

Re: SCPUH TES - Tank failure

From Mr Don Glynn - Queensland Health - Capital Delivery Program

To Mr Brian McDonnell - Umow Lai & Associates

Cc (11) This Part Out of Scope of Application

Linda Brandon - Queensland Health - Capital Delivery Program

Mr Peter Callaghan - Queensland Health - Capital Delivery Program

Roseanne Jennings - Queensland Health - Capital Delivery Program

Mr Andrew Leggate - Queensland Health - Capital Delivery Program

Mr Cyriac Mukkada - Queensland Health - Capital Delivery Program

Chris Anderson - Umow Lai & Associates

Ms Elizabeth Coe - Umow Lai & Associates

Mr Andrew Jenkinson - Umow Lai & Associates

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Sent Tuesday, 27 October 2015 12:29:05 PM EST (GMT+10:00)

Status N/A

Attributes

Attribute 1 Environmental Sustainability Design (ESD), Mechanical

Attribute 2 Facility Management Centre, Site Services Infrastructure

Message

Brian,

This Part Out of Scope of Application

This Part Out of Scope of Application

Don Glynn
Engineering and Technical Director
Sunshine Coast University Hospital Project

Health Infrastructure Branch | System Support Services | Queensland Health
Ground Floor - K1 | 16 Innovation Parkway | BIRTINYA QLD 4575

This Part Out of Scope of Application

DOH-DL 15/16-031

RTI Document 38

This Part Out of Scope of Application
@health.qld.gov.au

From: D Glynn
Sent: 23/10/2015 9:59:52 AM EST (GMT +10:00)
To: Elizabeth Coe
Cc: Grant Buglar, Roseanne Jennings, Andrew Leggate, Cyriac Mukkada, Chris Anderson, Andrew Jenkinson, Brian McDonnell, Martin O'Connor, Michael Prior
Mail Number: QHP-GCOM-006045
Subject: Re: SCPUH TES - Tank failure

Elizabeth and Brian,

comments to date **This Part Out of Scope of Application**
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RTI Release

Extract from Schedule 14 Payment Schedule:

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RTI Release

Don Glynn
Engineering and Technical Director
Sunshine Coast University Hospital Project

Health Infrastructure Branch | System Support Services | Queensland Health

way | BIRTINYA QLD 4575

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@health.qld.gov.au

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To: Don Glynn
Cc: Grant Buglar, Roseanne Jennings, Andrew Leggate, Cyriac Mukkada, Chris Anderson, Andrew Jenkinson, Brian McDonnell, Martin O'Connor, Michael Prior
Mail Number: ULA-GCOM-000704
Subject: Re: SCPUH TES - Tank failure

Don, Roseanne

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Regards,
Elizabeth Coe

From: B McDonnell
Sent: 21/10/2015 10:30:47 AM EST (GMT +11:00)
To: Roseanne Jennings
Cc: Don Glynn, Chris Anderson, Elizabeth Coe, Andrew Jenkinson
Mail Number: ULA-GCOM-000701
Subject: RE: Failed Chilled Water Tank Comments

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Effect on Hospital Operation

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- 4.

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2. This Part Out of Scope of Application
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4. This Part Out of Scope of Application
5. This Part Out of Scope of Application

Preliminary identification of issues:

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- 5.

Any queries please let me know.

Regards,

Brian McDonnell | Associate Director
Umow Lai

This Part Out of Scope of Application

This Part Out of Scope of Application

@umowlai.com.au

u

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Sent: 19/10/2015 12:24:37 PM EST (GMT +11:00)
To: Elizabeth Coe
Cc: Grant Buglar, Roseanne Jennings, Andrew Leggate, Cyriac Mukkada, Chris Anderson, Andrew Jenkinson, Brian McDonnell, Martin O'Connor, Michael Prior
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Regards,

Don

Don Glynn
Engineering and Technical Director
Sunshine Coast University Hospital Project

Health Infrastructure Branch | System Support Services | Queensland Health
Ground Floor - K1 | 16 Innovation Parkway | BIRTINYA QLD 4575

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RTI Release

Sunshine Coast University Hospital PPP
Kawana Way
Birtinya
Queensland 4575 Australia



MAIL TYPE
General Communication

MAIL NUMBER
ULA-GCOM-000706

REFERENCE NUMBER
QHP-GCOM-005927

Fwd: SCPUH TES - Tank failure

From Ms Elizabeth Coe - Umow Lai & Associates
To (2) Mr Brian McDonnell - Umow Lai & Associates (1 more...)
Cc (4) Mr Don Glynn - Queensland Health - Capital Delivery Program (3 more...)
Sent Tuesday, 27 October 2015 1:20:21 PM EST (GMT +10:00)
Status N/A

Attributes

Attribute 1 Environmental Sustainability Design (ESD), Mechanical
Attribute 2 Facility Management Centre, Site Services Infrastructure

Message

Brian & Nick

This Part Out of Scope of Application

This Part Out of Scope of Application

Cheers, E

From: D Glynn
Sent: 27/10/2015 1:29:05 PM EST (GMT +11:00)
To: Brian McDonnell
Cc: Grant Buglar, Linda Brandon, Peter Callaghan, Roseanne Jennings, Andrew Leggate, Cyriac Mukkada, Chris Anderson, Elizabeth Coe, Andrew Jenkinson, Martin O'Connor, Michael Prior
Mail Number: QHP-GCOM-006099
Subject: Re: SCPUH TES - Tank failure

Brian,

This Part Out of Scope of Application

This Part Out of Scope of Application

Don Glynn
Engineering and Technical Director
Sunshine Coast University Hospital Project

DOH-DL 15/16-031

RTI Document 43

Health Infrastructure Branch | System Support Services | Queensland Health

way | BIRTINYA QLD 4575

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Out of Scope of Ap

From: D Glynn
Sent: 23/10/2015 9:59:52 AM EST (GMT +10:00)
To: Elizabeth Coe
Cc: Grant Buglar, Roseanne Jennings, Andrew Leggate, Cyriac Mukkada, Chris Anderson, Andrew Jenkinson, Brian McDonnell, Martin O'Connor, Michael Prior
Mail Number: QHP-GCOM-006045
Subject: Re: SCPUH TES - Tank failure

Elizabeth and Brian,

comments to date This Part Out of Scope of Application

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RTI Releases

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Extract from Schedule 14 - Payment Schedule:

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BIRT Release

Don Glynn
Engineering and Technical Director
Sunshine Coast University Hospital Project

Health Infrastructure Branch | System Support Services | Queensland Health
y | BIRTINYA QLD 4575

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Cc: Grant Buglar, Roseanne Jennings, Andrew Leggate, Cyriac Mukkada, Chris Anderson, Andrew Jenkinson, Brian McDonnell, Martin O'Connor, Michael Prior
Mail Number: ULA-GCOM-000704
Subject: Re: SCPUH TES - Tank failure

Don, Roseanne

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This Part Out of Scope of Application

This Part Out of Scope of Application

Regards,
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Sent: 21/10/2015 10:30:47 AM EST (GMT +11:00)
To: Roseanne Jennings
Cc: Don Glynn, Chris Anderson, Elizabeth Coe, Andrew Jenkinson
Mail Number: ULA-GCOM-000701
Subject: RE: Failed Chilled Water Tank Comments

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- 2.
3. This Part Out of Scope of Application
- 4.

Information required from Exemplar:

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3. Full report on how the incident occurred and the QA process the tanks went through prior, during and after install;
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Preliminary identification of issues.

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3. This Part Out of Scope of Application
- 4.

5. How confidence in any new tank strategy can be assured after the failure of original tank(s).

Any queries please let me know.

Regards,

Brian McDonnell | Associate Director

Umow Lai

This Part Out of Scope of Application

This Part Out of Scope of Application @umowlai.com.au

U

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To: Elizabeth Coe
Cc: Grant Buglar, Roseanne Jennings, Andrew Leggate, Cyriac Mukkada, Chris Anderson, Andrew Jenkinson, Brian McDonnell, Martin O'Connor, Michael Prior
Mail Number: QHP-GCOM-005927
Subject: SCPUH TES - Tank failure

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Regards,

Don

Don Glynn
Engineering and Technical Director
Sunshine Coast University Hospital Project

Health Infrastructure Branch | System Support Services | Queensland Health
Ground Floor - K1 | 16 Innovation Parkway | BIRTINYA QLD 4575

This Part Out of Scope of Application

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RTI RELEASED

Sunshine Coast University Hospital PPP
Kawana Way
Birtinya
Queensland 4575 Australia

Exemplar Health
c/- Capella Capital
AMP Centre, Level 31, 50 Bridge Street
Sydney
NSW 2000 Australia
Ph +61 2 82243888

MAIL TYPE	MAIL NUMBER	REFERENCE NUMBER
Notice	EXH-NOTICE-000046	EXH-NOTICE-000046

Tank Incident - Extension of State Response Clause 50.2(a)

From Bianca Jones - Exemplar Health

To SCUH Project Director - Queensland Health - Capital Delivery Program

Cc (4) Mr Pat Coleman - Exemplar Health
Ms Sandra Hughes - Exemplar Health
Kate Gregson - Queensland Health - Capital Delivery Program
Roseanne Jennings - Queensland Health - Capital Delivery Program

Sent Thursday, 29 October 2015 2:53:23 AM EST (GMT +10:00)

Status N/A

File Attachments (1)

- File Name
- SCUH - EH Letter to the State Clause 50.pdf

Attributes

Attribute 1 Administration

Attribute 2 Project Wide

Message

Roseanne, please see attached letter from the Project Co Representative. Thank you.

Regards,

Bianca Jones | Development Co-ordinator

Sunshine Coast University Hospital Site Office
Australia

This Part Out of Scope of Application
Out of Scope of / au

RTI Release

Sunshine Coast University Hospital PPP
Kawana Way
Birtinya
Queensland 4575 Australia



MAIL TYPE
General Communication

MAIL NUMBER
ULA-GCOM-000714

REFERENCE NUMBER
QHP-GCOM-005927

Re: SCPUH TES - Tank failure

From: Mr Brian McDonnell - Umow Lai & Associates
To: Mr Don Glynn - Queensland Health - Capital Delivery Program
Cc (11): This Part Out of Scope of Application (10 more...)
Sent: Wednesday, 4 November 2015 12:39:01 PM EST (GMT +10:00)
Status: N/A

Attributes

Attribute 1: Environmental Sustainability Design (ESD), Mechanical
Attribute 2: Facility Management Centre, Site Services Infrastructure

Message

Don,
As per discussions I just wanted to confirm that UL will be in attendance on site at 10.30am tomorrow for the mini workshop on the tank failure outcomes.
We will undertake the site walk post workshop.
Regards,

Brian McDonnell | Associate Director
Umow Lai

This Part Out of Scope of Application
Part Out of Scope of Application
This Part Out of Scope of Application @umowlai.com.au
u

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Mail Number: QHP-GCOM-006099
Subject: Re: SCPUH TES - Tank failure

Brian,

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establish a viable options list.

Don Glynn
Engineering and Technical Director
Sunshine Coast University Hospital Project

Health Infrastructure Branch | System Support Services | Queensland Health

Ground Floor - K1 | 16 Innovation Parkway | BIRTINYA QLD 4575

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Mail Number: QHP-GCOM-006045
Subject: Re: SCPUH TES - Tank failure

Elizabeth and Brian,

Comments to date. This Part Out of Scope of Application

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RTI RELEASES

Extract from Schedule 14 - Payment Schedule:

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RTI Release

Don Glynn
Engineering and Technical Director
Sunshine Coast University Hospital Project

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To: Don Glynn
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Mail Number: ULA-GCOM-000704
Subject: Re: SCPUH TES - Tank failure

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Mail Number: ULA-GCOM-000701
Subject: RE: Failed Chilled Water Tank Comments

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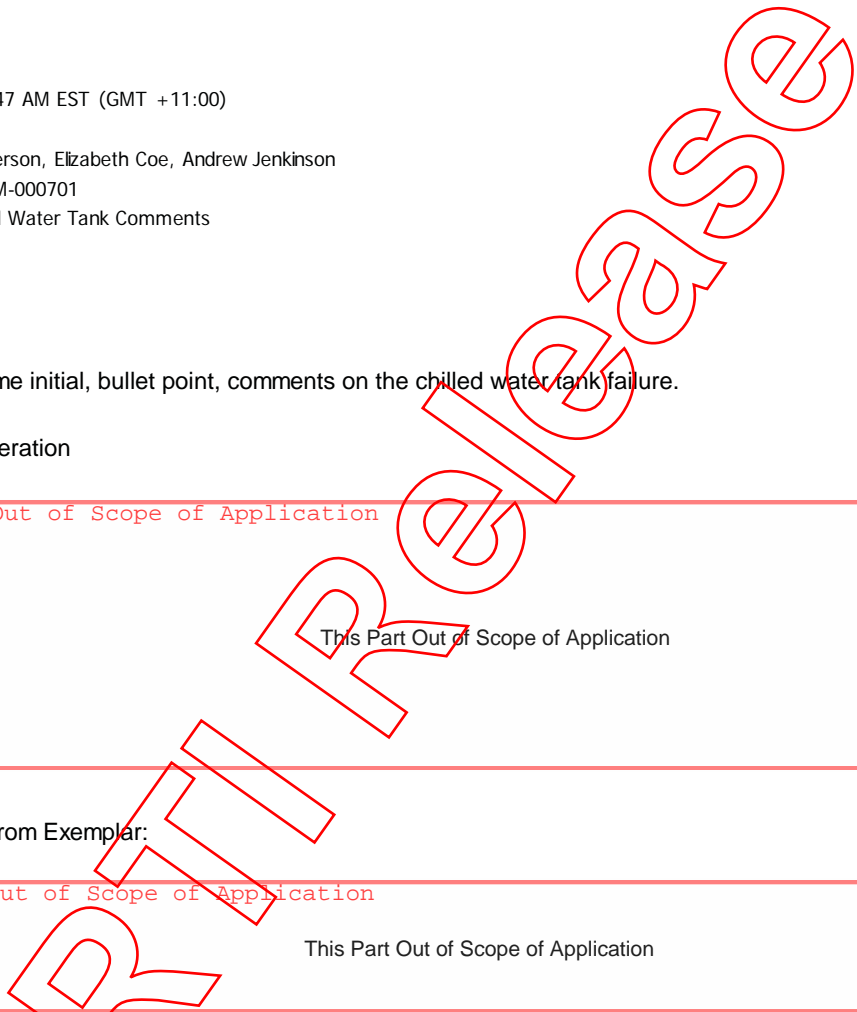
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Any queries please let me know.

Regards,

Brian McDonnell | Associate Director

Umow Lai

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Mail Number: QHP-GCOM-005927

Subject: SCPUH TES - Tank failure

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Don Glynn

Engineering and Technical Director

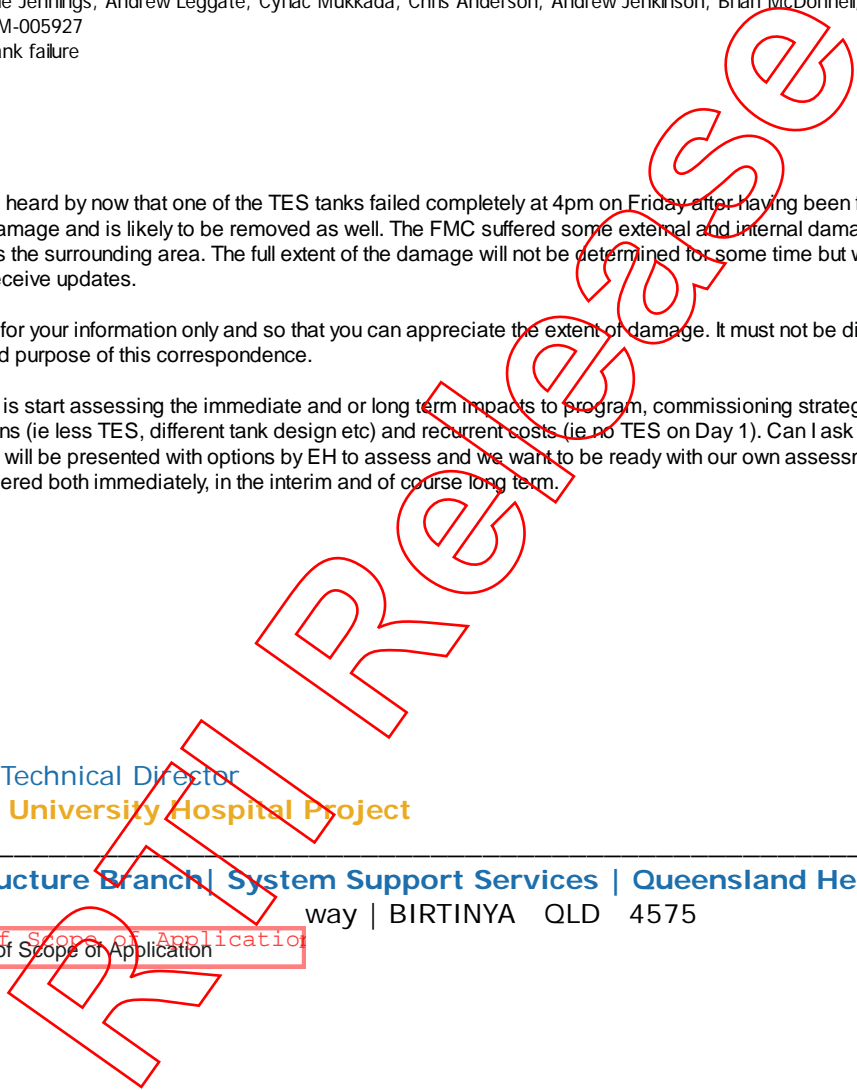
Sunshine Coast University Hospital Project

Health Infrastructure Branch | System Support Services | Queensland Health

way | BIRTINYA QLD 4575

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Redact Page

Pages 54 through 55 redacted for the following reasons:

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RTI Release

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Tank Incident

As advised in our relevant Notices to the State, on 16 October 2015 at approximately 4pm, the thermal energy water storage tank located on the corner of the Facilities Management Centre, Kawana Way and Fenner Street (known as TES 1) ruptured, releasing approximately 2.7 million litres of water (Tank Incident). Incident Notification in respect of the Tank Incident was submitted to the Office of Fair and Safe Work Queensland, and confirmed as received on 19 October 2015.

The cause of the Tank Incident is not yet known. Lend Lease is working to understand the cause of the Tank Incident and we will provide the State with further information as soon as practicable.

As a result of the Tank Incident, damage was caused to parts of the Works identified in the following locations:

1. Thermal Energy Storage (TES) Tank 1 & 2 and associated pipework - Extensive damage to both tanks.
2. Kawana Way in the vicinity of TES Tank 2 - Damage to landscaping, footpaths, traffic signals, street lighting, road signage and asphalt.
3. Car Park 1 - Damage to blockwork wall to UPS Room and to concrete wall.
4. Fenner Street - Damage to landscaping, footpaths and asphalt pavement.

- 5. Facilities Management Centre (FMC) Building - Damage to Energex metering room and equipment, northern façade to the building at Ground Level and Level 1, ground level dishwashing room and suspended services.

At this stage, Lend Lease is working to understand the extent of the damage. We will provide the State with further information regarding our recommended plan for the rectification of the above damage as soon as practicable.

The TES 2 tank which was damaged in the incident has now been dismantled.

This Part Out of Scope of Application

RTI Release

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SUNSHINE COAST UNIVERSITY HOSPITAL

THERMAL WATER TANK NO. 1 COLLAPSE



Prepared By:

MPN CONSULTING PTY LTD

39 Sherwood Road

Toowong

Queensland

4066 • Australia

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1 INTRODUCTION

- 1.1 This report presents the results on an investigation into the facts and primary evidence of the collapse of Thermal Energy Water Storage Tank No. 1 at Sunshine Coast University Hospital.
- 1.2 The purpose of the report is to obtain the facts and primary evidence associated with the collapsed tank.
- 1.3 The scope of the report is to record observations at the location of the incident to establish the facts and primary evidence associated with the collapse.
- 1.4 It is understood that the Thermal Energy Water Storage Tank No. 1 ruptured at approximately 4pm on 16 October 2015.
- 1.5 Water and debris spilled and was scattered across Kawana Way, Fenner Street and into the adjacent Facilities Management Centre and P1 Carpark.
- 1.6 The adjacent Thermal Tank No. 2 was extensively damaged.
- 1.7 The principal contractor for the site is Lend Lease.
- 1.8 The tank installation was conducted by ALS Group.
- 1.9 This report is based on a reasonably detailed visual inspection of the location of the collapse of Thermal Energy Waste Storage Tank No. 1.
- 1.10 MPN shall have no liability for any claim whatsoever relating to the rupturing of the thermal energy water tank and MPN services.
- 1.11 MPN does not accept any liability or responsibility for any discrepancy, loss, damage or claim arising from the misuse of the "Sunshine Coast University Hospital - Thermal Water Tank No. 1 Collapse" supplied.

2 DESCRIPTION OF STRUCTURE

2.1 The tank is 13 metres in diameter and 23 metres high and contains approximate effective capacity of 2800kl of water.

2.2 The tank is constructed from 19 rows of metal plate strakes. Each strake measures 3.0m x 1.2m. There are 14 strakes in each row to form the circumference of the tank. The strakes are galvanised and coated with a protective acrylic film.

2.3 The thickness of the strakes decreases with height as follows:

<u>Strake</u>	<u>Thickness</u>
1,2	16mm
3-5	12mm
6,7	10mm
8,9	8mm
10,11	6mm
12,13	5mm
14,15	4mm
16-19	3mm

2.4 The strakes overlap at joints and are connected by M12 8.8/s bolts.

2.5 Typically vertical joints for the first 9 strakes comprise approximately 18 sets of 3 bolts. Strakes 10-19 vertical joints comprise approximately 18 sets of 2 bolts.

2.6 Typically, horizontal joints are connected by a single row of bolts at approximately 115mm centres at each horizontal joint for the full height of the tank.

2.7 All bolts are 12mm in diameter and galvanised. The bolts have been tensioned to an undetermined load.

2.8 The tank is fixed to the concrete base by M16 stainless steel mechanical anchors connected to a 75mm x 75mm x 5mm rolled angle which is bolted to first strake.

2.9 At the location of vertical joints in the first strake a double stiffener has been detailed which is fixed to the concrete base with an M16 chemical anchor.

- 2.10 The tank base is a 1500mm thick circular concrete base which is supported on driven piles.
- 2.11 The tank has an internal layer of rigid polyurethane insulation and a liner.
- 2.12 A 65 x 5 equal angle (wind angle) is attached to the external horizontal joint for the top 6 strakes.
- 2.13 The tank roof is constructed from a rafter aligned along the tank diameter and cold formed purlins at right angles to the rafter. The roof is supported from the tank wall.

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3 FIELD OBSERVATIONS

3.1 **MPN Consulting Pty Ltd** This Part Out of Scope of Application inspected the location of the incident on Saturday 17 October 2015 and Sunday 18 October 2015. This Part Out of Scope of Application visited the location of the incident on Tuesday 20 October 2015.

3.2 **The general pattern of debris of the collapsed Tank No 1 is shown in Figures 1 and 2.**

3.3 Generally

- Strake 1 remained connected to the base except on the northern side
- Strakes 2-5 are located against the FM Building and extend into the base of Tank No. 2. The southern end wraps around the building towards the SW.
- Strakes 6 and 7 generally align with strakes 2-5
- Strakes 8 to 13 are generally intact and aligned NE/SW across the tank base. This segment extended fully across Fenner Street.
- Strakes 14-19 were crumpled and located to the west of the tank base.
- A 4 panel segment of 12mm plate (from either strakes 3,4 or 5) was observed on the western side of Kawana Way Figure 3. It is understood the panels were bent during relocation.

3.4 **A significant dimple was observed in strakes 1-5 of Tank No. 2. Refer Figure 4.**

3.5 **Damage to masonry walls and concrete balustrade was observed at SW corner of carpark P1 directly to the north of Tank No. 1. Refer Figures 5 and 6.**

3.6 **Damage to fascia panels at the NW corner of the FM Building was observed up to Level 2. Refer Figure 7.**

3.7 **Traffic signal and light poles at Kawana Way/Fenner Street intersection appear relatively undamaged.**

3.8 **Typically, ruptured vertical joints displayed bolts which have failed in shear. Refer Figure 8.**

- 3.9 **The Northernmost vertical joint of Strakes 1-3 display some deformation of the bolt holes. Refer Figure 9.**
- 3.10 **Typically ruptured horizontal joints display bolts with stripped threads. Refer Figure 10.**
- 3.11 **Mechanical anchor fixings to the northern third of the base circumference were observed to have been bent in double curvature and cone failure at fixing locations was observed in concrete. Refer Figure 11 and Figure 12.**
- 3.12 **Curved scratch marks were observed on surface of concrete base extending out from the tank circumference which appear to follow the displacement of Strake No.1 during the rupture. Refer Figure 12 and Figure 13. These scratch marks have been recorded on survey of the tank base following clearance of debris.**
- 3.13 **The survey of reduced levels on the tank base appear to indicate that the base level is within tolerance.**

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SCUH TES Tank Incident Recovery

Exemplar Health Update
18 November 2015

lendlease

DOH-DL 15/16-031



CONTENTS

- Executive Summary
- Incident Facts and Observations
- Investigation
- Replacement & Other Rectification
- Program Impact / Mitigation
- Insurance
- EH / State
- Team / R&R's

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EXECUTIVE SUMMARY

Investigation:

- Facts and evidence report issued by MPN consulting; separately issued to EH
- Report into cause targeted for late Nov (MPN Consulting)

Workplace Health and Safety Queensland (WHSQ):

- Facts and evidence report has been provided
- Prohibition Notice remains in place for the 'other' tanks pending outcome of investigation

Replacement Options:

- This Part Out of Scope of Application

- This Part Out of Scope of Application
- This Part Out of Scope of Application

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EXECUTIVE SUMMARY

Program:

- Critical Path impact is dependent upon outcome of above assessments and approvals by EH and State re replacement recommendation
- Also dependent upon no rectification to other tanks required
- Chilled water availability being significantly mitigated by deployment of a temporary chiller.

Insurance:

• This Part Out of Scope of Application

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INVESTIGATION

OTHER TANKS:

- There are 6 other tanks (4 x 500kL and 2 x 750kL)
- The 4 x 500kL tanks (fire and potable water) are a priority to fill to avoid delay
- Independent 3rd party This Part Out of Scope of Application engaged to:
 - Desktop model the structural adequacy of the other tanks
 - Carry out site inspection to verify installation of tanks
 - Incorporate the findings of the MPN report into the TES tank failure
- This Part Out of Scope of Application report to be used to satisfy Lendlease and WHSQ that the other tanks are safe to fill
- Costs - This Part Out of Scope of Application
This Part Out of Scope of Application

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REPLACEMENT

CONTRACT REQUIREMENTS:

- Notice issued to EH under Clause 50

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This Part Out of Scope of Application

OPTIONS STUDY:

This Part Out of Scope of Application

This Part Out of Scope of Application

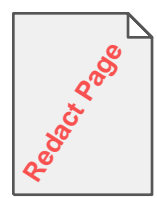
Decision cannot be finalised until outcomes of investigation are known

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Pages 86 through 90 redacted for the following reasons:

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EH/STATE

NOTICES:

- All required Notice have been issued under the Construction Contract

- This Part Out of Scope of Application This Part Out of Scope of Application

RELATIONSHIP & COMMUNICATIONS

- LL to communicate plan to EH and State as soon as possible
- EH & State have been advised we will update them in the last week of November on probable cause

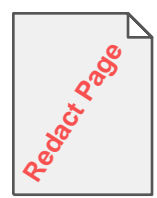
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STRATEGY / PLAN:

- This Part Out of Scope of Application
- This Part Out of Scope of Application

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Sunshine Coast University Hospital PPP
Kawana Way
Birtinya
Queensland 4575 Australia

This Part Out
of Scope of Appl


MAIL TYPE Independent Reviewer Advice
MBER RA-000216

NCE NUMBER RA-000216

TES Tank Incident - Request for Update

From: This Part Out of Scope of Application
To: Mr Pat Coleman - Exemplar Health
Cc (5): This Part Out of Scope of Application
Sent: Wednesday, 25 November 2015 2:30:10 PM EST (GMT +10:00)
Status: N/A

File Attachments (1)

- File Name
-  650_151125_EH TES Tank Incident.pdf

Attributes

Attribute 1 Management
Attribute 2 Tank Incident

Message

Pat
Find attached for your reference and action a request relating to the TES tank incident.

Regards

This Part Out of Scope of Application
This Part Out of Scope of Application

PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS EMAIL.

NOTES

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This Part Out of Scope of Application

This Part Out of Scope of Application

25 November 2015

Mr Pat Coleman
Chief Executive, Exemplar Health
Sunshine Coast University Hospital Site Office
Gate 7 South Street
Birtinya QLD 4575

Dear Pat

**SUNSHINE COAST UNIVERSITY HOSPITAL
TES TANK INCIDENT**

Further to the TES Tank Incident that occurred on 16 October 2015, **of Scope** understand from ongoing discussions with various project parties, and more recently the November PCG, investigations are now well advanced and reporting on the root cause and likely outcomes are pending release next month, as advised at the PCG.

Given that a reasonable amount of time has now elapsed for initial investigations and reporting to be undertaken, and further to Exemplar Health letters/correspondence issued to Queensland Health dated 23 October 2015 (and provided for reference), **This Part** request that a formal update supported by relevant documents be provided on the following, **of Scope** ey focus on programming impacts:

- Status of the root cause of the incident (or in the event this is unknown, approximate date when a likely outcome and reporting will provide clarify this);
- Status of whether the root cause is likely to impact/affect other water storage tanks as currently built within the facility, and if so reconstruction/remedy requirements to be undertaken, program impacts on undertaking the works, and future impacts on previous programmed commissioning and completion activities;
- Status of reconstruction/make good activities to adjacent work areas affected by the TES Tank incident, **This Part Out of Scope of Application**

This Part Out of Scope of Application

- **This Part Out of Scope of Application**

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DOH-DL 15/16-031

Redact Page

Page 96 redacted for the following reason:

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Sunshine Coast University Hospital PPP
Kawana Way
Birtinya
Queensland 4575 Australia

This Part Out
of Scope of App

MAIL TYPE: General Communication
MBER: GCOM-000307
INCIDENT NUMBER: IRA-000216

Re: TES Tank Incident - Request for Update

From: This Part Out of Scope of Application
To: Mr Pat Coleman - Exemplar Health
Cc (6): This Part Out of Scope of Application
Sent: Friday, 27 November 2015 12:54:58 PM EST (GMT +10:00)
Status: N/A

Attributes	
Attribute 1	Management
Attribute 2	Tank Incident

Message

Pat

This Part Out of Scope of Application
This Part Out of Scope of Application

We note however correspondence below remains open for EH reply.

Regards

This Part Out of Scope of Application
This Part Out of Scope of Application

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From: This Part Out of Scope of Application
Sent: 5 3:30:10 PM EST (GMT +11:00)
To:
Cc: This Part Out of Scope of Application Bianca Jones, SCUH Project Director, Don Glynn, Roseanne Jennings
Mailbox: This Part Out of Scope of Application IRA-000216
Subject: TES Tank Incident - Request for Update

Pat

Find attached for your reference and action a request relating to the TES tank incident.

Regards

This Part Out of Scope of Application
This Part Out of Scope of Application

This Part Out of Scope of Application
This Part Out of Scope of Application

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Sunshine Coast University Hospital PPP
Kawana Way
Birtinya
Queensland 4575 Australia

Exemplar Health
c/- Capella Capital
AMP Centre, Level 31, 50 Bridge Street
Sydney
NSW 2000 Australia
Ph +61 2 82243888

MAIL TYPE: General Communication
MAIL NUMBER: EXH-GCOM-005913
REFERENCE NUMBER: This Part Out of Scope of Application IRA-000216

Re: TES Tank Incident - Request for Update

From: Mr Pat Coleman - Exemplar Health
To (2): This Part Out of Scope of Application
This Part Out of Scope of Application

Cc (6): Mr Mark Plummer - Lend Lease Building
Mr Paul Quatermass - Lend Lease Building
SCUH Project Director - Queensland Health - Capital Delivery Program
Mr Don Glynn - Queensland Health - Capital Delivery Program
Roseanne Jennings - Queensland Health - Capital Delivery Program
Scott Lisle - Sunshine Coast Hospital and Health Service

Sent: Friday, 27 November 2015 1:34:25 PM EST (GMT +10:00)
Status: N/A

Attributes

Attribute 1: Management
Attribute 2: Tank Incident

Message

This Part Out of Scope of Application

Thank you for your letter This Part Out of Scope of Application acting as the Independent Reviewer.

Please be advised that Project Co does not consider the majority of matters raised within you letter as being within the purview of the Independent Reviewer. Issues relating to causal effect of tank failures and replacement strategies is a matter for the Parties to the Project Deed.

This is not a matter for which the IR should be requesting a formal update and none will be given. Updates are already planned and have been foreshadowed to the State Project Director.

This Part Out of Scope of Application

This Part Out of Scope of Application

Regards,

Pat Coleman

Project Co Representative

From: This Part Out of Scope of Application
Sent: 3:30:10 PM EST (GMT +11:00)
To:
Cc: This Part Out of Scope of Application; Bianca Jones, SCUH Project Director, Don Glynn, Roseanne Jennings
Ma W-IRA-000216
Subject: TES Tank Incident - Request for Update

Pat

Find attached for your reference and action a request relating to the TES tank incident.

Regards

This Part Out of Scope of Application

This Part Out of Scope of Application

PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS EMAIL.

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