

[REDACTED]

From: [REDACTED]
Sent: Tuesday, 7 June 2016 8:47 AM
To: [REDACTED] (DPIPWE) ([REDACTED]@dpiuwe.tas.gov.au)
Cc: Dam Safety Team
Subject: 7th June Spill Response Update - 3
Attachments: Heavy Rainfall - June Status - 3.docx

All,

Please find attached an update on overnight activities regarding the large spills. In summary, the situation is easing slightly, notwithstanding extensive large spills and some peaks yet to be reached (eg. Trevallyn) .

[REDACTED] will resume the Dam Safety Manager role for the day.

Cheers,



p [REDACTED]
e [REDACTED]@hydro.com.au
w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

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From: [REDACTED]
Sent: Monday, 6 June 2016 5:23 PM
To: [REDACTED] (DPIPWE)
([REDACTED]@dpiuwe.tas.gov.au)
Cc: Dam Safety Team
Subject: 6th June Dam Safety Status Update - 2

All,

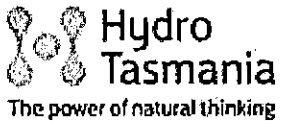
Please find attached our latest Dam Safety Status update.

This afternoon has been busy, apologies in the delayed update.

Please contact me if you have any questions regarding this update.

[REDACTED] will resume the Dam Safety Manager role this evening.

Regards,



[Redacted]
p [Redacted]
e [Redacted]@hydro.com.au
w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

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Emergency Event Message Form

Phone
 Verbal
 Electronic
 Inwards
 Outwards
 Internal

GENERAL MESSAGE:		
To: [REDACTED]	Position: [REDACTED]	
To: [REDACTED]	Position: [REDACTED]	
From: [REDACTED]	Position: [REDACTED]	
Subject: June Heavy Rainfall Event – Update Status 3	Date: 7/6/2016	Time: 8:00am
MESSAGE:		
OVERNIGHT:		
<p>Surveillance Engineer undertook flood forecast model checks at 7pm and midnight - models generally performing well. Numerous repeat alarms were received as expected.</p> <p>Little Pine Lagoon “Approaching Historic High” alarm triggered. Should reach HH this morning. Access from Great Lake is blocked by road closure at Great Lake Hotel. Will seek assistance from Upper Derwent resources to come the other way and get eyes on the structure today.</p> <p>An unusual spike in the leakage weir at Shannon Lagoon was picked up and Dam Safety staff sent to investigate last night. Leakage weir is inundated due to backwater from spillway, which we haven’t seen before. Dam itself performing well, no concerns.</p> <p>Inspection priorities today: Devils Gate Dam Mackenzie (pending access) Wilmott Dam Rowallan Dam Parangana Dam Little Pine Dam</p> <p>A Moderate Flood Warning for the Lower Derwent has been issued by BOM as a result of large flows down the Ouse River, combining with modest spills from our dams.</p> <p>DSM: [REDACTED]. Next update to be issued Tuesday afternoon, 7th June 2016.</p>		
Signature:	Position:	
REPLY:		
Date:	Time:	Signature/Position:

Action to be taken

To be Actioned Information Only File

[REDACTED]

From: [REDACTED]
Sent: Tuesday, 7 June 2016 9:07 AM
To: [REDACTED]
Cc: [REDACTED]
Subject: FW: More road blockages
Attachments: image3.JPG; image2.JPG; image1.JPG

Road issues in NW. Reason why we haven't be able to get to many of the sites.

Near Liena and near Palooona

[REDACTED]

p [REDACTED]
e [REDACTED]@hydro.com.au
w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

View the latest water levels at <http://www.hydro.com.au/water/water-levels-and-flows-map>

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-----Original Message-----

From: [REDACTED]
Sent: Tuesday, 7 June 2016 9:04 AM
To: [REDACTED]
Subject: More road blockages

Hello

In addition to Palooona Dam Road being not passable so is the road into Lemonthyme PS and the road about 5 Ks down from Lemonthyme turnoff at the Mersey lookout. Photos attached.

[REDACTED]







From: [REDACTED]
Sent: Tuesday, 7 June 2016 9:36 AM
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: Dam Safety Feedback

Thanks for the update [REDACTED]

From: [REDACTED]
Sent: Tuesday, 7 June 2016 9:35 AM
To: [REDACTED]
Cc: [REDACTED]
Subject: Dam Safety Feedback

There had been some interest in safety of dams given record rainfall levels. Please note Paloona status specifically. Below is the updated summary report FYI

Two small earthquakes received early this morning which are not of dam safety concern.

Dam (Lake)	Approx. Current spill over FSL	24hr Forecast Storage Trend	Historic High Reached in Storage	Response
Devils Gate (Lake Barrington)	2.09m	↓	Exceeded historic high (+0.12m)	Area staff completed visual inspection with no dam safety concerns . Dam Safety monitoring offline.
Rowallan	1.2m	↑	Approaching historic high	Forecasted to exceed historic high in the next 24hrs. Area staff completed visual inspection with no dam safety concerns .
Trevallyn	1.5m	↑	-	Area staff to inspected today, inspection 3 times per day while on spill.
Cethana	4.4m	↓	Exceeded historic high (+1.08m)	Area staff completed visual inspection with no dam safety concerns .
Augusta	0.5m	↓	Exceeded historic high (+0.19m) and 0.3m off design Flood Level	Dam Safety team inspected, no dam safety concerns . Remote monitoring offline – v-notch only.
Wilmot (Gardiner)	1.6m	↓	-	Area staff completed visual inspection with no dam safety concerns .
Mackenzie	0.6m	↓	Exceeded historic high (+0.5m)	Area staff unable to visual inspect due to road access . Over 350mm rain fallen in the last 24hrs. Peak observed at 9pm

Dam (Lake)	Approx. Current spill over FSL	24hr Forecast Storage Trend	Historic High Reached in Storage	Response
				5/6/2016.
Paloona	4.3m	↓	Exceeded historic high (+1.096m)	Area staff completed visual inspection with no dam safety concerns . [Redacted]
Parangana	1.9m	↓	Exceeded historic high (+0.07m)	Area staff have made attempts to inspect dam, no report back as yet. Flooded v-notch due to spill.
Woods Lake	-1.35m	↑	-	Dam Safety team inspected, no dam safety concerns .
Murchison	-0.7m	↑	-	Catchment has not been subjected to inflows seen in the Mersey Forth. Forecasting to go on 1m spill.
Meadowbank	Gate controlled	↑	-	Meadowbank now on spill. Spillway Gate maintenance performed on Friday. Some uncertainty in inflows due to Ouse River flow monitoring sites down.
Lake Margaret	-0.4m	↑	-	Not on spill.
Pine Tier	1.6m	↓	-	Forecasting model not performing well with rainfall event.
Catagunya	-0.5m	↑	-	Dam Safety monitoring offline.

Not relevant to request

Best Regards,

[Redacted signature]



p [Redacted]
e [Redacted]@hydro.com.au
w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

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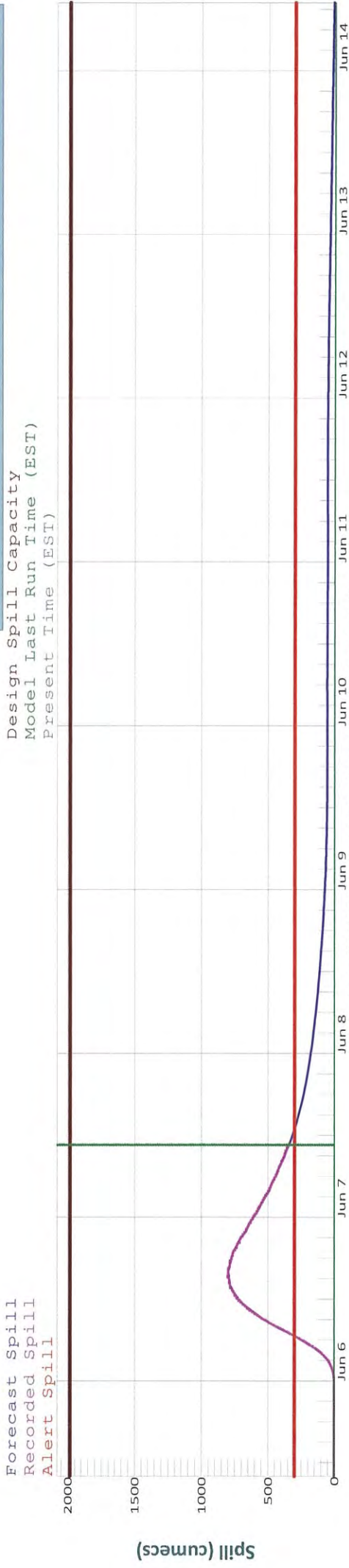
Please consider the environment before printing my email

From: Time Series Notify on behalf of DamSafetyAlert@hydro.com.au
Sent: Tuesday, 7 June 2016 9:48 AM
To: List-DSEP@streetdata.com.au; Dam Safety Manager Opportunity Roster
Cc: TimeSeries Admin; RMI (Info Group); Spot Traders; Telemetry; Hydrology Support
Subject: ALERT 2016-06-07 10:47:09 DSEP FLOOD ALERT Lake Paloona has exceeded the historic high water level.
Attachments: oaa_627_1_204.x_plot.tso.pdf

DSEP FLOOD ALERT: Lake Paloona has exceeded the historic high water level. Please refer to the attached plot to see forecasted and observed data. Please note that this alarm will only be reissued every 24 hours. The observed and forecasted data should be monitored through TimeStudio or the Dam Safety website for the next 24 hours. This message was sent by an automated system. If you received this in error please contact timeseriesadmin@hydro.com.au and mention ID 'OAA 627.1/204.30/2'

Some graph traces will only appear when the lake level approaches that value.

Lake Paloona Flood Forecast



50 % Lower Forth		Alert Level		FSL	
Threshold Level (m)	61.14	Alert Level	55.69	FSL	53.34
Spill (m ³ /s)	1980.79	HH	56.63		0.00
			300.26		

From: Time Series Notify on behalf of DamSafetyAlert@hydro.com.au
Sent: Tuesday, 7 June 2016 9:48 AM
To: List-DSEP@streetdata.com.au; Dam Safety Manager Opportunity Roster
Cc: TimeSeries Admin; RMI (Info Group); Spot Traders; Telemetry; Hydrology Support
Subject: ALERT 2016-06-07 10:47:38 DSEP FLOOD ALERT Lake Barrington has exceeded the historic high water level.
Attachments: oaa_604_1_204.x_plot.tso.pdf

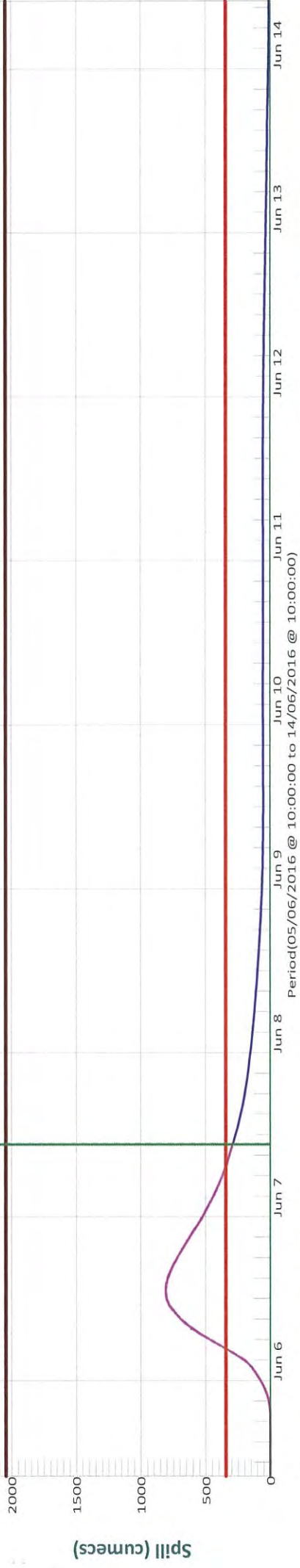
DSEP FLOOD ALERT: Lake Barrington has exceeded the historic high water level. Please refer to the attached plot to see forecasted and observed data. Please note that this alarm will only be reissued every 24 hours. The observed and forecasted data should be monitored through TimeStudio or the Dam Safety website for the next 24 hours. This message was sent by an automated system. If you received this in error please contact timeseriesadmin@hydro.com.au and mention ID 'OAA 604.1/204.30/2'

Some graph traces will only appear when the lake level approaches that value.

Lake Barrington Flood Forecast

Forecast Spill
Recorded Spill
Alert Spill

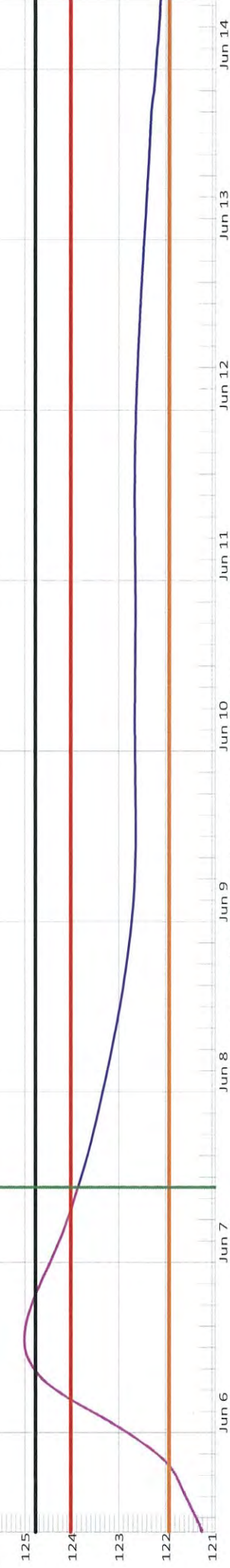
Design Spill Capacity
Model Last Run Time (EST)
Present Time (EST)



Forecast Lake Level
Recorded Lake Level
Alert Level - 1:20 AEP

Model Last Run Time (EST)
Present Time (EST)

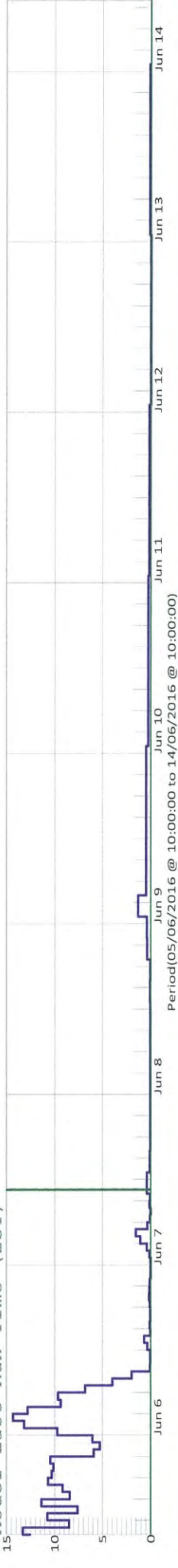
Level (m)



Lower Forth Catchment Precipitation

Model Last Run Time (EST)

Rainfall (mm/hr)



Rainfall Gauge Availability
(-6hrs)

50 % Lower Forth

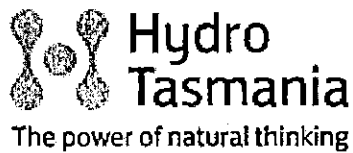
Threshold Level (m)	DFL	HH	Alert Level	FSL
126.80	2044.35	672.97	124.02	121.92
2044.35			343.46	0.00

[REDACTED]

From: [REDACTED]
Sent: Tuesday, 7 June 2016 9:51 AM
To: [REDACTED]
Cc: [REDACTED]
Subject: Why (DPIPWE) Meander at Starthbridge has stopped
Attachments: IMG_3473.JPG.JPG

We aren't the only ones in this situation.

The site is little green shed on other side of bridge !



[REDACTED]
w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

View the latest water levels at <http://www.hydro.com.au/water/water-levels-and-flows-map>

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From: [REDACTED]
Sent: Tuesday, 7 June 2016 9:39 AM
To: [REDACTED]
Subject: RE: Flod stuff

Hi [REDACTED]
Meander is underwater see attached. I think Llewellyn may also be getting close to being under
Also lost Cam, Rubicon @ Tidal limit, possibly Latrobe
Many sites have water in them and have shorted out the batteries

From: [REDACTED]
Sent: Tuesday, 7 June 2016 9:30 AM
To: [REDACTED] (DPIPWE)
Subject: [REDACTED]

[REDACTED]
The road to Paloona dam attached !

FYI – we have issues with Llewellyn, hopefully fixed this afternoon.

I assume starthbridge is on the fix list

regards

[REDACTED]

View the latest water levels at <http://www.hydro.com.au/water/water-levels-and-flows-map>

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From: [redacted]
Sent: Monday, 6 June 2016 12:45 PM
To: [redacted]
Subject: RE: Any current photos of Devils gate or Parangana spill to share ?

We have to extend the rating for the following
Latrobe is rated to 10 m but is expected to hit 15m

- Flowerdale @ Moorleah Rds
- Mersey @ Latrobe
- Pipers @ Underwood
- Rubicon @ Tidal limit
- Rubicon @ Elizabeth Town
- Mole Creek
- Leven @ Bannons Bridge
- Ringarooma @ Branxholm
- Brid at Sledge Track
- Nile @ Deddington.

From: [redacted]
Sent: Monday, 6 June 2016 12:33 PM
To: [redacted] (DPIPWE)
Subject: RE: Any current photos of Devils gate or Parangana spill to share ?

Just having another go at extending Liena >1000 cumecs

Everything in the Ouse has also gone way above the curves.

[redacted]

View the latest water levels at <http://www.hydro.com.au/water/water-levels-and-flows-map>

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From: [REDACTED]
Sent: Monday, 6 June 2016 12:00 PM
To: [REDACTED]
Subject: RE: Any current photos of Devils gate or Parangana spill to share ?

Thanks [REDACTED]
Rating extension is going on here too
Latrobe is @ 13m

From: [REDACTED]
Sent: Monday, 6 June 2016 11:58 AM
To: [REDACTED] (DPIPWE)
Subject: RE: Any current photos of Devils gate or Parangana spill to share ?

Sorry

No access , roads are blocked

Busy just extending every rating way above where they have been before !!!

Best I can do is Deloraine

Floodwaters in Deloraine, Tasmania

Back in Tasmania, floodwaters are still rising, and have made some roads impassable.



View the latest water levels at <http://www.hydro.com.au/water/water-levels-and-flows-map>

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From: [REDACTED]
Sent: Monday, 6 June 2016 11:47 AM
To: [REDACTED]
Subject: Any current photos of Devils gate or Parangana spill to share ?

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[REDACTED]

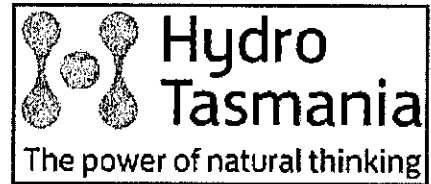
From: [REDACTED]
Sent: Tuesday, 7 June 2016 9:51 AM
To: [REDACTED]
Subject: Trevallyn catchment releases - Hydro Tasmania update

Good morning!

[REDACTED] the following release on the IFS website :

Trevallyn catchment release – Hydro Tasmania update

Due to heavy rain in the Trevallyn catchment over the past 48 hours Hydro Tasmania is forecasting Lake Trevallyn to go on spill in the next 12 hours.



In preparation for this Hydro Tasmania will be releasing 12 cubic metres per second down Cataract Gorge as a pre-emptive spill to warn the general public that an uncontrolled discharge event will be occurring in the next 12 hours.

Initial indicators suggest this will be a significant spill event.

[REDACTED]

[REDACTED]

Information exempt under Section 35 (1) (a) of the RTI Act 2009

Kind regards,



p [REDACTED]
e [REDACTED]
w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

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[REDACTED]

From: [REDACTED]
Sent: Tuesday, 7 June 2016 9:55 AM
To: [REDACTED]
Cc: [REDACTED]
Subject: FW: North Esk at Ballroom
Attachments: IMG_0894.JPG; IMG_0895.JPG; IMG_0896.JPG; IMG_0898.JPG

FYI



P [REDACTED]
e [REDACTED]
w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

View the latest water levels at <http://www.hydro.com.au/water/water-levels-and-flows-map>

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From: [REDACTED]
Sent: Tuesday, 7 June 2016 9:43 AM
To: [REDACTED]
Subject: FW: North Esk at Ballroom

Gauged at 290 cumecs, previous highest gauging was 135 cumecs

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[REDACTED]

From: [REDACTED]
Sent: Tuesday, 7 June 2016 10:22 AM
To: [REDACTED]
Cc: [REDACTED]
Subject: FW: dam releases

Hi [REDACTED]

Please see enquiry from ABC News below.

[REDACTED] is the journalist reporting directly from Ouse and covering the situation there.

Any chance you guys, [REDACTED] could convene a quick chat?

Cheers [REDACTED]



[REDACTED]
p [REDACTED]
e [REDACTED]
w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

From: [REDACTED]@abc.net.au]
Sent: Tuesday, 7 June 2016 10:18 AM
To: [REDACTED]
Subject: dam releases

Hi [REDACTED]

As discussed, is Hydro carrying out a water release program from some of their dams at the moment?

If so, where?

Can we get details about how much water is being released and how long the plan is expected to go for and I guess Why?

Also can we get some details about dams that are also "spilling"

Many thanks
[REDACTED]

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[REDACTED]

From: [REDACTED]
Sent: Tuesday, 7 June 2016 11:01 AM
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: Trevallyn catchment releases - Hydro Tasmania update
Attachments: Expected spill at Trevallyn Dam

Hi [REDACTED]

Yesterday at 8:22am [REDACTED] sent out the attached email to the "Trevallyn Level Notifications" distribution list. This action is a requirement of the Storage Operating Rule.

An email should be sent to the "Trevallyn Level Notifications" distribution list stating that the lake is predicted to spill and when the pre-emptive spill will be started.

(Compliance = desirable due to informal agreement or other commitment)

Regards,

Information exempt under Section 35 (1) (a) of the RTI Act 2009

From: [REDACTED]
Sent: Tuesday, 7 June 2016 9:51 AM
To: [REDACTED]
Subject: Trevallyn catchment releases - Hydro Tasmania update

Good morning!

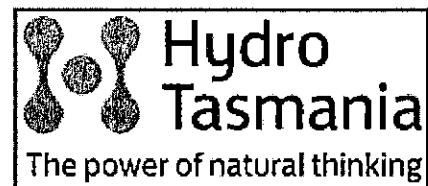
[REDACTED] the author of the following release on the IFS website :

Trevallyn catchment release – Hydro Tasmania update

Due to heavy rain in the Trevallyn catchment over the past 48 hours Hydro Tasmania is forecasting Lake Trevallyn to go on spill in the next 12 hours.

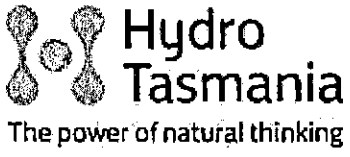
In preparation for this Hydro Tasmania will be releasing 12 cubic metres per second down Cataract Gorge as a pre-emptive spill to warn the general public that an uncontrolled discharge event will be occurring in the next 12 hours.

Initial indicators suggest this will be a significant spill event.



Please advise.

Kind regards,



p
e
w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

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From: Global Communications
Sent: Tuesday, 7 June 2016 11:10 AM
Subject: Driving in Flood Waters and Heavy Storms - Self-trigger on the amount of energy - (Global message for Hydro Tasmania, Entura and Momentum)

Hydro Tasmania

Hydro Tasmania

Hydro Tasmania

Please note this Outlook global message contains one message:

Driving in Flood Waters and Heavy Storms - Self-trigger on the amount of energy

More than half of flood-related deaths are as a result of driving through floodwater. Even if it looks calm, no one can predict what floodwater will do or what has happened to the road underneath. Any amount of swift flowing water can sweep away a light vehicle. **Don't risk it.**

- Think about the roads you regularly use and plan alternatives – is there a usually reliable alternative route or do you need a different Plan B?
- Discuss options with your manager. Is there a need to travel, can I telecommute, or have a delayed start or finish.
- Talk with schools and childcare centres about arrangements they can put in place if you are unable to collect children on time.
- Arrange for a relative or friend to be 'on call' to collect your children.
- When poor weather is forecast, tune-in to warnings and prepare for all possibilities.
- Understand and accept that floodwater could block all routes to a destination.
- Consider alternative forms of transport.
- Realise that your best plan may be to avoid travel altogether.
- Sometimes your only option will be to wait it out – in your car or spending time in a safe spot - be prepared for all options.
- Make sure your phone is charged and a charger is available in the car or at work.
- Keep water and snacks such as muesli bars in the car in case you are delayed.
- Keep a map, umbrella, torch and basic first aid kit in the car.
- If you or your children require regular medication, make sure this is available in any location it might be needed (school, childcare centre, workplace or your vehicle).
- If you are travelling in an unfamiliar area, seek out and pay close attention to advice from locals.
- Keep a written list of emergency phone numbers in your car, including 'on call' friends, school, work and neighbors.

Here are a couple of facts versus fiction:

FICTION "My vehicle can handle the water. It's a 4WD, heavy, diesel, has a high clearance and a snorkel"

As soon as you enter floodwater, you are giving up control of your vehicle and relying on luck to get you through. Each wet season, numerous well-equipped vehicles are 'owned' by floodwater, despite the confidence of their owners. Forget what kind of car you drive, no one can predict floodwater.

FACT "Even gently moving floodwater can wash away the road surface beneath"

Water which appears gently moving and calm on the surface, can be moving with extreme force, eroding everything in its way underneath. The bitumen surface, road base underneath, or pipes and earth below can easily be washed away, leaving multiple hazards hidden from a driver's view.

FICTION "I will receive a warning of some kind if the flooding is bad enough for me to not drive through the flooded road"

Road conditions can change rapidly during floods and storms, so authorities cannot know exactly what is happening at every creek crossing or causeway. Drivers should not expect a warning each time they face a risk. It is everyone's responsibility to be aware of changing conditions and to act safely.

FACT "If you drive through or move a 'road closed' sign, you could face embarrassing explanations to the police or fleet management"

The signs are there for a reason, to indicate a hazard, so obey them. Road Closed signs also apply when the water has subsided. Authorities will inspect the integrity of a structure before opening a crossing.

FICTION "The car in front of me got through okay, so I will be fine to do it too"

Forget what the car in front of you did and that they were lucky today. No one should drive through floodwater – it is too unpredictable. So if it is flooded, forget it! Make sure you have a Plan B.

FACT Fully equipped swift water technicians will only enter the water as a last resort"

Floodwater is dangerous and extremely unpredictable. If a person makes the decision to enter floodwaters, they not only put their life at risk, but also the lives of rescue personnel called to retrieve them. These emergency crews have families waiting for them, so is your decision to enter floodwater and get home to your family really worth the risk? Emergency crews are very busy during breaking weather events and your rescue potentially takes them away from other important duties.

FICTION "It's safe to cross floodwater in some circumstances, as long as I check the water depth and flow first"

Assessing the safety of entering floodwater is flawed and dangerous. Once you enter floodwater you give up control. It takes very little water to float a car or sweep a car away. It takes even less water to stall an engine, leaving you stranded and at the mercy of the floodwater. The only guaranteed option for safety is to enact your Plan B and turn around.

Please avoid travel in flooded areas if at all possible, but if it is absolutely necessary, consider the points raised above.

For further details, contact @hydro.com.au



[REDACTED]

From: [REDACTED]
Sent: Tuesday, 7 June 2016 11:16 AM
To: [REDACTED]
Subject: RE: ABC enquiry on dam safety

[REDACTED]

Information exempt under Section 35
(1) (a) of the RTI Act 2009

From: [REDACTED]
Sent: Tuesday, 7 June 2016 10:57 AM
To: [REDACTED]
Cc: [REDACTED]
Subject: ABC enquiry on dam safety
Importance: High

Good morning [REDACTED]

The ABC's [REDACTED] is at Trevallyn Dam reporting on the floods (scroll down on this page:
<http://www.abc.net.au/news/2016-06-07/east-coast-storm-nsw-tasmania-mop-up-after-damaging-flood/7483816>)

He's asked for an on camera interview, [REDACTED]

Information exempt under Section 35
(1) (a) of the RTI Act 2009

I've offered to provide information to him instead. Proposed response below for your review.

[REDACTED]

Information exempt under Section 35
(1) (a) of the RTI Act 2009

Regards,

[REDACTED]

Information exempt under Section 35 (1) (a) of the RTI Act 2009

[REDACTED]



From: [redacted]@abc.net.au]
Sent: Tuesday, 7 June 2016 10:35 AM
To: [redacted]
Subject: Re: Trevallyn Dam

Thanks [redacted]

[redacted] would be looking at talking to someone live but we could do a prerecord depending on timing. Basically we would just be looking for someone to talk about the sheer volume of water affecting all the rivers and dams throughout the state .. How much this has overcome the big dry .. Do you check structural integrity when there is this much water .. Are holding back releases from other rivers into the south Esk system

Thanks [redacted]

On 7 Jun 2016, at 10:23 AM, [redacted]@hydro.com.au> wrote:

Hi [redacted]

Thanks for your call. Will look into getting you someone on camera.

Can you confirm whether this would be pre-recorded or live.

Also, please confirm the information you want to cover in the interview. While Trevallyn is visually spectacular, it's just one dam in a statewide system.

Regards,



<image001.jpg>

p [redacted]
e [redacted]
w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

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[REDACTED]

From: [REDACTED]
Sent: Tuesday, 7 June 2016 11:19 AM
To: [REDACTED] 3 Hydro Staff
Cc:
Subject: RE: Trevallyn catchment releases - Hydro Tasmania update

Hi

In the lead up to a flood we try to draw the water level at Lake Trevallyn down to minimise spill. The emails are sent out by the control desk.

[REDACTED]

From: [REDACTED]
Sent: Tuesday, 7 June 2016 9:51 AM
To: [REDACTED]
Subject: Trevallyn catchment releases - Hydro Tasmania update

Good morning!

[REDACTED]

Trevallyn catchment release – Hydro Tasmania update

Due to heavy rain in the Trevallyn catchment over the past 48 hours Hydro Tasmania is forecasting Lake Trevallyn to go on spill in the next 12 hours.

In preparation for this Hydro Tasmania will be releasing 12 cubic metres per second down Cataract Gorge as a pre-emptive spill to warn the general public that an uncontrolled discharge event will be occurring in the next 12 hours.

Initial indicators suggest this will be a significant spill event.



[REDACTED]

Please advise.

Kind regards,

[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Tuesday, 7 June 2016 11:22 AM
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: ABC enquiry on dam safety

Please also note that Trevallyn Dam has not seen the flood peak, our models are predicting the peak tomorrow morning.

For your reference/context - our models are predicting a possible historic high for the Dam which we last saw in 1969.



p [REDACTED]
e [REDACTED]
w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

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From: [REDACTED]
Sent: Tuesday, 7 June 2016 10:57 AM
To: [REDACTED]
Cc: [REDACTED]
Subject: ABC enquiry on dam safety
Importance: High

Good morning [REDACTED]

The ABC's [REDACTED] is at Trevallyn Dam reporting on the floods (scroll down on this page:
<http://www.abc.net.au/news/2016-06-07/east-coast-storm-nsw-tasmania-mop-up-after-damaging-flood/7483816>)

He's asked for an on camera interview, [REDACTED]

I've offered to provide information to him instead. Proposed response below for your review.

[REDACTED]

Regards,

[REDACTED]

DRAFT RESPONSE

[REDACTED]

[REDACTED]

From: [REDACTED]@abc.net.au]
Sent: Tuesday, 7 June 2016 10:35 AM
To: [REDACTED]
Subject: Re: Trevallyn Dam

Thanks [REDACTED]

[REDACTED] would be looking at talking to someone live but we could do a prerecord depending on timing. Basically we would just be looking for someone to talk about the sheer volume of water affecting all the rivers and dams throughout the state .. How much this has overcome the big dry .. Do you check structural integrity when there is this much water .. Are holding back releases from other rivers into the south Esk system

Thanks
[REDACTED]

On 7 Jun 2016, at 10:23 AM, [REDACTED]@hydro.com.au> wrote:

Hi [REDACTED]

Thanks for your call. Will look into getting you someone on camera.

Can you confirm whether this would be pre-recorded or live.

Also, please confirm the information you want to cover in the interview. While Trevallyn is visually spectacular, it's just one dam in a statewide system.

Regards,
[REDACTED]

<image001.jpg>

p
e
w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

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-
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[REDACTED]

From: [REDACTED]
Sent: Tuesday, 7 June 2016 12:06 PM
To: [REDACTED]
Subject: RE: ABC enquiry on dam safety

Thanks [REDACTED]

I see in BOM's latest forecast release -

A Major flood warning is current for the South Esk River. The South Esk River at Trevallyn Pond is expected to peak between 131.10 and 131.50 metres (2300 to 2500 cumecs) overnight Tuesday into Wednesday.



[REDACTED]
p [REDACTED]
e [REDACTED]
w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

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From: [REDACTED]
Sent: Tuesday, 7 June 2016 11:43 AM
To: [REDACTED]
Cc: [REDACTED]
Subject: FW: ABC enquiry on dam safety
Importance: High

Hi [REDACTED]

The lines below (for ABC 24) have been updated following discussion with [REDACTED], and the meeting with yourself. [REDACTED] has delegated approval to [REDACTED]

Changed sections are highlighted - can you approve for release?

[REDACTED]

From: [REDACTED]
Sent: Tuesday, 7 June 2016 10:57 AM
To: [REDACTED]
Cc: [REDACTED]
Subject: ABC enquiry on dam safety
Importance: High

Good morning [REDACTED]

The ABC's [redacted] is at Trevallyn Dam reporting on the floods (scroll down on this page:
<http://www.abc.net.au/news/2016-06-07/east-coast-storm-nsw-tasmania-mop-up-after-damaging-flood/7483816>)

He's asked for an on camera interview, [redacted]

Information exempt under Section 35 (1)
(a) of the RTI Act 2009

I've offered to provide information to him instead. Proposed response below for your review.

Information exempt under Section
35 (1) (a) of the RTI Act 2009

Regards,

[redacted]

Information exempt under Section 35 (1) (a) of the RTI Act 2009

DRAFT RESPONSE

From: [redacted]@abc.net.au]
Sent: Tuesday, 7 June 2016 10:35 AM
To: [redacted]
Subject: Re: Trevallyn Dam

Thanks [redacted]

[redacted] would be looking at talking to someone live but we could do a prerecord depending on timing. Basically we would just be looking for someone to talk about the sheer volume of water affecting all the rivers and dams throughout the state .. How much this has overcome the big dry .. Do you check structural integrity when there is this much water .. Are holding back releases from other rivers into the south Esk system

Thanks

On 7 Jun 2016, at 10:23 AM, [REDACTED]@hydro.com.au> wrote:

Hi [REDACTED]

Thanks for your call. Will look into getting you someone on camera.

Can you confirm whether this would be pre-recorded or live.

Also, please confirm the information you want to cover in the interview. While Trevallyn is visually spectacular, it's just one dam in a statewide system.

Regards,

<image001.jpg>

p [REDACTED]
e [REDACTED]
w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

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[REDACTED]

From: [REDACTED]@taswater.com.au>
Sent: Tuesday, 7 June 2016 12:23 PM
To: [REDACTED]
Subject: Derwent River Flows

Hi [REDACTED]

I'm just enquiring as to whether there will be any operational movements on the Derwent in the next 24hrs that may/may not affect us downstream.

I did notice that spillage is on all the Derwent Dams on your web-site.

Cheers,

[REDACTED]

The logo for Taswater, featuring the word "Taswater" in a bold, sans-serif font. Above the letter 'a' in "Taswater", there is a stylized graphic of a dam or bridge structure with water flowing over it.

D [REDACTED]
M [REDACTED]
F [REDACTED]
A GPO Box 1393, Hobart TAS 7001
10-18 Birdwood Avenue, Moonah, TAS 7009
E [REDACTED]@taswater.com.au
W <http://www.taswater.com.au/>

Have I been helpful? Please provide feedback by clicking [here](#).

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[Redacted]

From: [Redacted]
Sent: Tuesday, 7 June 2016 12:30 PM
To: [Redacted]
Cc: [Redacted]
Subject: RE: ABC enquiry on dam safety

My suggested changes

[Redacted]

Not relevant to request

From: [Redacted]
Sent: Tuesday, 7 June 2016 10:57 AM
To: [Redacted]
Cc: [Redacted]
Subject: ABC enquiry on dam safety
Importance: High

Good morning [Redacted]

The ABC's [Redacted] is at Trevallyn Dam reporting on the floods (scroll down on this page:
<http://www.abc.net.au/news/2016-06-07/east-coast-storm-nsw-tasmania-mop-up-after-damaging-flood/7483816>)

He's asked for an on camera interview, [Redacted]

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I've offered to provide information to him instead. Proposed response below for your review.

[Redacted]

Regards,

Information exempt under Section 35 (1) (a) of the RTI Act 2009

[Redacted]

[Redacted]

From: [REDACTED]@abc.net.au]
Sent: Tuesday, 7 June 2016 10:35 AM
To: [REDACTED]
Subject: Re: Trevallyn Dam

Thanks [REDACTED]

[REDACTED] would be looking at talking to someone live but we could do a prerecord depending on timing. Basically we would just be looking for someone to talk about the sheer volume of water affecting all the rivers and dams throughout the state .. How much this has overcome the big dry .. Do you check structural integrity when there is this much water .. Are holding back releases from other rivers into the south Esk system

Thanks
[REDACTED]

On 7 Jun 2016, at 10:23 AM, [REDACTED]@hydro.com.au> wrote:

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Can you confirm whether this would be pre-recorded or live.

Also, please confirm the information you want to cover in the interview. While Trevallyn is visually spectacular, it's just one dam in a statewide system.

Regards,
[REDACTED]

<image001.jpg>

P
e

w www.hydro.com.au

4 Elizabeth Street, Hobart TAS 7000

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[REDACTED]

From: [REDACTED]
Sent: Tuesday, 7 June 2016 12:31 PM
To: [REDACTED]
Cc:
Subject: RE: Ouse at ashton back on line [SEC=UNCLASSIFIED]

Thanks [REDACTED] Terrific.

[REDACTED]

[REDACTED]

"Important: This message may contain confidential or legally privileged information. If you think it was sent to you by mistake, please delete all copies and advise the sender."

From: [REDACTED]@hydro.com.au]
Sent: Tuesday, 7 June 2016 12:21 PM
To: [REDACTED]
Subject: Ouse at ashton back on line

[REDACTED]

FYI
logger data from about 12:00 today.
Peak height obtained from debris survey,

[REDACTED]

From: [REDACTED]
Sent: Tuesday, 7 June 2016 12:31 PM
To: [REDACTED]
Cc:
Subject: RE: Ouse at ashton back on line [SEC=UNCLASSIFIED]

Thanks [REDACTED] Terrific.

[REDACTED]

[REDACTED]

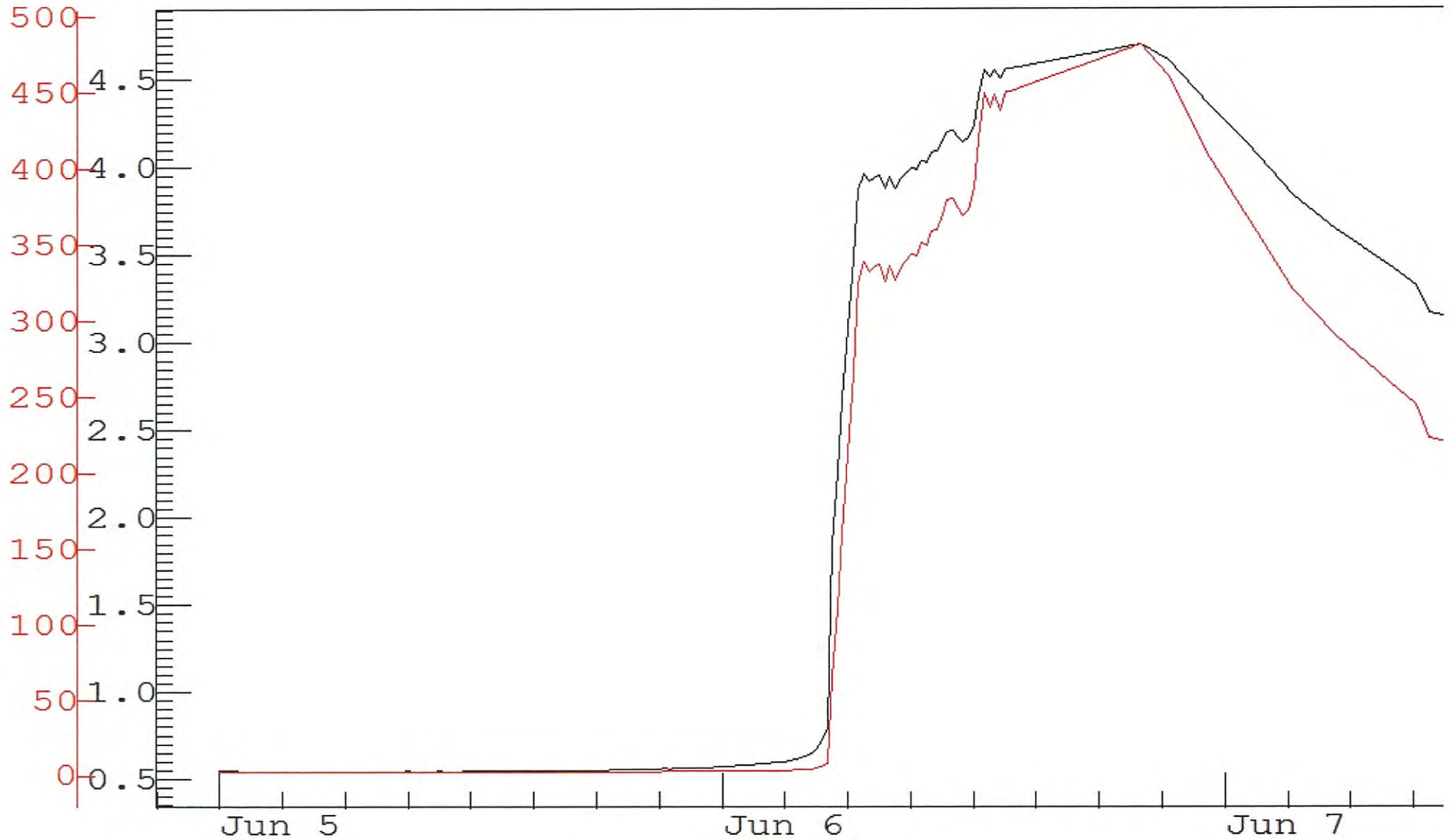
"Important: This message may contain confidential or legally privileged information. If you think it was sent to you by mistake, please delete all copies and advise the sender."

From: [REDACTED]@hydro.com.au]
Sent: Tuesday, 7 June 2016 12:21 PM
To: [REDACTED]
Subject: Ouse at ashton back on line

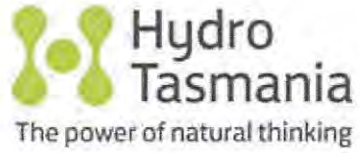
[REDACTED]

FYI
logger data from about 12:00 today.
Peak height obtained from debris survey,

358.1/100.00/1: OUSE RIVER [AT ASHTON] - Level (m)
358.1/140.00/1: OUSE RIVER [AT ASHTON] - Flow (Cumecs)



regards



F
E
www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

View the latest water levels at <http://www.hydro.com.au/water/water-levels-and-flows-map>

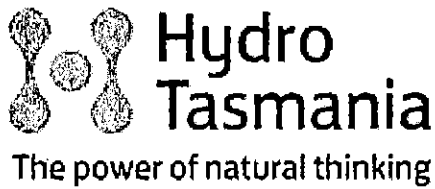
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[REDACTED]

From: [REDACTED]
Sent: Tuesday, 7 June 2016 12:52 PM
To: [REDACTED]
Subject: FW: Better than [REDACTED] pics
Attachments: 20082011(003).jpg; 20082011(004).jpg; 20082011(005).jpg; 20082011(006).jpg;
20082011(007).jpg; 20082011(008).jpg; 20082011.jpg; 20082011(001).jpg;
20082011(002).jpg

Photos of the gorge with 1500cumecs in 2011, we expect another 1000CM on top of this tonight



[REDACTED]
e [REDACTED]
w www.hydro.com.au
r [REDACTED]
p [REDACTED]

4 Elizabeth Street, Hobart TA5 7000

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[REDACTED]

From: [REDACTED]
Sent: Tuesday, 7 June 2016 1:04 PM
To: [REDACTED]
Subject: Document15.docx
Attachments: Document15.docx

I'm happy with this version

Unprecedented rainfall has fallen across several of Hydro Tasmania's catchments in the past 48 hours. Our operational focus at this time is [REDACTED] on the safety of our people, the public and our assets [REDACTED].

Information exempt under Section 35 (1) (a) of the RTI Act 2009

The heavy rain has resulted in widespread spill from many lakes in the Pieman, Mersey-Forth, Derwent-Nive catchments and at Trevallyn Dam. Following record inflows in May, the majority of our small and medium storages were already quite full.

In some cases, Hydro Tasmania can reduce the outflow from some dams and/or divert water away from flood-affected rivers. These measures are being taken where practical to do so, but are very limited in their effect during an extreme weather event such as this. Spill becomes unavoidable.

At Trevallyn Dam, water is currently spilling at the rate of 1300 cubic metres per second, or just under 113 000 megalitres per day at this rate of spill. Trevallyn Dam has not reached the peak event yet. [REDACTED]

Information exempt under Section 35 (1) (a) of the RTI Act 2009

Some of the flood flows being experienced are at historical highs. There is no known damage to any of our dams or spillways, which are operating [REDACTED] within their design parameters. Floodwaters have caused damage to some of Hydro Tasmania's secondary assets, mainly landslips and road damage as well as failure of some river flow monitoring sites. Until the water subsides, it is not possible to assess the extent of that damage.

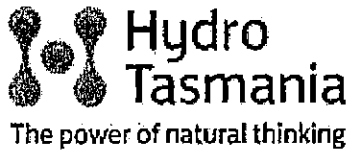
Hydro Tasmania ~~has urged~~ people to heed the advice of Tasmania Police and the State Emergency Service, be aware and take notice of warnings from the Bureau of Meteorology.

[Redacted]

From: [Redacted]
Sent: Tuesday, 7 June 2016 1:13 PM
To: [Redacted] (StateGrowth)
Cc: [Redacted] (StateGrowth)
[Redacted]@stategrowth.tas.gov.au
Subject: [Redacted] report 7 June
Attachments: Report to [Redacted] 2016 June 7.pdf

Hi [Redacted]

Please find attached [Redacted] report for today's meeting



[Redacted]
p
e
w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

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Report to WSAC meeting 7 June 2016

The following report is provided by Hydro Tasmania to the Water Storage Advisory Committee and contains the following sections:

1. Current storage position 2
2. 
- 3.
- 4.

1. Current storage position

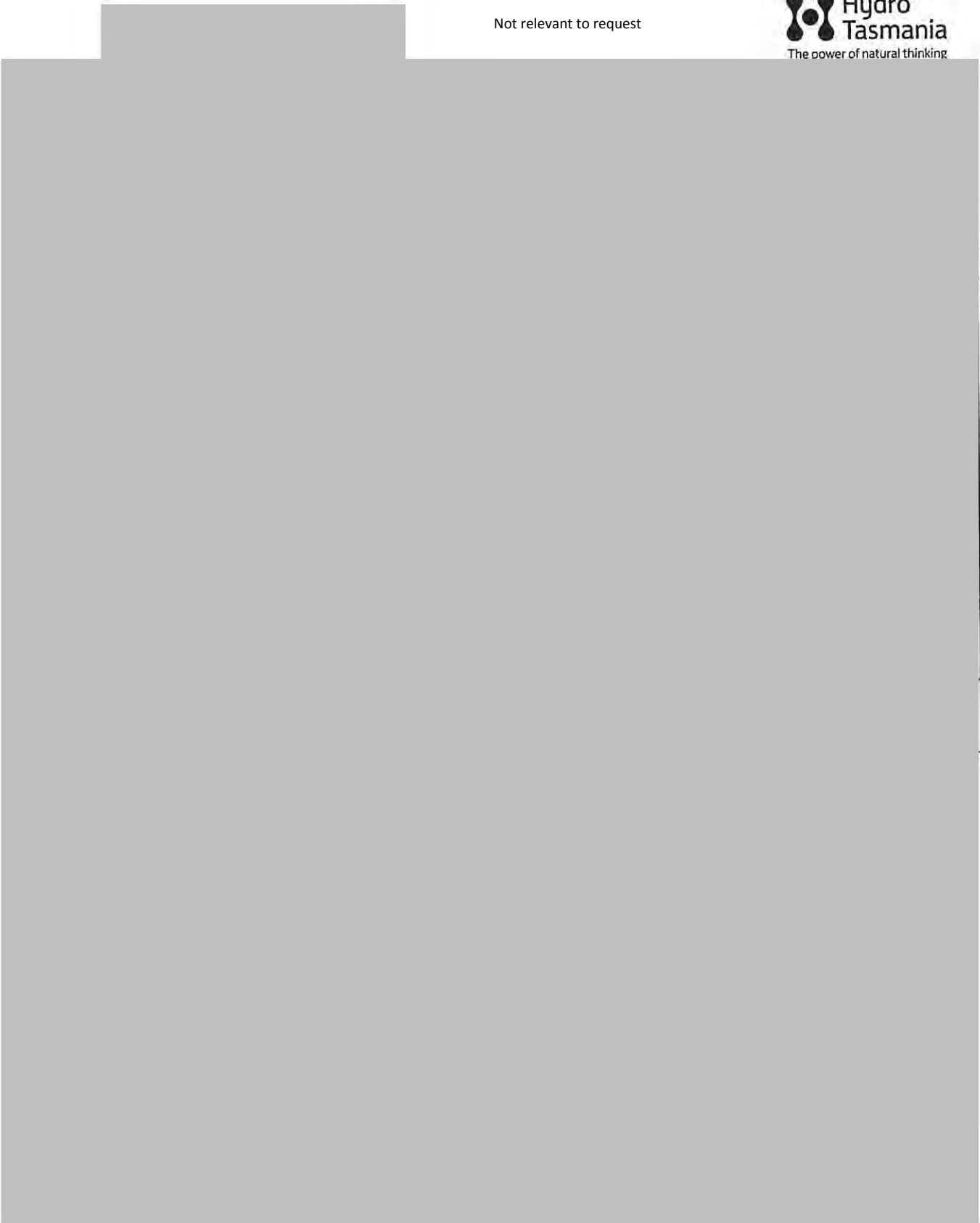
Storage	6/6/2016	30/5/2016	7 day change
Total Energy In Storage (TEIS)	23.6%	23.0%	+0.6%
Lake Gordon	11.9%	11.6%	+0.3%
Great Lake	16.6%	0.9%	+1.0%

Last week saw only minor rainfalls up until Sunday, which saw the beginning of significant rain across most of the catchments. There were some extremely heavy localised rainfalls, including over 300 mm in one day at Lake Mackenzie and Gwendy Lake in the Central Highlands. Rain is expected to continue through the week before clearing on the weekend. We expect significant inflows into the storages over the week.

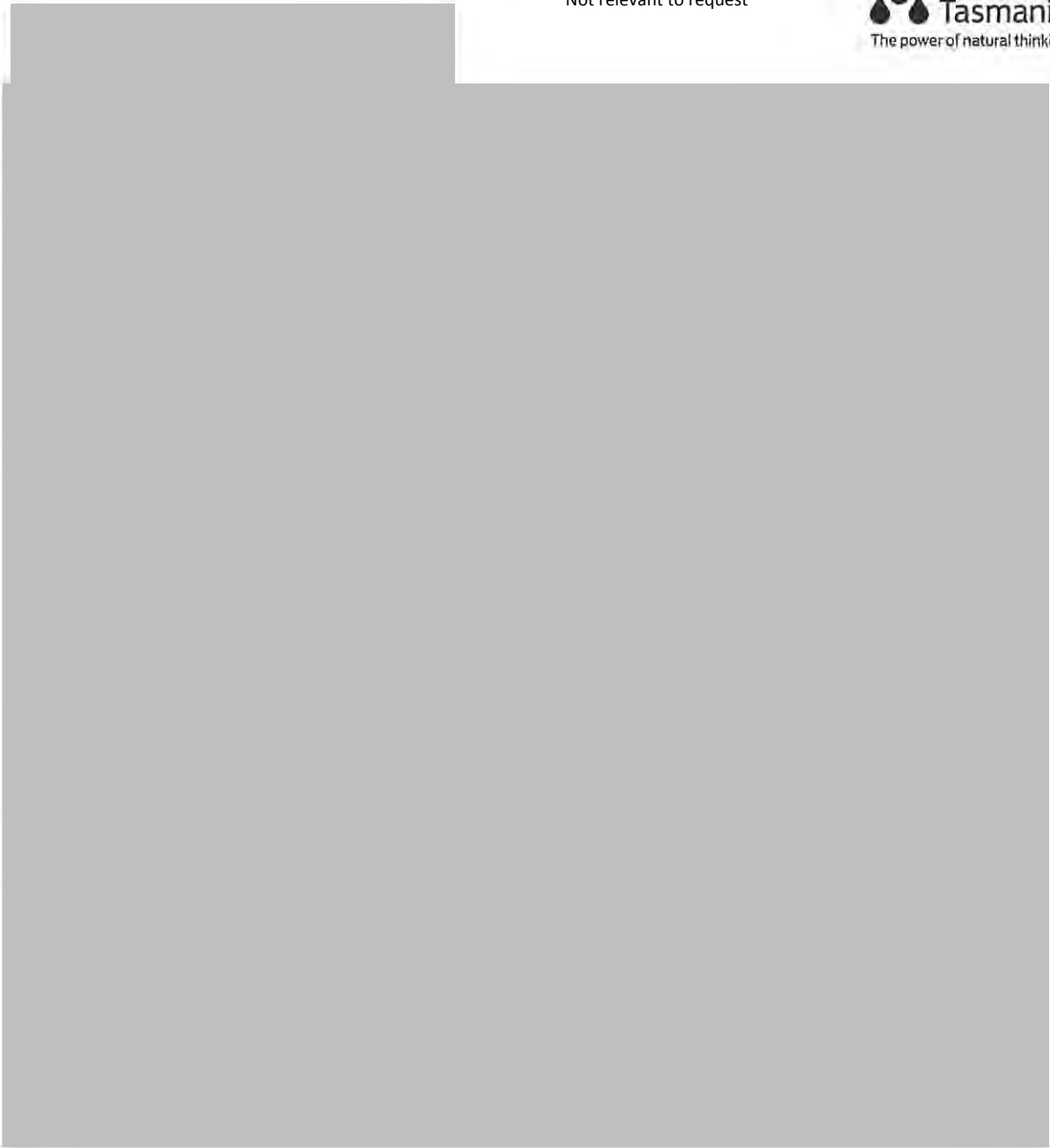
Our immediate focus is on the safety of our people, the public and our infrastructure (dams and canals). Where practical we are reducing the outflows from dams and diverting water away from rivers that are in flood.



Not relevant to request



Not relevant to request





Not relevant to request



[REDACTED]

From: [REDACTED]
Sent: Tuesday, 7 June 2016 1:17 PM
To: [REDACTED]
Cc: [REDACTED]
Subject: Ouse at 3B weir
Attachments: IMG_4510.JPG; ATT00001.txt

07/06/2016 @1300

Weir in main channel at bottom of page.



w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

View the latest water levels at <http://www.hydro.com.au/water/water-levels-and-flows-map>

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-----Original Message-----

From: [REDACTED]
Sent: Tuesday, 7 June 2016 1:06 PM
To: [REDACTED]
Subject: 3B



[REDACTED]

From: [REDACTED]
Sent: Tuesday, 7 June 2016 1:17 PM
To: [REDACTED]
Cc: [REDACTED]
Subject: North Esk

Hi [REDACTED]
I have had a look at the North Esk @ Ballroom record for max stage

The 1929 value was 3.8m in April. The issue with this will be it is a daily read value so depending on the time of reading it may or may not be the actual maximum height. The other issue will be where this is related to as a bench mark which would need to be checked.

There has been a value higher of 3.9m in August 2005.

Yesterday's reading was 4.383 m but is likely to need some verification.

Hope this assists

[REDACTED]

Department of Primary Industries, Parks, Water and Environment
Tasmania
13 St Johns Avenue
New Town,
TASMANIA 7008
e-mail : [REDACTED] [@dpiuwe.tas.gov.au](mailto:[REDACTED]@dpiuwe.tas.gov.au)
Ph : [REDACTED]
Mobi : [REDACTED]
Fax : [REDACTED]

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If the transmission contains advice, the advice is based on instructions in relation to, and is provided to the addressee in connection with, the matter mentioned above. Responsibility is not accepted for reliance upon it by any other person or for any other purpose."

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[REDACTED]

From: [REDACTED]@bom.gov.au
Sent: Tuesday, 7 June 2016 1:29 PM
To: [REDACTED]
Cc:
Subject: RE: Sth esk back up [SEC=UNCLASSIFIED]

Thanks I got those ones ... there will be more data coming?

Regards

[REDACTED]

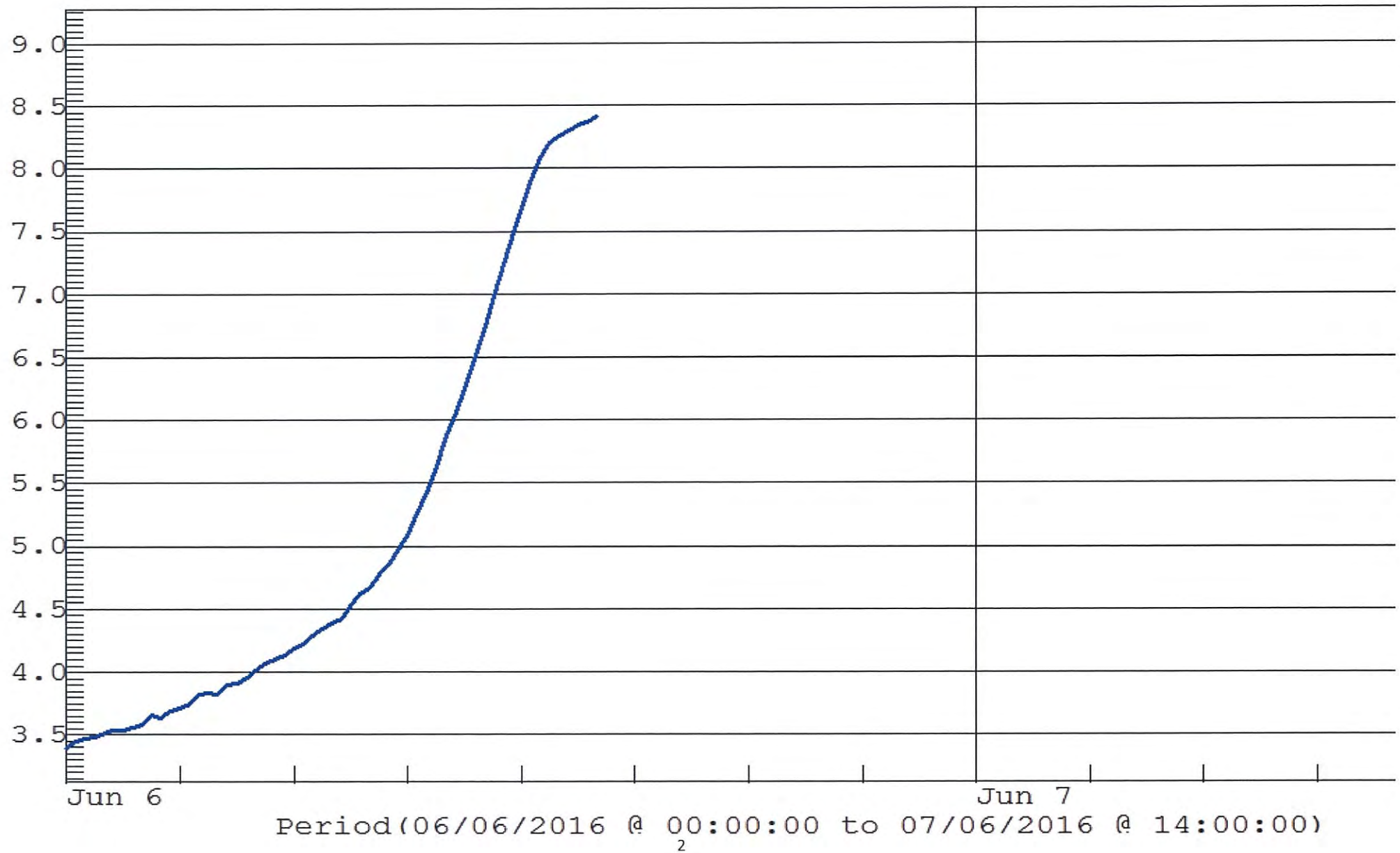
"Important: This message may contain confidential or legally privileged information. If you think it was sent to you by mistake, please delete all copies and advise the sender."

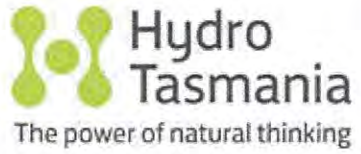
From: [REDACTED]@hydro.com.au]
Sent: Tuesday, 7 June 2016 1:27 PM
To: [REDACTED]
Cc: [REDACTED]
Subject: Sth esk back up

Hi [REDACTED]

See couple points at end of gap 8.964m

150.1/100.00/1: SOUTH ESK [AT LLEWELLYN] - Level (m)





p [redacted]
e [redacted]
w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

View the latest water levels at <http://www.hydro.com.au/water/water-levels-and-flows-map>

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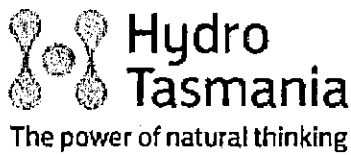
[REDACTED]

From: [REDACTED]
Sent: Tuesday, 7 June 2016 2:01 PM
To: [REDACTED]
Cc: [REDACTED]
Subject: FW: Ouse b/l liawenee near the peak
Attachments: Feb 2014 (16) Ratings trip.JPG

See link for zipped movie

\\tsmfile_prod\TStudio\data\Sites\00000028\0001\Photos\Ouse bl Liawenee 06062016 flood near peak.zip

FYI a reminder of what it normally looks like attached.



p [REDACTED]
e [REDACTED]@hydro.com.au
w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

View the latest water levels at <http://www.hydro.com.au/water/water-levels-and-flows-map>

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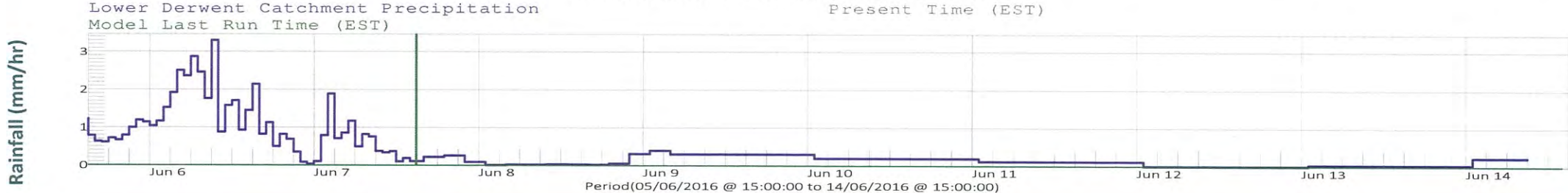
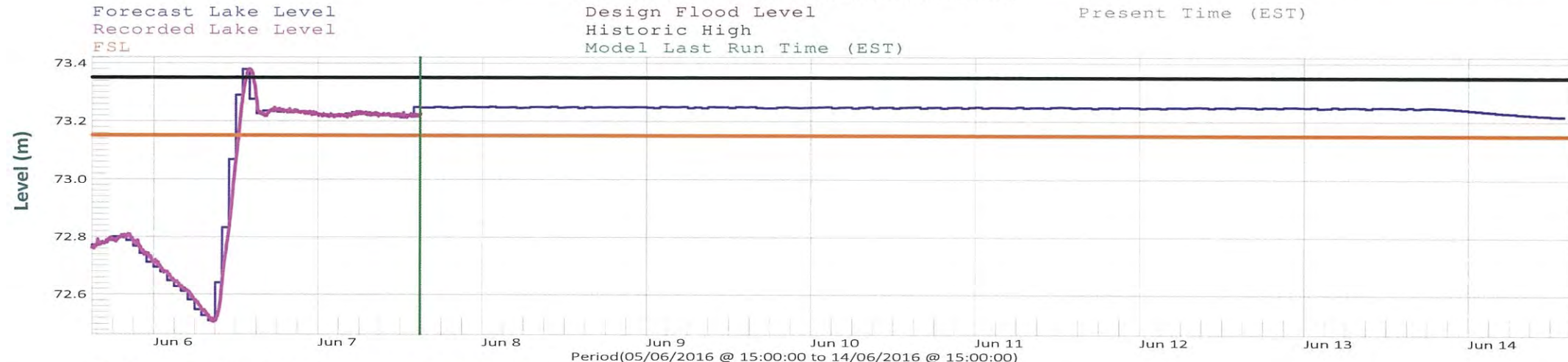


From: Time Series Notify on behalf of DamSafetyAlert@hydro.com.au
Sent: Tuesday, 7 June 2016 2:04 PM
To: List-DSEP@streetdata.com.au; Dam Safety Manager Opportunity Roster
Cc: TimeSeries Admin; RMI (Info Group); Spot Traders; Telemetry; Hydrology Support
Subject: ALERT 2016-06-07 15:04:05 DSEP FLOOD ALERT Lake Meadowbank has exceeded the historic high water level.
Attachments: oaa_565_1_204.x_plot.tso.pdf

DSEP FLOOD ALERT: Lake Meadowbank has exceeded the historic high water level. Please refer to the attached plot to see forecasted and observed data. Please note that this alarm will only be reissued every 24 hours. The observed and forecasted data should be monitored through TimeStudio or the Dam Safety website for the next 24 hours. This message was sent by an automated system. If you received this in error please contact timeseriesadmin@hydro.com.au and mention ID 'OAA 565.1/204.30/2'

Some graph traces will only appear when the lake level approaches that value.

Lake Meadowbank Historic High



Rainfall Gauge Availability (-6hrs)	100 % Lower Derwent	Threshold	DFL	HH	FSL
		Level (m)	79.00	73.35	73.15
		Spill (m ³ /s)	NO CONV	NO CONV	NO CONV

[Redacted]

From: [Redacted]
Sent: Tuesday, 7 June 2016 2:18 PM
To: [Redacted]
Subject: FW: Lk gardener
Attachments: IMG_3002.JPG; IMG_3003.JPG

From: [Redacted]
Sent: Monday, 6 June 2016 9:11 PM
To: [Redacted]
Subject: Fwd: Lk gardener

Hi,

Here are a couple of shots of Lake Gardener on spill earlier today. You will notice a lot of erosion around the spill zones. I would expect walking track and V Notches to be damaged.

Regards,

[Redacted]

Begin forwarded message:

From: [Redacted]@hydro.com.au>
Date: 6 June 2016 at 8:46:24 PM AEST
To: [Redacted]@hydro.com.au>
Subject: Lk gardener

[Redacted]

[Redacted]





[REDACTED]

From: [REDACTED]
Sent: Tuesday, 7 June 2016 2:25 PM
To: [REDACTED]
Subject: FW:
Attachments: FOTD02F.jpg; ATT00001.txt

-----Original Message-----

From: [REDACTED]
Sent: Monday, 6 June 2016 8:57 AM
To: [REDACTED]
Subject:

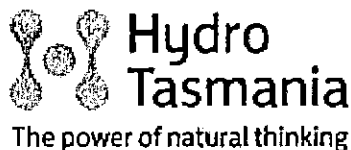


[REDACTED]

From: [REDACTED]
Sent: Tuesday, 7 June 2016 3:01 PM
To: [REDACTED]
Subject: FW: streamflow records

FYI will prepare this

[REDACTED]



F [REDACTED]
e [REDACTED]@hydro.com.au
w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

View the latest water levels at <http://www.hydro.com.au/water/water-levels-and-flows-map>

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From: [REDACTED] [mailto:[REDACTED]@unimelb.edu.au]
Sent: Tuesday, 7 June 2016 9:41 AM
To: [REDACTED]
Subject: streamflow records

Hi [REDACTED],

Information exempt under Section 35 (a)
(i) of the RTI Act 2009

I'm just trying to 'finalise' an inflow reconstruction for a couple of the central catchments. While I can get a half decent reconstruction using data after 1940, [REDACTED] I only have info on flow and data quality for Heliyer (61), but other streams used in the regression (1924 - 1954) include Mersey at Kimberley (22) and Wilmot at Moina (74). I just wondered if monthly flow totals for these are easy to extract, along with data quality information? Thanks.

Regards,
[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Tuesday, 7 June 2016 3:08 PM
To: [REDACTED]
Cc: [REDACTED]
Subject: Llewellyn Monitoring Site

Just spoke to [REDACTED] about the fact that the South Esk at Llewellyn flow monitoring site broke yesterday. It was repaired today and the water level jumped about a metre and she wanted to check that was correct.

Not relevant to request

[REDACTED]

This issue was only discovered early this morning. Late afternoon on Monday it appeared the river had peaked and was trending down.

Not relevant to request

Latest River Heights for South Esk Rv at Llewellyn (H)

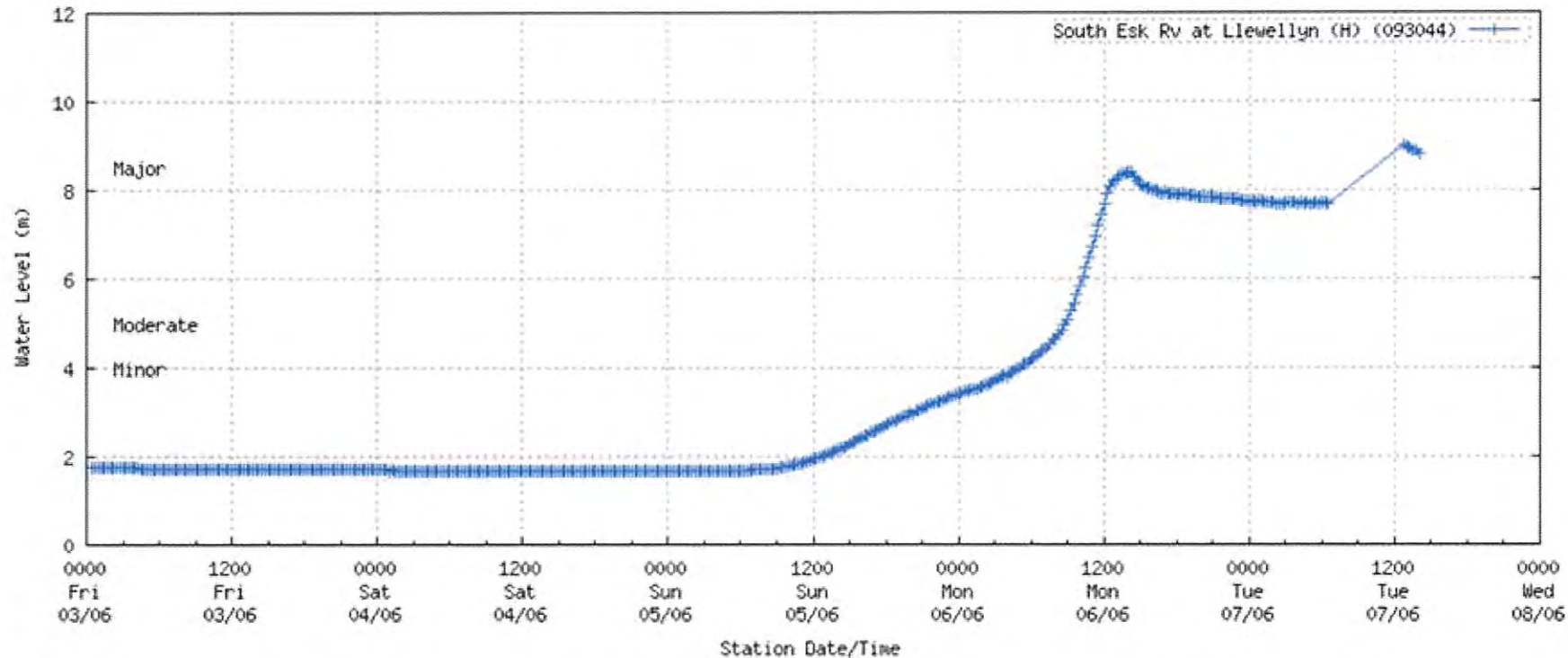
Issued at 2:35 pm EST Tuesday 7 June 2016

[About river height plots](#) | [About this Plot](#)

Station details: Station Number: 093044 Name: South Esk Rv at Llewellyn (H)

Flood levels: Minor: 4.00 Moderate: 5.00 Major: 8.50

Data from the previous 4 days.



Australian Government Bureau of Meteorology

(Generated: 07/06/2016 14:35:52)

[Data as Table](#) | [Previous Station](#) | [Next Station](#) | [Back to Bulletin](#)

BoM issued a flood warning at Mon 06/06/2016 7:22 AM

The South Esk River at Llewellyn will exceed the moderate flood level (5.00 m) Tuesday morning. The river level is expected to exceed the major flood level (8.50 m) Tuesday afternoon.

BoM issued a flood warning at Mon 06/06/2016 5:13 PM

The South Esk River at Llewellyn is expected to exceed the major flood level (8.50 m) Monday evening. The river level is likely to peak between 10.50 and 11.00 metres late Tuesday morning.

Thank you

[REDACTED]

From: [REDACTED]@bom.gov.au
Sent: Tuesday, 7 June 2016 8:09 AM
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: Llewellyn - outage? [SEC=UNCLASSIFIED]

[REDACTED]

Appreciate your efforts but please try a repair only if it is an easy fix.
I do not want to put any of your people in danger trying to fix this.
It is OK for me to leave the station as it is until safe conditions be guaranteed for your hydrographers.

Thanks

[REDACTED]

[REDACTED]

Bureau of Meteorology
GPO Box 727 Hobart TAS 7001
Level 5, 111 Macquarie Street, Hobart TAS 7001
Tel: [REDACTED]
[REDACTED]@bom.gov.au | www.bom.gov.au/tas/flood/

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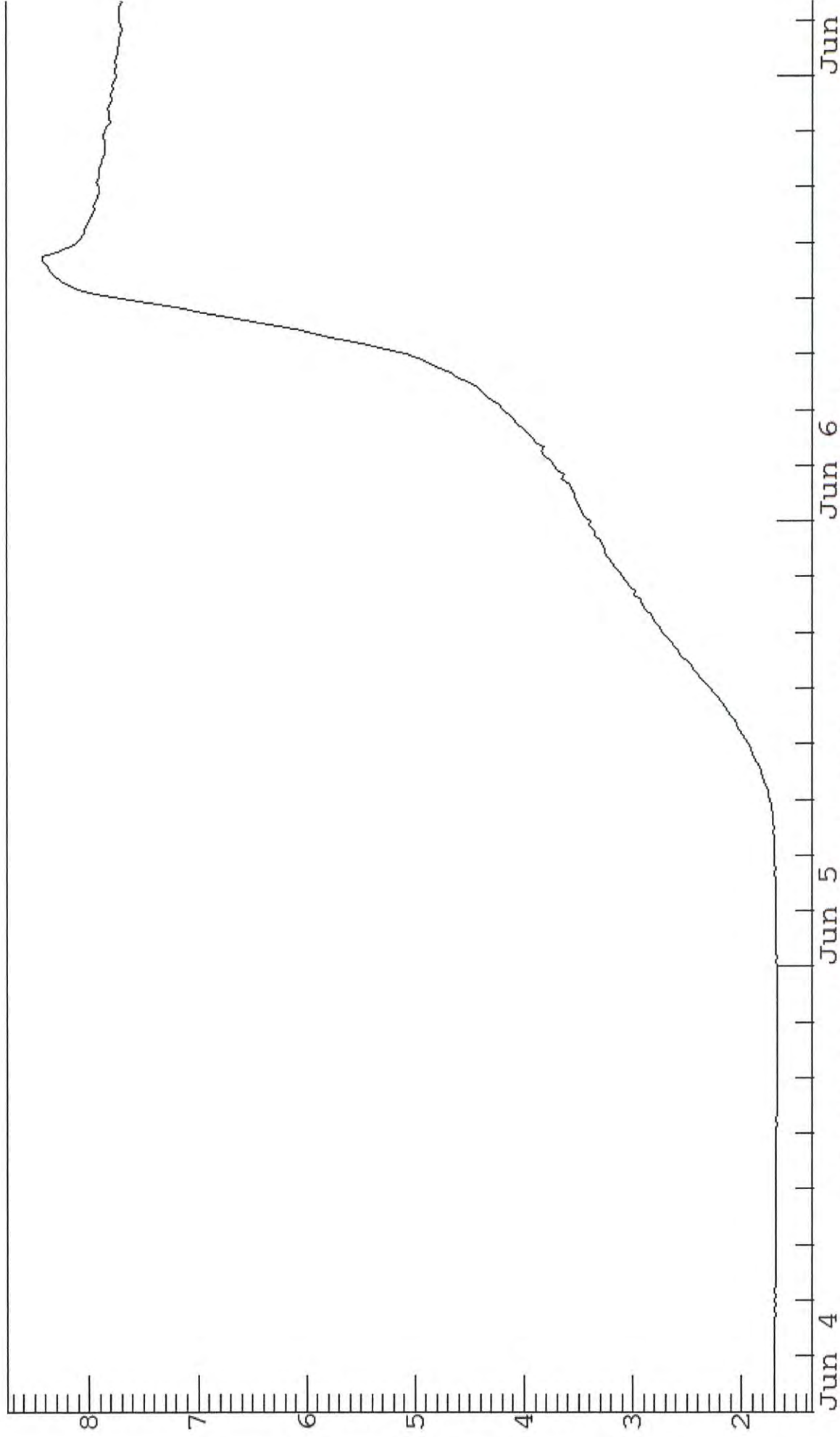
From: [redacted] [mailto:\[redacted\]@hydro.com.au](mailto:[redacted]@hydro.com.au)
Sent: Tuesday, 7 June 2016 8:04 AM
To: [redacted]
Cc: [redacted]
Subject: RE: Llewellyn - outage? [SEC=UNCLASSIFIED]

Yep,

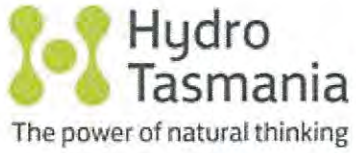
Looks like a high pressure leak on gas line.

Will try and get an urgent fix

150.1/100.00/1: SOUTH ESK [AT LLEWELLYN] - Level (m)



Period(04/06/2016 @ 00:00:00 to 07/06/2016 @ 09:00:00)



p [redacted]
e [redacted]@hydro.com.au
w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

View the latest water levels at <http://www.hydro.com.au/water/water-levels-and-flows-map>

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From: [redacted]@bom.gov.au
Sent: Tuesday, 7 June 2016 7:59 AM
To: [redacted]
Subject: Llewellyn - outage? [SEC=UNCLASSIFIED]

[redacted]
WL at Llewellyn looks quite suspicious. [redacted]

[redacted]
Bureau of Meteorology
GPO Box 727 Hobart TAS 7001
Level 5, 111 Macquarie Street, Hobart TAS 7001
Tel: [redacted]
[redacted]@bom.gov.au | www.bom.gov.au/tas/flood/

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[REDACTED]

From: [REDACTED]
Sent: Tuesday, 7 June 2016 3:09 PM
To: [REDACTED]
Subject: RE: streamflow records

ok

From: [REDACTED]
Sent: Tuesday, 7 June 2016 3:01 PM
To: [REDACTED]
Subject: FW: streamflow records

FYI will prepare this

[REDACTED]



p [REDACTED]
e [REDACTED]
w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

View the latest water levels at <http://www.hydro.com.au/water/water-levels-and-flows-map>

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From: [REDACTED]@unimeib.edu.au]
Sent: Tuesday, 7 June 2016 9:41 AM
To: [REDACTED]
Subject: streamflow records

Hi [REDACTED]

I'm just trying to 'finalise' an inflow reconstruction for a couple of the central catchments. While I can get a half decent reconstruction using data after 1940, [REDACTED] I only have info on flow and data quality for Hellyer (61), but other streams used in the regression (1924 - 1954) include Mersey at Kimberley (22) and Wilmot at Moina (74). I just wondered if monthly flow totals for these are easy to extract, along with data quality information? Thanks.

Regards,
[REDACTED]

[REDACTED]

From: [REDACTED]
Sent: Tuesday, 7 June 2016 3:31 PM
To: [REDACTED]
Subject: FW: Ouse b/l liawenee near the peak
Attachments: Feb 2014 (16) Ratings trip.JPG

See link for zipped movie

\\tsmfile_prod\TStudio\data\Sites\00000028\0001\Photos\Ouse bl Liawenee 06062016 flood near peak.zip

FYI a reminder of what it normally looks like attached.

[REDACTED]



p [REDACTED]
e [REDACTED]@hydro.com.au
w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

View the latest water levels at <http://www.hydro.com.au/water/water-levels-and-flows-map>

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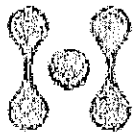


[REDACTED]

From: [REDACTED]
Sent: Tuesday, 7 June 2016 3:49 PM
To: [REDACTED]
Subject: Photos of Flood Damage
Attachments: FW: ; RE: Pictures for Performance Report; FW: Lk gardener

Hi everyone,

Some photos of the flood damage around the State that you might be interested in filing. The photo of Lake Gardener should actually be Lake Gairdner (even though people call it Lake Gardener). The first photo on its own is Yeates Creek and this was taken a few days ago.



**Hydro
Tasmania**

The power of natural thinking

p [REDACTED]
e [REDACTED]@hydro.com.au
w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

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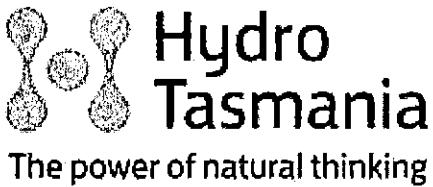
[REDACTED]

From: [REDACTED]
Sent: Tuesday, 7 June 2016 2:18 PM
To: [REDACTED]
Subject: RE: Pictures for Performance Report

X:\Asset_Photos_and_Movies\Power_and_Pumping_stations

From: [REDACTED]
Sent: Tuesday, 7 June 2016 2:16 PM
To: [REDACTED]
Subject: Pictures for Performance Report

[REDACTED]
[REDACTED] *has asked for some pics of the flood areas to be inserted into the performance report please.*



p [REDACTED]
e [REDACTED]@hydro.com.au
w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

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[REDACTED]

From: [REDACTED]
Sent: Tuesday, 7 June 2016 2:18 PM
To: [REDACTED]
Subject: FW: Lk gardener
Attachments: IMG_3002.JPG; IMG_3003.JPG

From: [REDACTED]
Sent: Monday, 6 June 2016 9:11 PM
To: [REDACTED]
Subject: Fwd: Lk gardener

[REDACTED]

Here are a couple of shots of Lake Gardener on spill earlier today. You will notice a lot of erosion around the spill zones. I would expect walking track and V Notches to be damaged.

Regards,
[REDACTED]

Begin forwarded message:

From: [REDACTED] <[REDACTED]@hydro.com.au>
Date: 6 June 2016 at 8:46:24 PM AEST
To: [REDACTED] <[REDACTED]@hydro.com.au>
Subject: Lk gardener



Sent from my iPhone





[REDACTED]

From: [REDACTED]
Sent: Tuesday, 7 June 2016 3:54 PM
To: [REDACTED]
Subject: FW: Llewellyn Gauge
Attachments: image1.JPG; image2.JPG; ATT00001.txt

FYI - There will be quite a mess to clean up

[REDACTED]

[REDACTED]

e [REDACTED]@hydro.com.au
w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

View the latest water levels at <http://www.hydro.com.au/water/water-levels-and-flows-map>

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-----Original Message-----

From: [REDACTED]
Sent: Tuesday, 7 June 2016 3:32 PM
To: [REDACTED]
Subject: FW: Llewellyn Gauge

Not sure if you have seen these

-----Original Message-----

From: [REDACTED] (DPIPWE)
Sent: Tuesday, 7 June 2016 3:23 PM
To: [REDACTED] (DPIPWE); [REDACTED] (DPIPWE)
Cc: [REDACTED] (DPIPWE); [REDACTED] (DPIPWE)
Subject: FW: Llewellyn Gauge

Thanks [REDACTED]

[REDACTED] - please see attached

[REDACTED]

Department of Primary Industries, Parks, Water and Environment

Prospect Government Offices, 171 Westbury Road, Prospect 7250 PO Box 46, Kings Meadows TAS 7249 AUSTRALIA

[REDACTED]

Email: [REDACTED]@dpiuwe.tas.gov.au

Web: www.dpiuwe.tas.gov.au

-----Original Message-----

From: [REDACTED] (DPIPWE)

Sent: Tuesday, 7 June 2016 3:21 PM

To: [REDACTED] (DPIPWE)

Subject: Llewellyn Guage

Hi [REDACTED], Llewellyn is reading 8.7 metres on the board. There is an amount of debris around the boards that needs clearing, one tree trunk quite large.

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[REDACTED]

From: [REDACTED]
Sent: Tuesday, 7 June 2016 3:57 PM
To: [REDACTED]
Cc: [REDACTED]
Subject: FW: Lake McKenzie road crossing downstream of the dam
Attachments: 20160607_105811.jpg; ATT00001.txt

[REDACTED]

[REDACTED]

e [REDACTED]@hydro.com.au
w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

View the latest water levels at <http://www.hydro.com.au/water/water-levels-and-flows-map>

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-----Original Message-----

From: [REDACTED]
Sent: Tuesday, 7 June 2016 3:38 PM
To: [REDACTED]
Cc: [REDACTED]
Subject: Lake McKenzie road crossing downstream of the dam

Lake McKenzie photo from [REDACTED]



[REDACTED]

From: [REDACTED]
Sent: Tuesday, 7 June 2016 3:59 PM
To: [REDACTED]
[REDACTED] (DPIPWE)
([REDACTED]@dpiuwe.tas.gov.au); [REDACTED]
Cc: Dam Safety Team
Subject: 7th June Spill Response Update - 4
Attachments: Heavy Rainfall - June Status - 4.docx

All,

Please find attached our latest dam safety update.

Crews around the state continue to do a wonderful job.

[REDACTED] will resume the Dam Safety Manager role from 4pm today.

Regards,

[REDACTED]



p [REDACTED]
e [REDACTED]@hydro.com.au
w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

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From: [REDACTED]
Sent: Tuesday, 7 June 2016 8:47 AM
To: [REDACTED] (DPIPWE)
([REDACTED]@dpiuwe.tas.gov.au)
Cc: Dam Safety Team
Subject: 7th June Spill Response Update - 3

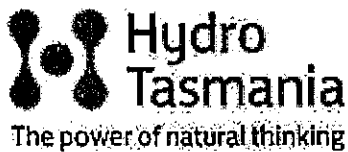
All,

Please find attached an update on overnight activities regarding the large spills. In summary, the situation is easing slightly, notwithstanding extensive large spills and some peaks yet to be reached (eg. Trevallyn) .

[REDACTED] will resume the Dam Safety Manager role for the day.

Cheers,

[REDACTED]



p [redacted]
e [redacted]@hydro.com.au
w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

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From: [redacted]
Sent: Monday, 6 June 2016 5:23 PM
To: [redacted] (DPIPWE)
([redacted]@dpipwe.tas.gov.au)
Cc: Dam Safety Team
Subject: 6th June Dam Safety Status Update - 2

All,

Please find attached our latest Dam Safety Status update.

This afternoon has been busy, apologies in the delayed update.

Please contact me if you have any questions regarding this update.

[redacted] will resume the Dam Safety Manager role this evening.

Regards,



p [redacted]
e [redacted]@hydro.com.au
w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

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Emergency Event Message Form

Phone
 Verbal
 Electronic
 Inwards
 Outwards
 Internal

GENERAL MESSAGE		
To: [REDACTED]	Position: [REDACTED]	
To: [REDACTED]	Position: [REDACTED]	
From: [REDACTED]	Position: [REDACTED]	
Subject: June Heavy Rainfall Event – Update Status 4	Date: 7/6/2016	Time: 4.00pm
MESSAGE		
<p>The flood peak has passed in the majority of our storages, with dams remaining on spill. Dam surveillance remains heightened with rainfall easing this week. There are currently no known dam safety issues to report.</p> <p>A 'historic high' (+2mm on previous historic high) was recorded at Little Pine Lagoon. Road access prevents us from undertaking a visual inspection, with plans to inspect tomorrow. There are no current dam safety concerns regarding this asset.</p> <p>Trevallyn Dam will see its flood peak early tomorrow morning (Wednesday, 8/6/16) with level predictions currently forecasting Historic High levels of those last scene in 1969. Daily visual monitoring remains while the dam is on spill. The dam is currently performing as expected.</p> <p>Road access continues to prevent us from undertaking dam inspections at Parangana and Mackenzie Dams. Senior Dams Engineer [REDACTED] has joined area staff to conduct an aerial inspection by helicopter, in conjunction with their efforts to get to Fisher Power Station. This is still currently underway and no update can be reported. Any dam safety concerns will be flagged prior to the next update.</p> <p>Dam inspections have been undertaken at the Devils Gate, Cethana, Paloona, Wilmot Dams which have not reported any dam safety concerns.</p> <p>In summary from yesterday's events Devils Gate, Cethana, Augusta, Mackenzie, Paloona and Parangana Dams saw historic highs. Rowallan Dam saw a post upgrade Historic High. These levels correspond approximately to a 1:100 AEP Flood (Annual Exceedance Probability Flood).</p> <p>Until dams stop spilling, it is unclear whether any minor damage has been sustained (erosion, damage in our spillways, damage to our dam safety instrumentation).</p> <p>It is unclear how our smaller dam assets have performed during these floods as our focus has remained on our high risk dam assets. Visual inspection of these will occur as part of normal dam surveillance.</p> <p>[REDACTED] will resume Dam Safety Manager from 4pm today. Next update will be issued Wednesday morning, 8th June 2016.</p>		
Signature:	Position:	

REPLY		
Date:	Time:	Signature/Position:

Action to be taken

To be Actioned Information Only File

From: [REDACTED]
Sent: Tuesday, 7 June 2016 4:01 PM
To: [REDACTED]
Cc: [REDACTED]
Subject: URGENT RE: Impact of heavy rainfall and flooding.docx

STRICTLY PRIVILEGED AND CONFIDENTIAL

Information exempt under Section 35 (1) (a) of the RTI Act 2009



p [REDACTED]
e [REDACTED]@hydro.com.au
w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

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From: [REDACTED]
Sent: Tuesday, 7 June 2016 3:40 PM
To: [REDACTED]
Cc: [REDACTED]
Subject: Impact of heavy rainfall and flooding.docx

Suggested changes

[REDACTED]

From: [REDACTED]
Sent: Tuesday, 7 June 2016 4:57 PM
To: [REDACTED]
Subject: Poat Reg Pond. - Do Not Discharge

All, so we do not add to the flooding issues at Launceston, please do not release from Poatina Reg Pond until further notice, unless spill at the pond is imminent.

[REDACTED], can you please create a constraint and apply appropriate tags to the ECS.

Regards

[REDACTED]



e [REDACTED]
w www.hydro.com.au
[REDACTED]
4 Elizabeth Street, Hobart TAS 7000

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[Redacted]

From: [Redacted]
Sent: Tuesday, 7 June 2016 5:37 PM
To: [Redacted]
Subject: RE: FYI

I suggested he contact you for comms advice as he would have been HTs voice at the meeting with SES, Police and Council up north.

I have also given your name as our voice regarding the Southern SES over Ouse and HT releases. I was contacted by [Redacted] from TasNetworks who is helping SES with releases. He is also seeking comms advice from his internal people so that comms can speak with comms to ensure messages are communicated clearly.

I hope that helps. [Redacted]

[Redacted]



[Redacted]
e [Redacted]@hydro.com.au
w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

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From: [Redacted]
Sent: Tuesday, 7 June 2016 5:15 PM
To: [Redacted]
Cc: [Redacted]
Subject: RE: FYI

Hi [Redacted]

[Redacted]

[Redacted]

Regards,
[Redacted]

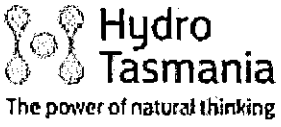
Information exempt under Section 35 (1) (a) of the RTI Act 2009

From: [Redacted]
Sent: Tuesday, 7 June 2016 3:38 PM
To: [Redacted]
Subject: FYI

[Redacted]

Information exempt under Section 35 (1) (a) of the RTI Act 2009

[Redacted]



p [REDACTED]
e [REDACTED]@hydro.com.au
w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

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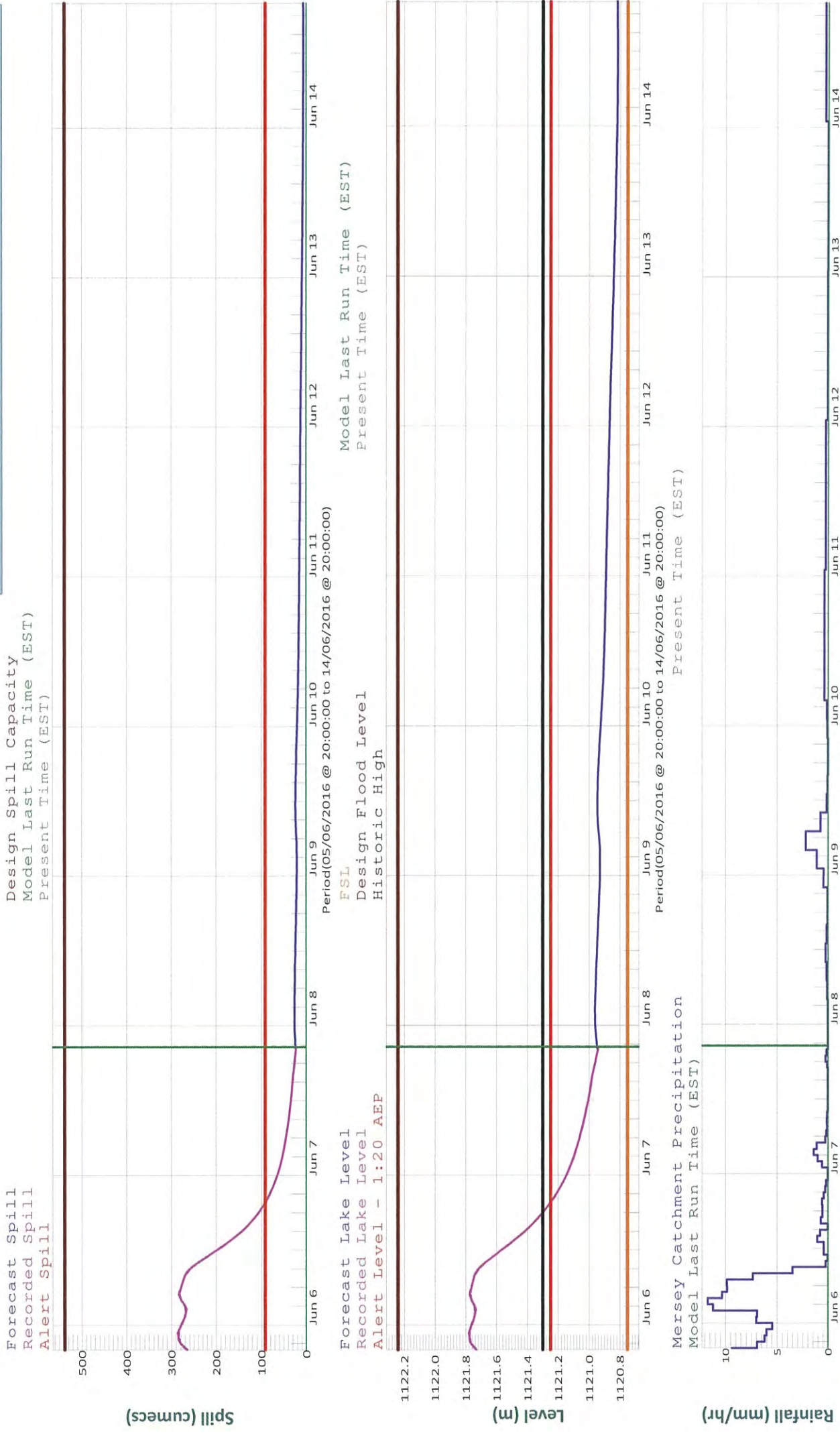
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From: Time Series Notify on behalf of DamSafetyAlert@hydro.com.au
Sent: Tuesday, 7 June 2016 7:46 PM
To: List-DSEP@streetdata.com.au; Dam Safety Manager Opportunity Roster
Cc: TimeSeries Admin; RMI (Info Group); Spot Traders; Telemetry; Hydrology Support
Subject: ALERT 2016-06-07 20:45:37 DSEP FLOOD ALERT Lake Mackenzie has exceeded the historic high water level.
Attachments: oaa_629_1_204.x_plot.tso.pdf

DSEP FLOOD ALERT: Lake Mackenzie has exceeded the historic high water level. Please refer to the attached plot to see forecasted and observed data. Please note that this alarm will only be reissued every 24 hours. The observed and forecasted data should be monitored through TimeStudio or the Dam Safety website for the next 24 hours. This message was sent by an automated system. If you received this in error please contact timeseriesadmin@hydro.com.au and mention ID 'OAA 629.1/204.30/2'

Some graph traces will only appear when the lake level approaches that value.

Lake Mackenzie Flood Forecast



Rainfall Gauge Availability (-6hrs)			
Threshold Level (m)	1122.24	DFL	537.99
Spill (m ³ /s)	100 % Mersey	HH	105.95
		Alert Level	1121.25
		FSL	1120.75
			0.00

From: Time Series Notify on behalf of DamSafetyAlert@hydro.com.au
Sent: Tuesday, 7 June 2016 7:47 PM
To: List-DSEP@streetdata.com.au; Dam Safety Manager Opportunity Roster
Cc: TimeSeries Admin; RMI (Info Group); Spot Traders; Telemetry; Hydrology Support
Subject: ALERT 2016-06-07 20:46:25 DSEP FLOOD ALERT Trevallyn Pond is approaching the historic high water level.
Attachments: oaa_158_1_204.x_plot.tso.pdf

DSEP FLOOD ALERT: Trevallyn Pond is approaching the historic high water level. Please refer to the attached plot to see forecasted and observed data. Please note that this alarm will only be reissued every 3 days. The observed and forecasted data should be monitored through TimeStudio or the Dam Safety website for the next 3 days. This message was sent by an automated system. If you received this in error please contact timeseriesadmin@hydro.com.au and mention ID 'OAA 158.1/204.30/1'

Some graph traces will only appear when the lake level approaches that value.

Lake Trevallyn Flood Forecast



Rainfall Gauge Availability (-6hrs, will be a low number during periods of no rainfall)		Threshold Level (m)		HH		Alert Level		FSL	
86 % Macquarie	56 % Meander	Level (m)	136.05	HH	131.30	Alert Level	130.10	FSL	126.49
	89 % South Esk	Spill (m ³ /s)	8365.93		2556.63		1558.59		0.00

Scheduler4
07/06/2016 @ 20:47

[REDACTED]

From: [REDACTED]
Sent: Wednesday, 8 June 2016 7:46 AM
To: [REDACTED]
Subject: Trevallyn O.G. 's

[REDACTED]

If by chance you have anyone at Trevallyn Dam an O.G. would be very useful (if O.G. exists ?). SCADA lake level instrument [REDACTED] is currently spiking nearing the flood peak. Not relevant to request
FYI - I have also made same request thru to GenOps.

thanks

[REDACTED]

[REDACTED]
[REDACTED]@hydro.com.au
w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

View the latest water levels at <http://www.hydro.com.au/water/water-levels-and-flows-map>

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-----Original Message-----

From: [REDACTED]
Sent: Wednesday, 8 June 2016 7:25 AM
To: [REDACTED]
Cc: [REDACTED]@streetdata.com.au;

Subject: Re: ALERT 2016-06-08 04:47:40 DSEP FLOOD ALERT Trevallyn Pond has exceeded the historic high water level.

Note that some bad spiking on the SCADA water level trace is pushing the lake and spill flow level above the historical high alarm.

However please remain cautious with dam water and spill levels close to peaking.

Cheers

[REDACTED]
[REDACTED]@entura.com.au w
www.entura.com.au
89 Cambridge Park Drive, Cambridge TAS 7170

> On 8 Jun 2016, at 04:48, "[REDACTED]@hydro.com.au" <[REDACTED]@hydro.com.au> wrote:

>

> DSEP FLOOD ALERT: Trevallyn Pond has exceeded the historic high water level. Please refer to the attached plot to see forecasted and observed data. Please note that this alarm will only be reissued every 24 hours. The observed and forecasted data should be monitored through TimeStudio or the Dam Safety website for the next 24 hours. This message was sent by an automated system. If you received this in error please contact

timeseriesadmin@hydro.com.au and mention ID 'OAA 158.1/204.30/2'

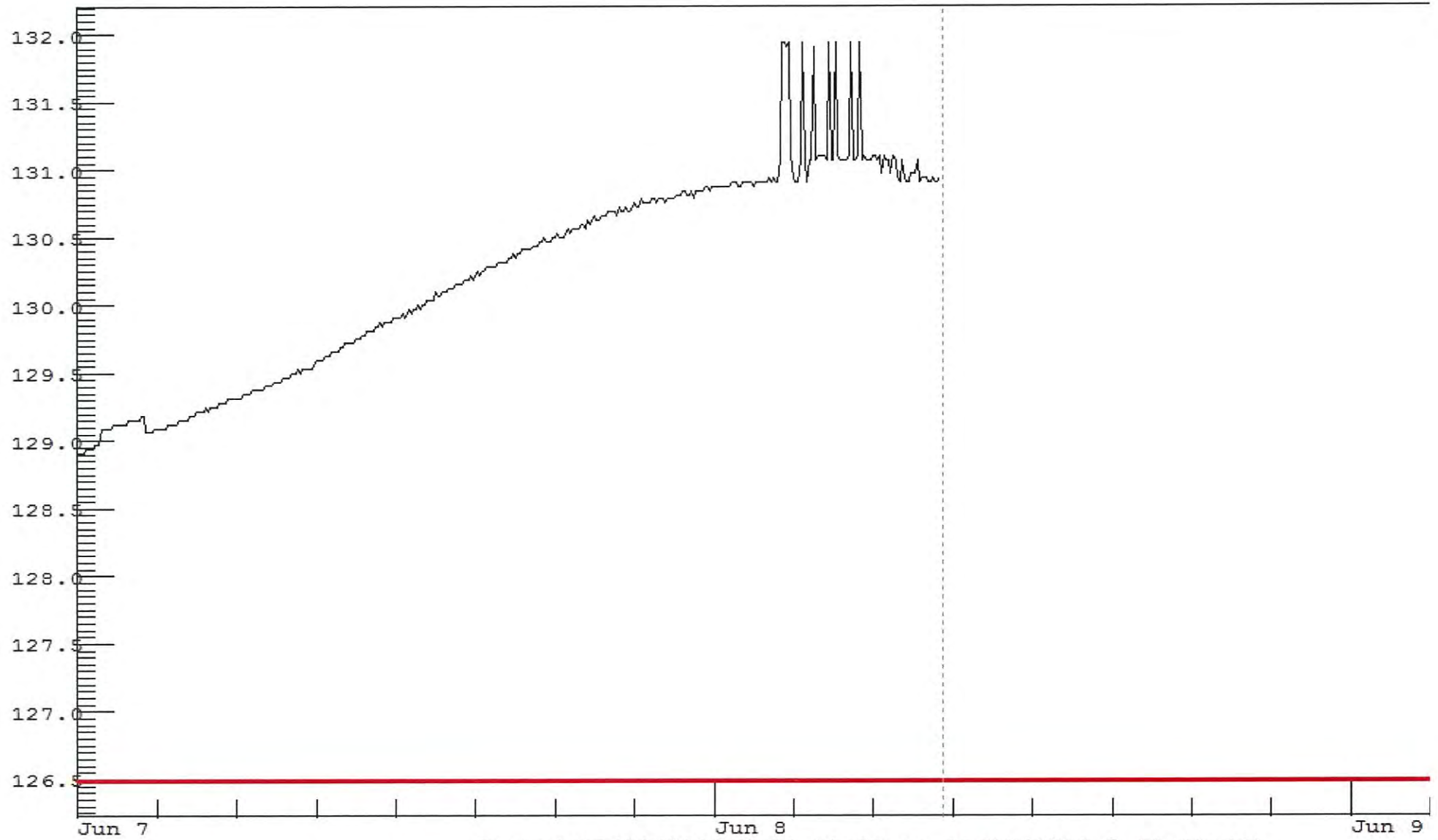
> <oa_158_1_204.x_plot.tso.pdf>

[REDACTED]

From: [REDACTED]
Sent: Wednesday, 8 June 2016 8:42 AM
To: [REDACTED]
Subject: FYI - trevallyn spiking at peak today

This SCADA sensor has been giving problems (spiking and stepping) for a few years now

158.1/130.00/1000: TREVALLYN POND [AT DAM] - Water Level (m)
158.1/130.03/1: TREVALLYN POND [AT DAM] - FSL (m)





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[REDACTED]

From: [REDACTED]
Sent: Wednesday, 8 June 2016 9:07 AM
To: [REDACTED]
Cc: [REDACTED]
Subject: DPIPWE site meander at Starthbridge
Attachments: Strathbridge 2016 Shed damage.jpg

[REDACTED]

w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

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-----Original Message-----

From [REDACTED]
Sent: Wednesday, 8 June 2016 8:56 AM
To: [REDACTED]
Subject: RE: mackenzie spill

Looks like some repairs will be needed at Strathbridge

Did the spill at MacKenzie cause the damage on the road ?

-----Original Message-----

From: Mark Willis [mailto:Mark.Willis@hydro.com.au]
Sent: [REDACTED]
To: [REDACTED] (DPIPWE)
Subject: RE: mackenzie spill

[REDACTED]

[REDACTED]

w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

View the latest water levels at <http://www.hydro.com.au/water/water-levels-and-flows-map>

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-----Original Message-----

From: [REDACTED]
Sent: Tuesday, 7 June 2016 3:32 PM
To: [REDACTED]
Subject: FW: Llewellyn Gauge

Not sure if you have seen these

-----Original Message-----

From: [REDACTED] (DPIPWE)
Sent: Tuesday, 7 June 2016 3:23 PM
To: [REDACTED] (DPIPWE); [REDACTED] (DPIPWE)
Cc: [REDACTED] (DPIPWE); [REDACTED] (DPIPWE)
Subject: FW: Llewellyn Gauge

Thanks [REDACTED]

[REDACTED] - please see attached

[REDACTED]
[REDACTED]
Department of Primary Industries, Parks, Water and Environment

Prospect Government Offices, 171 Westbury Road, Prospect 7250 PO Box 46, Kings Meadows TAS 7249 AUSTRALIA

[REDACTED]
Web: www.dpipwe.tas.gov.au

-----Original Message-----

From: [REDACTED] (DPIPWE)
Sent: Tuesday, 7 June 2016 3:21 PM
To: [REDACTED] (DPIPWE)
Subject: Llewellyn Gauge

Hi [REDACTED], Llewellyn is reading 8.7 metres on the board. There is an amount of debris around the boards that needs clearing, one tree trunk quite large.

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[REDACTED]

From: [REDACTED]
Sent: Wednesday, 8 June 2016 9:09 AM
To: [REDACTED]
Subject: FW: Unable to provide staff guage, underwater.

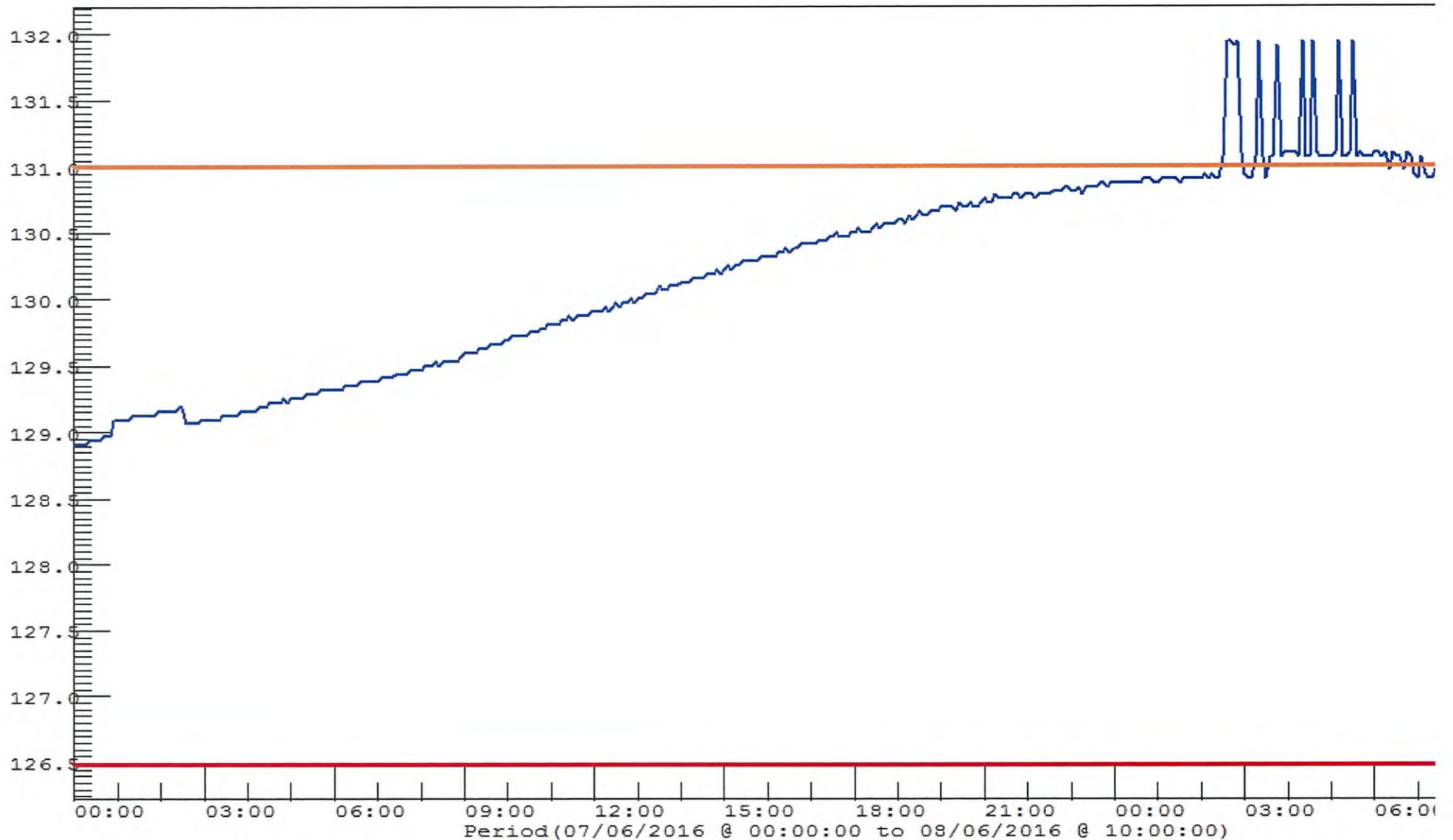
From: [REDACTED]
Sent: Wednesday, 8 June 2016 9:08 AM
To: [REDACTED]
Subject: Unable to provide staff guage, underwater.

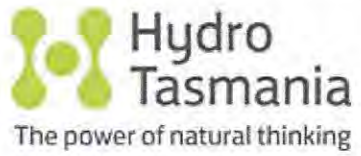
Elizabeth Gross

From: [REDACTED]
Sent: Wednesday, 8 June 2016 9:33 AM
To: [REDACTED]
Subject: trevallyn lake

So not sure what the level really is

158.1/130.00/1000: TREVALLYN POND [AT DAM] - Water Level (m)
158.1/130.03/1: TREVALLYN POND [AT DAM] - FSL (m)
Staff gauges finish at 131m and are reported underwater





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Tuesday 07-Jun-2016 () Wednesday Schedule

Information exempt under Section 38 (a) (i) of the RTI Act 2009

- Up-rating outages on TU5 and TU1 tomorrow.
- Scheduled Fisher available and 4 Trevallyn machines. JB not returning tomorrow.
- AUFLS due to end at 10:00, so R6 requirement will increase. Scheduled to have GO1 online from 0930 and 3 Tunga machines online until 1030. Extend Tunga machines online as required - only 2 new machines available during the day.
- Gordon is running for R6 only. If it becomes heavily loaded, then run all Tunga, then Tribute, then gas peakers.
- on Bairnsdale tomorrow . Availability bid as 0MW on BDL01 and full gate 44 MW on BDL02.
- Bastyan avail bid at Meadowbank avail bid at .

Tuesday 07-June-2016 (AM)

- Trevallyn 3 tripped attending
- to cata to put gate into the water and repulse for a a battery fault and liap 2 MIV control water pressure
- mrwF syncon tripped off load reduced by advised
- ICCP failure of short duration
- Trevallyn 4 tripped DO not advised as he had only just gone to be and spilling stations wre still being backed off
- MB reduced due to flood

Information exempt under Section 38 (a) (i) of the RTI Act 2009

Monday 06-June-2016 ()

- AC restored to Lemonthyme, Cethana and Wilmot. Devils Gate AC still out, TasNetworks advised
- John Butters remains OOS until machine inspection carried out and circuit breaker repaired. Wednesday at the earliest?

- Pine Tier, Liapootah and Wayatinah, Cluny and Meadowbank on spill in the Derwent chain with Catagunya and Repulse expected to spill overnight.
- Ouse River and Derwent below Meadowbank at high flood levels
- Tunga and Tribute deficit stations as they have some room to store
- Tarra #1 canal off, Tarra #2 canal discharge closed @ 16:45, the water should reduce tomorrow morning.
- Mersey -Forth all on spill, Cethana trashracks to be cleaned tomorrow morning.
- Fisher still OOS. Unable to access the area due to roads being inaccessible at present.
- Difficult to access Lemonthyme due to road damage but can be done.
- Reg pond discharge increased above 14 cumecs after advice from [REDACTED] as he believes we are not actually discharging the indicated amount because of high Brumbys Creek flow. The reg pond was storing when indicating 14 cumecs discharge
- Gordon 3 governor pressure tank level low alarm, [REDACTED] attending, machine on line.
- Arthurs Lake riparian requested closed but the patrolman was unable to access the area. Will try again tomorrow
- [REDACTED] is Gordon duty Operator - [REDACTED] - Roster is incorrect
- Important email from [REDACTED]. Due to severe downstream flooding risk, **Poatina is only to be used as an absolute last resort** [REDACTED]. If you do have to use Poatina, please do so, and immediately following your action inform [REDACTED] or [REDACTED] if [REDACTED] not available. **Also escalate if you lose more than 100MW through forced outages.** Also note that Gordon #2 is bid unavailable [REDACTED]. If however machine is required [REDACTED] it can be started, but must be then left online. **You would use Gordon #2 before Poatina** (needs an operator to start).

Information exempt under Section 35 (a) (i) of the RTI Act 2009

Monday 06-June-2016 (DH)

- AC restored to Lemonthyme, Cethana and Wilmot. Devils Gate AC still out, TasNetworks advised
- [REDACTED] remains OOS until machine inspection carried out and circuit breaker repaired. Wednesday at the earliest?
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- Gordon 3 governor pressure tank level low alarm, [REDACTED] attending, machine on line.
- Arthurs Lake riparian requested closed but the patrolman was unable to access the area. Will try again tomorrow
- [REDACTED] is Gordon duty Operator [REDACTED]. Roster is incorrect

Mon 06-Jun-2016 [REDACTED]

- Fisher tripped due to high tailrace level. No attempt has been made to restore this machine as the alarm is still active and there are concerns about safe access to the station.

- [redacted] returned Wilmot to service after getting a diesel gen set up at the headworks, it is currently running at 7MW due to a block trash rack alarm at higher outputs and no power to trash rake.
- The AC remains out at Cethana, Devils Gate and Lemonthyme, the batteries have been paralleled to maximise life.
- [redacted] attended intruder and urgent alarms at Buitlers Gorge.
- [redacted] and [redacted] did not get home until 02:00AM. [redacted] has requested the Duty Officer to be contacted in the event of any further alarms as he has had long/late call outs the last couple of days.
- [redacted] was notified of an increasing Poatina reg pond discharge, they were not working in the area and don't expect to be for the next week. The tags associated with the restricted discharge were removed as they were inhibiting the controls, these will need to be reinstated when works resume. Poatina discharge is currently limited to 14.1cumecs due to high flow at Cressy Pumps.
- Dam Safety advised of historic high alerts at Augusta, Parangana, Gairdner, Cethana and small seismic event in Bass Strait.
- Wayatinah Caravan park advised of drawing below 230.28m
- BOM flood desk notified of 260cumecs in the Ouse river below Liaweene, they were also given the following spill amounts at the time:
 - ↳ Mackenzie = 285cumecs
 - ↳ Parangana = 850cumecs
 - ↳ Gairdner = 378cumecs
 - ↳ Cethana = 211cumecs
 - ↳ Barrington = 12cumecs
- The Ouse river below Liaweene appears to have peaked at 320cumecs, Meadowbank has been drawn down in anticipation of this water arriving, approval is required from the Dam Safety Manager to draw below 72.4m (the water is expected to arrive prior to achieving this level).
- Dam Safety would like us to monitor Lake Augusta as it is above the historic high and want to be notified if it trends towards the design flood level of 1151.5m.
- The entire Mersey Forth chain is on spill with the West Coast and Derwent chains are expected to go on spill in the near future, I have been scheduling as per:
- [redacted] will attend Rowallan alternator water spray control (AWSC system) failure if it is accessible, after discussions with him I have put Lemonthyme, Devils Gate & Paloona outages back to proposed and bid them available.
- Wayatinah #3 outage will ideally be cancelled today as well.
- AETV market screens are frozen, so they will need to be notified of start/stop timing.

Sun 05-Jun-2016 [redacted]

Liawenee canal patrol by [redacted] and skimmer gated put in the water @ 15:00 hours
 Augusta valves at at 1 cumec each with 45 Cumecs going over the top of the liawenee diversion wier
 Deep creek cut closed
 Wilmot backed of 20% due to trashrack blocked [redacted] attended due home @19:00hrs
 DSEP 1/20 year alerts forecast for Rowallan, Mackenzie, Parangana Cethana barrington and palona

advised

Mersey Forth feeder off no power to Cethana lemonthyme wimot devilsgate
JB bid out until tomorrow afternoon with burnt out trip coil

back as DO in Mersey/Forth area
wimot tripped to attend

Sun 05-Jun-2016 Monday Schedule

- John Butters currently bid out until 1600 Monday, apparently looking for a part and not sure if there's one in the state...
- GO machine outage might have to be delayed tomorrow morning. My demand forecast is much higher than pre-dispatch (PD TAS demand currently forecast to be similar to today, which I just can't reconcile) and low wind too so will need all peakers and some GO over the morning peak
- IF JB comes back and demand comes in as pre-dispatch assumes we might need less running but I think both are unlikely
- I have spoken with (Gordon DO) about a strong chance of having to delay the GO1 outage starting at 0900 Monday morning and he doesn't think it will be an issue
- The Trent and Bell Bay units are bid in for a 0530am start so you will have to keep an eye on that, or delay them if necessary etc
- Lemonthyme outage may also need to be delayed/cancelled, I believe was going to make a phone call to warn them about this
- 2 PO machines currently bid in for an hour as the GO outage starts, will possibly be able to be bid out if it can be cancelled

Sun 05-Jun-2016

- After observing a Lemonthyme Hilltop Valve Urgent Alarm that was still active after the AC was returned I contacted and told him that previously had advised me that due to the radio link only comms (after bushfires took out the pilot wire comms link) that Lemonthyme would need to be shutdown if the alarm activates as it is a generic alarm that may include loss of the radio link compromising the protection. The machine was shutdown and returned once the alarm was cleared. requested a tag to be placed on the machine that requires the machine to be shutdown if the "Hilltop Valve Urgent Alarm" is active. A remedy request was created to change the alarm to a P1 with a description to shutdown the machine to until the comms link is restored and a SAP constraint (2000000612) was created.
- John Butters failed to stop, began motoring (10MW), unable to return to gen mode, attended and was unable to stop locally. After discussion with the Duty Officer a request was made for TasNetworks to open the transline CB. The cause turned out to be a burnt out trip coil, is hunting for a spare, the isolator is open and the transline has been re-energised.
- attended Paloona Unit Control Ethernet Switch failure and engineering panel device failure. The AC is off at station & intake gate which have reported to TasNetworks, now restored.
- attending Yeates Creek Pump fire/flood alarm.
- is attending a stage 2 blocked trash rack alarm at Trevallyn, the output was reduced to 11MW in an attempt to clear the alarm.

- Market overview was failing in a non-alarming state around every 30min due to late RDS data (most likely contributing to the non-conformance on Bairnsdale earlier in the day). Logica reset the RDS service, timeouts seem to be occurring less often.
- The Augusta script appeared to back off the discharge by 1cm, the script was disabled and the discharge was manually increased.
- Several RREG price spikes caused by machines falling off AGC due to frequency deviations.
- Actual rainfall is exceeding the DRIP forecast at most sites, the Fisher forebay is spilling, Mackenzie is forecast to spill by tomorrow morning, Parangana inflows are exceeding Lemonthyme capacity and Gairdner inflows are exceeding Wilmot capacity.
- Outages on machine likely to be on or at risk of spill planned for Monday need to be reviewed

Sat 04-Jun-2016 [REDACTED]

- Poatina reg pond manually set to 4cm or 10% to target reg pond to 156.4M heading in north easterly of doom
- AC returned to lemonthyme However essential services failed when ac returned DO to attend
- Tarra plc comms network failed [REDACTED] attending

Sat 04-Jun-2016 [REDACTED]

- There is a north-easterly on the way. Trevallyn and Mersey Forth run of rivers being drawn to NMOL in anticipation, with all appropriate notifications having been sent out.
- Running Mackenzie discharge above alarm level to avoid drawing Fisher forebay.
- Augusta discharge script enabled at [REDACTED] request: monitor for performance.
- The AVA roster is missing the DO for Gordon, it is [REDACTED]
- Lemonthyme HTV watchdog bad needs reporting.
- Tarra low canal level alarm needs resetting if anyone is at Tarra today (low condition reset but alarm latches)
- [REDACTED]
- TasNetworks distribution ops aware of Lemonthyme HTV house AC failure - they actually reported it to me - and will be attempting a reclose. Not relevant to request

Fri 03-Jun-2016 [REDACTED]

- AC failure at Poatina HTV and Intake this morning: now restored.
- [REDACTED] attended "Tungatinah intake non-urgent", " Tarraleah HTV intruder alarm" and "Tarraleah station fire alarm failure" .
- Trevallyn & Gairdner draw down notifications sent.
- Augusta discharge script enabled at [REDACTED] request: monitor for performance.
- [REDACTED] attended Reece #1 "turbine shaft seal water failed" when switching to syn con: filters were cleaned should be OK to go to syn con now.
- [REDACTED] attended Liapootah HTV pump and Cluny water supply low alarms.
- [REDACTED] attended fire alarm failure at Studland Bay, [REDACTED] has already contacted him about this so I don't know why we need to monitor this alarm.
- Market Overview not updating several times for up to 15mins, no alarming, can manually refresh by selecting historical and back to live.
- Running Mackenzie discharge above alarm level to avoid drawing Fisher forebay.
- The AVA roster is missing the DO for Gordon, it is [REDACTED]
- Derwent Pump #3 is out of service and is expected to return 17-Jun.
- [REDACTED] has left his phone at Poatina he is contactable on [REDACTED] until he retrieves his phone around 19:00.

Schedule - Saturday 04/06/16

- Drawing Trevallyn to the bottom by Saturday night. High rainfall forecast on Sunday in the north-east, with possibility of high local pickup on Sunday. Unit #2 recalled from outage, expected to be available on Monday.
- Rain forecast as well over the Mersey Forth. Cethana, Gairdner, Parangana running to draw to the bottom by Sunday. Run Devil's Gate as much as possible, full gate if not drawing enough.
- Drawing Wayatinah to caravan park level. Current drip model forecast is manageable. If forecast increases, draw Wayatinah and Catagunya to the bottom.
- No gas, Gordon or Tribute running scheduled.
- Run Mersey Forth before West Coast. One Reece machine first off.
- Bastyan availability bid at 79 MW, output around 78.5 MW currently. As Pieman draws, if 79 MW is reached then increase availability to 80 MW.

Fri 03-Jun-2016

- Target Trevallyn @ 123.5 for Sunday, suggest to go lower if confidence in the forecast builds.
- Empty Mersey Forth ROR in anticipation of high inflows Sunday / Monday.
- Maintain 3 pumps at Shannon now the winter level has changed.
- Had a couple of RDS failures overnight that reset themselves.
- Requested HESP on prior to 6am.
-



Not relevant to request

- Overall, Hydro Tasmania storages were at a record low of 12.8 per cent in late April. Today, they've reached 26 per cent (up from 23.6 per cent on Monday).
- Virtually all of Hydro Tasmania's smaller run-of-river catchments are spilling water despite operating at full capacity.
- Following record inflows in May (250 per cent of long-term average), most of our small and medium storages were already quite full.
- However, it will take some time for our major storages of Lake Gordon and Great Lake to rebuild to normal operating levels.

Cheers,



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rowan.dix@hydro.com.au / media@hydro.com.au
www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

[REDACTED]

Hydro Tasmania's operational focus during the floods was on the safety of our people, the public and our assets.

We increased monitoring of our dams and spillways as the heavy rains started.

There was no issue with respect to dam safety (during or after the floods). There was some minor damage which posed no risk to safety or power generation.

Some of the flood flows experienced in northern Tasmania in early-mid June were historically high. Our dams and spillways operated within their design parameters.

When our dams are almost full or spilling, we generate electricity from them as strongly as possible to avoid or minimise spilling.

We had been operating storages to reduce levels in the catchments that were almost full or spilling following the significant inflows in May.

Hydro Tasmania's infrastructure is designed to divert water from the Ouse River into Great Lake via the Liawenee canal. Further down the Ouse River there is a diversion down Monpeelyata canal into Lake Echo.

During the floods, the Liawenee and Montpeelyata canals upstream of the township of Ouse operated at full capacity to divert as much water as possible from the Ouse River into *yingina* / Great Lake and Lake Echo. The size of the rainfall event far exceeded the capacity of Hydro Tasmania's assets to divert water.

In general terms, our dams are not specifically designed for flood mitigation. Once they're full, the water that flows in, flows out. During extreme flood events, spill from storages that have reached capacity is inevitable.

Cheers, [REDACTED]



[REDACTED]
p [REDACTED]
e [REDACTED]
w www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

From: [REDACTED]
Sent: Wednesday, 29 June 2016 10:07 AM
To: Media Enquiries
Subject: Flood

Hi [REDACTED]

I'm writing a story about the response to the floods from the perspective of different organisations involved. I'm seeking information about the processes or strategies that Hydro employed during the flooding. For instance I was told during the flooding of the Ouse River, Hydro was diverting water into different areas to try and ease the flooding in that river.

Regards,

--

MERCURY Sunday **TASMANIAN** **country** **The Gazette**

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The banner features a red background with white and yellow text. It includes images of the Mercury newspaper in print, on a tablet, and on a smartphone. The text 'SUBSCRIBE TODAY' is in large, bold, yellow letters, 'TO THE MERCURY' is in large, bold, white letters, and 'FIND OUT MORE' is in a yellow button with black text.

Hi [REDACTED]

In relation to your enquiry, we're not releasing water from dams (including above Ouse), but rather, the opposite is true.

We're actually helping to minimise flow into the Ouse River by using diversion canals to divert flows away from the river and into Great Lake and Lake Echo.

If needed, lines are...

From Hydro Tasmania's Director of Wholesale Energy Services, Gerard Flack:

Unprecedented rainfall has fallen across several of Hydro Tasmania's catchments in the past 48 hours. Our operational focus at this time is on the safety of our people, the public and our assets.

We are not 'releasing' additional water from our dams.

Hydro Tasmania can reduce the outflow from some dams and/or divert water away from flood-affected rivers. These measures are being taken where practical to do so, but are very limited in their effect during an extreme weather event such as this. Spill becomes unavoidable.

In regards the Ouse River, the upstream diversion canals are directing water away from the river into Great Lake and Lake Echo.

Some of the flood flows being experienced in the northern Tasmania are at historic highs. There is no known damage to any of our dams or spillways, which are operating within their design parameters.

Floodwaters have caused damage to some of Hydro Tasmania's secondary assets, mainly landslips and road damage as well as failure of some river flow monitoring sites. Until the water subsides, it is not possible to assess the extent of that damage.

Hydro Tasmania urges people to heed the advice of Tasmania Police and the State Emergency Service, be aware and take notice of warnings from the Bureau of Meteorology.

The info about dams that are spilling is on our website:

<http://www.hydro.com.au/water/lake-levels>

Hope that helps.

Cheers,



P [redacted]
E [redacted] / media@hydro.com.au
W www.hydro.com.au
4 Elizabeth Street, Hobart TAS 7000

From: [redacted]@abc.net.au]
Sent: Tuesday, 7 June 2016 10:18 AM
To: [redacted]
Subject: dam releases

Hi [redacted]

As discussed, is Hydro carrying out a water release program from some of their dams at the moment?

If so, where?

Can we get details about how much water is being released and how long the plan is expected to go for and I guess Why?

Also can we get some details about dams that are also "spilling"

Many thanks
[redacted]

-

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Impact of heavy rainfall and flooding

8 June 2016

Unprecedented rainfall has fallen across several of Hydro Tasmania's catchments in the past 72 hours.

Hydro Tasmania's operational focus at this time is on the safety of our people, the public and our assets.

"Some of the flood flows being experienced in northern Tasmania are at historic highs. However, our dams and spillways are operating well within their design parameters," said Chris Topham, Dam Safety Manager.

"Importantly, there is no issue with respect to dam safety.

"We increased the level of monitoring our dams and spillways at the start of the heavy rains. Now that water has started to subside, inspections have found minor damage to non-critical elements of some dams.

"This minor damage will be repaired over coming weeks, and poses no issue to power generation or dam safety."

Floodwaters have also caused damage to some of Hydro Tasmania's secondary assets, mainly landslips and road damage, damage to some canals, as well as failure of some river flow monitoring sites. Until the water subsides further, it is not possible to fully assess the extent of that damage.

Hydro Tasmania's cloud seeding program is on hold due to the high river levels across the state.

Hydro Tasmania has urged people to heed the advice of Tasmania Police and the State Emergency Service, and take notice of warnings from the Bureau of Meteorology.

Hydro Tasmania is aware of the devastating impact of these floods and extends its sympathies to all who have been affected.

Ends.

Released for Hydro Tasmania by



Warning to boaters

8 June 2016

*****WARNING RESCINDED (27 JUNE) BOATERS SHOULD STILL EXERCISE CAUTION*****

Hydro Tasmania, Marine and Safety Tasmania and the Inland Fisheries Service are warning Tasmanians to avoid inland boating during the current flooding and extreme weather.

Many of Hydro Tasmania's lakes are rising rapidly or already spilling. Some have reached record high levels (refer to <http://www.hydro.com.au/water/lake-levels> (<http://www.hydro.com.au/water/lake-levels>) for current lake levels).

Hydro Tasmania, MAST and the IFS have issued the following warnings and reminders:

- Boaters must particularly avoid Hydro Tasmania lakes that are currently full and spilling over dam walls. There is an extreme risk of boats getting catastrophically sucked into the spillway;
- Always adhere to exclusion zones (indicated by signs and / or buoy lines);
- Warning signs and exclusion zone buoy lines may not be visible due to inundation or flood damage;
- There's an increased risk of strong currents, floating debris and unexpected navigation hazards;
- Access roads, launching ramps, pontoons and exclusion buoy lines may currently be underwater;
- Boating infrastructure may be accessible but damaged by high levels and flows.


There's more safety and navigation information at <http://www.mast.tas.gov.au/> (<http://www.mast.tas.gov.au/>).


Ends.

Released for Hydro Tasmania by



STATEWIDE FLOOD AREAS

Presented by 



The power of natural thinking

Lake Gardener On Spill 7 June 2016



Landslip at Cethana



Cethana On Spill, 1m Above Historic High



Cleaning Up The Flooded Store



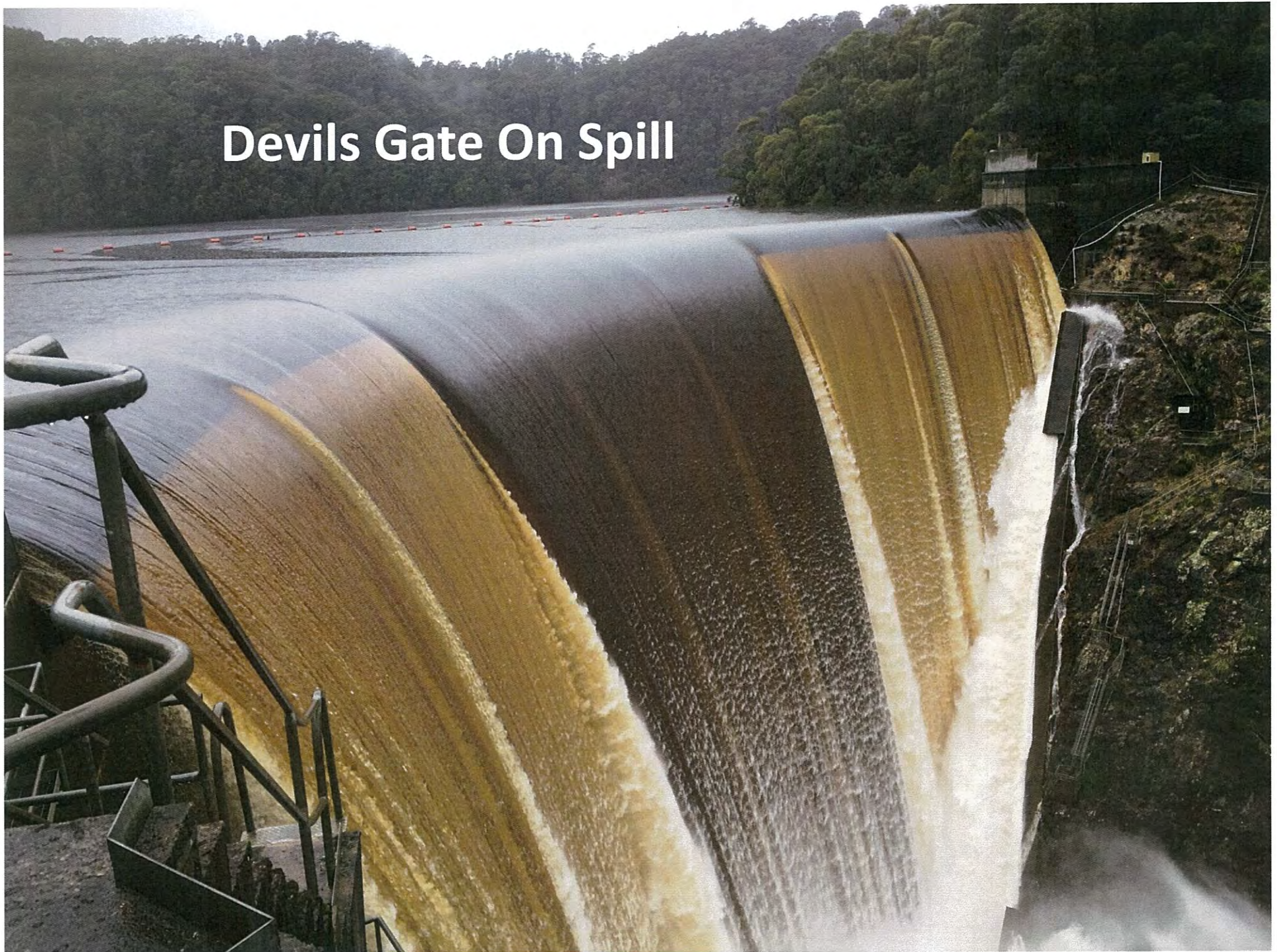
Boats Will Come In Handy



Devils Gate Power Station

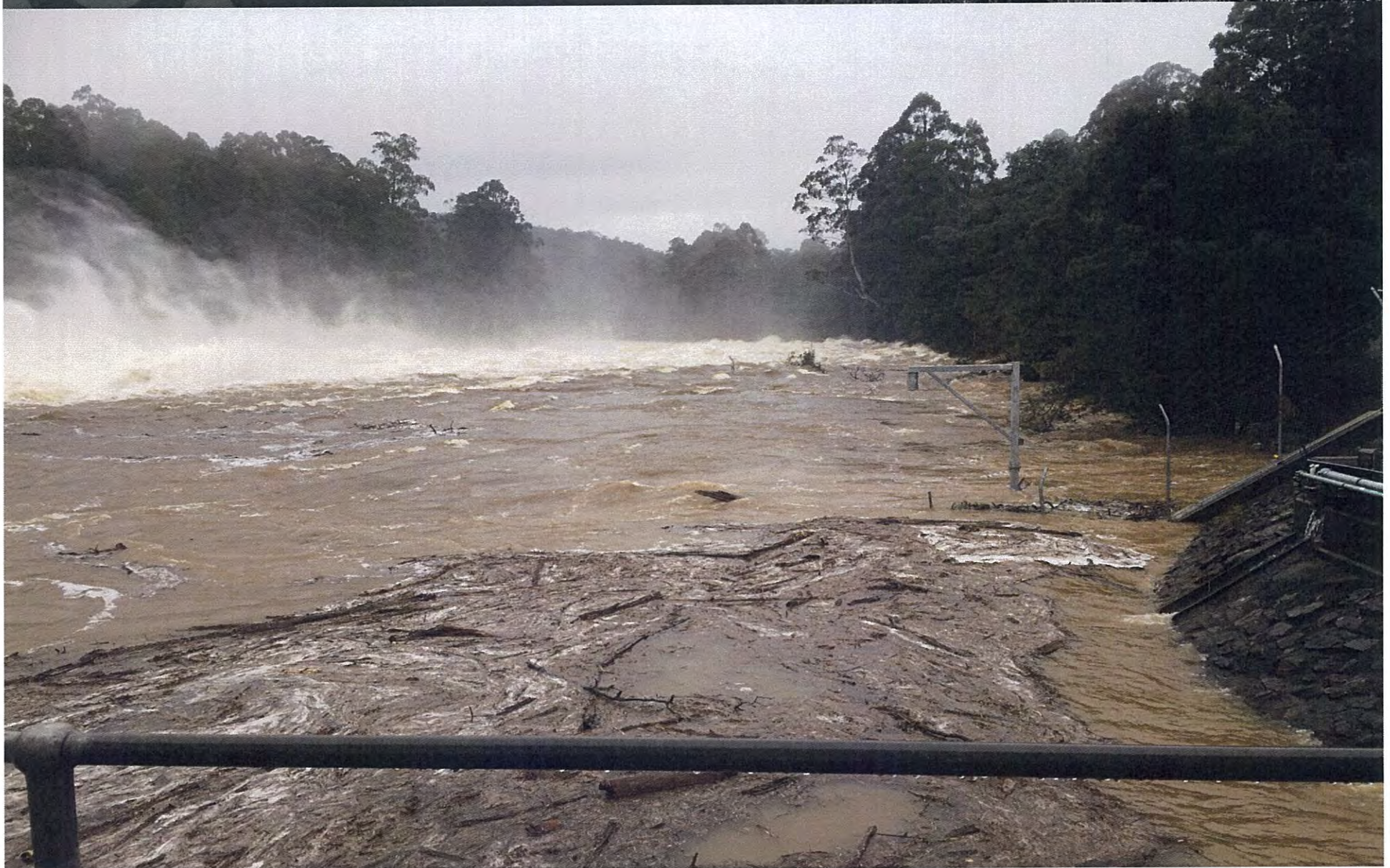


Devils Gate On Spill





Debris – Paloona Power Station



Paloona Power Station - Road Erosion



Paloona Power Station



Paloona



Paloona



Yeates Creek

