

## RPSC TAG Ongoing Action List – Update 7 May 2015 – Prior to TAG Meeting on 22 May 2015

This issue updated by JB additions are shown in red

Ongoing Working draft – to be considered and updated at/after each TAG meeting and as is appropriate between TAG meetings.

TAG Actions	Lead By	Due Date By	Notes for Updating	Completed
1. “Add On” Technologies identification and assessment includes indigitech and others in previously prepared ‘flagged list’	TAG/AL	Ongoing	<ul style="list-style-type: none"> <li>Included as TAG Agenda #6 Meeting 8th April 2015</li> <li>See individual updates in earlier Action Lists</li> </ul>	Latest updated 22 April 2015 AL
2. Discuss to what extent we need to consider Geothermal reinjection and current discussions with industry	TAG/AL	Complete	<ul style="list-style-type: none"> <li>RPSC have parked this one.</li> <li>12/9 TAG considered further and consider the matter complete unless new information comes to hand.</li> </ul>	12/9/14
3. Discuss to what extent we need to consider activated carbon and current status of the proposed plant for Rotorua	TAG/AL	Ongoing	<ul style="list-style-type: none"> <li>Included as TAG Agenda #6 Meeting 8<sup>th</sup> April 2015</li> <li>See individual updates in earlier Action Lists</li> <li>Discussed at RPSC 22 April</li> <li>Mott MacDonald being engaged to assess</li> </ul>	
3. Effects of a discharge possible location towards the Ohau Channel end of the lake on lake(s) water quality, mixing patterns – take to WQ TAG	AB	Ongoing	<ul style="list-style-type: none"> <li>Partly addressed by David Hamilton at RPSC presentation on 12/08 - Key item to be included in Key Action No.8.</li> <li>12/9 Discussed – see minutes goes into effects study – This matter goes into the Waikato Uni effects study Stage 1</li> <li>Ongoing in effects assessment project – note this location not included in the AP/GM first cut discharge locations assessment</li> </ul>	
5. Consideration of micro-pollutants EDC’s etc. consider info on the current treated discharge	TAG/AL/JB	Ongoing	<ul style="list-style-type: none"> <li>12/9 TAG meeting - on hold until we have further info</li> <li>Refer to Cawthron Report No. 2363 on RDC – WWTP treated wastewater</li> <li>Further consider in conjunction with wastewater options report output</li> </ul>	

## RPSC TAG Ongoing Action List – Update 7 May 2015 – Prior to TAG Meeting on 22 May 2015

This issue updated by JB additions are shown in red

Ongoing Working draft – to be considered and updated at/after each TAG meeting and as is appropriate between TAG meetings.

TAG Actions	Lead By	Due Date By	Notes for Updating	Completed
			<ul style="list-style-type: none"> <li>RPSC updated on this topic by JB at Committee meeting on 19<sup>th</sup> March 2015</li> <li>To consider further, once preferred option identified.</li> </ul>	21/03/2015
6. Hikoi/Field trip in April 2014 write up for consultation record etc.	JB	End of October	<ul style="list-style-type: none"> <li>JB to complete for consultation record</li> <li>Photographs and brief verbal report already given to RPSC</li> </ul>	
7. <b>Mott McDonald (MM) Wastewater consultant engagement to RDC</b> – Detailed feasibility of core options 1, 2 and 3 and water discharge options – see brief	GM	Ongoing engagement to RDC	<ul style="list-style-type: none"> <li>GM as Project Manager gets weekly updates from MM.</li> <li>MM draft report due 7<sup>th</sup> November TAG consider it at meeting 17<sup>th</sup> – 21 November (date to be confirmed)</li> <li>Draft report presented to TAG 20 November 2014 and final report to RPSC 21 December 2014</li> </ul>	Completed 21/12/14
8. Water discharge location and effects investigations – what is known, what is needed, who will do them, when, overall program – integration into RMA consents/effects assessment process  <b>Waikato Uni effects study engagement to RDC</b>	DH – Waikato University engagement	Ongoing	<ul style="list-style-type: none"> <li>Fundamental key part of work for decision making and RMA consent(s) report</li> <li>GM has asked DH to lead and advise on scope – program etc.</li> <li>To be undertaken in stages – stage 1 and 2 scope due to GM Monday 13<sup>th</sup></li> <li>GM to advise RPSC of scope etc at meeting 14<sup>th</sup> October</li> <li>Both projects in progress TAG Being updated 8<sup>th</sup> April 2015 – Agenda Items 9 and 10.</li> <li>Discussed at RPSC – AC to provide CAS input</li> <li>DH to include in off shore in lake discharge option in Effects Assessment</li> </ul>	

## RPSC TAG Ongoing Action List – Update 7 May 2015 – Prior to TAG Meeting on 22 May 2015

This issue updated by JB additions are shown in red

Ongoing Working draft – to be considered and updated at/after each TAG meeting and as is appropriate between TAG meetings.

TAG Actions	Lead By	Due Date By	Notes for Updating	Completed
9. TAG core short list graphic/to upgrade as per discussions at RPSC on 12/08	JB/AL	Ongoing	<ul style="list-style-type: none"> <li>The graphic has been amended showing UV killing pathogens etc.</li> </ul>	Completed 17/09/14 and subsequent updates
10. Consultation Strategy – Warren/RPSC task any tag input	Warren/RPSC	Ongoing	<ul style="list-style-type: none"> <li>Check with Warren, when (any) further Input needed</li> </ul>	Completed at RPSC Oct/Nov 2015
11. Consultation Implementation - technical material from TAG to be used for the documents etc e.g. Options write up and graphics, cost estimates etc	GM/AL/JB	Ongoing	<ul style="list-style-type: none"> <li>Data for information booklet for stage 2 consultation already provided</li> <li>TAG provide further data as required</li> </ul>	In progress through RPSC and Cultural Impact Sub-Committee (CIS)
12. Other 'flagged options' e.g. Biochar, other add ons, in addition to Indigitech (Item 1)	TAG/AL	12/09 Meeting	<ul style="list-style-type: none"> <li>AL to continue to update on other correspondence and technologies being dialogued</li> <li>Included as Agenda Item 6 TAG Meeting 8<sup>th</sup> April</li> </ul>	Completed as now in included in Actions 1 and 3
13. Water quality and ecology standards and guidelines – relevance of NPS for Freshwater Management 2014 (Gazette on 4 <sup>th</sup> July)	TAG	12/09 Meeting	<ul style="list-style-type: none"> <li>There is an action on JB to provide to RPSC but this needs to be put into the context of Action Items 8 and 14 also</li> <li>12/9 draft template on whiteboard to be drawn up and begin compiling. Work in progress</li> <li>Additional information requested by RPSC at 19th March meeting – refer to Q&amp;A Group B question one this – TAG Action needed as to who co-ordinates</li> </ul>	<p>This Action is now completed and included in Action 14</p> <p>New Action now required</p>

## RPSC TAG Ongoing Action List – Update 7 May 2015 – Prior to TAG Meeting on 22 May 2015

This issue updated by JB additions are shown in red

Ongoing Working draft – to be considered and updated at/after each TAG meeting and as is appropriate between TAG meetings.

TAG Actions	Lead By	Due Date By	Notes for Updating	Completed
			<ul style="list-style-type: none"> <li>JB has collected some EBoPRC data from AB but held back presenting to RPSC on 22 April 2015 after advised to by AB</li> <li>JB now to reconsider advancing some information to RPSC on 20 May 2014</li> </ul>	
14. Receiving environment quality (Lake/River) standards and guidelines matched against WWTP effluent now and option 1, 2 and 3 effluent for a range of water quality, contaminants and ecological indicators e.g. QMCI Chlorophyll a – incorporates output from action 13 – Life Supporting Capacity criteria	TAG AL/JB/DH/CM	Ongoing	<ul style="list-style-type: none"> <li>Initial table presented to RPSC 17th of September</li> <li>Table to be expanded to include MfE/MoH contact and wild guidelines</li> <li>Tables to be populated as effects study and treatment study advance</li> <li>Tables are a key communication tool with RPSC and more latterly consultation and AEE</li> <li>Additional information requested by RPSC at 19th March meeting – refer to Q&amp;A Group B question one this – TAG Action needed as to who co-ordinates</li> </ul>	New Action now required
15. Cultural Health Indexing (CHI) – TAG to discuss how this may be meshed – subject to cultural input on what may be required – with actions 13 and 14 - Life Supporting Capacity criteria	TAG	Ongoing	<ul style="list-style-type: none"> <li>This was raised at the RPSC 12/08 meeting. Agreement to try and match this with environment quality – action 14 above – requires Iwi input and lead</li> <li>12/9 TAG discussed refer to minutes</li> <li>Included in slide to RPSC 17/09</li> <li>Cultural Assessment Community to further advise TAG on approach (or not) to CHI – a consideration for future resource consent conditions and more immediately the effects studies especially Waikato Uni</li> <li>Unlikely to proceed as advised by AC at TAG on 8 April 2015</li> </ul>	On hold. Likely not proceed in this form but awaiting any advice from Cultural Impact Sub-Committee (CIS)

## RPSC TAG Ongoing Action List – Update 7 May 2015 – Prior to TAG Meeting on 22 May 2015

This issue updated by JB additions are shown in red

Ongoing Working draft – to be considered and updated at/after each TAG meeting and as is appropriate between TAG meetings.

TAG Actions	Lead By	Due Date By	Notes for Updating	Completed
16. Wastewater inputs management – as per an overall Wastewater Strategy development – refer TAG core short listed options graphic	TAG – Eric Crawley (RDC)	Ongoing	<ul style="list-style-type: none"> <li>To consider Eric presenting to RPSC in November? See Warren</li> <li>Ongoing development for Wastewater Action Item 17</li> </ul>	Completed 11/11/14 RPSC
17. Development of Wastewater Strategy to underpin consent application(s) – refer to TAG core short listed options graphic	TAG/RDC/ RPSC	Ongoing	<ul style="list-style-type: none"> <li>Ongoing development of Strategy to identify items also needed to underpin consent application(s) e.g. RDC suggested conditions as well as strategy itself</li> <li>AC in cultural update, promoted this concept with respect to achieving the long term goals</li> </ul>	Ongoing action
18. Chair WW. Technical deliberations dated 20th August – email attached, please note TAG feedback required ASAP and before Warren's subcommittee meeting in next 7 – 10 days. Updated WW output sent to JB 2nd September – Attached to the email sent with this updated Action List	TAG/DH/CM/A B	Discussed TAG 12/09	<ul style="list-style-type: none"> <li>WW's questions relate to Wetlands, now Action Item 21 discharges Kaituna. DH question 2 – GM for question 1 – GM - but action 7 will provide some of the answer</li> </ul>	Initial answers prepared by DC and JB presented at RPSC 17/09 Completed late 2014
19. Relevant Planning Instruments for future consenting and status of existing WWTP consents	TAG/AL?	Ongoing	<ul style="list-style-type: none"> <li>Identify at what stage do we need a planning instrument assessment and who would do it?</li> <li>TAG to further consider</li> <li>Discussed at TAG 8 April. GM to hold</li> <li>Need to keep NPSFM included in effects</li> </ul>	Ongoing assessment as to when

## RPSC TAG Ongoing Action List – Update 7 May 2015 – Prior to TAG Meeting on 22 May 2015

This issue updated by JB additions are shown in red

Ongoing Working draft – to be considered and updated at/after each TAG meeting and as is appropriate between TAG meetings.

TAG Actions	Lead By	Due Date By	Notes for Updating	Completed
20. Legal Input/advice	GM/TAG	Ongoing	<ul style="list-style-type: none"> <li>Identify – Seek advice of legal input on RMA process at appropriate time</li> <li>Note importance of recent WWTP consent conditions RMA Case</li> <li>TAG/RLC to further consider</li> <li>Discussed TAG on 8 April 2015 to hold meantime</li> </ul>	Ongoing elevation
21. Wetlands Question – WW’s and Deputy Mayor Dave Donaldson’s Questions	GM	Ongoing	<ul style="list-style-type: none"> <li>Question of Airport extension consent and wetlands and any opportunity to combine WWTP option with this – need Wastewater Consultant Report (Action Item 7) output</li> <li>GM to provide details ASAP</li> <li>JB question to GM about floating wetlands near our two water outfall?</li> <li>AL has obtained proposal from Waterclean Technologies for Floating Wetlands. Refer Item 1 “Add-on’s List” considered at next TAG 22<sup>nd</sup> May 2015</li> </ul>	
22. Deloitte’s Nitrogen Trading cost estimating for BOPRC.	AB	Ongoing	<ul style="list-style-type: none"> <li>AB to Inform next TAG and determine relevance to RPSC Project</li> <li>AB to further update if of relevance included as TAG Agenda Item 11 8th April 2015</li> <li>AB made available Deloitte’s Report</li> </ul>	
23. KM questions for 12/09 Agenda, KM email 05/09 JB reply 08/09	KM/GM/JB/DH	12/09 TAG	<ul style="list-style-type: none"> <li>Re: Previous contamination Sulphur Points etc.</li> <li>12/9. TAG discussed dredging and contaminated sites as raised by iwi reps and KM. It’s a matter for the RPSC not TAG, unless the Sulphur Point site was to be a discharge location.</li> </ul>	Matter addressed unless new information/or options

## RPSC TAG Ongoing Action List – Update 7 May 2015 – Prior to TAG Meeting on 22 May 2015

This issue updated by JB additions are shown in red

Ongoing Working draft – to be considered and updated at/after each TAG meeting and as is appropriate between TAG meetings.

TAG Actions	Lead By	Due Date By	Notes for Updating	Completed
			<ul style="list-style-type: none"> <li>Refer to TAG minutes 12/09/14</li> </ul>	assessment raises additional matters
24. Overall Project Programme and linking to RPSC and TAG activities/actions	GM/JB	Ongoing	<ul style="list-style-type: none"> <li>GM drives program as Project manager and needs to mesh with Warren re: RPSC activities and JB Re TAG</li> <li>Refer to JB email to TAG 10/10 using GM's latest programme to the end of 2014</li> <li>Agenda Item 13 8<sup>th</sup> April 2015 TAG Meeting – refer attachment to that Agenda</li> <li>Refer slides title "RLC Technical &amp; Environmental Investigation Tasks" – Update to RPSC 22 April 2015 – two slides covering all investigations and target timelines for deliver - see shared website</li> </ul>	Ongoing
25. There are 2 things missing that Greg will include and discuss with MM Engineered-type wetlands (longer retention time) and diffusers. We also need to include floating wetland, eg 'in' the lake.	GM to MM TAG to RPSC	To Action	<ul style="list-style-type: none"> <li>Check GM has Actioned with MM</li> <li>RPSC not favouring Wetlands</li> <li>Waterclean Technologies have submitted Floating Wetlands Proposal – AL to update TAG 22<sup>nd</sup> May meeting</li> </ul>	Matter initially answered but will be furthered considered in final option selection
26. CMB put together a very useful spreadsheet that combines the treatment options with discharge options to give effluent quality. AL and CMB to check current version and send to MM	CMB/AL	Action and Ongoing	<ul style="list-style-type: none"> <li>AL updated and sent to MM on 7/10</li> <li>To consider how to further use for communicating to RPSC and wider consultation</li> </ul>	Completed 07/10

## RPSC TAG Ongoing Action List – Update 7 May 2015 – Prior to TAG Meeting on 22 May 2015

This issue updated by JB additions are shown in red

Ongoing Working draft – to be considered and updated at/after each TAG meeting and as is appropriate between TAG meetings.

TAG Actions	Lead By	Due Date By	Notes for Updating	Completed
27. GM will sort engaging DH for the effects study with BPORC	GM		<ul style="list-style-type: none"> <li>Effects study in progress Waikato University engagement. Update included as Item 9 at TAG 8<sup>th</sup> April 2015.</li> </ul>	To be deleted as now in key Waikato Uni Effects study Action item 8
28. GM to find out what size wetland is required to supplement the remaining requirement for wetlands in lieu of the airport substitution requirement.	GM			To be deleted as now included in Action 21
29. DH write a scope to submit to GM and run past TAG. First DH will provide a keypoint slide on the his proposal for the 'effects' study for the Steering Committee next week and seek any feedback from them.	GM/DH		<ul style="list-style-type: none"> <li>Slide provided to RPSC 17/09/14</li> <li>Effects study in progress Waikato University engagement. Update included as Item 9 at TAG 8th April 2015.</li> </ul>	To be deleted as now included in Action 21
30. RPSC requests for 3 ? reports that the Regional Council hold namely; Sulphur Point contaminated land? Dredging, of Silt in lake? and Birds?	AB to JB	ASAP	<ul style="list-style-type: none"> <li>AB to advise how these can be obtained</li> <li>JB to further check RPSC minutes as to precise topics and further advise AB if possible</li> </ul>	Completed and made available to RPSC
31. TAG (JB) to ask RLC to write to Fonterra for update on land application of treated human	JB/RLC (GM/A Bell)		<ul style="list-style-type: none"> <li>Matter arose at TAG 8 April 2015</li> <li>JB progressing with ongoing RLC</li> </ul>	Ongoing



## RPSC TAG Ongoing Action List – Update 7 May 2015 – Prior to TAG Meeting on 22 May 2015

This issue updated by JB additions are shown in red

Ongoing Working draft – to be considered and updated at/after each TAG meeting and as is appropriate between TAG meetings.

TAG Actions	Lead By	Due Date By	Notes for Updating	Completed
32. Asset life of the existing LTS and could part of it be used for a future total volume or partial volume LTS somewhere else	GM	To be included in Land Treatment Investigations output. Report due 19 <sup>th</sup> June		
33. The 30 plus 3 TN..TP tonnes per year targets – need to clarify this. Refer page 15 AB comments on TAG minutes of 8 <sup>th</sup> April 2015, pages 15 and 16				
34. First cut discharge locations – refinement and inclusion of an offshore/in lake discharge point in the Waikato University effects study	AP/GM/DH re effects study	As per respective work packages		
35. Refresher/better packaging of how the parts of the treatment options and discharge options fit together for a total scheme – use of lay friendly schematics etc. Raised by AC at TAG 8 <sup>th</sup> April 2015 and by RPSC at 22 <sup>nd</sup> April 2015	JB/TAG	Target to present to RPSC as a refresher on 20 <sup>th</sup> May 2015 and discuss at TAG 22 <sup>nd</sup> May 2015		
36. Overland flow option – to check it's status in the Mott MacDonald report	JB	To update at TAG 22 <sup>nd</sup> May 2015		

## RPSC TAG Ongoing Action List – Update 7 May 2015 – Prior to TAG Meeting on 22 May 2015

This issue updated by JB additions are shown in red

Ongoing Working draft – to be considered and updated at/after each TAG meeting and as is appropriate between TAG meetings.

TAG Actions	Lead By	Due Date By	Notes for Updating	Completed
37. Agreed to Confidentiality Agreement with Liquid Media	AL to advance – maybe check with Andy Bell first	AL to update TAG 22 <sup>nd</sup> May 2015		
38. Black Mica - Further info required	AL to follow up commercial usage. JB to follow up through MWH			
39. Activated Carbon Option for full or partial flow at WWTP. Agreed at RPSC on 22 <sup>nd</sup> April 2015 to investigate further	JB/Andy Bell in GM's absence		<ul style="list-style-type: none"> <li>JB drafted brief that Andy Bell is arranging for Mott MacDonald to include in their WWTP Strategy Study draft report due 15th May 2015</li> </ul>	
40. UF and RO – question of further investigation needed or not? Taken to RPSC on 22 <sup>nd</sup> April 2015.	JB/Andy Bell at RPSC		<ul style="list-style-type: none"> <li>RPSC requested further consideration of UF alone</li> <li>RPSC are still keeping RO in the mix but are now aware of high costs and concentrate discharge issues</li> </ul>	
41. Group B questions/Peter Staite US Dept of Household Products and Potential Effect on Human Health	DH to provide Brisbane Project information. JB to look at linkage with micro pollutants and WEF research work output			

## RPSC TAG Ongoing Action List – Update 7 May 2015 – Prior to TAG Meeting on 22 May 2015

This issue updated by JB additions are shown in red

Ongoing Working draft – to be considered and updated at/after each TAG meeting and as is appropriate between TAG meetings.

TAG Actions	Lead By	Due Date By	Notes for Updating	Completed
42. Other that maybe further identified form TAG Meeting #6 8 <sup>th</sup> April 2015. Refer minutes?				