

## APPENDIX 1

### CONDITIONS OF CONSENT

#### General

1. Except as required by subsequent conditions the development shall proceed in general accordance with the information and plans submitted with the application and any subsequent further information provided by the applicant during the hearing. The Approved Consent Documentation has been entered into Kapiti Coast District Council (KCDC) records as **RM150184** and includes the stamped approved plans on **24 March 2016**.  
The information and plans submitted with the application including any modifications made during the hearing are listed below.
  - Application Form and Description and Assessment of Environmental Effects on the Environment, prepared by Chris Hansen Consultants, dated 18 September 2015.
  - Resource consent application for disturbance of land and change of use - NES Soil, prepared by Tonkin and Taylor, dated September 2015  
*Appendices to the Assessment of Environmental Effects as follows:*
  - Appendix C - Report on Assessment of hydrological implications, prepared by Opus International Consultants, dated July 2015
  - Appendix D - Ecological Assessment of a proposed gravel quarry at Otaki, prepared by Wildland Consultants, dated July 2015
  - Appendix E - Noise Effects assessment, prepared by Marshall Day acoustics, dated 12 August 2015
  - Appendix F - Assessment of Landscape and Visual Effects, prepared by Boffa Miskell, dated 17 September 2015
  - Appendix G - Cultural Values Impact Report, prepared by Nga Hapu-o-Otaki, dated 7 August 2015
  - Appendix H – Proposed Otaki Quarry Extraction Extension Transportation Assessment, prepared by Harriet Fraser Traffic engineering & transport Planning, dated 29 July 2015
  - Appendix I – Review of high quality greywacke aggregate resources in the Wellington Region and near Otaki, prepared by Richard Barker, consulting Geologist, dated July 2015
  - Appendix J - Report on Effects on horses at the Otaki-Maori Racing Club Property, prepared by Kevin Rooney, Te Aroha Veterinary Services, undated
  - Appendix K – Assessment of Economic effects, prepared by Brown, Copeland & Co. Ltd, dated 7 August 2015
  - Plan showing toe of stopbank along southern boundary – Winstone Aggregates Drawing titled “Limit of Excavations Along Site Boundaries” drawing no. W15015-001 dated 28.1.16
  - Stopbank Crossing Plan – Figure 15 of Assessment of Environmental Effects – Opus drawing, titled “Plan Layout Truck Access” project no. 3-53220.00 sheet 1 rev A dated 21/7/15

- Location of Noise Bunds - Figure 5 of Boffa Miskell Assessment of Landscape and Visual Effects Report, dated 16 September 2015
  - Figure 2 "Site Features" of Ground Contamination Assessment Report, prepared by Tonkin and Taylor, dated July 2014
  - Planting Plan, prepared by Boffa Miskell, Drawing no. RG4, revision 2, dated 10 February 2016
2. The consent holder shall pay KCDC a Compliance Fee of \$286.00 (GST inclusive) within one month of the issue of the consent, for plan approvals, site inspections and consent compliance monitoring, plus any further monitoring charge or charges to recover the actual and reasonable costs that have been incurred to ensure compliance with the conditions attached to this consent.  
**Note:** The consent holder will be advised of the further monitoring charge or charges as they fall due. Such further charges are to be paid within one month of the date of invoice.
  3. Pursuant to Section 128 of the Resource Management Act 1991, KCDC may review the conditions of this consent by serving notice on the consent holder during September of any year, commencing in 2017, in order to deal with any adverse effects on the environment which may arise from the exercise of this consent and which it is appropriate to deal with at a later stage.  
**Note:** As part of any review, KCDC shall consult the Greater Wellington Regional Council on relevant matters.
  4. A copy of the consent and all documents and plans referred to in this consent shall be kept at both the Ōtaki Processing Site Office and Ashford Park Site at all times.

#### **Access and Traffic Management**

5. The consent holder shall ensure that:
  - a) Te Roto Road is not used for trucks associated with the gravel extraction activity at any time whether laden or unladen.
  - b) No staff use Te Roto Road access except for emergencies such as medical emergencies, fuel leaks or urgent stabilization works, routine maintenance, security patrols and any set up work on the site prior to the access across the Stopbank being formed.

**Note:** For the avoidance of doubt this traffic restriction does not apply to other non-quarry related activities occurring on the site.

#### **Public Access**

6. The consent holder shall provide a pedestrian/cycle access that is available to the public to a minimum width of 3m along the northern/eastern boundary of the site from Te Roto Road to the property boundary adjacent to of the Ōtaki River Corridor. This pedestrian/cycle access shall be put in place prior to the commencement of excavation on the site, shall be fenced off from the excavation area and shall remain in place until the completion of the Rehabilitation Works required under Conditions 44-48.
7. The consent holder shall ensure that the paper road is fenced off from the extraction area at all times. The consent holder shall provide a safe pedestrian crossing point with appropriate warning signs and traffic management at any place the quarry vehicles need to cross the paper road.

## **Permanent Protection of Stopbank Edge**

8. The consent holder shall place a covenant or similar encumbrance on the title along the lake edge at the Stopbank boundary (as defined at on the plan titled "Crystalls Bend Ōtaki River Ōtaki – Limit of Excavation along site boundaries" drawing no. W15015-001 dated 20 January 2016) immediately following the completion of the Rehabilitation works required under condition 47 to ensure the long term protection of the lake edge slope and planting.

## **End use of lake**

9. At the end of stage 3 extraction works the consent holder shall consult with the Community Liaison Group members and including Ngā Hapū o Ōtaki, the Ōtaki Community Board and adjacent property owners about the end use and management of the lake and its margins. Following this consultation, the consent holder shall provide KCDC with a report that reports on the consultation undertaken and identifies long term maintenance requirements and any restrictions on land uses or surface water uses and implement any necessary mechanisms (such as encumbrances on the title) to ensure long term sustainability of the shoreline and planting.

## **Site Management Plan**

10. Prior to any works commencing, the applicant shall submit a Site Management Plan (SMP) to the Team Leader Development Control, KCDC for review and certification at least four weeks prior to the commencement of works. A copy of the Draft Plan shall be provided to the CLG prior to the time it is submitted to the Resource Consents Compliance Manager, KCDC for certification. The CLG shall be given a period of two weeks in which to forward any comments it may have on the draft plan to the Resource Consents Compliance Manager, KCDC prior to any certification being given. The SMP shall document as a minimum:
  - a. Relevant site operations, the framework and detail of procedures and lines of responsibility for management of effects of the quarry operation, and the methods for communicating the requirements of the SMP to those persons engaged in the activity on the site;
  - b. Environmental effects associated with the quarry operation, including (but not limited to) noise, dust, traffic, ecology, hydrology, contamination and visual effects;
  - c. Consent conditions (imposed by KCDC or Greater Wellington Regional Council) and any other mitigation measures to be employed to minimise environmental effects and/or adhere to best practice;
  - d. Relevant monitoring requirements;
  - e. Relevant site rehabilitation and significant vegetation protection requirements in accordance with the Landscape Strategy and Rehabilitation Strategy, operational Stage Plans (1-4) and associated Planting, Pest Control and Ecological Island Plans (required by Conditions 43 - 52 below);
  - f. The collection and response to complaints (including provision for staff training to manage complaints), to ensure compliance with Condition 13; and
  - g. Provision for the SMP to be reviewed and revised by a suitably qualified or experienced person(s) to maintain on-going best practice for site operations in terms of avoidance and control of adverse effects.

- h. A construction noise management plan including those matters as detailed in section 8 and Annex E of NZS 6803: 1999 *Acoustics - Construction noise*.

### Operational Matters

- 11. In addition to the matters set out in condition 10 above, the following operational matters are to be specifically addressed in the SMP:
  - a. The excavation of aggregate shall only be within the excavation area shown on the plan titled "Ashford Park Planting Plan RG4" prepared by Boffa Miskell and dated 10 February 2016;
  - b. The direction of excavation and staging of extraction shall be generally in accordance with the Staging Plan as set out in Figure 5 of Assessment of Landscape and Visual Effects Report dated 16 September 2015; (refer to Condition 47 below);
  - c. The consent holder shall ensure that there are excavation setback distances from the boundaries of the site as shown in Staging Plan, as set out in Figure 5 of Assessment of Landscape and Visual Effects Report dated 16 September 2015;
  - d. Dust management measures and triggers for active dust suppression;
  - e. Any areas of vegetation to be protected from works including boundary plantings and the 'islands' of significant vegetation;
  - f. Measures to ensure that identified vegetation will be protected prior to the commencement of excavation of each stage;
  - g. The construction and formation of the stopbank crossing shall be in accordance with the Stopbank Crossing Plan, titled "Greater Wellington Regional Council Truck Access Road Over Stopbank – Ōtaki River Concept Design – Plan Layout Truck Access" dated 21/07/2015 and prepared by Opus.
    - Note:** Any construction and formation of the stopbank crossing is subject to the approval of the Greater Wellington Regional Council.
  - h. Fencing requirements;
  - i. Emergency and spill contingency plan including a description of how accidents and spills will be avoided, course of action if something goes wrong, contacts details and how it will be cleaned up, location and type of spill kit;
    - j. Internal roads and traffic movements including;
      - i) Regular grading of the main haul road to maintain an even surface
      - ii) The dump trucks and any loaders working on site shall be fitted with broadband directional reversing beepers as opposed to tonal reversing beepers.
      - iii) All noise generating equipment on site will be maintained to a high standard at all times.
      - iv) Regular training and instruction of operators of machinery to include noise minimisation techniques.
  - k. Provisions for identified topsoil / mulch to be stockpiled and managed during excavation phase to remain viable as a suitable growing medium along completed riparian edges;
  - l. The construction and formation of the noise attenuating bunds on the northern and western boundaries (including the planting, watering and maintenance of the bunds) to ensure compliance with Conditions 22-25;
  - m. The operation of equipment to adopt the best practicable option to reduce noise and to ensure compliance with Conditions 26 - 29;
  - n. The avoidance of offensive or objectionable dust beyond the boundary of the

- o. site, to ensure compliance with Conditions 34 - 36;
  - o. Site Rehabilitation to ensure compliance with Conditions 43 - 48;
  - p. Creation of the Ecological Islands and protection of areas of significant vegetation to ensure compliance with Conditions 51 - 56, in consultation with a suitably qualified and experienced ecologist; and
  - p. The weed and pest animal management programme required under condition 44.
12. All works (site preparation and operation/maintenance) shall be undertaken in accordance with the final certified SMP and associated plans. Any changes that are proposed to the SMP once works commence, shall be submitted to the Manager Resource Consents Compliance, KCDC for at least 10 working days prior to any works commencing on site in accordance with the review process to be included in the SMP.

### **Complaints**

13. The consent holder shall keep a record of any complaints and the records shall, as a minimum, include:
- a. The nature of the complaint and the activity and any adverse effects to which it relates (e.g. noise);
  - b. The date and time when the complaint was made;
  - c. In the event of a dust complaint, a description of the wind speed and wind direction when the dust that resulted in a complaint was detected by the complainant;
  - d. Any corrective action undertaken by the consent holder to avoid, remedy or mitigate the adverse effect detected by the complainant;
14. A report containing a record of any complaints shall be provided to the Manager Resource Consents Compliance, KCDC and the CLG annually as part of the monitoring programme in SMP and upon request at any time.

### **Commencement of works**

15. The consent holder shall hold a preconstruction site meeting between representatives of KCDC and all relevant parties, including the primary contractor, at least 10 working days prior to the commencement of works in each stage, authorised by this consent.
16. The Team Leader Development Control, KCDC shall be notified not less than 48 hours prior to the commencement of site preparation works, along with the contact details (including after-hours contact details) of the person that will be responsible for implementing the SMP.
17. The consent holder shall undertake the boundary plantings and fencing shown on the plan titled "Ashford Park Planting Plan RG4" prepared by Boffa Miskell and dated 10 February 2016 prior to the commencement of aggregate extraction works. The boundary plantings and fencing shall be maintained until the completion of the rehabilitation works on the site.

### **Ōtaki Māori Racing Club**

18. The consent holder shall ensure that the first three race meetings and/or trial days

after Stage Three commences in the area identified in the stage plan as having the potential to have impacts on racing activities which occur during the hours of operation consented under this consent are monitored by a suitably qualified and experienced independent person(s) to ensure that the horses are not unduly affected by the quarry operational activities.

19. The consent holder shall address any matters identified through this monitoring with the Ōtaki Māori Racing Club and implement any necessary measures to address any matters identified by the monitoring prior to the running of the next race meeting and / or trial day. A report outlining the monitoring undertaken, the matters identified, the engagement with the Ōtaki Māori Racing Club and the measures implemented in response shall be provided to the Team Leader Development Control KCDC within one month of the completion of the monitoring.

### **Hours of Operation**

20. The following hours of operation shall apply to the site:
  - a) The site shall only operate between the hours of 0600 and 2200 Monday to Friday (excluding public holidays)
  - b) Extraction activities shall only be permitted between the hours of 0700 and 1800 Monday to Friday (excluding public holidays).
  - c) Transportation and loading of materials may occur between the hours of 0600 and 0700 and between 1800 and 2200 where noise limits in condition 28 are achieved.
  - d) The maintenance of vehicles and plant and rehabilitation planting on the site may occur on Saturdays between the hours of 0700 and 1800.
  - e) In stages 1 and 1A no activities associated with the gravel extraction activity, including transportation and loading of materials shall occur after 1800 hours.
  - f) Extraction works in stage 3 shall be restricted to a start time of 0900 hours where they are located in close proximity to the area used for daily training and stabling of race horses. This area shall be identified in consultation with Ōtaki Māori Racing Club, with evidence of input from the Ōtaki Māori Racing Club in the provided with the stage plan provided to KCDC for certification.

**Note:** For the avoidance of doubt there shall be no extraction or transport of extracted materials occurring on Saturdays, Sundays or public holidays.

**Note:** The stage plan may be revised to reduce the area referred to in (f) as work in the stage progress and/or if remedial actions are implemented as a result of monitoring in condition 19 following consultation with Ōtaki Māori Racing Club.

21. No quarry-related activities shall be permitted to occur on the site outside of the hours set out in Conditions 20 except for:
  - a. Emergency works (as defined by the Resource Management Act 1991);
  - b. Dust suppression; and
  - c. Security requirements.

### **NOISE**

#### **Creation of acoustic bunds for the purposes of noise control**

22. Prior to excavation of aggregate commencing on site, the following shall occur:
  - i. Section A of the 4 metre high earth bund shall be constructed along the western boundary of the site with a slope of 1:2 on both sides;
  - ii. Section B of the 3 metre high earth bund shall be constructed along the

- northern boundary of the site with a slope of 1:2 on both sides;
- iii. both Section A and Section B shall be constructed in the location shown on the plan Figure 5 of Assessment of Landscape and Visual Effects Report dated 16 September 2015.
    - a) No excavation work shall take place in Stage 1A until the acoustic bund (Section A – Stage 1A) is fully constructed.
    - b) No excavation work shall take place in Stage 1B until the Section A – Stage 1B acoustic bund is fully constructed.
    - c) No excavation work shall commence in Stages 2, 3 or 4 until the Section A acoustic bund is fully constructed.
    - d) No excavation work shall occur within Stages 3 or 4 until the Section B acoustic bund on the Ōtaki Māori Racing Club side of the site is fully constructed.
    - e) As soon as reasonably practicable, following completion of construction, each bund shall be sown with grass or otherwise vegetated, or mulched to prevent dust being generated. If the bund is vegetated, it shall be watered until the vegetation cover is established.
    - f) The construction of the bund adjacent to Stage 1 shall not occur when the wind is blowing from the southeast quarter at a speed exceeding 5 metres per second, unless it is raining. For the avoidance of doubt this condition does not apply to the application of mulch, hydroseed or any other measure intended to control dust from the bund.
    - g) The grassed bunds shall be mown regularly or grazed to give a tidy appearance.
    - h) The position of the bund adjacent to Ōtaki Māori Racing Club shall ensure a buffer distance is achieved between the toe of the bund and the Ōtaki Māori Racing Club boundary sufficient to ensure the bund does not exacerbate local flooding.
23. The bunds shown on the plan Figure 5 of Assessment of Landscape and Visual Effects Report dated 16 September 2015 shall not be removed until all extraction on the site has been completed.
  24. In building the bunds as required under conditions 22 and 23, the consent holder shall ensure sufficient care is taken so that there is no unnecessary compaction of the top soil.
  25. All top soil which is not used for bunding purposes shall be stockpiled for use in land rehabilitation on the site. Where topsoil is surplus to the requirements for land rehabilitation of the Ashford Park site, topsoil may be used for rehabilitation works at the existing Otaki site or otherwise reused in the vicinity of the site. Top soil stockpiling shall be located and adequately stabilized to minimise the potential for off-site effects.

### **Construction Noise**

26. All construction work on the site shall be designed and conducted to ensure that construction noise from the site does not exceed the noise limits in the following table. Sound levels shall be measured and assessed in accordance with the provisions of NZS 6803: 1999 *Acoustics- Construction noise*. If the construction programme indicates that construction works for the stage will occur for longer than 20 weeks, then the limits for the whole stage shall be those shown alternatively in brackets for the relevant times.
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<b>Limits for construction noise.</b>						
Time period	Weekdays		Saturdays		Sundays and public holidays	
	(dBA)		(dBA)			
	(dBA)		(dBA)			
	Leq	Lmax	Leq	Lmax	Leq	Lmax
0630-0730	60(55)	75	45	75	45	75
0730-1800	75(70)	90(85)	75(70)	90(85)	55	85
1800-2000	70(65)	85(80)	45	75	45	75
2000-0630	45	75	45	75	45	75

27. For the purposes of Condition 26, construction activities shall be defined as being any work required to prepare the site for excavation and rehabilitation works. In particular, activity associated with the removal of trees, construction of bunds, haul road and stopbank crossing and stripping/reinstatement of topsoil shall be considered construction activities.

### Operational Noise

28. Noise associated with the extraction activity on the site shall not exceed the following limits measured at any point within the notional boundary (as defined in NZS6801: 2008) of any dwelling existing at the date of commencement of the consent:
- 7am - 6pm 50 dB ( $L_{Aeq}$ )
  - 6pm - 7am 45 dB ( $L_{Aeq}$ )
  - During all night time hours (10pm - 7am) no noise event shall exceed  $L_{AFMax}$  75 dB.
  - All sound levels shall be measured in accordance with NZS 6801:2008 "*Acoustics – Measurement of environmental sound*" and be assessed in accordance NZS 6802:2008 "*Acoustics - Environmental Noise*".

Note: The identification of hours between 10pm - 6am is purely for when extraordinary works are being undertaken in accordance with Condition 21.

Note: The notional boundary is defined in NZS6801:2008 as a line 20 metres from any side of a dwelling or the legal boundary where this is closer to the dwelling.

Note: The data measures and units used have been updated to reflect the terminology used in NZS 6801:2008 and NZS 6802:2008

29. The consent shall not undertake any construction, excavation, loading or transportation activities on the Ashford Park site at any time that the dragline is operating on the Ōtaki Processing site.

### Traffic Noise

30. Noise associated with traffic shall be managed by maintaining all vehicles to a good standard and applying a speed restriction on all internal roads not exceeding 30km/hr at all times.

### Contaminated land

31. Prior to the commencement of any gravel extraction works at locations identified on Figure 2 of the Tonkin & Taylor Ground Contamination Report dated July

2014as contaminated land the consent holder shall prepare a Ground Contamination and Remediation Management Plan (GCMP). The objective of the GCMP is to prevent discharges of contaminants during the works and ensure appropriate disposal of contaminated soil. The GCMP shall include the following:

- Methods of excavation of contaminated material;
- Methods of removal and transport of contaminated material to an authorised contaminated material disposal site or landfill;
- Testing of surrounding soils and stockpiles
- Stockpiling containment methods
- Disposal locations.
- Remediation of contaminated sites.

32. The GCMP shall be provided to the council for certification a minimum of 10 working days prior to works proposed in any stage containing a contaminated site.
33. All contaminated sites shall be remediated in accordance with the certified GCMP prior to works commencing in each stage where a contaminated site is contained within that stage.

### **Dust**

34. The consent holder shall employ appropriate measures to ensure that any discharge of dust is not noxious, dangerous, offensive or objectionable beyond the site boundary. This shall include, but not be limited to, the measures in Condition 35 which are to be implemented through the SMP.
35. The consent holder shall take all practicable measures to minimise the discharge of dust from the site. These measures shall include, but not be limited to:
  - a. Training staff and contractors on practices relating to minimising dust emissions, dust control and procedures for reporting and dealing with dust emissions if they arise;
  - b. Minimising the areas of exposed ground;
  - c. Mulching, re-grassing and/or planting of bare areas such as bunds, topsoil piles and rehabilitated areas as soon as reasonably practicable;
  - d. Using water and/or dust suppressants on all disturbed surfaces including roads when required;
  - e. Applying a speed restriction on all internal roads and not exceeding 30km/hr at all times and erecting a sign at the entrance to the site advising of this;
  - f. When loading materials onto trucks, drop heights from excavators shall be minimised as much as is practicable to limit dust emissions.
  - g. A water tanker will be available on site during dry periods.
36. No crushing or processing of materials shall be undertaken on the site.

### **Hazardous Substances**

37. No hazardous substances shall be stored on the site and all refueling of vehicles shall be completed using mobile re-fueling vehicles.
38. All practicable measures shall be undertaken to prevent oil and fuel leaks from vehicles and machinery, including:
  - a. There shall be no storage of fuel or lubricants within the site;
  - b. A spill kit, that is capable of absorbing oil and petroleum products that may leak or be spilt shall be kept in each vehicle working on site at all times; and

- c. A spill kit, that is capable of absorbing and containing oil and petroleum products that spill into water shall be kept in a central, accessible location at all times.
39. Outside of working hours, the gates to the area being quarried site shall be securely locked. Signage shall be erected stating that unauthorised access is prohibited.

### Accidental Discovery

40. In the event of any discovery of archaeological material:
- a) All works in the immediate vicinity of the site will cease immediately;
  - b) Immediate steps will be taken to secure the site to ensure the archaeological material is not further disturbed;
  - c) The consent holder or the consent holder's representative shall contact Ngā Hapū o Ōtaki and the Area Archaeologist of the Heritage New Zealand (Heritage NZ). In the case of koiwi (human remains) the New Zealand Police must be notified;  
**Note:** Ngā Hapū o Ōtaki and Heritage eNZ may choose to jointly appoint/advise a qualified archaeologist who will confirm the nature of the accidental discovery material. Where they choose to do so, they should provide this advice to the consent holder;
  - d) The consent holder shall consider any advice setting out the nature of the accidental discovery material provided by a qualified archaeologist appointed by Ngā Hapū o Ōtaki and Heritage NZ;
  - e) If the material is confirmed as being archaeological, the consent holder will ensure an archaeological assessment is carried out by a qualified archaeologist, and if appropriate, an archaeological authority shall be obtained from Heritage NZ before work resumes (as per the Heritage New Zealand Pouhere Taonga Act 2014);
  - f) The consent holder shall also consult with Ngā Hapū o Ōtaki on any matters of tikanga (protocol) that are required in relation to the discovery and prior to commencement of any investigation;
  - g) If koiwi (human remains) are uncovered, in addition to the steps above, the area must be treated with utmost discretion and respect, and the koiwi dealt with according to both law and tikanga, as guided by Ngā Hapū o Ōtaki;
  - h) Works in the area shall not recommence in the immediate area until authorised by Ngā Hapū o Ōtaki, Heritage New Zealand (and the NZ Police in the case of koiwi) and any other authority with statutory responsibility, to ensure all statutory and cultural requirements are met;
  - i) All consent holder shall work with all parties towards work recommencing in the shortest possible timeframe while ensuring that any archaeological sites discovered are protected until as much information as practicable is gained and a decision regarding their appropriate management is made, including obtaining an archaeological authority under the Heritage New Zealand Pouhere Taonga Act 2014 if necessary. Appropriate management may include recording or removal of archaeological material.

### Cultural

41. The consent holder shall inform Ngā Hapū o Ōtaki when works commence at the start of each stage and offer Ngā Hapū o Ōtaki the opportunity to monitor the works associated with the removal of topsoil during the construction of the acoustic bunds and at the start of each new stage. A copy of correspondence

outlining the opportunity to Ngā Hapū o Ōtaki shall be submitted to the Team Leader Development Control, KCDC.

42. The consent holder shall offer all native vegetation and other vegetation (to be removed) to Ngā Hapū o Ōtaki for cultural purposes prior to being its felling and removal.

### **Rehabilitation Strategy**

43. Within six months of the commencement of this consent, the consent holder shall prepare, in consultation with Ngā Hapū o Ōtaki, and submit for certification by the Resource Consent Compliance Manager, KCDC a Rehabilitation Strategy for the site. A copy of the Draft Strategy shall be provided to the CLG prior to the time it is submitted to the Resource Consent Compliance Manager, KCDC for certification. The CLG shall be given a period of two weeks in which to forward any comments it may have on the draft strategy to the Resource Consent Compliance Manager, KCDC prior to any certification being given. Evidence of consultation, or attempts to consult, shall be provided to the Council with the Strategy provided for certification.
44. The Rehabilitation Strategy shall be prepared in consultation with a suitably qualified ecologist and in accordance with the principles contained in the Landscape Strategy and shall include the process and principles for preparing the following plans:
  - a) Stage Plans 1-4;
  - b) Pest Plant and Animal Control Plan;
  - c) Planting Plan;
  - d) Protection and enhancement of significant vegetation to be retained via an Ecological Island Plan.
45. Any changes to the Rehabilitation Strategy and associated plans shall be submitted for certification to the satisfaction of the Resource Consents Compliance Manager, KCDC. Implementation of any amendment shall only occur once the amendment has been certified in writing by the Team Leader Development Control, KCDC.
46. The consent holder shall prepare a restoration monitoring report on an annual basis which shall be submitted to the Resource Consents Compliance Manager (KCDC) annually within ten working days of its completion, as part of the SMP monitoring in condition 10. The monitoring shall include the following;
  - success rates;
  - recommendations for replacement of dead plants and implementation of these recommendations;
  - remedial action to be implemented where monitoring indicates the specified standards are not being met.

### **Stage Rehabilitation Plans 1-4**

47. Before excavation within each stage is completed and before commencing of each subsequent stage of extraction activity (where applicable), a detailed Staged Rehabilitation Plan shall be prepared and submitted for the certification of the Resource Consents and Compliance Manager, KCDC, for the stage that has been extracted in accordance with the overall Rehabilitation Strategy to ensure the operation facilitates a progressive staged rehabilitation process. A copy of the

Draft Plan shall be provided to the CLG prior to the time it is submitted to the Team Leader Development Control, KCDC for certification. The CLG shall be given a period of two weeks in which to forward any comments it may have on the draft plan to the Team Leader Development Control, KCDC prior to any certification being given. All works shall be undertaken in accordance with the certified Staged Rehabilitation Plan.

**Note:** The Council should respond within 10 working days of receiving the Stage Plan with certification or any requested amendments.

The detailed Stage Rehabilitation Plan shall identify the following:

- a. The final form of permanent lake margins to accommodate re-vegetation for that Stage including areas adjacent to the 14.7 metre minimum set back from the toe of the stop bank (as at January 2016) as indicated in the blue line on the plan titled "Crystals Bend Ōtaki River Ōtaki – Limit of Excavation along site boundaries" drawing no. W15015-001 dated 20 January 2016, along the southern boundary;
  - b. Timing of the proposed rehabilitation works taking into account operational constraints/requirements (for example, continued use of the haul roads and bunds) and how this will be achieved;
  - c. The volume of overburden and topsoil necessary to create permanent lake margins;
  - d. Species, plant numbers and timing of planting to occur;
  - e. On-going maintenance of planted areas to ensure establishment; and
  - f. Any work necessary to facilitate future recreation access through the Site.
48. The consent holder shall establish native riparian vegetation in accordance with the landscape strategy and certified rehabilitation strategy to achieve a minimum of 80% canopy cover after five years following completion of extraction activity of the Site. Planting shall not unduly restrict structures and activities associated with the lake's future end use (e.g. jetties, boat ramps etc.)

### Planting Plan

49. Prior to any construction activities commencing, the consent holder shall prepare and submit for the certification of the Resource Consents and Compliance Manager, KCDC, a Planting Plan prepared in accordance with the landscape strategy; the plan titled "Ashford Park Planting Plan RG4" prepared by Boffa Miskell and dated 10 February 2016 and the Rehabilitation Strategy submitted with the application. A copy of the Draft Plan shall be provided to the CLG prior to the time it is submitted to the Resource Consents and Compliance Manager, KCDC for certification. The CLG shall be given a period of two weeks in which to forward any comments it may have on the draft plan to the Resource Consents and Compliance Manager, KCDC prior to any certification being given. The Planting Plan shall identify the following:
- a. Existing boundary vegetation on-site to be retained to ensure effective screening is maintained along the boundaries of the Site;
  - b. Additional areas of planting necessary to:
    - provide an effective visual screen of quarry activities at the quarry boundary of the Ōtaki Māori Racing Club, 197 Rahui Road and 72 Te Roto Road;
    - reinforce stands of deciduous species; and
    - address any gaps between existing tree belts where there are views from adjoining properties;

**Note:** The detailed design of the planting (in the vicinity of the Project stages

that are relevant to these landowners) in accordance with the plan titled "Ashford Park Planting Plan RG4" prepared by Boffa Miskell and dated 10 February 2016 shall be finalised in consultation with the owners and occupiers of the following properties:

- the Ōtaki Māori Racing Club
- 197 Rahui Rd
- 72 Te Roto Rd

The results of this consultation shall be submitted to KCDC when the Planting Plan is submitted for certification.

- c. Species, plant numbers and timing of any additional screen planting together with planting notes to ensure such planting will become successfully established and achieve its desired effect;
  - d. Measures to ensure that all identified screen vegetation will be protected and maintained throughout the operation period; and
  - e. Species to be used for the Stage Plans for the lake margins in the Riparian Dry Zone, Emergent Zone, Submerged Zone along with planting notes to ensure such planting will become successfully implemented to achieve its desired effect.
50. All native plants shall be eco-sourced, indigenous species from the Wellington Ecological District.

#### **Ecological Island Plan**

51. Prior to the commencement of excavation in Stage 2 the consent holder shall prepare and submit an Ecological Island Plan in accordance with the Landscape Strategy and Rehabilitation Strategy submitted with the application to the Resource Consents Manager Compliance, KCDC for certification. A copy of the Draft Plan shall be provided to the CLG prior to the time it is submitted to the Resource Consents and Compliance Manager, KCDC for certification. The CLG shall be given a period of two weeks in which to forward any comments it may have on the draft plan to the Resource Consents and Compliance Manager, KCDC prior to any certification being given. The Ecological Island Plan shall identify the following:
- a. Fencing and other methods to protect significant vegetation areas (which will form the Ecological Islands) that are to be retained from site works/excavation including, but not limited to the planting of 4m buffer strip;
  - b. Formation and timing of creation of the Ecological Islands (to be progressively implemented as a result of excavation and rehabilitation of Stages 2-4);
  - c. Species, plant numbers and timing of the Mitigation Planting, (including restorative planting, riparian dry zone, emergent and submerged planting) on the Ecological Islands;
  - d. Provision for planting notes and infill planting at years 1, 2 and 3 to ensure Mitigation Planting on the Ecological Islands will become successfully established;
  - e. Initial and ongoing provision for weed and pest control for the Ecological Islands; and
  - f. Provision for future ongoing management of the Ecological Islands once fully established via a QEII Management Plan or similar mechanism.
52. All Mitigation Planting shall be undertaken in accordance with the Rehabilitation Strategy certified under condition 51 at all times.

## Legal protection of the Ecological Islands

53. The consent holder shall ensure that the two Ecological Islands to be created as part of the project are legally protected in perpetuity, through a QEII covenant (or similar legal mechanism).
54. Within 12 months of notification of completion of the Mitigation planting, the consent holder shall have the QEII covenant (or similar legal mechanism) in place.
55. The consent holder shall submit plans of all areas legally protected in accordance with Condition 53 of this consent, which include NZTM map references, to the Resource Consents Compliance Manager, KCDC when the covenant is registered.
56. The consent holder shall, exclusively, meet all legal expenses associated with preparing and registering the covenant (or similar legal mechanism).

## Flood Protection

57. Excavation must not encroach closer than 14.7m to the toe of the existing Stopbank (as at January 2016) as indicated in the blue line on the plan titled "Crystals Bend Ōtaki River Ōtaki – Limit of Excavation along site boundaries" drawing no. W15015-001 dated 20 January 2016. The maximum slope angle of any excavation adjacent to the Chrystalls Bend Stopbank shall not exceed 45 degrees.
58. The following shall apply in respect to excavation in proximity to the Stopbank referenced in condition 57:
  - a) Remediation of the slope angle of any cut adjacent to the stopbank of the Ōtaki River must occur within eight months of completion of the excavation, except with the approval of the Resource Consents Compliance Manager, KCDC.
  - b) During the cutting of the 'face' of the excavation adjacent to the stopbank, an inspection shall be undertaken by a suitably qualified geotechnical engineer. A report shall be submitted to the Resource Consents Compliance Manager, KCDC confirming that the stratigraphy and material properties are consistent with those used in the modelling, or any change to the excavation methodology to mitigate potentially adverse local conditions.
  - c) Two vibrating wire piezometers shall be installed at each of two locations evenly spaced between the edge of the proposed excavation and the toe of the stopbank in the zone closest to the Ōtaki River as shown on the plan titled "Crystals Bend Ōtaki River Ōtaki – Limit of Excavation along site boundaries" drawing no. W15015-001 dated 20 January 2016. One piezometer shall be located in the shallower medium dense gravels, and one in the deeper dense gravels. These piezometers shall be monitored at not more than 30-minute intervals during a range of flood events with magnitudes up to at least the mean annual flood as recorded at the Pukehinou gauging station. The data shall be reviewed by an appropriately qualified person to confirm that the groundwater conditions and hydraulic properties monitored are consistent with those used in the various seepage and stability models, and that the behaviour of the groundwater during floods is as modelled.
  - d) Should conditions be found which are different to those assumed in the modelling, and have the potential to affect stability adversely, additional piezometers shall be installed at approximately 200m intervals along the

boundary with the Ōtaki River and remedial measures shall be proposed for approval by the Resource Consents Compliance Manager, KCDC.

- e) A report shall be submitted to the Resource Consents Compliance Manager, KCDC within two years of the excavation being completed within the zone closest to the Otaki River, as shown on the plan titled "Crystals Bend Ōtaki River Ōtaki – Limit of Excavation along site boundaries" drawing no. W15015-001 dated 20 January 2016, confirming that these groundwater conditions and hydraulic properties are consistent with those used in the modelling, or any change to the excavation methodology to mitigate potentially adverse local conditions.

### **Lighting**

59. The consent holder shall ensure that security and other lighting to be located so that light does not spill onto adjacent properties.

### **Eels**

60. The consent holder shall engage a freshwater ecologist to set baited fyke nets in the water storage pond immediately prior to the commencement of the excavation works in the vicinity. Any eels caught shall be translocated to the wetland at Chrystalls Bend.

### **Water Quality**

61. The consent holder shall ensure that a suitably trained person collects representative water samples in accordance with the latest edition of "*The standard Methods for the Examination of Water and Wastewater*". Samples shall be taken on the boundary of the Ashford Park site with 72 Te Roto Road with the exact sampling site to be agreed with KCDC. This monitoring requirement shall commence within six months of the opening up of surface water at Ashford Park and shall continue at intervals not greater than 6 months.

The consent holder shall provide the contact details of the person or company who will be undertaking the sampling to KCDC, and advise within seven days of any change.

The samples shall be analysed for:

- (a) Faecal Coliforms (cfu/100ml); and
- (b) Total Petroleum Hydrocarbons (g/m<sup>3</sup>).

These parameters may be amended as agreed with the Resource Consents Compliance Manager, KCDC.

All samples shall be analysed within two days of collection, and in accordance with the latest edition of "*The standard Methods for the Examination of Water and Wastewater*" APHA, AWWA, WPCE, or such other standards as may be approved by KCDC.

The results of sample analyses shall be forwarded to Greater Wellington Regional Council, the Community Liaison Group and KCDC within a week of the samples results being received by the consent holder.

### **Community Liaison Group (CLG)**

62. The consent holder shall facilitate the creation of a community liaison group (CLG) at its own cost and to the satisfaction of the Resource Consents Compliance Manager, KCDC. The consent holder shall invite the following organisations or interested parties to nominate a representative:
- a) Submitters and residents of Te Roto Road (at least two representatives)
  - b) Kapiti Coast District Council (one representative)
  - c) Greater Wellington Regional Council (one representative)
  - d) Ngā Hapū o Ōtaki (one representative)
  - e) The Ōtaki Māori Racing Club (one representative)
  - f) Friends of the Ōtaki River (one representative)

One representative nominated by the consent holder shall also be a member of the CLG. The consent holder shall, in consultation and in agreement with KCDC, appoint an independent facilitator who will act as convenor of the CLG.

The CLG shall meet at least twice annually. The function of the group shall be to provide input into all management plans and strategies for the site and provide a forum to for the consent holder to present and disseminate monitoring results and updates on project progress.

The first meeting shall occur at least 15 working days prior to the submission of the Site Management Plan to Council for certification. The consent holder shall provide copies of the plans, strategies and reports required by these conditions of consent at its next meeting after the reports are produced and at least three working days prior to the meeting.

The specific roles of the CLG must be determined by the CLG and must be to the satisfaction of the Resource Consents Compliance Manager, KCDC. A document stating the CLG's terms of reference must be produced within six weeks after the first meeting. This terms of reference shall, amongst other matters, address requirements for the facilitator to provide agendas and minutes and to provide a record of the input provided when plans, reports or strategies are presented for certification.

#### **Provision of information**

63. Prior to the commencement of construction, the consent holder shall establish a webpage on their own website or a separate website, the function of which will be to be a portal for all reports, plans and strategies to be available to the CLG and all other interested parties. As a report, plan or strategy is certified, the consent holder shall ensure that it is loaded onto the website/page within the next two working days. The website/page shall be maintained throughout the construction, excavation and rehabilitation stages.

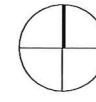
#### **NOTES TO THE CONSENT HOLDER**

*The following information is included as information to the applicant and is not a condition of this approval.*

- a) *Attention is drawn to any consent obligations separately imposed by the Regional Council in respect to this activity.*
- b) *Pursuant to section 125 of the Resource Management Act 1991, if not given effect to, this resource consent shall lapse five years after the date of approval.*

- c) *No excavation shall occur in the area of land which forms the unformed paper road prior to the re-alignment of this route being confirmed under the Public Works Act 1981.*
- d) *The consent holder must obtain any additional approvals or consents required from Greater Wellington Regional Council prior to commencing works.*
- e) *This consent does not waive the consent holders' duty to avoid unreasonable noise pursuant to section 16 of the Resource Management Act 1991.*
- f) *It is the consent holders' responsibility to seek and obtain the relevant authorisation from Greater Wellington Regional Council as requiring authority pursuant to section 176(1)(b) of the Resource Management Act 1991.*

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**NOTES**

CONTRACTORS TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCING WORK;

CONTRACTORS ARE RESPONSIBLE FOR CONFIRMING THE LOCATION OF ALL UNDERGROUND SERVICES ON SITE PRIOR TO COMMENCING WORK;

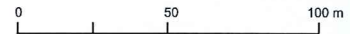
FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS.

PROJECTION:  
WANGANUI CIRCUIT 2000

**KEY**

	STOPBANK
	EXTRACTION LIMIT
	PROPERTY BOUNDARY
	FENCE

RM 150184  
FINAL APPROVED PLANS  
24 / 3 / 16



REV DATE DESCRIPTION

Design	Scale	Date
Drawn DIR	1:1250 @ A1	20.01.16
Check PMO	1:2500 @ A3	
App'vd RGI		

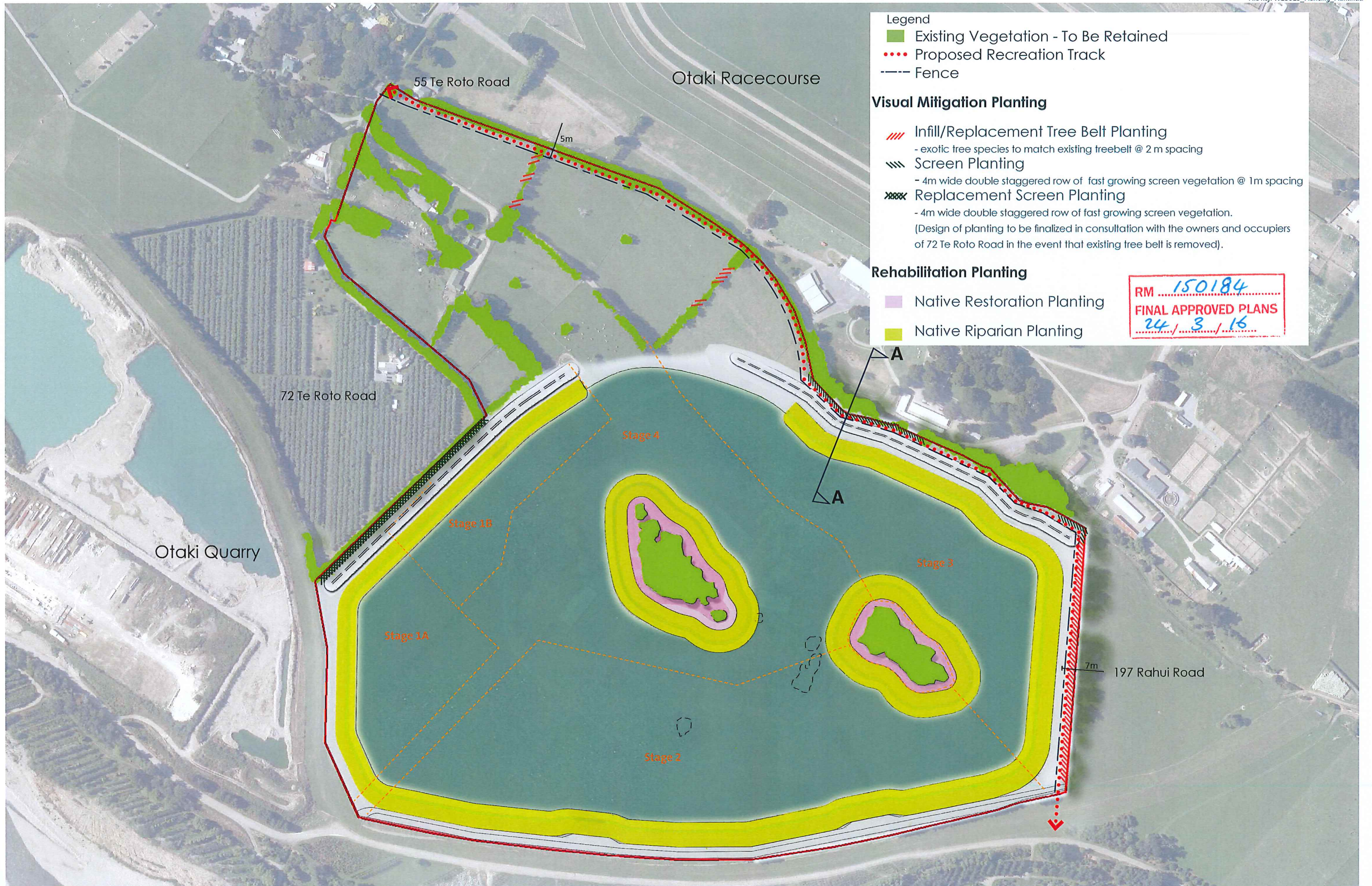
**WINSTONES  
AGGREGATES**

**Crystals Bend  
Otaki River  
Otaki**

LIMIT OF EXCAVATION ALONG  
SITE BOUNDARIES

DRAWING NO.	REVISION
W15015-001	0





**Legend**

- Existing Vegetation - To Be Retained
- Proposed Recreation Track
- Fence

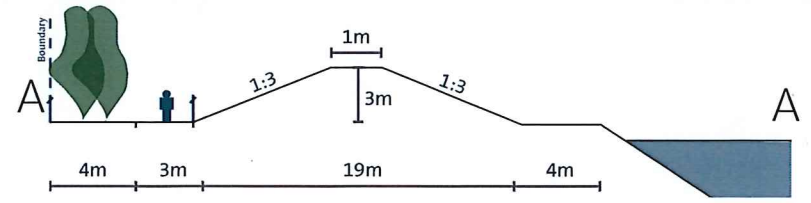
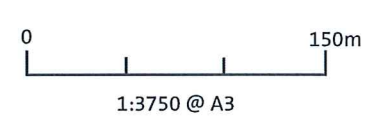
**Visual Mitigation Planting**

- Infill/Replacement Tree Belt Planting  
- exotic tree species to match existing treebelt @ 2 m spacing
- Screen Planting  
- 4m wide double staggered row of fast growing screen vegetation @ 1m spacing
- Replacement Screen Planting  
- 4m wide double staggered row of fast growing screen vegetation.  
(Design of planting to be finalized in consultation with the owners and occupiers of 72 Te Roto Road in the event that existing tree belt is removed).

**Rehabilitation Planting**

- Native Restoration Planting
- Native Riparian Planting

RM 150184  
**FINAL APPROVED PLANS**  
24 / 3 / 16





Legend

- Site Boundary
- - - Staging Extent

RM 150184  
 FINAL APPROVED PLANS  
 24 / 3 / 16



STAGE 1



STAGE 2



STAGE 3



STAGE 4





SITE LOCATION PLAN  
SCALE - 1:5000 @ A1



INSET  
SCALE - 1:500 @ A1

RM 150184  
FINAL APPROVED PLANS  
24 / 3 / 15



**NOT FOR CONSTRUCTION**

FOR CONSENTING DISCUSSIONS

Revision	Amendment	Approved	Revision Date



Project  
GREATER WELLINGTON REGIONAL COUNCIL  
TRUCK ACCESS ROAD OVER STOPBANK - OTAKI RIVER  
CONCEPT DESIGN

Disigned	Approved	Approved Date
N.MALKOTI	J. McConchie	21/07/2015
Drawn	Scales	Project No.
N.MALKOTI	1:500 (A1), 1:1000 (A3)	3-53220.00

PLAN LAYOUT TRUCK ACCESS		Sheet No.	Revision
		1	A