



# TOWNPLANNING GROUP

22 November 2023

Our Ref: 2753-22

Olivia Stirling  
Planning Consultant  
Central Otago District Council

VIA EMAIL: OliviaS@barker.co.nz

Dear Olivia,

## **RESPONSE TO FURTHER INFORMATION REQUEST – RC 230325: TEVIOT ROAD ALLUVIAL GOLD MINING OPERATION**

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This letter is in response to your email dated 16<sup>th</sup> November 2023 in which further information was requested (RFI) in relation to RC230325. We respond to the various points raised in turn and have repeated each information request below for clarity.

### **Noise**

- 1. The updated excavation area is considerably larger and will result in the noise sources being much closer to some of the neighbouring notional boundaries. The noise level predictions will be higher at 1334 and 1403 Teviot Road, and 5280 and 5330 Ettrick-Raes Junction when compared with the previous assessment. Could the applicant please provide the following so the potential noise effects of the updates can be understood:*
  - Please provide updated noise level contours and noise level predictions at the notional boundaries of at 1334 and 1403 Teviot Road, and 5280 and 5330 Ettrick-Raes Junction based on the plant working in the nearest part of the extraction area to each receiver. Please state the distance assumed from the plant to the notional boundary and any adjustments applied to the noise levels predictions or reductions for mitigation.*

Please see enclosed a letter from Hegley Acoustics in response (**Attachment [A]**).

## Landscape

### Proposal

2. *Provide more information about how the site layout works with regard to staging. Once one stage is complete can that ground be reinstated and rehabilitated? Is the workshop etc going to move around?*

As described in section 3.2 of the AEE, each subsequent stage will progress while the previous is under rehabilitation due to the moving mine cell methodology. Staging is included to indicate the progression of mining, not to identify isolated work areas. For example, while mining is underway in the Stage 1 area, earthworks for topsoil and overburden removal will begin in the Stage 2 area. Overburden from the Stage 2 area will be used as part of the rehabilitation of the Stage 1 area. The workshop office area will stay positioned where it is in the Stage 4 area until such time as mining underneath it is required, and it will then be moved to the rehabilitated Stage 1 area until the project is complete when it will be removed during the final rehabilitation work.

3. *How many containers will be located on site in total? Where will the proposed containers be located? Will they be stacked/visible from surrounding landscape?*

Section 3.7 of the AEE identifies that six 40-foot containers will be located on site and painted Resene Iron Sand. These containers will not be stacked. The containers will be located in the workshop area, with bunds located as identified on the site plan. Section 4.1.1 of the AEE confirms that all containers meet the relevant permitted activity standards 4.7.6A and 4.7.6D in respect of colour, reflectivity, finish, location and height.

4. *Are machinery maintenance and dust control activities able to be undertaken on Saturday afternoons, Sundays and public holidays?*

Yes, as described in Section 3.1 of the AEE, maintenance and dust control activities may be undertaken on Saturday afternoons, Sundays and public holidays.

5. *Provide details of the depth of excavation. Will excavation stop at the base of the gold bearing wash layer or continue excavating? If so, how much deeper?*

Yes, as described in Section 3.1 of the AEE, the depth of excavation will be to the base of the gold bearing wash on the site, which varies between 13m and 18m below ground level.

6. *Provide details of the Gold Recovery Plant (GRP), size, colour etc? How is this moved around?*

The GRP is 35m in length, 15m wide and 9m tall. It is supported within the mine pit on a pontoon and moved by pulling by 4 hydraulic winches. The upper section is mist green in colour and the pontoons which are mostly below water line are blue / grey, see **Figure 1** below. The GRP always operates within the pit. We confirm that the GRP meets the relevant permitted activity standards 4.7.6A and 4.7.6D in respect of colour, finish, location and height. We cannot confirm whether the reflectivity values in Standard 4.7.6D(ii) are met, as these have not been



measured, however we consider it likely that compliance is achieved on the basis of the colour of the GRP.



**Figure 1** Photograph of Gold Recovery Plant (GRP) proposed to be used.

7. Clearly identify on a plan all areas where stock piling will occur.

See **Attachment [B]** for a map.

8. Are any setbacks proposed for stockpiles?

Stockpiles will be within the site boundary bunding, which is approximately an average of 7m setback from boundaries (refer to answer to 25 below). No additional setbacks are proposed.

9. Does the Council Gravel Pit form part of the application site?

Yes. The Council Gravel Pit is located on land legally described as Section 92 Block VIII Bengier Survey District on Record of Title OT230/94. This land parcel is included within the site extent depicted in the AEE Figure 2 and in Table 1 which provides the site legal descriptions.

10. Confirm if the stockyard area is excluded from mining operations.

The old stock yard is included within the project area. Page 12 of the AEE provides a description of the location and Section 4.2.1 identifies that resource consent is required for work in this location under the National Environmental Standard for Assessing and Managing



Contaminants in Soil to Protect Human Health. For clarity, there are no stockyards present currently. The stockyards were identified in aerial photography from the 1970s and have since been disestablished.

*11. Will the temporary cycle trail be formed to the same standard as the existing cycle trial?*

Yes, this is a requirement of the Applicant's agreement with the cycle trail trust. The trail will be constructed to New Zealand Cycle Trail Standard.

*12. Provide details of the pontoon, colours, height etc.*

The GRP will have roughly 400mm of freeboard. The pontoons are 1800mm in height and blue grey in colour. The water pump pontoons for mine pit dewatering are blue in colour are 1200mm high and have 200mm of freeboard. Pontoons are only located within the mine pit.

*13. Provide details of vehicles on site, storage locations etc.*

Indicatively, on site the Applicant plans to have:

- 5 785 Komatsu dump trucks
- 3 465 Komatsu dump trucks
- 2 bulk stripping excavators
- 1 excavator for plant loading
- 3 smaller excavators (20 to 50 tonne)
- 2 bulldozers
- 1 grader
- 1 telehandler
- 1 loader
- 2 water carts

Dump trucks, water carts, grader, loader, and some excavators will be stored in the workshop go-row area adjacent to the workshop (see map in **Attachment [B]**). All other pieces of plant will be parked in their operating areas, for example, the bulldozers will be in the stripping, rehabilitation and tip head areas. The GRP excavator will be left in the mine pit with the GRP. The bulk stripping excavator will be parked in the bulk stripping area.

*14. Provide further details of the staging. Is each area just the active work area or will stockpiling and ancillary activities be located within the staged area? I note that the stage one area is only 5.9ha 'Up to 7ha has been allowed for temporary stockpiling, though this may overlap with the active work area. A maximum of 8ha of the project area will be occupied by ancillary activities where the surface will effectively be stabilised for the project duration, including the workshop, site office, settling ponds, bunding, and vehicle access'*

Stockpiling will be located as indicated in response to question 7 above. Ancillary activities will be located as described below under question 15. Overburden from subsequent stages will be used for rehabilitation of the previous stage, and so there is no need for moving stockpiles.

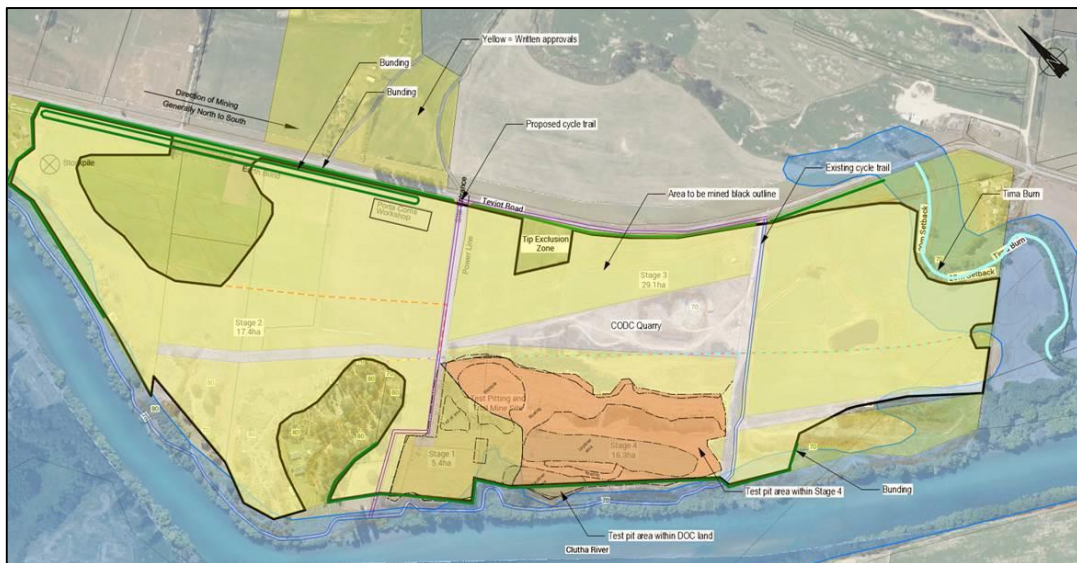


15. Will ancillary activities be located outside of the staged areas?

Yes, ancillary activities will remain in the Stage 4 area until that part is to be mined, when they will be moved to the Stage 1 area.

Site layout plan

16. There appears to be several plans showing various aspects of the proposal. In order to understand the proposal, I have overlayed the application plans. Can you confirm that the below plan accurately represents what is applied for in the application and the retrospective consent?



The plan above has several inaccuracies. We attach a marked-up version showing the corrections (**Attachment [C]**).

17. Is there a plan showing location of the designation, and scheduled activity and their relationship to the site?

These features are located on the CODC land legally described as Section 92 Block VIII Bengier Survey District on Record of Title OT230/94, within the project area as described in response to question 9 above. A excerpt from the CODC district plan maps is shown in **Figure 2** below.





**Figure 2** Excerpt from CODC District Plan Maps. Designation indicated by green hatched area. Scheduled activity shown by blue circle.

Test pit and trial mining

*18. How is the test pitting/trial mining site to be managed in terms of staging?*

The test pitting area is located in Stage 1, although there are some stockpiles in Stage 4. The trial mining area forms part of Stage 1. When mining commences this area will be the starting point. Once Stage 1 is complete the test pitting area will be rehabilitated. The stockpiling area will remain and be completely rehabilitated on completion of the project.

*19. Provide the timeframe of mining and remediation of the test pit/trial mining area. Approximately 7ha of Stage 4 appears to have been mined already, is this to remain open for the next 10 years?*

The Applicant advises that none of Stage 4 has been mined by them, though the area has been historically mined in the early 20<sup>th</sup> century. Stage 1, which includes the trial mining area, will take around 4 months to complete. Rehabilitation back to pasture will be undertaken progressively during this period.

*20. The 'test pit area' / mining operation that has already been carried out appears to extend into DOC Public Conservation Land: Marginal Strip - Clutha River/Mata-Au. Is this correct? Presumably Department of Conservation (DOC) have not given approval for this? Is there any proposed mitigation for these works?*

The Applicant advises that no work has occurred within the marginal strip. Prior to undertaking any work, the Applicant engaged a surveyor to identify the property boundaries and peg these out on the ground. The Applicant has undertaken all work within the property boundary as identified by on the ground survey. The Applicant considers that the likely issue is that aerial photographs are incorrectly aligned with property boundaries in this area.

### Mitigation

*21. Confirm the location of bunds and timeframes for establishment? i.e. are all bunds going to be created straight away or is this to be a staged approach?*

Bunds will be staged where appropriate. Some bunds are already constructed at the northern end of Stage 4 and these will remain for the project duration. We consider that a condition could be developed to provide appropriate parameters for the degree of bunding required for each stage.

*22. Is there a going to be a double bund along Teviot Road as shown on plan above?*

There will be no double bund. The symbology is intended to represent a bund footprint.

*23. Bunding appears to go through an orchard adjacent to Teviot Road. Is this correct?*

The Applicant will construct the bund around the orchard to leave it intact.

*24. Provide details of the rehabilitation? i.e. maximum size of areas exposed at any given time, timeframes, any environmental factors that will contribute to rehabilitation (weather etc.) and how this will be managed.*

There will be approximately 4 ha of rehabilitation underway and 4 ha of stripped land in advance of mining. The weather will affect stripping of topsoil and rehabilitation, for example if conditions are too wet then topsoil may be damaged by handling. If conditions are dry and windy then dust becomes a risk. These conditions may mean that rehabilitation or topsoil stripping may be temporarily paused until the wind speed decreases or the soil dries out. The Applicant considers that any stand downs will be temporary, and work will resume in short order.

*25. Confirm setbacks from public land, road, the cycle trail etc.?*

The bunding will be put in place 1m from the boundary fences and will extend 5m into the mining area at the base. Mining will be no closer than 1m from the base of the bund. There is effectively a 7m setback from public spaces created by bunding.

*26. Is any mitigation proposed for the cycle trail i.e. bunding, or setbacks?*

The cycle trail will have banded edges where necessary (as indicated on the site plan to prevent any visual nuisance. A lot of the trail already has vegetation alongside which creates a visual barrier to the mine area see q. 25 above.



## Assessment of effects

*27. Provide the relevant matters of discretion for the Restricted Discretionary activities applicable to this proposal.*

The activity status for this proposal is fully a Discretionary Activity, hence the AEE takes the approach of not limiting assessment to matters of discretion for discrete components of the activity. The matters of discretion are addressed in the environmental effects assessment in section 5 of the AEE.

The relevant matters of discretion for components of the activity which are restricted discretionary are set out below. The restricted discretionary rule breach is copied from Section 4.1.2 of the AEE, with the matters of discretion set out below each rule.

- Restricted Discretionary Activity under Rule 4.7.3(iii) – the workshop will not comply with the finish requirements of Standard 4.7.6D, as the container shelter is made of PVC, which is not on the list of compliant materials in 4.7.6D(a)(i). Other temporary buildings formed of containers are coloured steel and do comply with this part of the standard.

The matters of discretion set out in Rule 4.7.3(iii) are:

1. Whether or not the building or structure can be appropriately screened from public view by topographical features, appropriate planting or other screening having regard to the open space, landscape, natural character and amenity values of the rural environment.
  2. Whether the building or structure will breach the form of or be visually prominent in public view on any skyline or terrace edge.
  3. The colour scheme for the building or structure which should in general be darker than the background in which it is set.
- Restricted Discretionary Activity under Rule 4.7.3(vi) - the proposed tracks (also referred to as haul roads) may not comply with Rule 4.7.6J as the tracks are intended to be only temporary and for limited vehicle access. As such, cut or fill batters on ramps within the mine pit may exceed 2m in height.

The matters of discretion set out in Rule 4.7.3(vi) are:

1. The effect on water quality and quantity.
2. The intrinsic values of riparian and aquatic ecosystems.
3. The habitat of native fish species, trout and salmon.
4. Indigenous vegetation and habitats of indigenous wildlife and statutorily managed sports fish and game.
5. The effects on bank and slope stability.





6. The location and timing of construction, design and density of earthworks.
  7. The re-establishment of an appropriate vegetation cover.
  8. The disposal and stabilisation of waste material and fill.
  9. The impact on landscape values.
  10. The effect on heritage sites, including archaeological sites.
  11. The effect on sites of cultural value to Kai Tahu ki Otago.
- Restricted Discretionary Activity under Rule 12.7.1 (iii) – the existing accesses to Teviot Road are not sealed. Discretion is restricted to the matters in 12.7.1(viii).

The matters of discretion set out in Rule 12.7.1 (viii) are:

Council shall restrict the exercise of discretion to the safe and efficient operation of the affected road, having regard to:

- (a) The intensity and duration of the activity.
- (b) The classification and use of the road

*28. In terms of the Regional Policy Statement, provide further assessment of potential effects on the natural character of the river and its margins.*

Please see enclosed a letter from Mike Moore Landscape Architect in response (**Attachment [D]**).

*29. The landscape assessment states:*

*'Given the impact of the exploratory mining already underway, with stripped vegetation and gravel stockpiles etc., the site itself has now taken on a somewhat industrial character in the area where this work is proceeding.'*

*Please confirm that none of this work has been consented and, therefore, does not form part of the receiving environment?*

Correct.

### Cycle trail

*30. The application offers the following condition:*

*'The consent holder shall ensure that mining work does not prevent public access to the Clutha Gold cycle trail. The cycle trail may be temporarily diverted to enable ongoing public use and access.'*

*Confirm if the intention is to realign the cycle trail in the long term?*



That is not correct. The cycle trail realignment is a temporary diversion, and the cycle trail will be restored to its original alignment on completion of mining.

### Other Matter – written approvals

The Applicant continues to consult with neighbours and nearby organisations. To this end, we provide an updated summary of written approvals below. A copy of all written approvals and a map showing these parties is included as **Attachment [E]**.

**Table 1** Summary of written approvals on 22 November 2023

Site Address	Legal Description	Record of Title	Ownership
	Section 3 SO 24438	OT18C/235	Alan Thomas Parker
1426D Teviot Road, Millers Flat	Section 102 Block VIII Bengers SD	OT380/99	Jacks Ridge Limited
1426C Teviot Road, Millers Flat	Section 84 Block VIII Bengers SD	OT360/183	Jacks Ridge Limited
1484 Teviot Road, Millers Flat	Section 110, 118 Block VIII Bengers Survey District	241193	Alan Thomas Parker
	Section 50 Block VIII Bengers Survey District	OT18B/928	Minzion Station Limited
1536 Teviot Road, Millers Flat and 9 Tima Burn Road	Section 49 Block VIII Bengers Survey District	OT18B/927	Minzion Station Limited
1534 Teviot Road, Millers Flat	Part Section 96 Block VIII Bengers Survey District	OT12C/430	Matthew Ross Hunter, Georgia Rose Parker
	Section 90 Block VIII Bengers Survey District	OT374/110	Jacks Ridge Limited
1426A Teviot Road, Millers Flat	Section 91 Block VIII Bengers Survey District	OT360/184	Jacks Ridge Limited
1426C Teviot Road, Millers Flat	Section 84 Block VIII Bengers SD	OT360/183	Jacks Ridge Limited
1426D Teviot Road, Millers Flat	Section 102 Block VIII Bengers SD	OT380/99	Jacks Ridge Limited
1426E Teviot Road, Millers Flat	Section 106 Block VIII Bengers Survey District	OT12C/572	Jacks Ridge Limited
	Lot 2-3 Deposited Plan 375668	304420	Gabrielle Claire Campbell-Lloyd, Gareth David Wilson
1406 Teviot Road, Millers Flat	Lot 4 Deposited Plan 375668	304421	Gabrielle Claire Campbell-Lloyd, Gareth David Wilson
	Section 93 Block VIII Bengers SD	OT374/111	Laurie Allan Crawford, Pamela Fay Crawford
	Section 97 Block VIII Bengers Survey District	OT270/85	Laurie Allan Crawford, Pamela Fay Crawford
	Section 40 Block VIII Bengers Survey District	OT117/72	Laurie Allan Crawford, Pamela Fay Crawford



1346 Teviot Road, Millers Flat	Part Section 89 Block VIII Benger Survey District	OTB1/707	Laurie Allan Crawford, Pamela Fay Crawford
1403 Teviot Road, Millers Flat	Section 34 Block VIII Benger SD	OT82/260	Chika Matsuno Liyanarachchi, Gregory Asoka Liyanarachchi
5386 Ettrick-Raes Junction Road	Part Section 1 Block VI Benger SD	OT106/173	Beryl Tomkin
5434 Ettrick-Raes Junction Road	Lot 52 DP 1871	OT391/88	Wesley Reichel
1333 Teviot Road, Millers Flat	Section 38 Block VIII Benger SD	OT204/227	John Asher
1353 Teviot Road, Millers Flat	Section 37 Block VIII Benger SD	OT394/82	David Kleeber
1535a Teviot Road, Millers Flat	Lot 1 DP 541224	909013	SS Garden Holdings Ltd

We trust this information will afford you further clarity with respect to the proposal. Please contact the undersigned on [anita@townplanning.co.nz](mailto:anita@townplanning.co.nz) or 021 568 335 should you have any queries.

Yours sincerely,  
**Town Planning Group**



Anita Collie  
**Principal Planner**

**Attachments:**

- [A]** Hegley Acoustics letter
- [B]** Stockpile area and ancillary activities map
- [C]** Corrected version of plan provided with RFI
- [D]** Mike Moore Landscape Architect letter
- [E]** Written Approvals and map



17 November 2023

Sam Kealey  
Senior Planner  
Town Planning Group  
PO Box 35  
Christchurch

Dear Sam

#### **MILLERS FLAT NOISE ASSESSMENT**

Thank you for a copy of the request for further information from CODC for Millers Flat gold mine in relation to noise. The additional information requested is:

- 1. The updated excavation area is considerably larger and will result in the noise sources being much closer to some of the neighbouring notional boundaries. The noise level predictions will be higher at 1334 and 1403 Teviot Road, and 5280 and 5330 Ettrick-Raes Junction when compared with the previous assessment. Could the applicant please provide the following so the potential noise effects of the updates can be understood:*
  - Please provide updated noise level contours and noise level predictions at the notional boundaries of at 1334 and 1403 Teviot Road, and 5280 and 5330 Ettrick-Raes Junction based on the plant working in the nearest part of the extraction area to each receiver. Please state the distance assumed from the plant to the notional boundary and any adjustments applied to the noise levels predictions or reductions for mitigation.*

For 5280 and 5330 Ettrick-Raes Junction there is no change to the mine boundary so no change in the distance to the notional boundaries for these two properties. The noise predictions as set out in the original report accurately represent the predicted noise for these two sites.

The mining boundary was originally 340m from 1334 Teviot Road and will reduce to 300m with no change to the location of the proposed bund. Taking the proposed bund into account, the noise level due to distance would increase by 0.5dBA for any plant within the mining area when assuming the plant moves toward the notional boundary of 1334 Teviot Road the same distance as the mine boundary. As shown on Figure 15 of the noise report the modelling has included dump trucks operating outside the mining area and 60m closer to 1334 Teviot Road than the main mining plant. The location of the dump trucks will not noticeably change with any variation to the pit boundary. When taking the cumulative noise effects into account the actual difference in the received noise will be <0.5dBA; it takes change of 3dBA to be just noticeable.

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The mining plant has been modelled as close as 5m from the pit boundary and all but the bulldozers and excavators operating for the full day, which have been assumed to operate for half the day. In practice, it is unrealistic for the plant to operate at 5m from the boundary for any length of time and only the dredge is likely to operate for the full day. Thus, the various items of plant have a 2dBA and up to 5dBA factor of safety due to the duration corrections alone that have not been included at this point. The likelihood of the seven items of plant (plus dump trucks) to all be operating in the immediate area at any one time is unlikely but has been modelled to ensure a further factor of safety with the modelling. Taking the above into account the original modelling is considered to represent the noise for the revised mining boundary with a good factor of safety included in the assessment, so no further modelling is warranted. Any such changes to the modelling when taking the above into account would reduce the current noise predictions, not increase them.

For the dwelling at 1403 Teviot Road the same assessment applies as set out for 1334 Teviot Road, the only difference is this dwelling is further from the mine so the resulting noise will be lower than at 1334 Teviot Road and also well within the expectations of the District Plan.

With respect to the distance assumed from the plant to the notional boundary this varies between sites and the specific item of plant considered. As set out above, the plant has been located close to the mining boundary to reflect the upper level of noise received at the notional boundary of the neighbours. The location of both the plant and receiver positions adopted to reflect the closest notional boundaries to the noise sources are shown on the relevant noise prediction figures.

As set out above, it has been assumed the majority of plant operates all day with only the bulldozers and excavators loading the dump trucks operating for half the day. Both of these are considered to be more than would occur on practice when including lunch breaks etc so providing a good factor of safety with the design.

The only specific noise mitigation is in the form of bunds. As set out in the noise assessment report no screening by the ground contour has been included in the calculations. The location of the proposed bunds is shown on the figures giving the results of the noise modelling with the heights of these bunds are given in the noise assessment report.

Should you have any questions regarding the above please do not hesitate to contact me.

Yours sincerely  
Hegley Acoustic Consultants



Nevil Hegley



Esri Technology, Land Information New Zealand, GEB/CO, Community maps contributors

**LEGEND**

- Site extent
- Indicative stockpiling area
- Go-row (machinery storage)
- Workshop and site office

**MILLERS FLAT MINING | STOCKPILING & ANCILLARY ACTIVITY**

2753-22 | Hawkeswood Mining Ltd

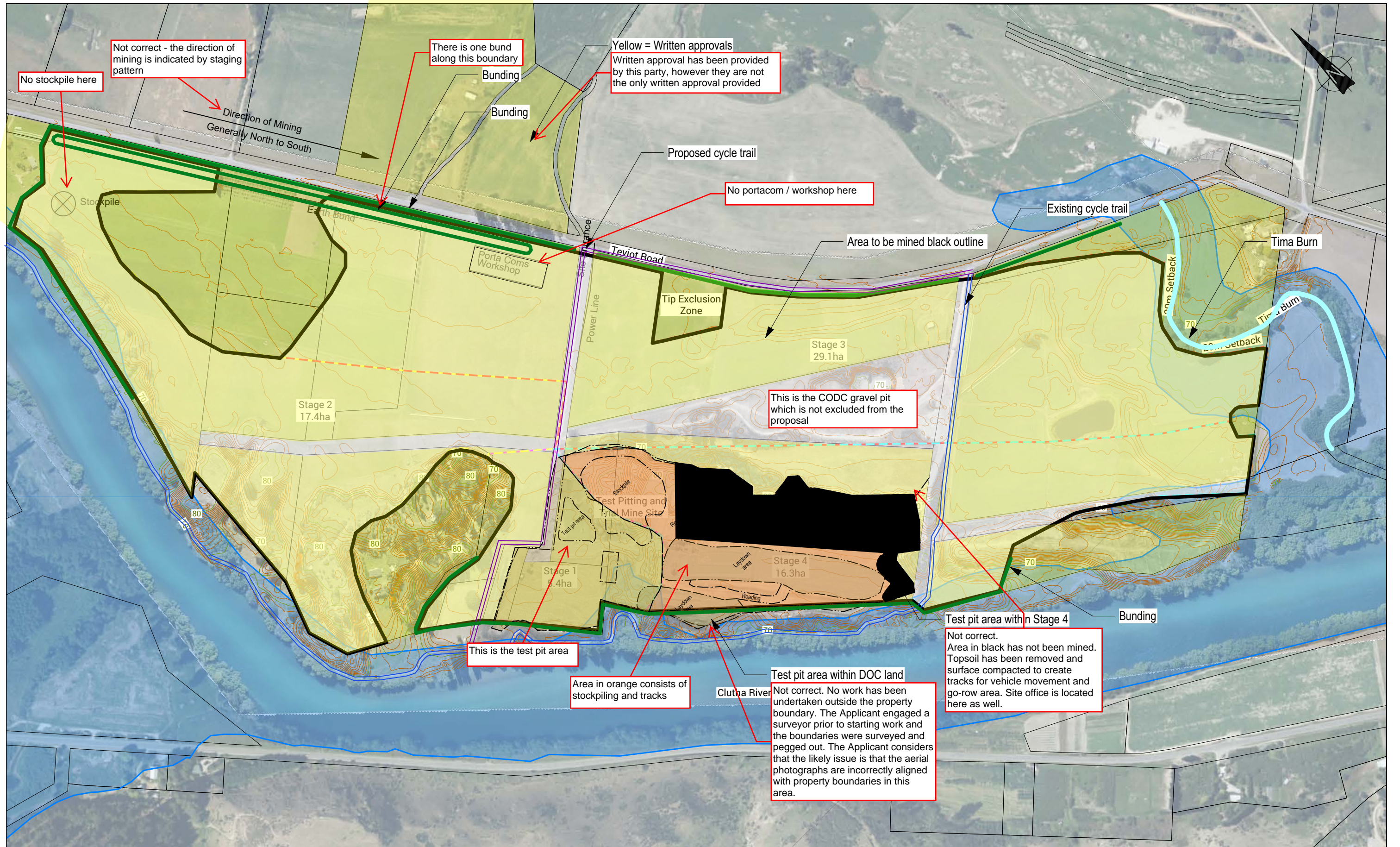
22/11/2023 SCALE: 1:15,000 @A3

SOURCE: LINZ, Grip Maps



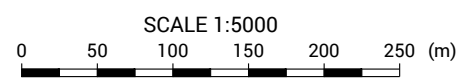
PO Box 2559 QUEENSTOWN 0800 22 44 70 townplanning.co.nz

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Notes:  
 1. These drawings have been prepared for the benefit of Hawkeswood Mining Limited with respect to the particular brief given to us and it may not be relied upon in other contexts or for any other purpose without our prior review and agreement.

- Legend:
- ORC Mapped Flood Hazard
  - Visual Bunding
  - Stage 1
  - Stage 2
  - Stage 3
  - Stage 4
  - Site contours, 10 m Major interval, 1 m Minor interval



Level 1, 70 MacAndrew Road, South Dunedin  
 www.geosolve.co.nz

DRAWN	WCG	Sep.23
DRAFTING CHECKED	JAS	Aug.23
APPROVED	NW	Aug.23
CADFILE: 230526.dwg		
SCALES (AT A3 SIZE): 1:5000		
PROJECT No:	230526	

**Hawkeswood Mining Limited**  
 1346-1536 Teviot Road, Millers Flat  
 Flood Hazard Assessment  
 Site Plan

FIG No: **Figure 2**  
 REV. **0**

# MIKE MOORE

*BSc, Dip LA, MRRP, ANZILA*

LANDSCAPE ARCHITECT

## Memorandum

To Anita Collie  
Town Planning Group

From Mike Moore

Date 20 November 2023

**Subject Proposed Alluvial Gold Mine, Teviot Road, Roxburgh,  
Consent No: RC230325, Central Otago District Council  
further information request**

This memorandum is in response to the following request for further information by Central Otago District Council, dated 16 November 2023.

*28. In terms of the Regional Policy Statement, provide further assessment of potential effects on the natural character of the river and its margins.*

### **The relevant RPS provisions**

There do not appear to be any provisions relevant to the natural character effects of this project in the Partially Operative Otago Regional Policy Statement 2019 (POORPS), however, the Proposed Otago Regional Policy Statement 2021 (PORPS) includes the following:

#### ***LF-FW-O10 – Natural character***

*The natural character of wetlands, lakes and rivers and their margins is preserved and protected from inappropriate subdivision, use and development.*



## **Does the proposed quarry impact the river margin?**

The Otago Regional Council Natural Character, Riverscape and Visual Amenity Assessments report (ORC report)<sup>1</sup> helpfully conceives of rivers as comprising (for the purpose of assessment) three components – active bed, margin, and context. The report includes diagrammatic cross sections to illustrate how these areas might be defined in various situations / river profiles. The margin is discussed as follows:

*'Refers to the strip of land between the active bed and the wider landscape context, including the banks. River processes, patterns and influences will be evident in the margin, such as occasional flooding, historic banks, and channel patterns. From locations within the river/lake margin, the active bed is the visually dominant feature. The margin is typically narrow and may incorporate terraces, banks, stopbanks, abandoned riverbed, floodplains, river and tributary confluences and built infrastructure. Generally topographic features define the extent of the margin as they extend between the top and base of banks or terraces. Vegetation type boundaries can also define the margin extent, such as where riparian scrub or planting meets grazed pasture in the landscape context'.*

Adopting this understanding it is my assessment that the river margin in this case, extends to the top of the riverbank and includes the Clutha Gold Trail and the riverside area of willow dominated vegetation. The proposed mining site is beyond this, within the river context.

## **Effects on the natural character of the river and its margins**

The ORC report provides assessments of the natural character of various stretches of the Clutha River / Mata-au and rates this stretch (Roxburgh Dam – Rongahere) as moderate for both the active bed and margin. Factors influencing these ratings listed include (my summary) the controlled flow (by the Roxburgh Dam) with reduced natural sediment transportation, excellent water quality with a significant range of indigenous fish and waterfowl species, and the dominance of exotic vegetation.

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<sup>1</sup> Boffa Miskell, 2018, Natural Character, Riverscape & Visual Amenity Assessments, Clutha / Mata-Au Water Quantity Plan Change – Stage 1. Prepared for Otago Regional Council.

The proposed mining will have no physical effects within the river margin except peripherally in places, where mitigation bunding will temporarily increase the bank height. This bunding will be grass covered and will be removed when the site is rehabilitated.

As regards effects on the river itself associated with abstraction of groundwater, physical flow and water quality effects are described in the Environmental Associates Ltd report<sup>2</sup> as being 'so small as to be not measurable'. This report also confirms that the proposed mining will not affect any existing aquatic ecology and biodiversity values.

In terms of experiential natural character effects, these have been addressed in my report dated 24 October 2023 in relation to effects from the Clutha Gold Trail as follows:

*The mining will be at least partially screened from view from the trail by the combination of the low terrace face and the existing or proposed bunding. It is likely that there will some visibility of gravel stockpiles and machinery as there is currently (of the exploratory works) and that trail users will be aware of the mining activity to an extent due to noise effects...*

*The mining will adversely affect the rural character values from the track whilst operational.... The degree of adverse effect is likely to vary over the life of the project depending on the proximity of the working area to the trail at the time. Overall however, I rate the effects as adverse / moderate. Following rehabilitation, rural character will be reinstated, and the legacy effects will be neutral....*

## **Conclusion**

In relation to PORPS Policy LF-FW-010, it is my assessment that the proposed mining will have:

- no direct physical effects of any significance on natural character, within the riverbed or margin.
- some adverse experiential effects associated with noise and visibility whilst operational that will vary with the proximity of the works over the life of the project, will be temporary, and up to moderate in degree.
- no long-term adverse effects following rehabilitation.

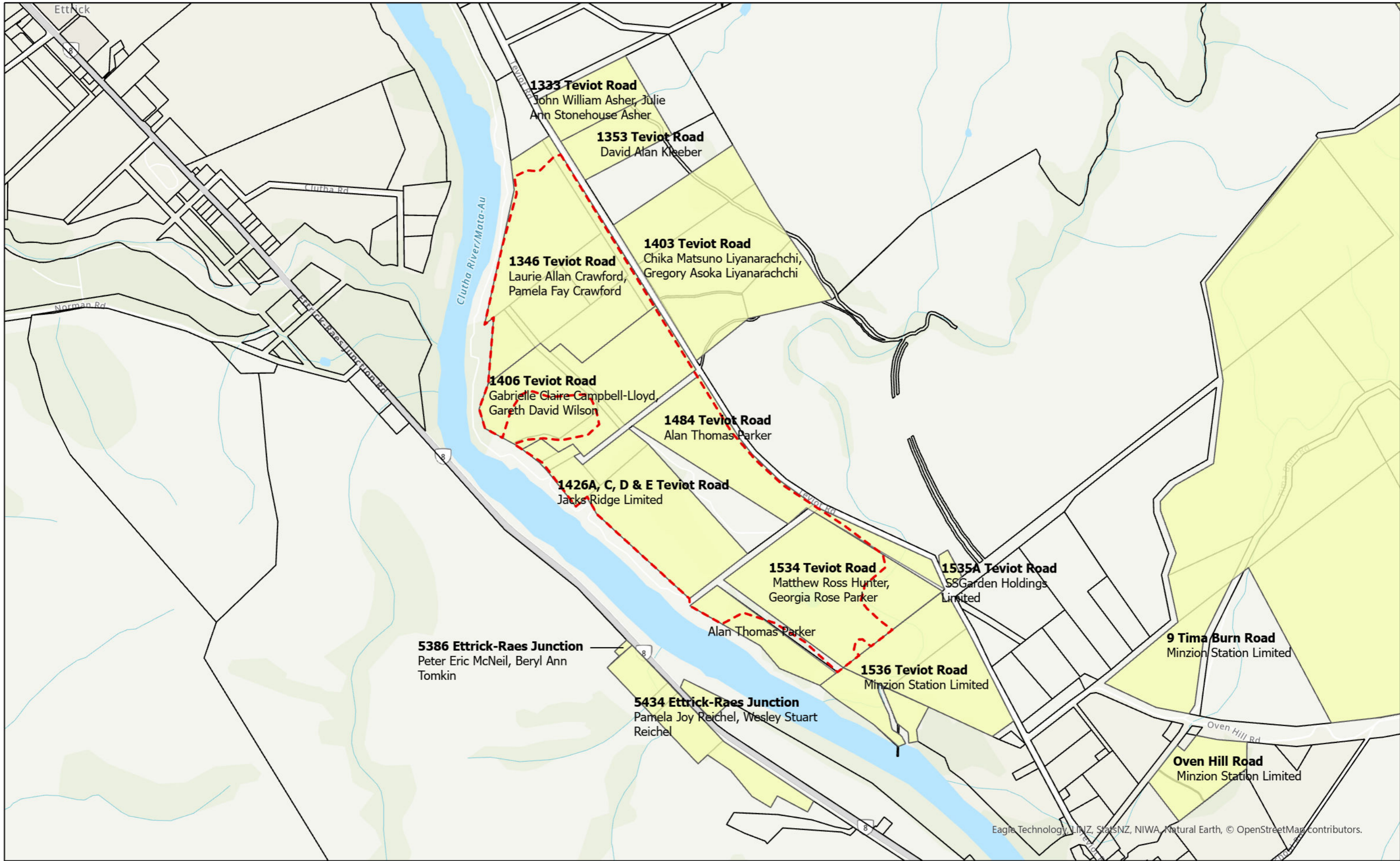
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<sup>2</sup> Environmental Associates Ltd, 2023, Hawkeswood Mining Ltd – Technical assessment of proposed groundwater take and discharge,

A handwritten signature in blue ink, appearing to read 'Mike Moore', with a long horizontal flourish extending to the right.

Mike Moore

Registered NZILA Landscape Architect



**LEGEND**

- Written Approvals
- Site extent

**MILLERS FLAT MINING**

2753-22 | Hawkeswood Mining Ltd

21/11/2023 SCALE: 1:15,000 @A3

SOURCE: LINZ, Grip Maps



PO Box 2559  
QUEENSTOWN 0800 22 44 70  
townplanning.co.nz

Disclaimer: This plan has been prepared on behalf and for the client. Town Planning Group NZ Ltd accepts no liability or responsibility in respect upon this plan by a third party. The concepts and information contained on this plan is the copyright of the Town Planning Group NZ Ltd. Use or copying of the information on this plan without written permission of Town Planning Group NZ Ltd constitutes an infringement of copyright.

# Affected Persons Approval



To: The Manager, Planning and Environment  
Central Otago District Council  
PO Box 122  
Alexandra 9340

## TO BE COMPLETED BY THE PERSON(S) REQUESTING APPROVAL

Applicant(s): Hawkeswood Civil Limited

Type of resource consent: Land use consent

Proposed activity: Establish and operate a gold mining activity for the duration of 10 years

Location of site: 1346-1536 Teviot Road, Millers Flat (inclusive of road reserve within the area indicated on the attached plan)

I have sighted all the attached plans and supporting information for the above activity.

I hereby give unconditional approval for the application to be processed without public notification.

I understand that, by giving approval, the Council will not take into account any effects that the proposed activity may have on me, when considering whether this application should be notified (Section 95E of the Resource Management Act 1991) and whether the application should be granted (Section 104(3) of the Resource Management Act 1991).

## TO BE COMPLETED BY THE PERSON(S) GIVING THEIR APPROVAL

Name: ANDREW HAWKESWOOD

Organisation: JACKS RIDGE LTD

Address: 1426A 1426B 1426C 1426D 1426E TEVIOT RD MILLERS FLAT. (SECTION 1346 VILL BANNER SD)

Signature [Handwritten Signature]

Date 30/9/2023.

Name: \_\_\_\_\_

Organisation: \_\_\_\_\_

Address: \_\_\_\_\_

Signature \_\_\_\_\_

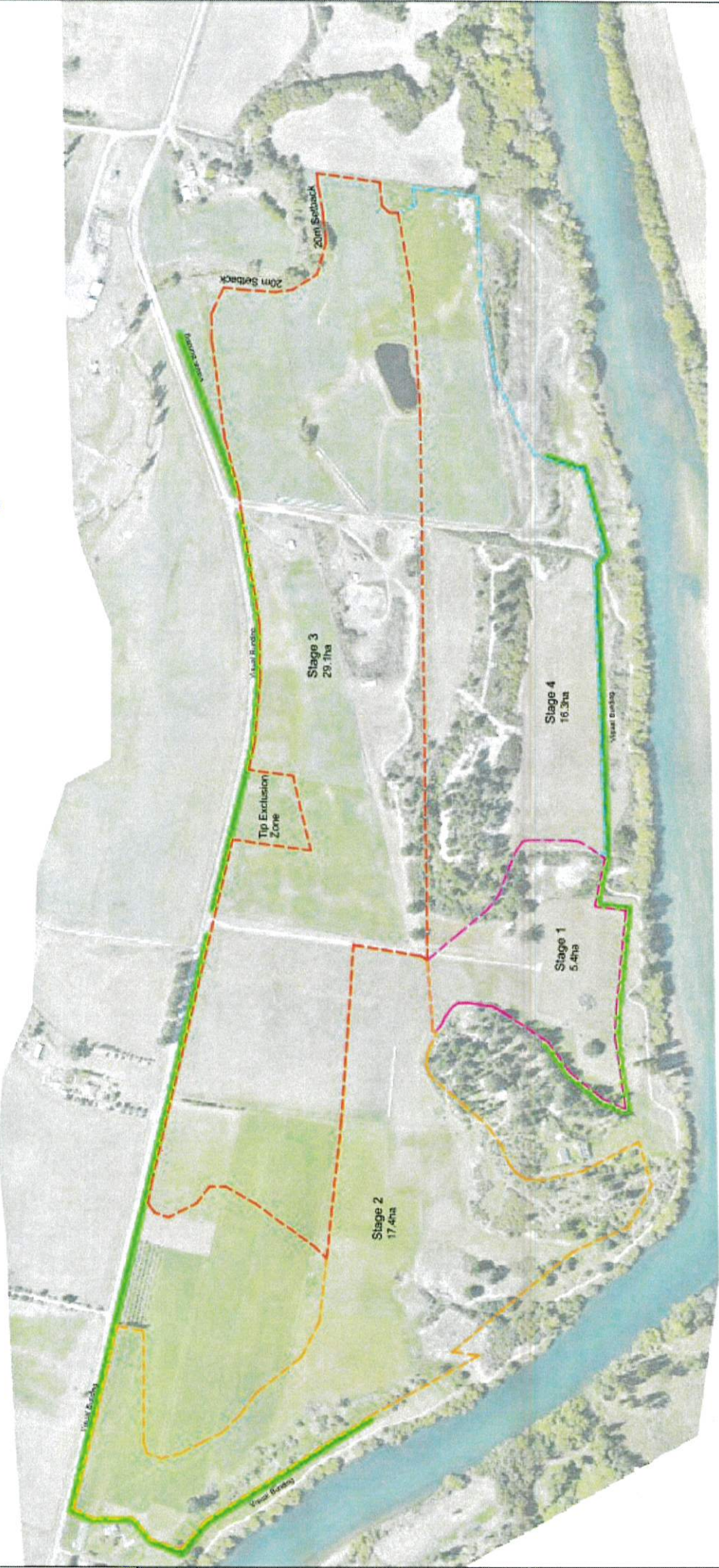
Date \_\_\_\_\_

Checklist:		
<input checked="" type="checkbox"/> Signature of all legal owners	<input checked="" type="checkbox"/> Site and/or subdivision plan with all required signatures	<input type="checkbox"/> Elevations with all required signatures (if applicable)

[Handwritten Signature]

Please sign and date plan in conjunction to the Approval form.

*JLh* 30/9/2023.



Visual Bunding  
 Stage Boundaries (various colours)

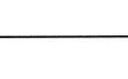
Scale: 1:5000  
 Date: 06/09/23  
 Sheet: 1

Project No.	Surveyor
Scale	Designed
Date	Drawn
Sheet	Checked

Stage Plan	
Millers Flat	

No.	Amendments	Change	Date

Prepared For  
**Hawkeswood Mining**



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## TO BE COMPLETED BY THE PERSON(S) GIVING THEIR APPROVAL

Name: GREGORY LIYANARACHCHI

Organisation: \_\_\_\_\_

Address: 1403 TEVIOT ROAD, RD 2 ROXBURGH

Signature

25/09/2023  
Date

Name: CHIKA LIYANARACHCHI

Organisation: \_\_\_\_\_

Address: 1403 TEVIOT ROAD, RD 2, ROXBURGH

Signature

25/09/2023  
Date

### Checklist:

Signature of all legal owners

Site and/or subdivision plan with all required signatures

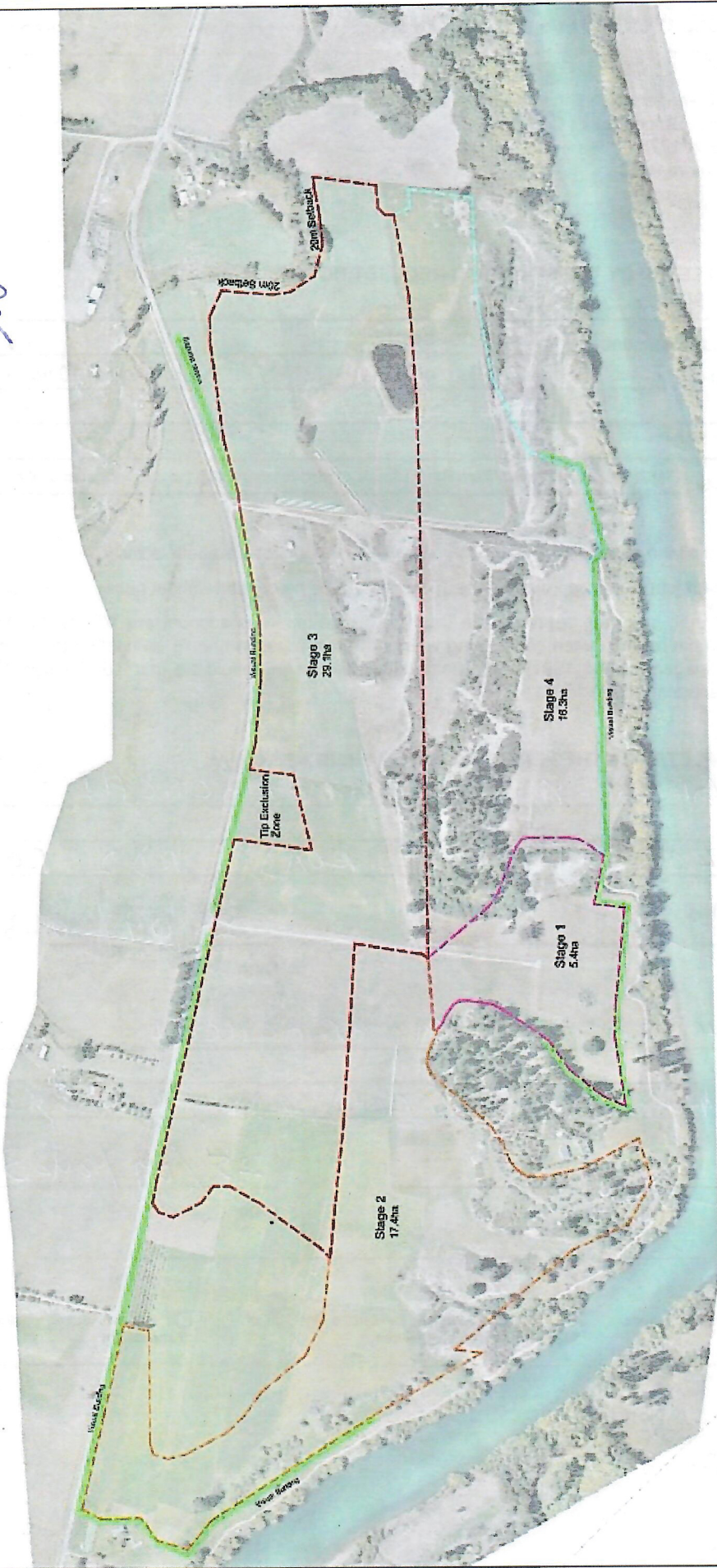
Elevations with all required signatures (if applicable)

Please sign and date plan in conjunction to the Approval form.

*[Signature]*

25/09/23

25/09/23



ORIGINAL SIZE A3  
0 10 20 30 40 50 60 70 80 90 100

PREPARED FOR:  
Hawkeswood Mining

No.	APPROVALS	Drawn	Date

**Stage Plan**  
Millers Flat

Project No.	15000	Surveyed By	JR
Date	06/05/23	Designed By	JR
Sheet	1	Drawn By	JR
		Checked By	JR





# Affected Persons Approval



To: The Manager, Planning and Environment  
Central Otago District Council  
PO Box 122  
Alexandra 9340

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## TO BE COMPLETED BY THE PERSON(S) GIVING THEIR APPROVAL

Name: Alan Thomas Parker

Organisation: \_\_\_\_\_

Address: 1534 Teviot Rd Millers Flat

Alan Thomas Parker  
Signature

23/sep/23  
Date

Name: \_\_\_\_\_

Organisation: \_\_\_\_\_

Address: \_\_\_\_\_

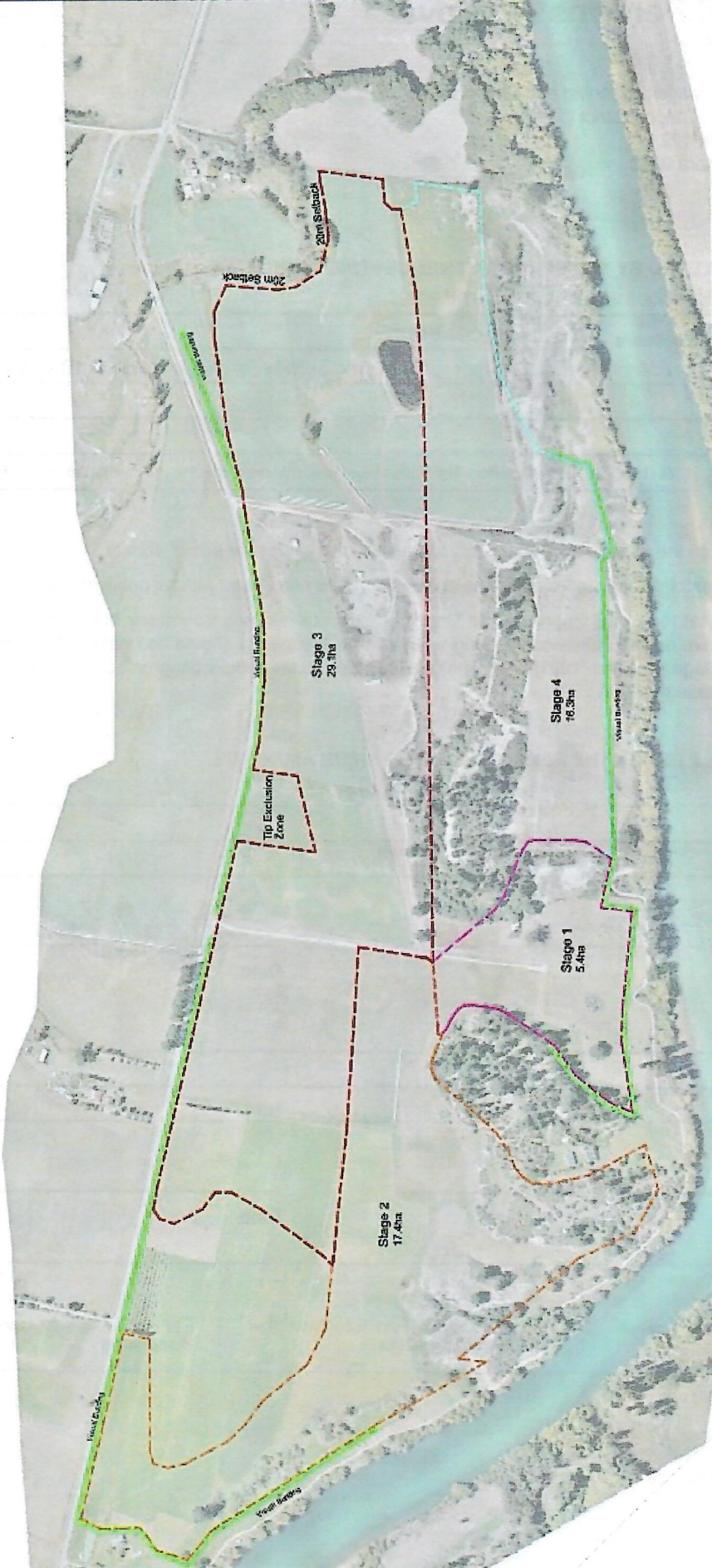
\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

Checklist:		
<input type="checkbox"/> Signature of all legal owners	<input type="checkbox"/> Site and/or subdivision plan with all required signatures	<input type="checkbox"/> Elevations with all required signatures (if applicable)

Please sign and date plan in conjunction to the Approval form.

*Alan Spinks*



Visual Bunding  
Stage Boundaries (various colours)

Page Ref:  
Approval Form

No.	Amendments	Drawn	Date

**Stage Plan**  
**Millers Flat**

Project No.:	Drawn by:
Scale:	Checked:
Date:	Drawn:
Sheet:	Checked:



# Affected Persons Approval



To: The Manager, Planning and Environment  
Central Otago District Council  
PO Box 122  
Alexandra 9340

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## TO BE COMPLETED BY THE PERSON(S) GIVING THEIR APPROVAL

Name: Matt Hunter

Organisation: \_\_\_\_\_

Address: 1534 Teviot rd Millers Flat

Matt Hunter

Signature

25.9.23

Date

Name: Georgia Parker

Organisation: \_\_\_\_\_

Address: 1534 Teviot Road Millers Flat

Georgia Parker

Signature

25.9.23

Date

### Checklist:

Signature of all legal owners

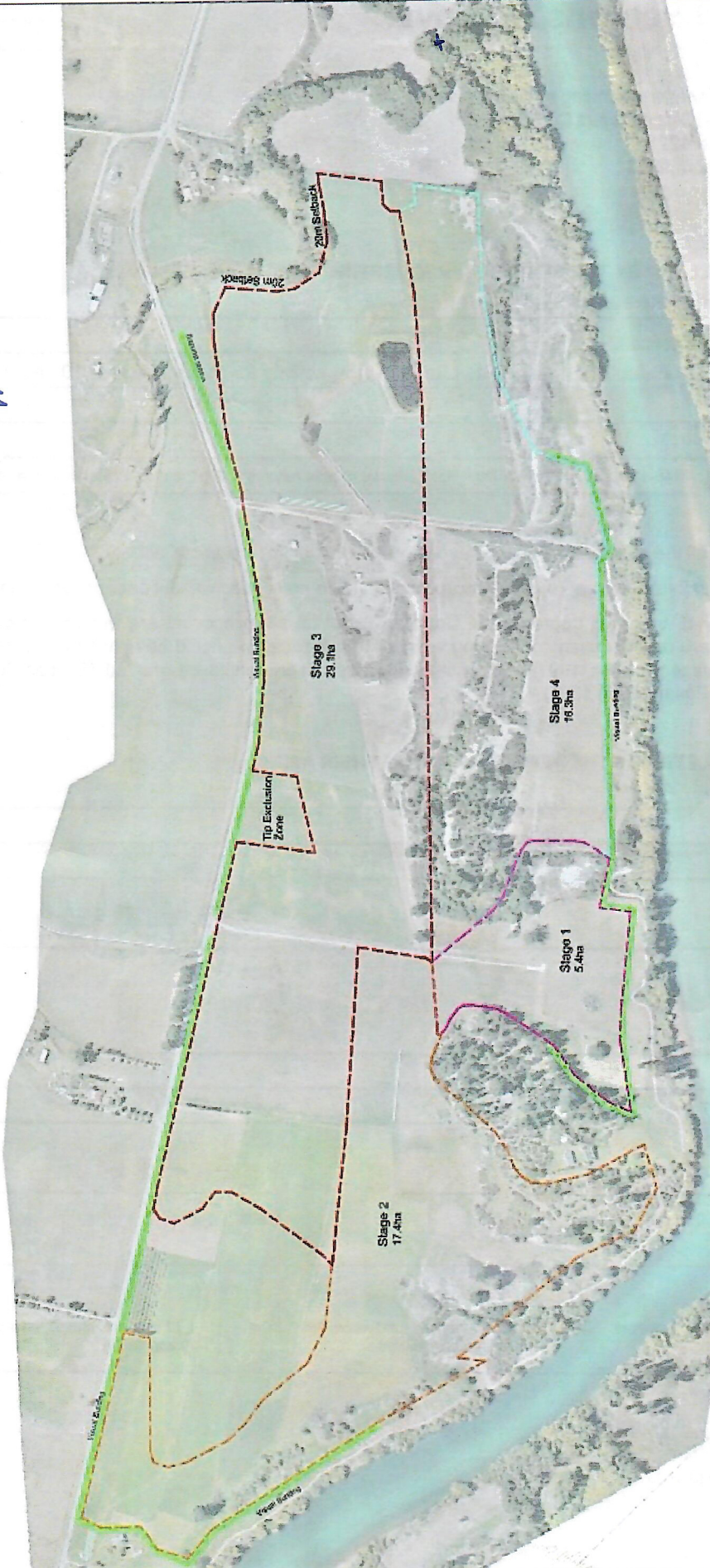
Site and/or subdivision plan with all required signatures

Elevations with all required signatures (if applicable)

Please sign and date plan in conjunction to the Approval form.

*M. M. M. 25.9.23*

*C. Chapman 25.9.23*



Visual Bunding  
 Stage Boundaries (various colours)

Fig. P01.  
 Proposed Plan

**Hawkeswood Mining**

**Stage Plan**

Millers Flat

Project No.	Surveyed
Scale 1:5000	JR
Date 06/09/23	Designed
Sheet 1	Drawn
	JR
	Checked
	JR

No.	Amendments	Drawn	Date



# Affected Persons Approval



To: The Manager, Planning and Environment  
Central Otago District Council  
PO Box 122  
Alexandra 9340

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## TO BE COMPLETED BY THE PERSON(S) GIVING THEIR APPROVAL

Name: Laure Allan Crawford

Organisation: \_\_\_\_\_

Address: 1346 Teviot Road

RD 2 Roxburgh 9572 22/9/23.

Signature

Date

Name: \_\_\_\_\_

Organisation: \_\_\_\_\_

Address: \_\_\_\_\_

Signature

Date

### Checklist:

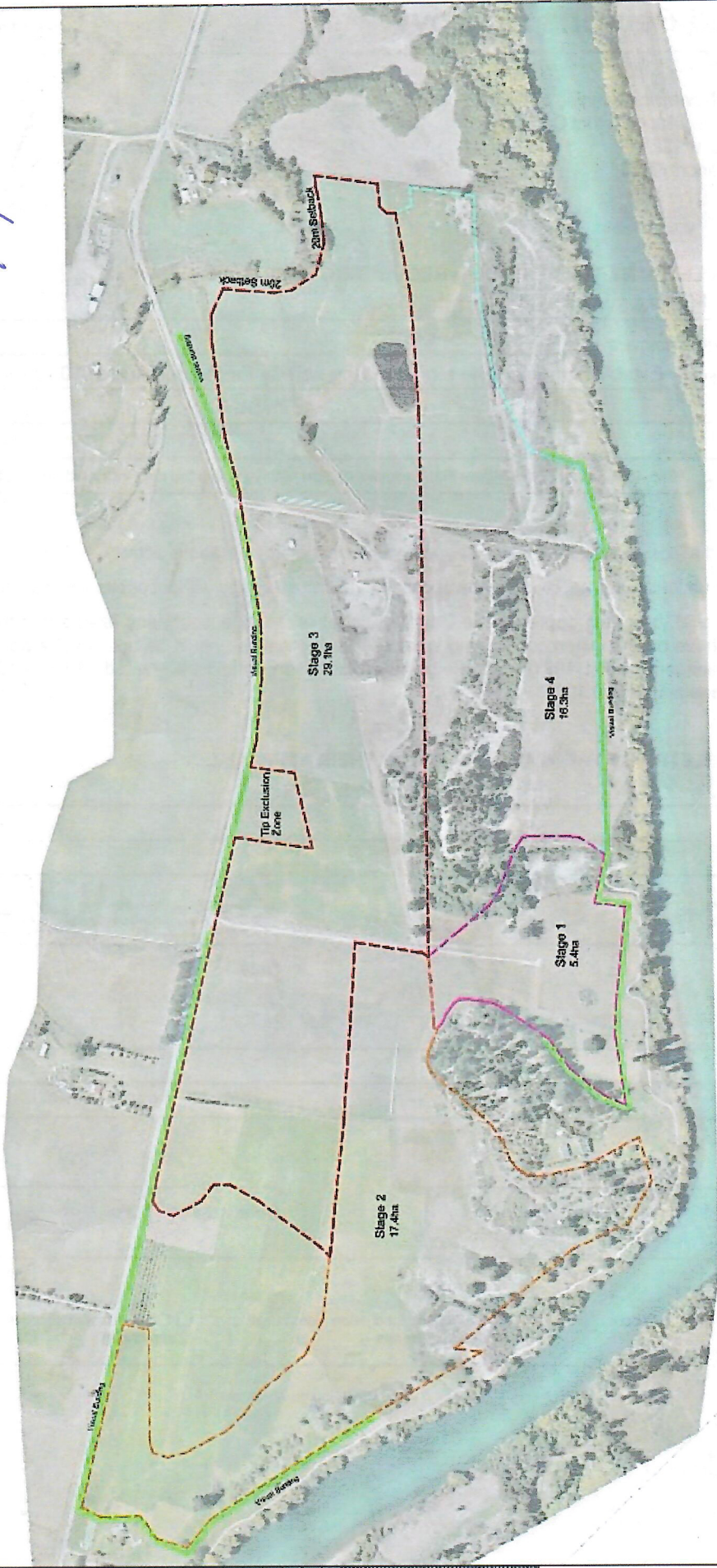
Signature of all legal owners

Site and/or subdivision plan with all required signatures

Elevations with all required signatures (if applicable)

Please sign and date plan in conjunction to the Approval form.

*L. d. Crawford*  
22/9/23.



0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 600 610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790 800 810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990 1000

Visual Bunding  
Stage Boundaries (various colours)  
Tip Excavation Zone  
20m Setback

Prep. For: [Blank]

Hawkeswood Mining

No.	Amendment	Drawn	Date

Stage Plan  
Millers Flat

Project No.	Scale	Drawn	Checked
15000	1:5000	JR	JR
Date	Sheet	Drawn	Checked
06/09/23	1	JR	JR



# Affected Persons Approval



To: The Manager, Planning and Environment  
Central Otago District Council  
PO Box 122  
Alexandra 9340

## TO BE COMPLETED BY THE PERSON(S) REQUESTING APPROVAL

Applicant(s): \_\_\_\_\_

Type of resource consent: \_\_\_\_\_

Proposed activity: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Location of site: \_\_\_\_\_

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## TO BE COMPLETED BY THE PERSON(S) GIVING THEIR APPROVAL

Name: \_\_\_\_\_

Organisation: \_\_\_\_\_

Address: \_\_\_\_\_

A handwritten signature in black ink, appearing to be "G. Wilson".

Signature

Date

Name: \_\_\_\_\_

Organisation: \_\_\_\_\_

Address: \_\_\_\_\_

A handwritten signature in black ink, appearing to be "G. Campbell".

Signature

Date

### Checklist:

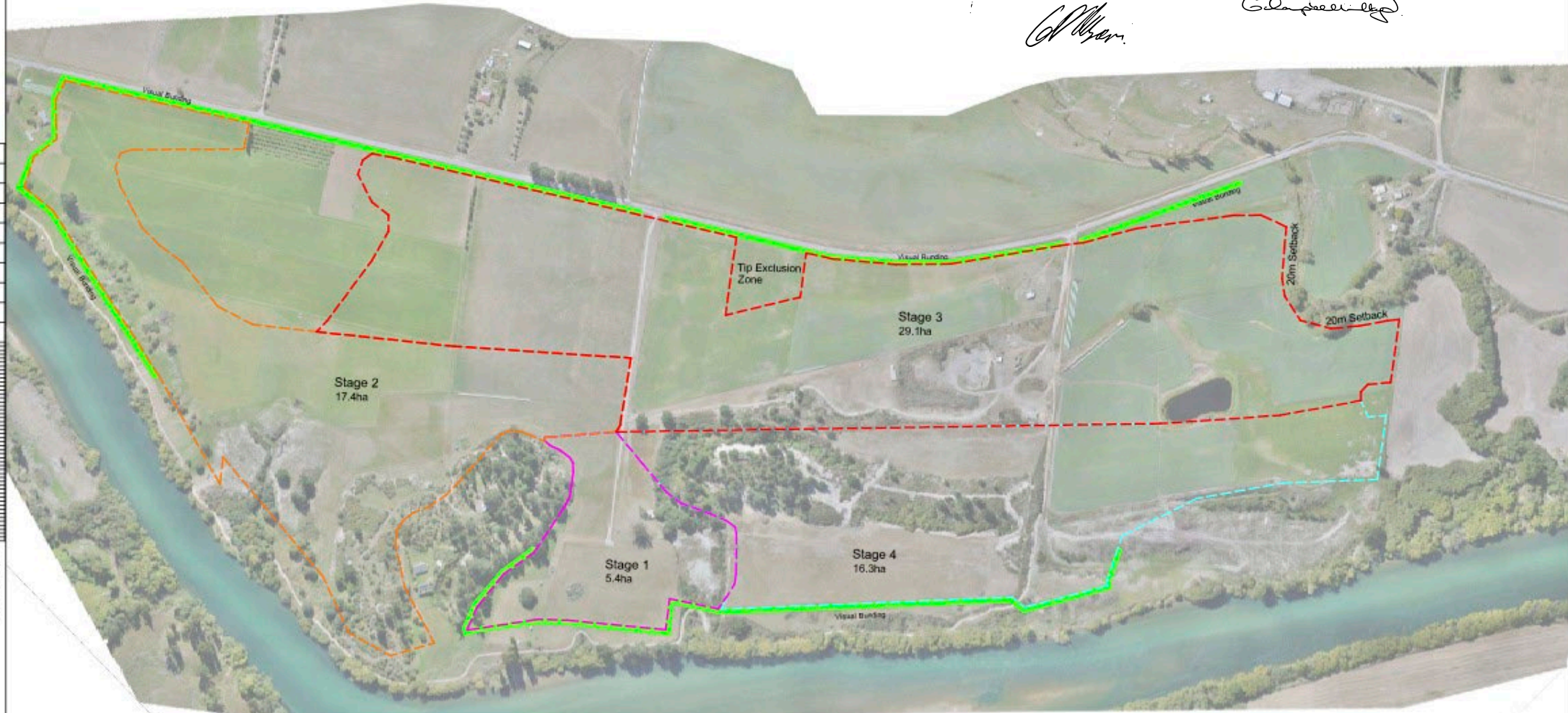
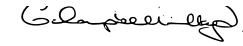
Signature of all legal owners

Site and/or subdivision plan with all required signatures

Elevations with all required signatures (if applicable)

Please sign and date plan in conjunction to the Approval form.

04/10/2023



ORIGINAL SIZE A3  
100  
90  
80  
70  
60  
50  
40  
30  
20  
10  
0

Visual Bunding  
Stage Boundaries (various colours)

File Ref:  
Prepared For:  
**Hawkeswood Mining**

No.	Amendments	Drawn	Date

**Stage Plan**  
**Millers Flat**

Project No.	Surveyed
Scale	JR
1:5000	Designed
Date	Drawn
06/09/23	JR
Sheet	Checked
1	JR





*[Handwritten mark]*



# Affected Persons Approval

To: The Manager, Planning and Environment  
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### TO BE COMPLETED BY THE PERSON(S) GIVING THEIR APPROVAL

Name: Beryl Tomkin

Organisation: \_\_\_\_\_

Address: 5386 Ettrick-Roes Junction Road

[Signature]

13.11.23.

Signature

Date

Name: \_\_\_\_\_

Organisation: \_\_\_\_\_

Address: \_\_\_\_\_

Signature

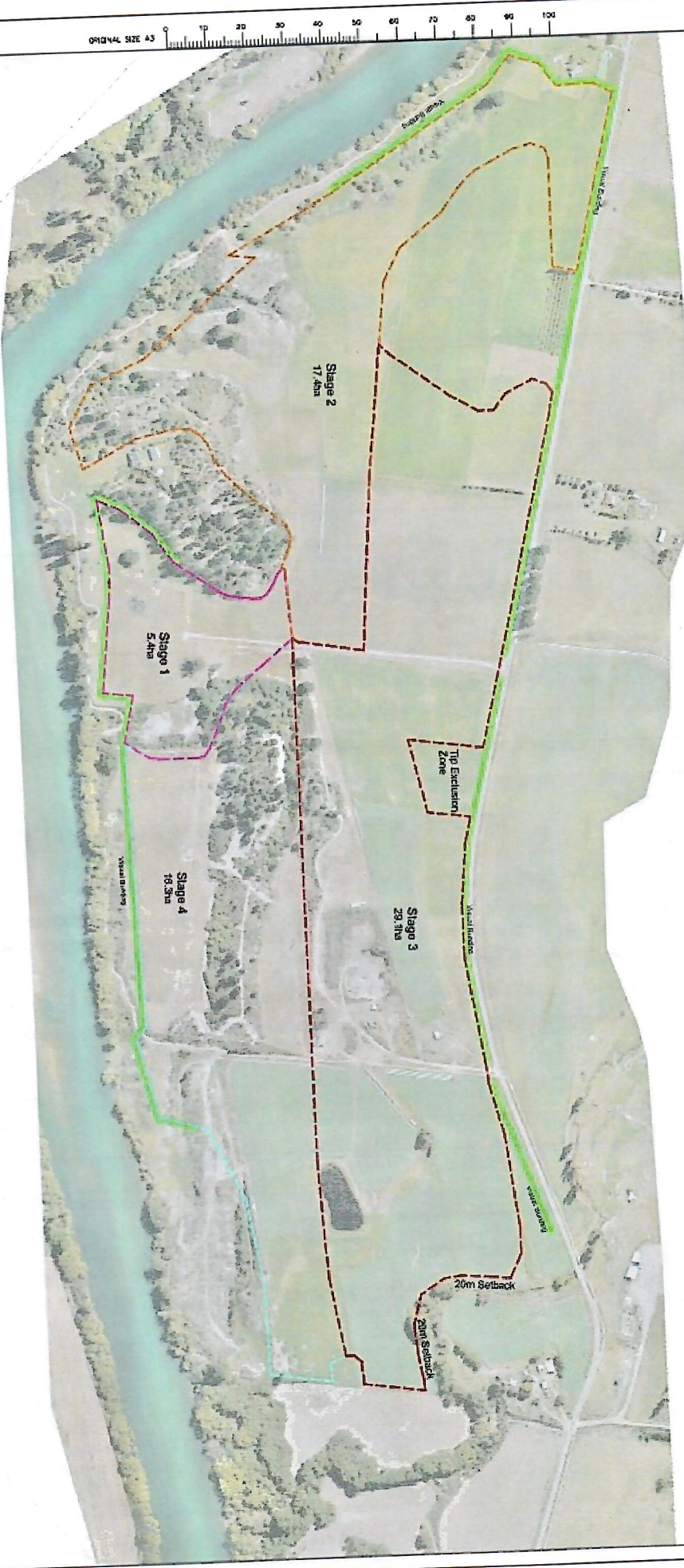
Date

Checklist:		
<input checked="" type="checkbox"/> Signature of all legal owners	<input type="checkbox"/> Site and/or subdivision plan with all required signatures	<input type="checkbox"/> Elevations with all required signatures (if applicable)



Please sign and date plan in conjunction to the Approval form.

*Barker*



Visual Banding  
Stage Identifiers (various colours)

Project:  
Approved For:  
**Hawkeswood Mining**

No.	Amendment	Drawn	Check

**Stage Plan**  
**Millers Flat**

Project No.	Scale	Drawn	Checked
	1:5000	JR	JR



# Affected Persons Approval



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Central Otago District Council  
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Alexandra 9340

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## TO BE COMPLETED BY THE PERSON(S) GIVING THEIR APPROVAL

Name: DOUGAL MACDOUGALL

Organisation: MINZION STATION LTD

Address: Nº9 TZAMBARU RD MILLERS FLAT

Signature

Date

Name: \_\_\_\_\_

Organisation: \_\_\_\_\_

Address: \_\_\_\_\_

Signature

Date

### Checklist:

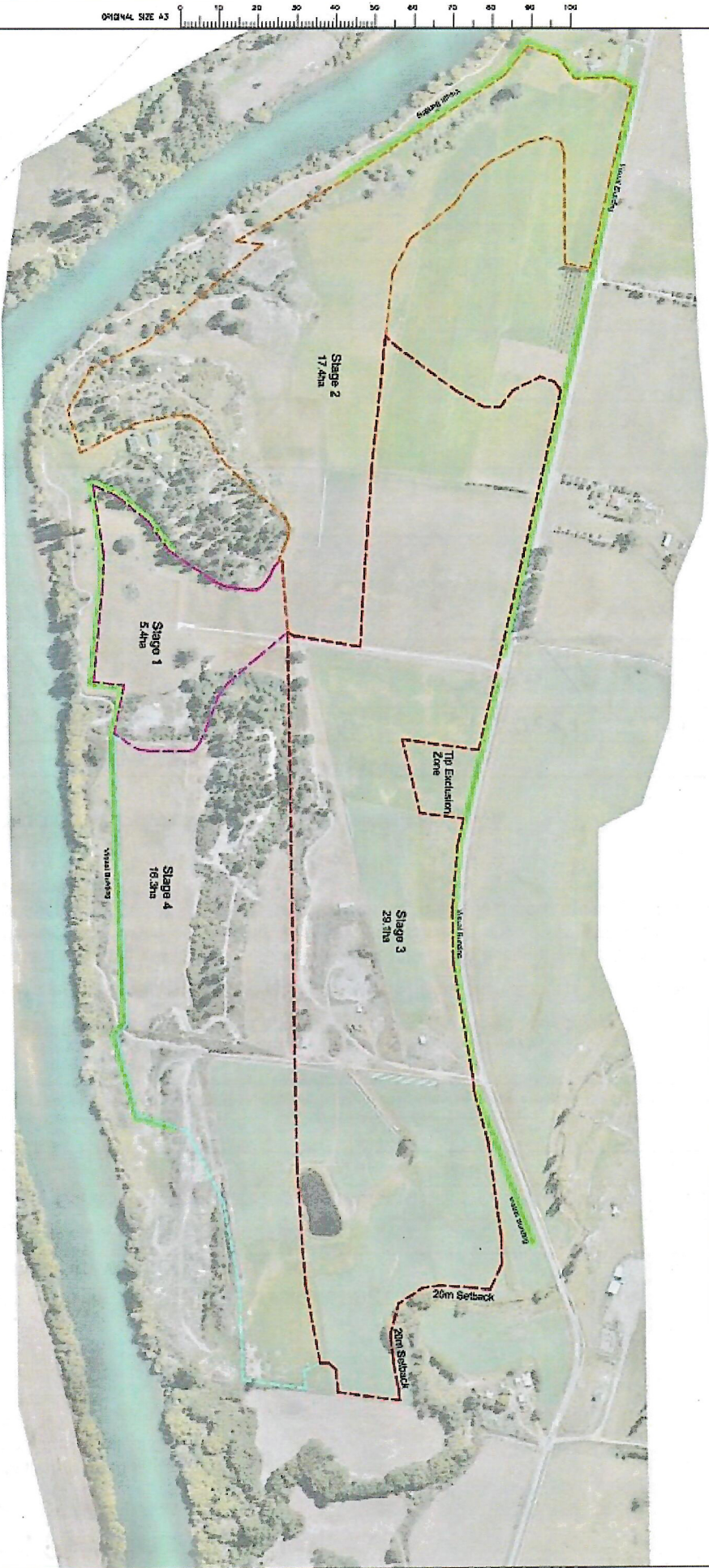
Signature of all legal owners

Site and/or subdivision plan with all required signatures

Elevations with all required signatures (if applicable)



Please sign and date plan in conjunction to the Approval form.



Map Ref:

Approved For:

### Hawkeswood Mining

No.	APPROVED	DATE

**Stage Plan**  
**Millers Flat**

Project No:	Design	Checked
15000	JR	JR
05/03/23	JR	JR
Sheet 1	JR	JR



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## TO BE COMPLETED BY THE PERSON(S) GIVING THEIR APPROVAL

Name: JOHN W ASHER

Organisation: B

Address: 1333 TEVIOT RD

[Signature]  
Signature

14/11/23  
Date

Name: \_\_\_\_\_

Organisation: \_\_\_\_\_

Address: \_\_\_\_\_

[Signature]  
Signature

\_\_\_\_\_  
Date

Checklist:		
<input type="checkbox"/> Signature of all legal owners	<input type="checkbox"/> Site and/or subdivision plan with all required signatures	<input type="checkbox"/> Elevations with all required signatures (if applicable)



Please sign and date plan in conjunction to the Approval form.



Scale: 1:5000  
0 10 20 30 40 50 60 70 80 90 100  
Meters

Legend:  
Visual Bunding  
Stage Boundaries (verfous colours)

### Hawkeswood Milling

No.	Amendments	Drawn	Date

Stage Plan
Millers Flat

Project No.	Drawn	Checked
Scale: 1:5000	JR	JR
Date: 06/05/23		
Sheet: 1		



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## TO BE COMPLETED BY THE PERSON(S) GIVING THEIR APPROVAL

Name: DAVID ALAN KLEBER

Organisation: \_\_\_\_\_

Address: 2 MCFADDEN DRIVE MOSGIEL 9024

D.A. Kleber  
Signature

18/11/23  
Date

Name: \_\_\_\_\_

Organisation: \_\_\_\_\_

Address: \_\_\_\_\_

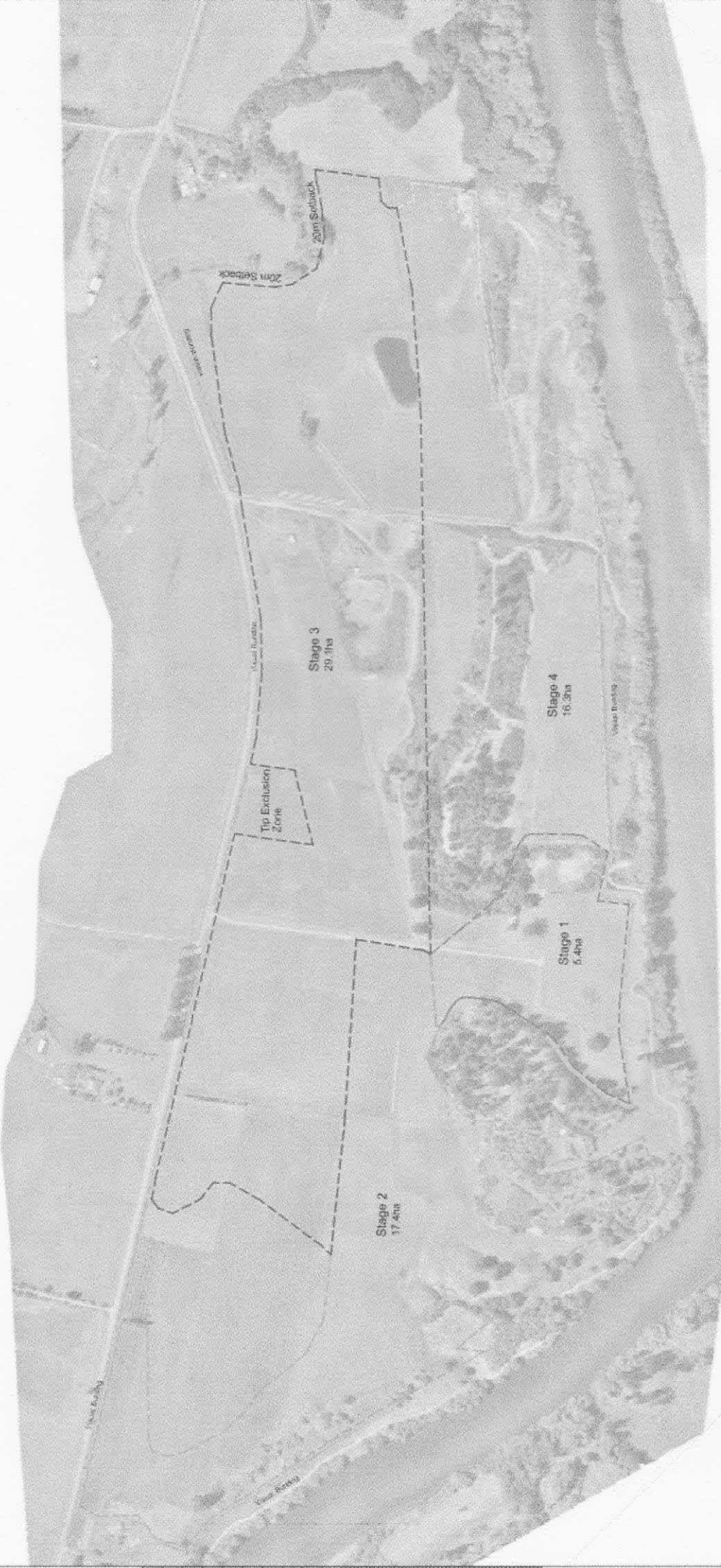
\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

Checklist:		
<input type="checkbox"/> Signature of all legal owners	<input type="checkbox"/> Site and/or subdivision plan with all required signatures	<input type="checkbox"/> Elevations with all required signatures (if applicable)

Please sign and date plan in conjunction to the Approval form.

D.A. Weber 18/11/23



Project No	Drawn By	Checked By
Scale	Date	Drawn By
1:5000	06/09/23	JR
Sheet	1	Checked By
		JR

Stage Plan  
Millers Flat

AS	Author/Drawn	Checked	Date

Hawkeswood Mining



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## TO BE COMPLETED BY THE PERSON(S) GIVING THEIR APPROVAL

Name: Shanon and Shelley Garden (and SS Garden Holdings Ltd)

Organisation: \_\_\_\_\_

Address: 1535a Teviot Road, Millers Flat

  
Signature

16 November 2023  
Date

Name: \_\_\_\_\_

Organisation: \_\_\_\_\_

Address: \_\_\_\_\_

Signature

Date

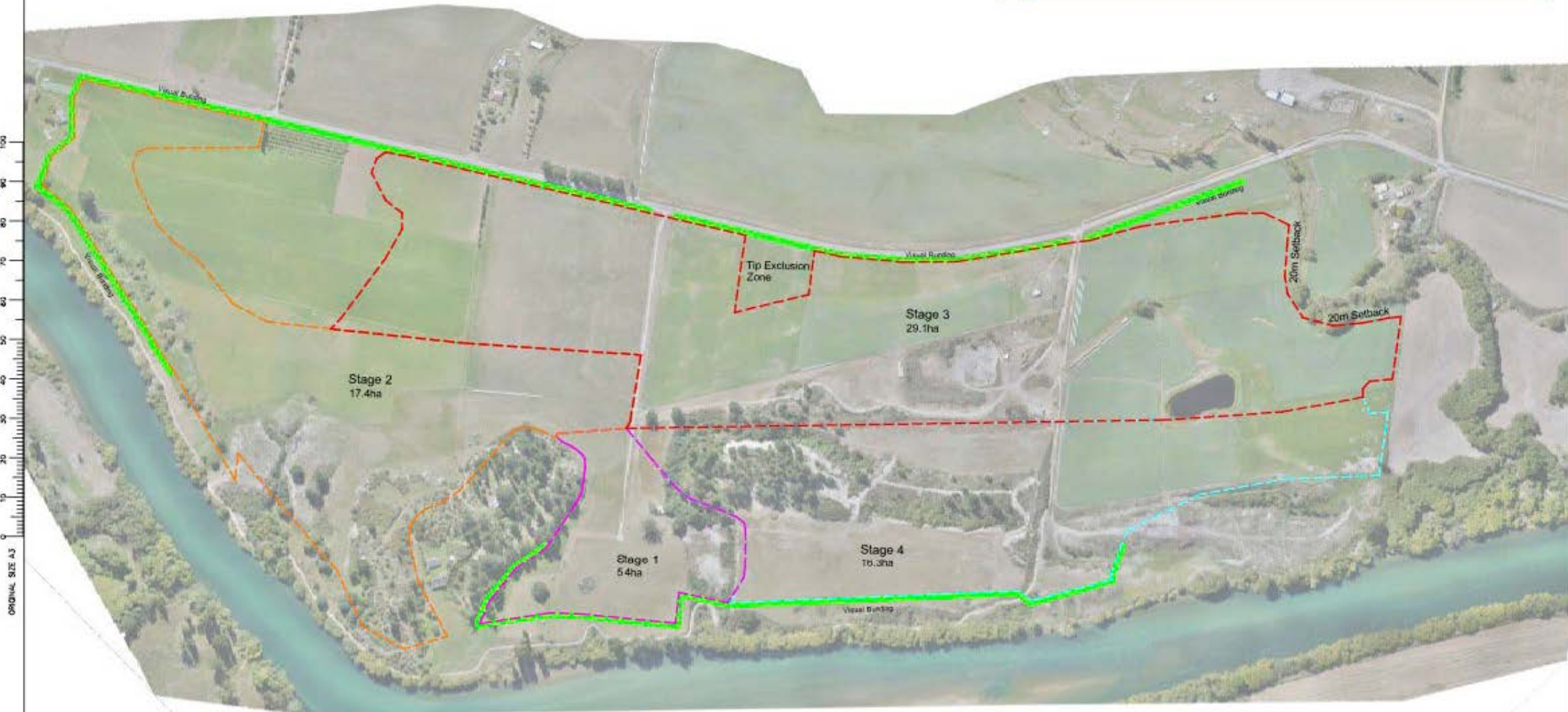
### Checklist:

Signature of all legal owners

Site and/or subdivision plan with all required signatures

Elevations with all required signatures (if applicable)

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——— Visual Bunding  
- - - - - Stage Boundaries (various colours)

File Ref:

Prepared For:

Hawkeswood Mining

No.	Amendments	Drawn	Date

Stage Plan

Millers Flat

Project No.	Surveyed
Scale	Designed
Date	Drawn
Sheet	Checked
1	JR



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## TO BE COMPLETED BY THE PERSON(S) GIVING THEIR APPROVAL

Name: Wesley Stuart Reichel

Organisation: Te Mahanga Orchard

Address: 5434 Ettricks Pass Fumkin Road

Wes Reichel  
Signature

18/11/23  
Date

Name: \_\_\_\_\_

Organisation: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

### Checklist:

Signature of all legal owners

Site and/or subdivision plan with all required signatures

Elevations with all required signatures (if applicable)



Please sign and date plan in conjunction to the Approval form.

*WES*



# Hawkeswood Milling

No.	Assessment	Drawn	Date

## Stage Plan

Millers Flat

Project No.	Surveyed
151000	JR
060823	Designed
Sheet 1	Drawn
	JR
	Checked
	JR

