

# Milldale Stages 10 - 13, Stage 4C, WWTP - Management Plans and Monitoring Measures

Topic	Part of Proposal (Volume)	Management Plan / Report	Information submitted with Application	Purpose of Management Plan/Report	Proposed Condition of Consent  (Volume 6)	Document Status	Rationale for Document Status	Prepared for previous Milldale Stages
Geotechnical	Stages 10-13 (Volume 2)	Geotechnical Completion Report	Addressed in AEE	Global site stability, confirm foundation design parameters, describe future building/earthworks limitations, apply restrictions ensure development has been undertaken in accordance with geotechnical recommendations.	Section 2: Conditions 44 and 87	To be prepared after development is completed	Geotechnical Completion Report can only be provided once the works have been completed.	Yes
		Settlement Monitoring Plan	Draft Plan provided	Identify settlement monitoring locations, timing/frequency of monitoring stations and define the criteria to be met upon completion of earthworks.	Section 2: Condition 12	Final to be prepared prior to commencement of works	Standard condition of consent to provide this at detailed design phase.	Yes
	Stage 4C (Volume 3)	Geotechnical Completion Report	Addressed in AEE	Global site stability, confirm foundation design parameters, describe future building/earthworks limitations, apply restrictions ensure development has been undertaken in accordance with geotechnical recommendations.	Section 3: Phase 1 Condition 29 and 43. Phase 2 Conditions 20 and 37	To be prepared after development is completed	Geotechnical Completion Report can only be provided once the works have been completed.	Yes
		Settlement Monitoring Plan	Addressed in AEE	Identify settlement monitoring locations, timing/frequency of monitoring stations and define the criteria to be met upon completion of earthworks.	Section 3: Phase 1 Condition 14	To be prepared prior to commencement of works	Standard condition of consent to provide this at detailed design phase.	Yes
	WWTP (Volume 4)	Geotechnical Completion Report	Addressed in AEE	Global site stability, confirm foundation design parameters, describe future building/earthworks limitations, apply restrictions ensure development has been undertaken in accordance with geotechnical recommendations.	Section 4: Condition 27	To be prepared after development is completed	Geotechnical Completion Report can only be provided once the works have been completed.	Yes
		Settlement Monitoring Plan	Draft Plan provided	Identify settlement monitoring locations, timing/frequency of monitoring stations and define the criteria to be met upon completion of earthworks.	Section 2: Condition 11	Final to be prepared prior to commencement of works	Standard condition of consent to provide this at detailed design phase.	Yes

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Arborist	Stages 10-13 (Volume 2)	Auditing Report	Addressed in AEE	Detailing the works monitored, frequency of monitoring, any effects on vegetation, and any remedial actions required.	Section 2: Condition 40	This is to be prepared after vegetation removal has been completed.	An auditing report can only be provided once the works have been completed as this is a record of the works that have occurred.	Yes
		Tree Removal Methodology and Monitoring	Addressed in AEE	Removal of any vegetation will be undertaken by qualified arborists implementing modern arboricultural techniques, taking care to avoid damage to any retained vegetation.	Section 2: Conditions 37 and 38	This is monitoring that is undertaken during site works.	Conditions of consent are the appropriate mechanism to ensure these measures are adhered to.	Yes
	WWTP (Volume 4)	Auditing Report	Addressed in AEE	Detailing the works monitored, frequency of monitoring, any effects on vegetation, and any remedial actions required.	Section 4: Condition 31	This is to be prepared after vegetation removal has been completed.	An auditing report can only be provided once the works have been completed as this is a record of the works that have occurred.	Yes
		Biosecurity Measures	Addressed in AEE	To ensure appropriate measures are taken when undertaking works on or near Elm Trees.	Section 4: Condition 32	These are measures undertaken during works.	Conditions of consent are the appropriate mechanism to ensure these measures are adhered to.	Yes
		Tree Removal Methodology and Monitoring	Addressed in AEE	Removal of any vegetation will be undertaken by qualified arborists implementing modern arboricultural techniques, taking care to avoid damage to any retained vegetation.	Section 4: Conditions 28 and 29	This is monitoring that is undertaken during site works.	Conditions of consent are the appropriate mechanism to ensure these measures are adhered to.	Yes
Ecology	Stages 10-13 (Volume 2)	Fauna Management Plan (FMP)	Draft Plan Provided	<p>The aim of the FMP is to manage the following species during vegetation removal:</p> <ul style="list-style-type: none"> <li>(a) Birds;</li> <li>(b) Lizards; and</li> <li>(c) Bats.</li> </ul> <p>The FMP covers the recommendations within the ecology report for Bat Management Plans and Lizard Management Plans.</p>	Section 2: Condition 41	Final to be prepared prior to commencement of works	These plans are generally provided prior to the commencement of works when more detail is known about how the project will be constructed. It is standard practice for councils to impose a condition of consent requiring these plans to be provided before works begin, rather than at the time of resource consent. The Application outlines the key principles and framework that will guide the development of the plan.	Yes

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							Fauna Management Plans manage the potential presence of species in areas of vegetation removal. It is appropriate that these are approved closer to the time of works to ensure ecologists supervising the work have the most up to date information on site prior to the commencement of works.	
		Native Fish Capture Relocation Plan (NFCRP)	Addressed in AEE	To manage the capture and relocation of any potential present fish during the stream reclamation and diversion works.	Section 2: Condition 58	To be prepared prior to commencement of works	<p>As above, it is standard practice for Council’s to impose a condition of consent requiring an NFCRP to be provided before works begin, rather than at the time of resource consent. The application and associated ecology report outlines the key principles and framework that will guide the development of the plan.</p> <p>It is appropriate that this plan is approved closer to the time of works to ensure ecologists supervising the work have the most up to date information on site prior to the commencement of works.</p>	Yes
		Stream and Wetland Planting and Management Plan	Draft Plan provided	Provides full planting schedules for the stream riparian zones, wetland, and wetland buffer zone, as well as ongoing replacement planting, pest plant and animal control, and stock-proof fencing as required. Stream replanting monitoring is addressed in this Plan.	Section 2: Condition 62	Final to be prepared prior to commencement of works	Information to be provided at detailed design to the satisfaction of Council. By providing this detail at a later date, more detailed consultation with Ngāti Manuhiri and Te Kawerau ā Maki can be undertaken with regards to the specific plant detailing to include.	Yes
		Wetland Monitoring Plan	Draft Plan provided	Ensure the successful establishment of the proposed offset wetland. This plan will include recommendations for vegetation and hydrological monitoring.	Section 2: Conditions 62 and 64	Final to be prepared prior to commencement of works	Wetland monitoring may only occur once it has been created as part of the offset works. It is appropriate to provide this information at a later date, prior to commencement of	Yes

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							works. Wetland monitoring forms part of the SWMP.	
		Fish Passage Monitoring and Maintenance Plan	Addressed in AEE	Will specify the ongoing maintenance measures of the proposed culvert structures to ensure fish passage.	Section 2: Condition 67	To be prepared prior to commencement of works	This is a standard condition of consent of detail to be provided during the detailed design phase.	Yes
	WWTP (Volume 4)	Fauna Management Plan (FMP)	Draft Plan provided	<p>The aim of the FMP is to manage the following species during vegetation removal:</p> <ul style="list-style-type: none"> <li>(a) Birds;</li> <li>(b) Lizards; and</li> <li>(c) Bats.</li> </ul> <p>The FMP covers the recommendations within the ecology report for Bat Management Plans and Lizard Management Plans.</p>	Section 4: Condition 12	Final to be prepared prior to commencement of works	<p>These plans are generally provided prior to the commencement of works when more detail is known about how the project will be constructed. It is standard practice for councils to impose a condition of consent requiring these plans to be provided before works begin, rather than at the time of resource consent. The Application outlines the key principles and framework that will guide the development of the plan.</p> <p>Fauna Management Plans manage the potential presence of species in areas of vegetation removal. It is appropriate that these are approved closer to the time of works to ensure ecologists supervising the work have the most up to date information on site prior to the commencement of works.</p>	Yes
Earthworks	Stages 10-13 (Volume 2)	Construction Management Plan	Draft Plan provided	Address construction traffic, address the surrounding environment including pedestrian and bicycle traffic.	Section 2: Condition 5	Final to be prepared prior to commencement of works	Standard condition of consent to provide this prior to commencement of earthworks activity when contractor information is known.	Yes
		Construction Traffic Management Plan	Draft Plan provided	Address construction traffic, address the surrounding environment including pedestrian and bicycle traffic.	Section 2: Condition 7	Final to be prepared prior to commencement of works	Standard condition of consent to provide this prior to commencement of earthworks activity once contractor information is known.	Yes

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		Sediment and Erosion Control Plan	Draft Plan provided	Provides specific erosion and sediment control measures, design drawings, construction methods, monitoring and maintenance and management of exposed areas.	Section 2: Condition 8	Drafted and submitted with Application. Final to be prepared prior to commencement of works	Standard condition of consent to provide this prior to commencement of earthworks activity.	Yes
		Chemical Treatment Management Plan	Draft Plan provided	Provide confirmation that works will be in accordance with GD05 measures.	Section 2: Condition 9	Final to be prepared prior to commencement of works	Standard condition of consent to provide this at detailed design phase.	Yes
		Dust Management Plan	Draft Plan provided	Identify appropriate dust mitigation strategies for the site.	Section 2: Condition 6	Final to be prepared prior to commencement of works	Standard condition of consent to provide this at detailed design phase.	Yes
		Adaptive Management Plan	Expert Report provided	Details regarding earthworks operations across the site.  Includes:  - Stream 21 Monitoring Report	Section 2: Conditions 14 and Condition 15	Drafted and submitted with Application	Please refer to appendix 2R.	Yes
	Stage 4C (Volume 3)	Construction Management Plan	Draft Plan provided	Address construction traffic, address the surrounding environment including pedestrian and bicycle traffic.	Section 3: Phase 1 Condition 5, Phase 2 Condition 5	Final to be prepared prior to commencement of works	Standard condition of consent to provide this prior to commencement of earthworks activity when contractor information is known.	Yes
		Construction Traffic Management Plan	Draft Plan provided	Address construction traffic, address the surrounding environment including pedestrian and bicycle traffic.	Section 3: Phase 1 Condition 7, Phase 2 Condition 6	Final to be prepared prior to commencement of works	Standard condition of consent to provide this prior to commencement of earthworks activity when contractor information is known.	Yes
		Sediment and Erosion Control Plan	Draft Plan provided	Provides specific erosion and sediment control measures, design drawings, construction methods, monitoring and maintenance and management of exposed areas.	Section 3: Phase 1 Condition 8, Phase 2 Condition 7	Final to be prepared prior to commencement of works	Standard condition of consent to provide this prior to commencement of earthworks activity.	Yes

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		Chemical Treatment Management Plan	Draft Plan provided	Provide confirmation that works will be in accordance with GD05 measures.	Section 3: Phase 1 Condition 11	Final to be prepared prior to commencement of works	Standard condition of consent to provide this at detailed design phase.	Yes
		Dust Management Plan	Draft Plan provided	Identify appropriate dust mitigation strategies for the site.	Section 3: Condition 6	Final to be prepared prior to commencement of works	Standard condition of consent to provide this at detailed design phase.	Yes
	WWTP (Volume 4)	Construction Management Plan	Draft Plan provided	Address construction traffic, address the surrounding environment including pedestrian and bicycle traffic	Section 4: Condition 7	Final to be prepared prior to commencement of works	Standard condition of consent to provide this prior to commencement of earthworks activity when contractor information is known.	Yes
		Construction Traffic Management Plan	Draft Plan provided	Address construction traffic, address the surrounding environment including pedestrian and bicycle traffic.	Section 4: Condition 8	Final to be prepared prior to commencement of works	Standard condition of consent to provide this prior to commencement of earthworks activity when contractor information is known.	Yes
		Sediment and Erosion Control Plan	Draft Plan provided	Provides specific erosion and sediment control measures, design drawings, construction methods, monitoring and maintenance and management of exposed areas.	Section 4: Condition 10	Final to be prepared prior to commencement of works	Standard condition of consent to provide this prior to commencement of earthworks activity.	Yes
		Chemical Treatment Management Plan	Draft Plan provided	Provide confirmation that works will be in accordance with GD05 measures.	Section 4: Condition 10 (b)	Final to be prepared prior to commencement of works	Standard condition of consent to provide this at detailed design phase.	Yes
		Dust Management Plan	Draft Plan provided	Identify appropriate dust mitigation strategies for the site.	Section 4: Condition 9	Final to be prepared prior to commencement of works	Standard condition of consent to provide this at detailed design phase.	Yes
		Cultural Monitoring	Addressed in AEE	Site monitoring inspections at the commencement of works, during (i.e. earthworks complete and	Section 4: Condition 15	To be undertaken during works	Standard condition of consent to undertake cultural monitoring during the earthworks activity.	

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				sediment controls in place) and at the conclusion of works.				
Noise	Stage 4C (Volume 3)	Construction Noise and Vibration Management Plan	Draft Plan provided	Identify, require and enable the adoption of the best practicable option to minimise construction noise and vibration effects and ensure compliance with the project noise and vibration conditions.	Section 3: Condition 9	Final to be prepared prior to commencement of works	Standard condition of consent to provide this prior to commencement of earthworks activity.	Yes
Contamination	Stages 10-13 (Volume 2)	Site Management and Remedial Action Plan	Provided with application	To manage the remediation of contamination within the site.	Section 2: Condition 27	Drafted and submitted with Application	Please refer to appendix 2H of the application material.	Yes
		Site Validation Report	Addressed in AEE;	To provide a summary of the works undertaken.	Section 2: Condition 45	To be prepared prior to commencement of works	Standard condition of consent to provide this once the works are complete.	Yes
Landscaping	Stages 10-13 (Volume 2)	Streetscape and Public Accessway Landscaping Plan	Draft Plan provided	Detailed design of the proposed drafted concept to be provided.	Section 2: Condition 100	Final to be prepared prior to commencement of works/ Draft high-level design provided with Application	Appendix 2N provides a high-level design concept for the proposal. It is common to provide greater detail at the detailed design phase to ensure the Council's satisfaction.	Yes
		Drainage Reserves and Parks Plan	Draft Plan provided	Detailed design of the proposed drafted concept to be provided.	Section 2: Condition 101	Final to be prepared prior to commencement of works/ Draft high-level design provided with Application	Appendix 2N provides a high-level design concept for the proposal. It is common to provide greater detail at the detailed design phase to ensure satisfaction of the Council.	Yes
		Landscape / Drainage Reserves and Parks Maintenance Plans	Draft Plan provided	Details maintenance frameworks for the proposed landscaped areas.	Section 2: Condition 104 and 105	Final to be prepared prior to commencement of works	Standard condition of consent to provide this greater detail at the detailed design phase.	Yes

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	Stage 4C (Volume 3)	Streetscape and Public Accessway Landscaping Plan	Provided in Application	Detailed design of the proposed drafted concept to be provided.	Section 3: Condition 52	Final to be prepared / Draft high-level design provided	Appendix 3E provides a high-level design concept for the proposal. It is common to provide greater detail at the detailed design phase to ensure satisfaction of the Council.	Yes
		Landscape Maintenance Plan	Addressed in AEE	Details maintenance frameworks for the proposed landscaped areas.	Section 3: Condition 54	Final to be prepared prior to commencement of works	Standard condition of consent to provide this greater detail at the detailed design phase.	Yes
Lighting	Stage 4C (Volume 3)	Lighting Plans	Lighting Plans provided	Details regarding proposed lighting for JOAL environments confirming this is in accordance with specifications required within AS/NZS115, also pedestrian accessway lighting meets the requirements of the AT TDM.	Section 3: Condition 25	Final submitted with Application	Proposed lighting plans included. A condition is included that specifies any amendments will be approved by Council.	Yes
	Stage 10 – 13 (Volume 3)	Lighting Plans	Addressed in AEE	Details regarding proposed street lighting confirming this is in accordance with specifications required within AS/NZS115, also pedestrian accessway lighting meets the requirements of the AT TDM.	Section 3: Condition 95	To be prepared prior to commencement of works as part of EA approval process	Final lighting Plans to be provided at the detailed design EA phase.	Yes
Waste Management	Stage 4C (Volume 3)	Waste Management Plan	Plan provided	Specifies that any changes to the approved plan needs to be submitted to Council for approval.	Section 3: Phase 2 Condition 27 and 28	Submitted with Application	Conditions of consent has been provided in the application material.	Yes
Archaeology	Stages 10-13 Stage 4C WWTP (Volume 5)	Archaeological Management Plan	Provided in Application	Investigate, research and analyse standing structures and remains in accordance with current archaeological practice to gather information about the historical and cultural heritage of New Zealand.	Section 5: Condition 3	Drafted and submitted with Application	Please refer to Volume 5, appendix 5C of the application material.	No -  Archaeological sites not present in previous Milldale stages



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Hazardous Substances	WWTP (Volume 4)	Environmental Management Plan (EMP)	Draft Plan provided	Ensure the risks from the site are managed appropriately in accordance with the assessment undertaken by WWLA.	Section 4: Condition 40 and 41	Final to be prepared prior to commencement of plant	Please refer to Appendix 4N for the substantive assessment prepared by WWLA including the information to be included within the EMP. This is standard information to provide at detailed design, and is a document that is subject to ongoing approvals from Council at certain time periods.	No - WWTP not in previous stages
		Emergency Response Plan	Draft Plan provided	Ensure the risks from the site associated with any emergencies are appropriately managed	Section 4: Condition 70			No - WWTP not in previous stages
Wastewater Discharge	WWTP (Volume 4)	Operations and Management Plan	Draft Plan provided	Provide a framework for the operation and management of the WWTP and discharge facilities to ensure compliance with the conditions of consent.	Section 4: Condition 69	Final to be prepared prior to commencement of plant	Standard condition of consent to be provided at detailed design / prior to commencement of the discharge activity.	No - WWTP not in previous stages
Odour	WWTP (Volume 4)	Odour Management Plan	Draft Plan provided	Detail the maintenance and inspection procedures for the odour control system, as well as the procedures for the receipt, recording, and handling of odour complaints.	Section 4: Condition 73	Final to be prepared prior to commencement of plant	Standard condition of consent to be provided at detailed design / prior to commencement of the discharge activity.	No - WWTP not in previous stages
		Operations and Maintenance Manual for Odour Control (OMM)	Draft Plan provided	Details the operational and maintenance procedures to be undertaken by the WWTP operator to ensure odour is controlled.	Section 4: Condition 95	Final to be prepared prior to commencement of plant	Standard condition of consent to be provided at detailed design / prior to commencement of the discharge activity.	No - WWTP not in previous stages