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Dear David

Proposed subdivision at 61 & 68 Exploration Way, Whitby

Water supply facilities

The proposed development at 61 & 68 Exploration Way as described in your resource consent application and drawings provided with your e-mail of 30 January 2014 is acceptable to Greater Wellington Regional Council Water Supply (GWRC) with the following conditions and clarifications.

- The reservoir, control hut and all other required equipment associated with the water supply including outlet pipeline, shall be competently designed and submitted to PCC for acceptance and approval by the Division Manager: Water Services Porirua City Council prior to the start of any construction. GWRC's agreement to providing any water supply to the proposed reservoir is subject to the provision that PCC accepts all constructed items and vests them as Council assets upon the granting of 224c.
- All relevant resource consents are obtained and all consent conditions are complied with.
- The reservoir inlet pipeline from the existing bulk water supply pipeline to the reservoir shall be constructed to the standards and approval of GWRC. The pipeline including isolation valves, reservoir inlet control valve, inlet flow meter, water level transmitter, level probes and telemetry unit shall be vested to GWRC.
- A schedule of assets (being vested to GWRC) with detailed descriptions and installed costs and as-built drawings in *AutoCAD* format shall be provided to GWRC.
- A 4m wide easement with GWRC's standard easement conditions shall be provided for the reservoir inlet pipeline. The reservoir outlet pipeline, overflow pipeline and the electrical cable supplying power to the reservoir control hut can be laid with-in this easement. The

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position of these services and their separation shall be to the approval of GWRC. The easement formation shall allow all-weather 4WD access along the easement alignment.

- The reservoir shall include drain valves and an overflow pipe with a flow capacity of at least 7.5 L/s. This water shall be discharged to a storm water pipeline, driveway storm water channel or natural water course capable of transmitting this flow without erosion. The flow path of this discharging water shall not be through adjoining properties unless it is contained in a natural permanently flowing water course.
- The inlet pipeline shall be pressure tested and disinfected to the approval of GWRC before it is connected to the existing water supply pipeline.
- GWRC will install a branch and isolation valve on the existing bulk water supply pipeline for connection of the reservoir inlet pipeline. Progeni shall pay GWRC's costs for installing the branch and isolation valve.
- A defects liability period of 12 months from the time of commissioning the water supply system will apply. Any faults or maintenance required on the assets being vested to GWRC with-in the defects liability period shall be arranged and paid for by Progeni.
- Potential development in the area that could be supplied from the proposed reservoir shall not exceed a water demand of 150,000 L / day.
- The one existing and two proposed driveway crossings of the existing pipeline easement is accepted. The driveways shall be constructed to the standards and approval of GWRC. The driveways shall be surfaced with asphalt or concrete and include channelling to prevent surface water from the driveway being discharged onto the easement alignment. Joints in the driveway surface shall be provided each side of the pipelines to facilitate removal if excavation of the pipeline is required in this area.
- The driveway surface shall be at least 900 mm above the existing pipes unless specifically accepted and approved by GWRC. The cover over the two pipelines at the proposed crossing to house sites 6, 7 & 8, approximately 50 m from Exploration Way can be reduced to a minimum of 600 mm at the uphill side of the crossing with construction of a road surface support structure, to prevent vehicle loads affecting the pipe, to the approval of GWRC.
- A sewer pipe can be installed (adjacent to the above driveway) crossing the existing bulk water supply pipelines approximately 2.5 m below the pipeline inverts. GWRC accepts directional drilling with at least 2 m clearance beneath the existing pipelines. The directional drilling operation shall be to GWRC's approval. GWRC Water Supply Pipelines team shall be advised when the sewer pipe is to be installed at least two days before work begins on site.

- Up to 0.6 m of fill may be placed on the existing pipeline easement, over the bulk water supply pipelines approximately 25 m NW of the two air valve chambers. The fill material shall be graded and compacted to allow all-weather 4WD access along the easement alignment.
- Excavated surfaces adjacent to and below the existing pipeline easement shall be no steeper than 1 vertical to 2 horizontal. Battered surfaces shall not encroach into the existing pipeline easement.

GWRC Water Supply Pipelines team shall be advised at least two days prior to the existing water supply pipes being excavated to confirm the location and depth. Telephone Mark Poehls on mobile 021 486 594 or Frank O'Keeffe on mobile 021 426 951 or Water Supply Reception 830 4381.

Yours sincerely



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