

Whangamata Skate Park Report

Date 20/6/2017



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Skate Park	Whangamata Skate Park									
Date Visited	7/11/2016									
Park Location	Martyn road Whangamata									
Skate Park Description	1980's Snake run. Precast ,1990's style street park, Fat bars, metal rails and mix of wedge banks and transition									
Size of Skate Park	Approx 2000m2									
Year of Construction	Late 1980's. early 2000's									
Surface Type	Concrete	Wood	Metal	Asphalt	Paving	Other				
	✓									
Surface Condition	Extremely poor		Poor		Average		Good		Very Good	
	1	2	3	4	5	6	7	8	9	10
Steel Coping Condition	1	2	3	4	5	6	7	8	9	10
Concrete edge Condition	1	2	3	4	5	6	7	8	9	10
Drainage	1	2	3	4	5	6	7	8	9	10
Rubbish and Debris Accumulation	1	2	3	4	5	6	7	8	9	10
Condition of Landscaping	1 N/A	2 N/A	3 N/A	4 N/A	5 N/A	6 N/A	7 N/A	8 N/A	9 N/A	10 N/A
Overall Condition of Skate Park	1	2	3	4	5	6	7	8	9	10
Park Safety Rating	Severe Hazard		Serious Hazard		Moderate Hazard		Slight Hazard		Minimal Hazard	
	1	2	3	4	5	6	7	8	9	10





Figure 1 Severe flooding, from blocked Drain

Hazard Rating , Severe



Figure 2. Water Pooling, From Poor/Blocked Drainage

Hazard Rating, Serious

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Figure 3. Water Pooling From Poor Design.

Hazard Rating, Serious



Figure 4. Damaged Concrete, Chipped and Broken Concrete Slab.

Hazard Rating, Serious





Figure 5. Old Repair Failing, Broken/Chipped Concrete.

Hazard Rating, Serious



Figure 6. Water Pooling, From Poor/Blocked Drainage.

Hazard Rating, Serious



Figure 7. Slab Movement.

Hazard Rating, Severe



Figure 8. Rough Exposed Concrete

Hazard Rating, Serious



Figure 9. Rough Exposed Concrete

Hazard Rating, Serious

Conclusion

Skate Park

The Whangamata Skate Park is 15 years old. The skatepark is made up approximately 18 precast panels, with the rest of the skate park poured insitu. The thickness of the concrete is 100mm with an estimated strength of 20 MPA (low strength).

Structurally all the precast panels are in a poor condition as they are not tied together or tied into any of the flat concrete slabs with rebar. They are basically floating on a compacted subgrade.

There has been grinding of these panels, to try and fix the movement problems. Unfortunately the movement in these panels will continue to move.

The skate park surface is very pitted and worn with the majority of the concrete exposed. Concrete this rough is unsafe for park user to slide/fall on even with protective pads. The concrete is so rough that protective gear will grab and be pulled off the user resulting in an accident.

There is some damage and broken concrete through out the park, which is major hazard for the park user.

Drainage is poor towards the western side of the skate park, although there are some drainage holes, they are blocked with debris, and there is not enough of them.

There is also water pooling through out the skatepark due to not enough fall in the initial construction of the skate park and or parts where the park has sunk.

Snake run

The Whangamata snake run is 29 years old. The skatepark is poured insitu. The thickness of the concrete is 100mm with an estimated strength of 20 MPA (low strength).

Because of the age of the concrete and low strength, it has become very worn and pitted over the years, making it very rough and hazardous.

The Drainage at the end of the snake is completely blocked.

Recommendations

Concrete Surface.

- Fill broken and chipped concrete with high strength concrete epoxy, and grind back smooth
- Where broken and concrete edges are joining to other concrete slabs, use a flexible urethane filler 70 D.
- Grind back all concrete surfaces to a smooth 100 grit finish.
- Polish all concrete surfaces to 200 grit finish.
- Apply lithium based densifier Peter Fell C2 super hard.

Drainage.

- Clean out all drain holes to western side of skate park.
- Drill additional 75mm holes in areas where water is pooling.
- Investigate whether or not the snake run drainage is a soak pit or connected to a storm water drain.
- If drainage is connected to a storm water drain, clean the line right back to the sump in the snake run.
- If drainage is connected to a soak pit, replace soak pit with a modern design and clean the line back to the sump in the snake run.

NOTE: It is highly recommended that an experienced skate park contractor undertake the above work as they are experts in skate park construction and repairs.