Plant Height Note

The Plant Height Condition as written states 14m maximum height. I wish to keep this as written for safety reasons.

Plant Height

The plant itself will be no higher than 12.5m it may even be lower.

The reason why the plant needs to be this height is that the mineral contains clay and therefore must be washed through a piece of equipment called a log washer. This is a barrel that agitates the sand, gravel and clay and washes out the clay. (This was part of the noise assessment for info.) The clean sand and gravel then flows as a liquid down a chanel and over a three decked screen. The log washer therefore has to sit above the screen as the screen is gravity fed.

The sand and gravel is split into different sizes on the screen and falls through the screen into holding hoppers linked to conveyors that then take the products out to the stock piles.

There needs to be clearance below the bottom of the conveyors for maintenance and for clearing out any spillage.

There are some plants that are designed to be lower. They are spread over a larger footprint. This is not possible given that we are concentrating all activities within as tight an area as is possible.

So why do we want 14m and not 12.5m

The plant has been designed to have a lifting hoist that sits above the log washer. This is a small thin structure used for lifting wear plates, tools etc up to the operating level. It is not visually intrusive. It is a health and safety necessity.

The need for a lifting hoist is as follows:

a) Safety for operatives. Operatives are likely to carry heavy items up the stairs rather than rather than hiring a crane. The hoist avoids the need for manual handling heavy items up stairs.
b) It is less obtrusive than hiring in a crane which is likely to stand at over 20m
c) Furthermore, cranes arriving at site would impact on vehicle movements.