

Plume Analysis Statement

My family and myself live just 440m south east of the proposed battery storage containers. We also run a licensed horse riding school and stables from our home. We teach horse riding and horse care to all ages on our small holding consisting of stables, a riding arena and grazing only 300m to the east of the site.

Our property matches the description in the Plume Analysis Report as being the one closest to the Battery site and the one assumed at most risk.

There's no hiding from the fact that these sites do set on fire with dramatic effect, and we should accept that there is a real potential of it happening here with the size of the site and number of batteries in use. Hence why I have serious concerns for my property, family and animals.

Our stables and barns are of wooden construction and contain hay, straw and ofcourse horses. These buildings are EXTREMELY volatile to sources of ignition. Just a few airbourne ember particles from a Battery fire could be tragic. In addition to the fire risk, there is the concern that our animals could be poisoned from the chemical plume that would be emitted during a fire. Our animals could be confined to stables or fenced in a particular area of a field and unable to escape the plume.

As you can imagine, the task of evacuating all our animals along with our family is not a simple task and fraught with danger for all involved. There will also be times when there is nobody on site and therefore nobody suitably skilled or able to perform a fast evacuation.

In addition to this our son attends First Timers Nursery only 1.5 km West of the site and our daughter attends Navenby Primary school 3km to the North West. Both of which could be affected

For these reasons I strongly object to the proposed siting of the Battery storage site and ask that its suggested location is declined.

I also have the following feedback on the report:

- The report does not appear to be independent. Springwell's own assessment is always going to promote the proposal in a positive light.
- The chemical composition of the batteries to be used is not actually confirmed in this report. Should another type of battery be used other than Lithium Iron Phosphate then this assessment is irrelevant.
- In section 3.4.6 it states "The analysis does not consider the effects of smoke or particles created by a fire, nor does it consider the effects of projectiles or other debris released by an explosion." All of these are a major concern to us, as previously mentioned.
- The model used is designed to assess the worst case scenario at the site itself with very low wind speeds. This is a very valid point but there should also be worst case scenario models for the neighbouring properties such as ours with higher wind speeds and unfavourable wind direction.
- I am disappointed and concerned that the report assumes that our property should be safe because we are to the South East of the development and that the prevailing wind blows to the East.
- Our grazing has not been considered and is pretty much directly east of the development and only 300m away.
- At the time of the report, it is was not confirmed that the fire service could deal with the situation. How can we possibly consider progressing? Should a project of this scale be employing it's own fire team?
- It is stated in the report that such fires can burn for 12 Hrs yet the model is only for 4. We all know that in reality they can burn for days. Is there a sufficient water source to deal with such an event?

In summary:

- I would like to see the battery storage site removed altogether or moved away from my property.
- I would like to see separate worst-case reports for my property and other affected parties
- I would like the reports to be produced by an independent body.
- I would like the reports to consider airbourne debris
- I would like the actual chemical composition of the batteries to be confirmed and specifically assessed