



Minutes of the Mandatory Site Meeting

Invitation to Tender ES-20-16

2020 Landfill Gas Wellfield Expansion – Construction Project– Foothills Boulevard Regional Landfill

July 21, 2020 at 1:00 p.m. at the Foothills Boulevard Regional Landfill

Staff Present: Darwin Paton, Nathan Hartnett

Companies Present: Twin Rivers Developments Ltd
IDL
WLC
Uniwide Drilling
CJS Contracting
Progrus Constructors

Introductions and sign in sheet passed around.
Covid-19 form passed around for signing by the participants

Meeting started at 1:01 at the transfer station

- Due to Covid-19 this will not be a public opening

- Discussed laterals at EH1, drawings and specifications are very specific.
 - Q: What is the degree of the slope of the landfill?
 - A: 4:1 or 3:1 approximately, this varies depending on location.
 - Q: Are there roads to any well sites?
 - A: No, there are no access roads. Access will be from the bottom of the slope or the top of the slope.
 - Q: What is the average thickness of the cover?
 - A: In most areas intermediate cover has been applied, this is approximately 30cm.
- There will be 16 wells drilled, 4 off the first or East lateral, 9 off the second lateral, and 3 off third lateral.
- Make sure to pay attention to well head design, they will be the new precision well heads.
 - Q: There is not a lot of detail on the well heads in the drawings compared to the other drawings, why?
 - A: They can be found online, there are a few manufacturers that make very similar well heads that will work for the job.
 - Q: Is there access to the drill sites?
 - A: Either the haul road going to the active face or the road along the toe of this slope, it will depend on where you are drilling wells.
 - Q: Are we allowed to use existing cover for well field platforms?
 - A: Tender document will have details.
 - Q: For drilling, has there ever been drilling problems?
 - A: only with the original 2002 wells was there a concern as the waste was old and predated the Regional District's operation of the site, this is all new solid waste with the potential for DLC, but we don't anticipate hitting metal.
 - Q: Has there been problems drilling wells?
 - A: No.
- LFG has varying densities all throughout the mass, when digging wells and trenches, safety measures must be in place. LEL = 5% and UEL = 15% for methane.
- Leachate may be encountered, treat all encountered liquid on site as leachate.

- Contractor safety program will be approved before work starts.
- The slope is compacted and to a grade that there has been no slope failure on site.
 - Q: Wells that we will have to drill, are they vertical or sloped?
 - A: This is in the specifications, they are telescoping.
- Other infrastructure was gone over including condensate trap and pneumatic line that contractors must be aware of, main header with isolation valves (these will be fully purged before work starts in the section that is being worked on).
 - Q: When header is purged, what happens to the gas?
 - A: Gas will be pushed out the flare.
 - Q: Does all piping have tracing wire to locate or ways to locate?
 - A: Yes.
 - Q: Does it matter on which sub-header where work starts?
 - A: No, once work starts it will go until finished.
- Must be noted that once infrastructure is in place, contractors will have no rights to infrastructure or products produced from the landfill.
 - Q: If a well is started and everything is done to drill it and it can't be completed, what happens?
 - A: You would retract and drill next to it, this should be found in the specifications.
 - Q: Relating to the last question, is this a cost plus item?
 - A: It should in the specifications, if it is not, submit a question before the question deadline.
 - Q: What are the construction/access parameters?
 - A: Site access is Monday to Friday during operational hours, no access allowed on the weekend. If adjustments are required, we will cross that bridge when we come to it.