

Dear Mr Harrold

Relevant representation registration identification number 20028224.

We are writing to provide a relevant representation in respect of the A47 extension. Although we have met with Highways England (HE) and received information from national Grid we wish to ensure that the safeguards we believe we have secured are embedded in your approved plan.

### **Background**

Childhood First is a children's charity who operated children's homes for severely traumatised children. It is critical to their experience and recovery that they are cared for in tranquil and contained environments. All our homes are located in such places. Two of our homes are located along [REDACTED]; [REDACTED] and [REDACTED]. [REDACTED] is [REDACTED] adjacent to the construction area identified in the plans submitted by HE. North of [REDACTED] is a field (forming a triangle along [REDACTED], [REDACTED] and [REDACTED]). Our principal concern has been about the use of this field in support of this project because of the impact it will have on the children in our care.

In the original plan, it seemed this field would be used for heavy plant and equipment which may operate throughout the project (many years). This would have had debilitating effect on the home and would have risked its Ofsted status.

### **Discussions with HE**

We made representations to HE in respect of this and explained in more detail about our concerns. They had been unaware of the nature and use of [REDACTED] and were sympathetic to the situation. They consequently agreed to modify the plan so it was clear that the field was not to be used during the construction of A47, thus dealing one key area of our concern. The revised plan appears to leave the field intact and without disruption during the construction period. We would like the Inspectorate to place necessary constraints to prevent any reversal of this undertaken. We attach the minutes of the meeting we had with HE in support of this.

A second aspect in relation the construction was the repositioning of the gas pipeline by the national grid (utility conversion work). This would result in a drilling station being set up in the field so the gas pipe could be re-sunk to traverse the new A47 road. We have had to accept this work needs to take place within this field on the understanding the way it is done creates the least noise disruption to the children. We had a second meeting with National Grid who explained the process to us. Again the National Grid were sympathetic to our concerns and agreed further undertakings to minimise the impact on the home on the children. This included the timing of the key boring process. We enclose the minutes of this meeting for information.

### **Revised plans submitted to Inspectorate**

We note the latest plans that have been submitted. At this stage, we note that HE's 'Environmental Management Plan' includes the following commitment:-

In support of limiting and controlling noise during construction, the PC [Principal Contractor – Galliford Try] may use, inter alia, the following good working practices to minimise potential impacts:

Restrict construction working hours to 07:00-19:00 on weekdays and 07:00-19:00 on Saturdays as far as practicable. Night-time and weekend working hours to be determined in discussion with the LPA (including Section 61 prior consent applications where necessary)

- Temporary noise barriers at specific construction phases and receptors as detailed in Table 11.11 in Chapter 11 of the ES (TR010038/APP/6.1) and summarised below:
  - Stage 1 (Pre-construction works) - [REDACTED] [...]

We believe the commitment is fairly woolly and could be improved upon, e.g. by excluding or restricting Saturday working if residents will be in occupation and affected by the works. Looking at the points raised our the meeting notes, there may be further scope for minimising the impact of the utility diversion works on [REDACTED], for example a commitment that the mud mixer will be positioned so as to cause minimum inconvenience and to restrict sheet piling operations to certain times of day (e.g. avoiding early mornings and evenings).

As a general point we have had agreement that heavy plant and equipment is not be transported along [REDACTED] (the portion south of [REDACTED]) especially due the risks to the children in both our houses.

If there is any further information I can provide please do not hesitate to contact us.

Yours sincerely

**Greg Whelan FCA**

Deputy Chief Executive



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**Head Office** 210 Borough High Street, London, SE1 1JX

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DPC:76616c646f72



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Scheme Title: A47 Improvements North Tuddenham to Easton

## Minutes of Meeting

|                         |                                  |  |
|-------------------------|----------------------------------|--|
| <b>Meeting</b>          | Highways England with [REDACTED] |  |
| <b>Venue &amp; Date</b> | TEAMS 27/01/2021 @ 1:30 pm       |  |
|                         | <b>Name</b>                      | <b>Role</b>  |
| <b>Chairperson</b>      | James Powis (JP)                 | Project Manager – Highways England                         |
| <b>Attendees</b>        | Steven Bratten (SB)              | Valuation Advisor – District Valuation Services            |
|                         | Michael Robinson (MR)            | DCO Lead - SWECO   |
|                         | Leonie Owens (LO)                | Stakeholder & Communications Manager (East – Galliford Try |
|                         | Brian Harrison (BH)              | Senior Project Manager – Galliford Try                     |
|                         | David Lawton (DL)                | Property & Land Team – Highways England                    |
|                         | Gary Yexley (GY)                 | Therapist Operations - Childhood First                     |
|                         | Rachel Sillis (RS)               | Director - Childhood First                                 |
|                         | Greg Whelan (GW)                 | Deputy CEO – Childhood First                               |
| <b>Apologies</b>        | None                             |  |
| <b>Distribution</b>     | Full                             |  |

## Minutes

|            |  | Actioned By | Date |
|------------|--|-------------|------|
| <b>1.0</b> | <b>Introductions</b>   |             | -    |
|            | Introductions were made.<br>JP thanked everyone for joining today.   |             |      |
| <b>2.0</b> | <b>Minutes of meeting</b>  |             |      |
|            | <p>Shared on screen was a presentation A47 North Tuddenham to Easton Dualling Scheme, presentation to [REDACTED] 27.01.21. This included the Scheme Design Update and map of the proposed scheme.</p> <ul style="list-style-type: none"> <li>The map shown on the screen is the same map that was in the Winter update that was sent out.</li> <li>The road traverses' various villages, there will be two new proposed junctions; one [REDACTED] and the other close to Blind Lane/Tavernham Road. There are several crossing points for walkers and cyclists, and side roads which are either severed or diverted.</li> <li>Following the statutory consultation in February to April 2020, changes were made such as the Mattishall Lane underbridge. The areas that were changed were in the winter update. There is also an underpass for the church at Honningham and overbridge at Easton.</li> <li>The Norwich Western Link will tie into the [REDACTED] junction.</li> <li>The DCO submission is March 2021 to the Planning Inspectorate (PINS) for acceptance, this process is a fixed 16/18-month period. During which various hearings and examinations take place with</li> </ul> |             |      |



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### Constructive Challenge

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### Improvement and Innovation

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|  |  |  |  |
|--|--|--|--|
|  | <p>(PINS) when any submissions can be made. Following DCO post examinations, there will be a decision, PINS make recommendations to Secretary of State, permission should be granted during summer 2022. After work is done on purchasing some land, preparation for the construction will start late 2022, such as site clearance, setting up of compounds and environmental mitigation. Then in January 2023 the main start of works will commence, which is a 2-year build.</p> <p>JP - Between now and DCO submission, engagement Environment Agency, affected landowners and interested parties who may not be directly affected but have an interest. Parties are welcome to make representation should they wish.</p> <p>MR – Thank you for the letter recently received. We are happy to follow up afterwards with more targeted questions, more details are being developed, the application has high level detail then the detail will follow. Brian is on board; he represents the contractors.</p> <ul style="list-style-type: none"> <li>• There is a junction, as well as the Norwich Western Link coming in, the main driver for this is to keep the connectivity from the B1535 HGV network, back onto the A47.</li> <li>• The existing A47 has many side roads, it is one of the most dangerous roads in the country, the dualling will remove that risk, as traffic will only be able to use the designated junctions.</li> <li>• At the consultation it came out that traffic from the north to the south would be attracted to going through Berrys Lane. Options explored and it was agreed to sever the road to the junction, leaving access via Mattishall Road to the south.</li> </ul> <p>MR – I appreciate you will not be able to go north from Berrys Lane, it will be a quieter location.</p> <ul style="list-style-type: none"> <li>• There is a footpath along north side of the hedgerow, in order to maintain active travel this will be upgraded to a bridleway, with a harder surface.</li> <li>• A large high pressure gas pipeline travels from the river Tudd across a field, under Dereham Road into Easton Estates. Because of the nature of the works there is a need to divert the pipeline as the scheme cannot be built with the pipeline where it is.</li> <li>• The nature of the works and location limit the number of options. A horizontal directional drill will be used, this sends a pipe through underneath the road, a device will be dragged back and forth to drag out the soil, to create the final pipeline. There will be kit will be on both side of the road. There will be construction traffic in and out the side. There are few measures that will have done to counterbalance the disturbance, including trying to make sure the pits and activity are to the north of the field, keeping to the west side of the pipeline works. As many activities as possible will be kept away from your area.</li> </ul> |  |  |
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|  | <ul style="list-style-type: none"> <li>• Storage area will be needed, this will be in the western half and is unavoidable.</li> <li>• The work will have to be carried out in the summer as the ground needs to be in a solid state, which could be in summer 2022, to get it done and out of the way, if not it will be in summer 2023.</li> <li>• National Grid will be in that field for a few months to prepare the ground and restoring the site, the main challenge is that there will be a period of 24-hour activity for a week or more, once the drilling and pipework is in place, because once it has been started cannot be stopped otherwise the kit will get stuck. If goes smoothly they may be quicker, if there are any times that area more suitable then they would be aimed for.</li> <li>• After National Grid have finished their work for the utility diversions, there will be a need for more work in the field as there are BT, electricity and water pipelines which will all need diverting. Until the final design is received, it cannot be confirmed where they can be placed. The bridleway route may be used.</li> <li>• The orange areas will not be a compound or long-term material storage area. Material storage will be over the road. Apart from alignments at the top, the field will be returned as was before, and there will be easement rights to access the utilities.</li> <li>• During the next 18 months more detail will be developed with key parties and recorded in the Environmental Management Plan.</li> <li>• The DCO that is above and beyond a normal planning application that is statutory instrument approved by the Secretary of State and bound by the restrictions that apply.</li> </ul> <p>MR - We are very aware, which has been flagged as more so in this area, is the importance of the good behaviour of our contractors.</p> <p>GY – Thank you. You mention that this no longer regarded as a compound and will not be used for the whole of the construction period. What do you envisage the timeframe for the work? JP – It might be slightly longer for the more discrete activities. Four to six months as a guide for the National Grid work, both schemes need to go through the design stage to firm up the timescales. There are further discreet activities which we have not got the timescales and some utility diversions. National Grid is the largest the rest are trench works for BT and Anglian Water, which are not as extensive as the direction drilling.</p> <p>GY – To be clear, this field will be used for the National Grid activity and another utility's and not the construction site. Our property is a children's home, what consultation did you undertake to this site next to a resident children's home? It is not just a property, we also have statutory things we must do, one of them is under the law is to provide a statutory location assessment, ensuring that the children are safeguarded. The elements are the environmental factors around the property, that we have very traumatised children living in the house, we purposely choose rural locations. The children, come to us with different backgrounds and challenging behaviours, mitigation of risks to the children, what professional advice did you take? JP – There is DCO process to follow,</p> |  |  |
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|  | <p>consultation and engagement this does include questionnaires to people who are affected in the area, we seek to engage with various parties. You may have a farmer who farms may lose his farm, once we ascertain who the affected parties are along the route, we try to mitigate the work. Because statutory process that we must follow, it is about dialogue, it is important to work with you and understand your issues. We do our own assessment which picks up churches, schools, walking, cycling, etc.</p> <p>GY – What I am hearing is that you do this as part of the process, not before. JP – Yes, that is correct.</p> <p>GY - You mentioned about the good behaviours of the construction staff, do you carry out disclosing and barring checks on all the staff working on the site? Are DBS checks done? JP – I would imagine they are, that area will be managed prominently by National grid. I will contact National Grid regarding their vetting process. BH – The National Grid is the 3<sup>rd</sup> party involved, which is not under my control. I will check what we have for staff, when go down the sub-contractor chain will clarify what checks have been done. I can find out and inform James. GY - Thank you.</p> <p>GW – If that pipeline were not there and did not need move, would you use that field? JP - Initially we identified areas to construct the scheme, though the process this was removed from the main works. MR – the utilities and footpath would be needed but discreetly for shorter period.</p> <p>GW – I am asking extreme questions for clarification; the main issue is moving the pipeline. You began to explain what the process will look like, useful for a more disruptive basis for when that happens. When we wrote the letter, we asked what the timeframe was for using the field. It now appears that the most disruptive element is 4/6 months for the pipeline. JP - That is correct for the gas main, there are other discreet utilities that will be diverted. Once gas main is diverted the works apart from the foot path would be reduced.</p> <p>GW - The disruption is this big pipeline moving, I had not understood where the pipe ran, the important thing for us to understand in more detail. About the 24/7 activity, again what are the options? what you have done in the past when encountered similar situations? I would like to understand the options there. JP - We will continue to mitigate the impact possibly with screening around the works, depending on the receptor there are various options, but I am not making promises as need to evaluate. Although it may not be suitable, in some cases we have relocated people. SB – I have previously come across a dementia care home, the company that ran the home moved people around in the busy period to allow us to mitigate the nuisance. How do you operate the service you provide? I presume children come from all over country for care and rehabilitation. Are they there short term/long term? Could we have a summary? RS – There are 8 children in residence, it is their home to live and receive treatment. Most children come for a long period, some for years.</p> <p>SB – You have 8 now, is that the maximum? RS – Yes, no more</p> | <p>JP</p> <p>BH</p> |  |
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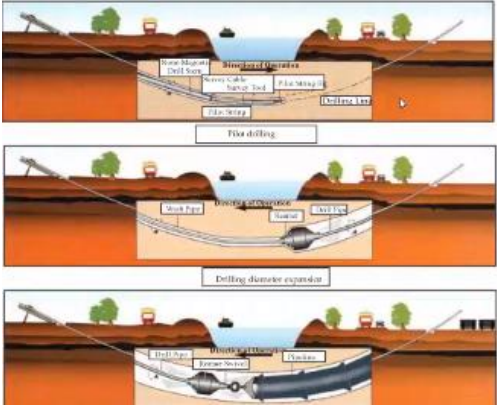
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|  | <p>SB – What age are the children? RS - 11 to 18.</p> <p>SB - Do you have a quieter period? I guess as they live there you do not.<br/>RS – We are full all year round. During the 4/6 months how long will the 24/7 work be and how many people will there be on site? MR – The works could take a week or up to three to four weeks, the drilling machine as must keep moving and I cannot comment on staff numbers. The National grid has not got to that stage yet. Is there period when it would be better? Are the kids schooled there? RS – That is something we will have to think about, some do go to school. I am wondering what level of noise there will be. BH – We will get that information along with duration of times from National Grid. The real issue is the variation of the ground, normally we use a trench, but because of the geometry we will have to go down and under. Which is different to re-routing a pipeline, technology getting better each year. We will find out the gang sizes from National Grid before they come to site. We are still at the early design stage. We will have an engagement meeting with them and get the details to you.</p> <p>SB – Do the children go on holidays/assisted holidays? RS – Normally for a week in August. SB – That could be a potential work around. RS - Hopefully, we all can go. SB – That is a positive possibility, these are options we can discuss. GW – I see where you are going.</p> <p>GW - How loud is this disruption, can we get a sense of this? BH - All plant we have decibel rating. Unfortunately for an operation like this we will have to use a lot of power, the machines are certificated to work in cities, also we dependant on the ground type. We will get the information on the decibel ratings and equate it to something.</p> <p>MR – We need to establish how we will work together going forward; we will get National Grid, talk to you and explain everything. Your points are valid, and we will help you to understand.</p> <p>GW – Where does the noise come from when you are dragging it underground? MR - These are the type of kits that are used for the directional drilling.</p>  | <p>BH</p> <p>BH</p> <p>MR/JP</p> |  |
|--|---|----------------------------------|--|



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|  | <p>GW – It is very important to see a similar presentation from those that know the interruption it will create, the nature and the decibels. In cities is it done 24/7? so there may be some options. MR – One thing we do is look at the environmental background, as the area is quieter than a city the noise will carry. BH – The wind direction will also come in to play. MR – We have done studies and every arrangement is unique. We do not want to give any false impressions; but we want you to give you reassurance that when you get an answer it is definitive.</p> <p>GY – Any information is important, the other element is the location assessment we must submit to Ofsted, that information is important about mitigation of the environmental risk. We have statutory obligation; if the regulator were not happy with our location assessment, they would have a view about it. MR – That is why we want you to have the right information, if you need to know about things, we will get that information to you. If you have any timeframes, then let us know so we can resolve. We will sure that you have the right information. GY – We must complete it annually, for [REDACTED] in January. We are now renewing for this year. MR – The key one is in January next year. Maybe audit evidence trail for the information, to show we are doing everything we can.</p> <p>GW – Gary and I could pick that up separately. About [REDACTED], we have an equivalent at the [REDACTED], with 10 children of primary school age. I did speak to the director this morning, who will give you information for them as well. They will not be impacted as much, but they are part of the picture and you need to be aware of. JP – I appreciate that, any information beneficial. They are not as impacted as you, but as you say we very much need to be aware of. They need to be aware of the road stocked up. Happy to meet collectively or separately. GW – Probably will meet all in one go.</p> <p>GY – In terms of [REDACTED] with the north end being blocked up, will there be construction traffic going up [REDACTED]? JP – I cannot say categorially as we do need to finalise our traffic management plan, will try to access of A47. GY - We have a duty of care, as children might go out into the lane without permission. MR – I agree with James, we cannot confirm now. We are looking at a field entrance further up [REDACTED].</p> <p>GW – What are the takeaways for each side? JP - Certainly, an action is to get back to you on further information for National Grid in terms of the works and traffic plans. I will look to setting up further communications going forward.</p> <p>GW – It is important to get National Grid here, so can we do something about this.</p> <p>SB – For the Ofsted report, we will liaise with you on the factors that they assess, we need to feed into that. These are the details we need to know, action point to work with you and what we need on our assessment report to feed into your assessment report.</p> | <p>JP</p> <p>JP/MR/SB</p> |  |
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|  | <p>GW – We will take that on board. That was helpful, we will be taking away several things and we will come back to you. When did you expect to get the minutes out? JK – I am intending to have them out early to middle of next week.</p> <p>GW – We need to keep the trustees informed.</p> | JK |  |
|  | Meeting closed at 15:24   |    |  |



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Scheme Title: A47 Improvements North Tuddenham to Easton

## Minutes of Meeting

|                         |                                  |   |
|-------------------------|----------------------------------|---|
| <b>Meeting</b>          | Highways England with [REDACTED] |   |
| <b>Venue &amp; Date</b> | TEAMS 03/03/2021 @ 09:30am       |   |
|                         | <b>Name</b>                      | <b>Role</b>   |
| <b>Chairperson</b>      | James Powis (JP)                 | Project Manager – Highways England                          |
| <b>Attendees</b>        | Steven Bratten (SB)              | Valuation Advisor – District Valuation Services             |
|                         | Leonie Owens (LO)                | Stakeholder & Communications Manager (East – Galliford Try) |
|                         | Brian Harrison (BH)              | Senior Project Manager – Galliford Try                      |
|                         | Gary Yexley (GY)                 | Operations Director - Childhood First                       |
|                         | Rachel Sillis (RS)               | Director of Merrywood - Childhood First                     |
|                         | Greg Whelan (GW)                 | Deputy CEO – Childhood First                                |
|                         | Mark Whittaker (MW)              | Senior Project Engineer - National Grid                     |
|                         | Fiona Luckraft (FL)              | Project Manager - National Grid                             |
| <b>Apologies</b>        | None                             |   |
| <b>Distribution</b>     | Full                             |   |

## Minutes

|            |  | Actioned By | Date |
|------------|--|-------------|------|
| <b>1.0</b> | <b>Introductions</b>   |             | -    |
|            | Introductions were made.<br>JP thanked everyone for joining today.   |             |      |
| <b>03.</b> | <b>Minutes of Meeting</b>  |             |      |
|            | <p>JP – This session is for you to speak to National Grid directly.</p> <p>JP – Provided a high-level review.</p> <p>FL – Shared on screen – A47 Diversion [REDACTED] Presentation. We have only just completed the conceptual design for the diversion, our designer is currently looking at the ground investigations. I know there are questions on types of equipment that we will use, visual impact, security, and the noise, the details are not yet available but this conversation will show that we are looking to mitigate this. The National Grid develop these types of schemes; we are now in the design phase, we then appoint framework contractors and we can stipulate what the contractors do. As it is at an early stage, we can incorporate things that would keep you more comfortable as the scheme progresses.</p> <p>FL – You can see [REDACTED] on the satellite picture, the field on the right is where we hope to carry out the directional drill. On the plan, the orange patch is where the pipeline is situated now, from there is the diverted route black/orange line. The contractor will build in this area and the entry point will be on the other side. The noisy kit will be as far away</p> |             |      |



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### Constructive Challenge

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### Trust and Respect

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### Communication and Engagement

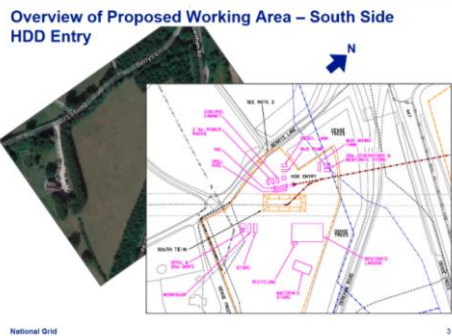
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from yourselves as possible. Is this the kind of information that you will find useful? GW – It is all helpful.



FL – The other point to note is that we intend to access via [REDACTED], they will not be going past yourselves, that is yet to be formally agreed. GY - Is that north down? FL - We will not be using that section of the road. BH – That is coming down from the north and not past that entrance. FL - As JP and BH have explained we will be using a directional drill. We do have a YouTube video.

GW - What is a lagoon, is it a pond? MW – On the left of the picture is shown a lagoon.



GW – Is that full of water? MW- It is muddy water from the drilling, a mixture of bentonite and water. Which we leave to solidify so that it can then be taken away as waste or farmers can use it. FL – Your concerns I expect are around security. GW - Is it like quicksand? MW – Generally it is not that deep, probably about 18/24 inches. You can see on the picture that it is fenced off with Heras fencing. FL – We do have a duty of care to ensure that people are not getting on to the sites and we do follow construction and design regulations. Typically, we do have Heras fencing round and there will be full time security on this site. In the countryside it is usually with one man with a cabin, if there needs to be something more thorough then that would have to be agreed with James, it might be something that we can do.

FL – The main drilling area was shown on the plan, the main site offices will be on the North side of A47. We have not yet done a full detailed design and reviewed the ground investigations. We expect to be on site



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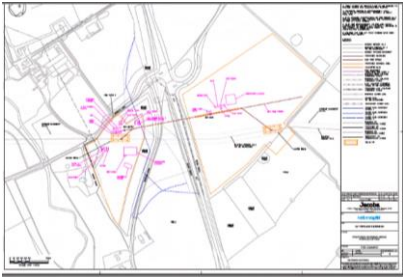
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|  | <p>for six months and drilling for three months. MW – For the first couple of weeks we will be setting the site up; preparing the lagoon, bringing in the rig, control and stores areas. There will be large generators which also power the control room. In the picture, a pit about a meter deep was created, the pilot drill is first, which gives a six-inch hole, gives a u-shape, with entry and exit points. All of this is done by GPS, when you have the pilot hole in, a mud return line can then be installed and then the cutting equipment is put on. The bentonite helps to keep hole open and to pull the pipe through. FL – This will be 24 hours working and there will be a humming noise associated with it. MW - Starting with a 6 inch and then we will fit different sizes of cuttings. This constantly goes back and forth, as the boring takes place the bentonite helps keep the hole stabilised and acts as a lubricant for the drilling equipment, also as a cutting fluid. The mud from the return line comes through bentonite tanks, which is a mud recycler / mud shaker. It will drop solids though it into a catchment area, which is shoveled up by an excavator and a lorry will remove this (periodically depending on ground conditions and how much needs to be removed). The remaining bentonite and liquid get recycled through to help as a lubricant, any excess goes into the lagoon and gets taken away as separate waste or farmers use it.</p> <p>GW – There are two ends to this bore hole, do you have the same equipment at both ends? MW - This is the heavier end, with more noise and more equipment. This diversion is about 400 meters and the pipe must be strung out. Once the boring has finished, for my example when we got up to the 46 inches, the pipe was welded up in situ, when the cutter is taken back for the last time, (the rods that are still sitting on front of it with huge hook system), a piece of pipe was welded to the front and it was pulled through in one go. It must be done in one go, if not the open hole that will have bentonite, which is the lubrication, would start to collapse.</p>  <p>GW - I was not sure if the equipment is symmetrical on both sites. The generators make the noise and some aspect of the drilling. I am only interested in the noisy equipment. You can have the silent equipment anywhere. I am wondering how this would look if all the noisy equipment was put on the other side of the road. MW – There will be some generators etc. on the other side, the overriding factor is needing enough room.</p> <p>GW – Is the pulling of the pipes the noisy bit? The drilling can happen in any direction. JP – It cannot physically be pulled through on the south</p> |  |  |
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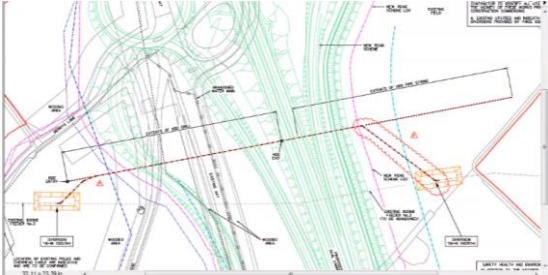

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|  | <p>side. GW – I am fine with that. FL - Overall there will be slightly more noise on the south side, there will not be much difference just machinery and vehicles moving around. Both sides have construction activities.</p> <p>GW – In your diagram there is a faint carriageway double line running across the page, is that where the pipeline is? FL – Yes, we will take it down for a short period of a few weeks, for the tie ins.</p> <p>GW – Why are you having to do this? BH – The existing gas main is too close to the levels of new road, we cannot safety protect the existing one, that is why it must be deeper. GW – We received a letter we got the other day, the diagram on it is not consistent with what you are showing. FL - We can send these drawings through, the new A47 is in a slight cutting and we must make it a stronger pipeline under the A47. BH – The existing pipeline was never built for a road to go over the top of it, it was across a rural lane. The rational for going to the north is to give me the angle so I can build the cutting.</p> <div style="text-align: center;">  <br/>  </div> <p>FL – There are different types of equipment, I have been speaking to James and Brian about noise screening and bunds, as there are different ways of mitigating noise. This slide is to help you understand what the noise levels are like.</p> |  |  |
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**Typical Site Equipment / Noise Levels without Mitigation**

| Equipment                            | Running Time | Duration   | Db at 15m | Db at 100m* |
|--------------------------------------|--------------|------------|-----------|-------------|
| Dampened Site Generators             | 100%         | Mar - Oct  | 75        | 57          |
| Excavators                           | Day Time     | Ad-Hoc     | 80-85     | 64-69       |
| Drilling Rig                         | 100%         | May - Aug  | 80-84     | 64-68       |
| Pumps                                | 100%         | May - Aug  | 77-81     | 61-65       |
| Mud Mixer Shaker                     | Ad-Hoc       | May - Aug  | 85        | 69          |
| Sheet Pile Driver Installation (TBC) | TBC          | Mar - May  | 90-101    | 74-85       |
| Welding & Blasting                   | Ad-Hoc       | Mar - June | 74-85     | 56-69       |
| Reversing Siren                      | Ad-Hoc       | Mar - Oct  | 83-85     | 67-69       |
| <b>For Comparison</b>                |              |            |           |             |
| Tractor                              |              |            | 84        | 68          |
| Tram Traffic                         |              |            | 75        | 58          |
| Jack Hammer                          |              |            | 88        | 72          |

**Example Db**

\* Noise reduction dependant on many factors, wind, weather etc. - The above is a guide only  
National Grid

FL – We will be using generators 100% of the time, quiet generators are about 75 decibels. When you are about 100 meters away it comes down to about 57 decibels, you should hear something more like traffic in the background. If you have gone past construction sites there are excavators rumbling about, they are not going to be working all the time. During the site set up phase and they will be used during the day and not at night, they are used less during the drilling. From about 100 meters away it will be about 69 decibels, the drilling rig is about the same noise. The mud mixer is probably the noisiest thing on the site. MW – It is only on when there is enough mud to come through, it is shaken through and then turned off again, should not be a concern as it will be only a few times a day. FL – The sheet piles when they go in can be noisy, standing right next to these it can be 100 /120 decibels, at the moment we have not determined that we need a sheet pile pit. The welding and blasting will be on the north side, there also will be reversing sirens which most large machines have. The main bit of the drilling run will be very ad hoc. GW - We were lead to believe that the real noise would be the bore drilling of the hole and that has the potential not to last a long while, want to check where is that in the diagram. FL – The drilling rig. GW – It appears to last for four months. FL – That is what we have put on there but we have not analyzed the ground conditions. I do not want to give you the impression that it will be done quicker as things can go wrong.

GW – Will there be a drilling rig at both ends? MW – At one end.

GW – It is an alternative to be at the south end? FL – It is the length of the work string, there would not be enough room. GY – It has to be constructed in one piece. GW - Pulling the pipe through is not the noise, it the drilling the hole. GY – If the south is noisier than the north, can the south side noise go to the north side. That cannot happen because of the way that the pipe must be pulled through and put together in one piece. BH - The rig that does the drilling will also be the pulling rig. MW - Looking at the google image from an acoustic point of view, there is a tree line which is about 10/20 meters. BH – They are mature trees there. FL – And there is a foot path to put in Heras fencing, the mitigation could take it down 40 decibels. GW – I was not understanding that the rig was drilling was also the pulling rig.

MW – For the DCO I presume that there will be some baseline monitoring assessments. BH – James will we have receptors? JP – As part of the



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|  | <p>DCO this diversion may or may not be in advance of the DCO. Yes, we will as part of environmental statement. FL – We can do noise modelling. On the list for comparison, I have added tractors.</p> <p><b>Mitigation Noise / Dust</b></p> <p>Diversion Design is only in the early stages – further details will be developed over the next 6 months to include requirements such as the below.</p> <ul style="list-style-type: none"> <li>• Equipment Choice / Requirement to Quiet operation to be included in Tender packs</li> <li>• Equipment Location – Noisy Equipment to be sited away from occupied premises</li> <li>• Screening / Bunding – Many options available if considered necessary</li> <li>• Dust Suppression as necessary</li> <li>• Road Sweepers / Wheel wash facilities as necessary</li> </ul> <p>National Grid</p>  <p>FL - At the moment the proposal is to do this work next summer, there are reasons that this might not happen. It could be summer 2023 but we are looking to move forward in summer 2022. We can specify about the equipment to be used, we are trying to put the equipment far away from you, use screening and bunding. If there is dust in the summer, we would dampen everything down.</p> <p>GY – This is in relation to the noise, you helpfully told us how long this will last. The last time we met there was a question about the phase, that the drill has to go for 24 hours a day. Do you have a sense of how long this will be for? FL – Once the designers have reviewed the GI, we can provide you with an update then. The noise will more of a rumbling in the background, it is noted that we will look at ways to get in and get out.</p> <p><b>Further Areas of Consideration</b></p> <p><b>Increased Traffic</b></p> <ul style="list-style-type: none"> <li>- Greatest at Site Set up / De-mobilisation</li> <li>- During Drilling Works due to removal of Excavated Materials</li> <li>- Traffic Management Plan to be put in place – No use of Berry Lane to the East</li> </ul> <p><b>Visual Impact</b></p> <ul style="list-style-type: none"> <li>- Diversion works do not require removal of vegetation other than slight removal at site entrance</li> </ul> <p><b>Site Security / Local Liaison / Contacts during works</b></p> <ul style="list-style-type: none"> <li>- Full time site security to be in place, nature of to be confirmed</li> <li>- Full site Heras fencing could be installed if considered necessary.</li> <li>- Details of other requirements to be included in Main Works Contractor Tender documentation to ensure compliance</li> </ul> <p>National Grid</p> <p>FL - We have talked about traffic; we will not be going past you. As Mark pointed out there is some vegetation between us, and it is not proposed to remove it, although we will be removing some vegetation at the site entrance. For the site security there is Heras fencing and anything we agree with Highways England we can add in the tender.</p> <p>GW – I have put March to October, can I check which year? FL – Next year at the moment. BH - If we go next year that would prior to DCO, which we could do that in agreement. Ideally, I would like it in before starting the works. If it slips to 2023 then we would have to plan around it, the position of the gas main as I explained creates a bottleneck for me. Once we get the GI and more detail that will feed into the options.</p> |  |  |
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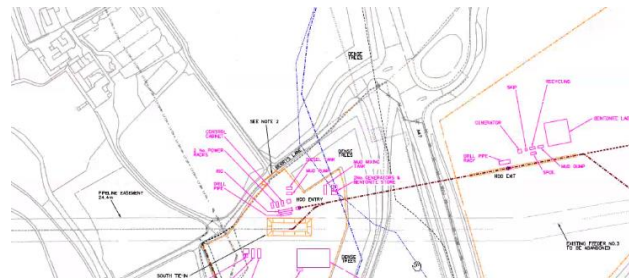


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GW – When the dust settles would [redacted] will be shut off as a through road? Does any of this start advancing that? For access to site from A47 end. Would that enable closure of that road earlier? JP - The gas main diversion itself would not enable the closure, what we do need to look at with the GI, is the phasing of when that closure takes place. We will start with the offline elements first, however if there is a strong flavour for closing [redacted]. Then I can speak to NCC and look at the Traffic Management. I will work with BH and NCC to look at the phasing. I do not have that detail now, once through the detail design will look at what the opportunities are. GW - The thought in my head is that work on the pipe is first, then all the traffic equipment will arrive, so there no need for any of construction work to come down the other side of [redacted]. The road will be busy, is there any point of having through traffic as well, as the temporary construction for 6 months, this would reduce the hazards and speaking for ourselves, you do not need to keep the lane open.

JP



GW - There is traffic entitled to go through [redacted], we would not miss it if it stopped. JP – I will take that on board at present cannot think of any stumbling blocks. GW - It may be a safety point to be taken if you



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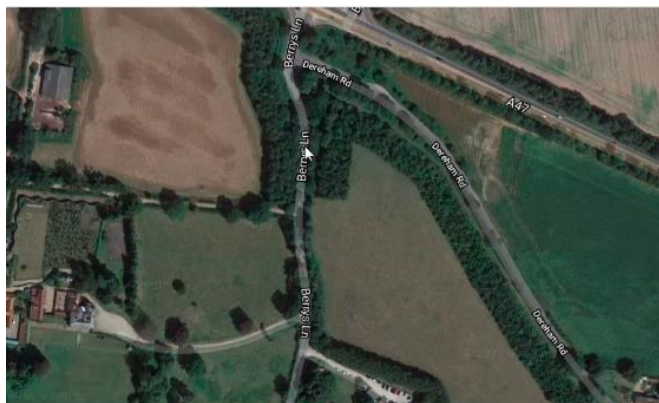
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disassociated the two projects. For the pipework temporary closure, reduces the temptation of a lorry using [redacted]. JP – There are things that can be done.

GW - Where would you think of putting access to the site?



It was showed on the map below which will be stopped up.



JP – Gary and Rachel are there anything else you want to ask?

GY – Thank you to Fiona and Mark for that, the presentation was informative and helpful. It has answered a lot of questions and around the time frames. There is still the question around the 24-hour working and how that will be. Certainly, from our point of view identify the main things that we were concerned about such as the traffic, noise, dust and the security. We are running a therapeutic children’s home, our interest here is it is the safety and security as we do have a duty of care. The importance us for us all to register about the site security and safety for us and the people working on site. Anything that you can do, the mitigations you have talked about today to increase the levels of safety and mitigate around the noise, we will appreciate. There are things that can be done before work commences and once it starts Rachel and her team are in Norfolk, can there be ongoing considerations - additional measures. The other thing is the 24 hours work, if it became very difficult and mitigation were not working, we would have to think about relocating in some way, we cannot relocate the children’s home but there are ways that we can take the children away on holiday. RS – It links to your points I will manage things locally and identifying a point of contact, keep in communication if there are any issues. BH – My phone is on 24 hours a day, if you have an issue phone me. You will have a number to speak to someone, especially if working on a 24-hour basis. It works two way; we



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|  | <p>both need to legally protect both parties. As Fiona said we can put up in additional security and additional fencing, you could have double barrier – sound barrier and another layer and security gating systems. On another scheme we had an air lock system. MW - I do the pipeline diversion relating to HS2 works, you probably have seen in the press people of trying to stop HS2, there are a lot of things that can be done. Like BH said from a legal aspect we do a very stringent job. BH - I will be building a road in your vicinity, if we have two-way communication now it will be via phone call, and hopefully we can meet face to face.</p> <p>SB - Can we have a list of contact numbers for both parties? JP - For now take my contact details when in construction phase will have Liaison Officer in place. For now, its James as a point of contact. BH - Once we have a program the list will increase.</p> <p>GW - GY can we pick up after the call. Are we happy with what we have discovered this time? GY – Yes GW – What is the next step?</p> <p>JP – The detail design needs to commence, that will take place over the coming months, there will be engagement for Tuddenham scheme DCO application. In terms of terms of the diversion we will return to you with proposals and suggestions. Over the next few months there is the DCO, then we will look at mitigation.</p> |  |  |
|  | <p>Meeting closed at 10:40am</p>   |  |  |



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