

Version Control

[illegible]

Receptor Value Criteria

Value / Importance	Receptor Class				
	Surface Water Resources	Groundwater Resources	Hydromorphology	Water Quality	Flooding & Drainage
High	A surface water feature that has one or more of the following properties: a) is part of an important, sensitive & protected water-dependent ecosystem with international, European and national designations (Ramsar, SAC, SPA, SSSI, NNR) b) is part of a surface water body that has a WFD status of 'High' for the hydrological regime c) is a licensed or unlicensed surface water abstraction site used for water supply or agriculture	Is a section of aquifer or groundwater feature that has one or more of the following properties: a) is part of an important, sensitive & protected groundwater-dependent ecosystem with International, European and National designations (Ramsar, SAC, SPA, SSSI and NNR) b) is part of a groundwater WFD body that has a WFD status of 'Good' for the quantitative status c) is entirely or partially within a SPZ1 or inner source protection buffer zone of a public water supply d) is a licensed or unlicensed groundwater abstraction site used for water supply or agriculture	A surface water feature that has one or more of the following properties: a) is part of an important, sensitive and protected ecosystem sensitive to hydromorphological changes with International, European and National designations (GCR, SSSI, SAC, Ramsar, SPA) b) is part of a surface water body that has a WFD status of 'High' for the hydromorphological supporting elements or the morphology status	A surface water feature that has one or more of the following properties: a) is part of an important, sensitive and protected ecosystem sensitive to water quality changes with International, European and National designations (GCR, SSSI, SAC, Ramsar, SPA) b) is a surface water feature that has 'High' or 'Good' current WFD physico-chemical quality elements status c) is a licensed or unlicensed surface water abstraction site used for water supply or agriculture A section of aquifer or groundwater feature that has one or more of the following properties: a) is a principal aquifer or secondary A aquifer with 'Good' current WFD chemical status b) is entirely or partially within the modelled 'Inner' source protection zone (SPZ1) of a public water supply c) is a licensed or unlicensed groundwater abstraction site used for water supply or agriculture or is located within a SPZ1 intersecting the Proposed Project	Is a surface water feature or an area that is either part of: a) an Environment Agency Flood Zone 3 (rivers and seas) b) a zone at risk of groundwater flooding c) a zone at 'High' risk of surface water flooding Or is a water feature with high sensitivity to flooding and drainage changes, such as: a) Internal Drainage Board Areas or Critical Drainage Areas b) Main Rivers, Critical Drainage Infrastructure, Flood Defences or Flood Alleviation Schemes c) Highly and More Vulnerable Land Uses
Medium	A surface water feature that has one or more of the following properties: a) is part of a sensitive & protected water-dependent ecosystems with regional or local importance (LNR) b) is part of a surface water body that has a WFD status of 'Supports Good' for the hydrological regime c) is a licensed or unlicensed surface water abstraction site used for amenity activities, production of energy or environmental purposes	Is a section of aquifer or groundwater feature that has one or more of the following properties: a) is part of a sensitive & protected groundwater dependent ecosystem, with regional or county level designations or local ecological importance (LNR) b) is entirely or partially within the modelled 'outer' source protection zone (SPZ2) of a public water supply or the modelled 'Total Catchment' source protection zone (SPZ3) of a public water supply c) is a licensed or unlicensed groundwater abstraction site used for amenity activities, production of energy or environmental purposes	A surface water feature that has one or more of the following properties: a) is part of an important, sensitive and protected ecosystem sensitive to hydromorphological changes with regional and local designations (RIGS, Local Geological Site). b) is part of a surface water body that has a WFD status of 'Supports Good' for the hydromorphological supporting elements or the morphology status	A surface water feature that has one or more of the following properties: a) is part of an important, sensitive and protected ecosystem sensitive to water quality changes with regional and local designations (LNR) b) is a surface water feature that has 'Moderate' current WFD physico-chemical quality elements status c) is a licensed or unlicensed surface water abstraction site used for amenity activities, production of energy or environmental purposes A section of aquifer or groundwater feature that has one or more of the following properties: a) is a secondary B aquifer with 'Good' current WFD chemical status b) is a principal or secondary A aquifer with 'Poor' current WFD chemical status c) is entirely or partially within the modelled 'outer' source protection zone (SPZ2) of a public water supply or the modelled 'Total Catchment' of a source protection zone (SPZ3) of a public water supply d) is a licensed or unlicensed groundwater abstraction site used for amenity activities, production of energy or environmental purposes or is located within a SPZ2 or SPZ3 intersecting the Proposed Project	Is a surface water feature or an area that is either part of: a) an Environment Agency Flood Zone 2 (rivers and seas) c) a zone of 'Medium' risk of surface water flooding Or is a water feature with moderate sensitivity and importance to flooding and drainage changes, such as: a) Ordinary Watercourses (i.e. non-Main Rivers), Non-critical drainage infrastructure and Less Vulnerable Land Uses b) Regional surface water drainage networks
Low	A surface water feature that has one or more of the following properties: a) is part of a surface waterbody that has a WFD status of 'Does not Support Good' for the hydrological regime b) is a licensed or unlicensed surface water abstraction site used for other purposes but water supply, agriculture, production of energy, amenity activities or environmental purposes	Is a section of aquifer that has one or more of the following properties: a) is part of a groundwater WFD body that has a WFD status of 'Poor' or 'Bad' for the quantitative status b) is a licensed or unlicensed groundwater abstraction site used for other purposes but water supply, agriculture, production of energy, amenity activities or environmental purposes	A surface water feature that has one or more of the following properties: a) is part of a surface water body that has a WFD status of 'Does not Support Good' for the hydromorphological supporting elements or the morphology status b) has a hydromorphological-designation of 'Heavily Modified' under WFD	A surface water feature that has one or more of the following properties: a) is a licensed or unlicensed surface water abstraction site used for other purposes but water supply, agriculture, production of energy, amenity activities or environmental purposes A section of aquifer or groundwater feature that has the following property: a) is a secondary undifferentiated aquifer with 'Good' current WFD chemical status b) is a secondary B or secondary undifferentiated aquifer with 'Poor' current WFD chemical status c) is a licensed or unlicensed groundwater abstraction site used for other purposes but water supply, agriculture, production of energy, amenity activities or environmental purposes	Is an area that is either part of: a) An area outside Environment Agency Flood Zones 2 and 3 (rivers and seas) b) Is an area outside a zone at risk of groundwater flooding c) Has a 'Low' risk of surface water flooding Or is a water feature with limited sensitivity or importance to flooding and drainage changes, such as: a) Water-compatible land uses b) Local surface water drainage networks
Very Low	None of the above	None of the above	None of the above	A surface water feature that has the following property: None of the above A section of aquifer or groundwater feature that has the following property: a) is an aquifer classified as unproductive b) none of the above	Not applicable
Uncertain	No available information on status	No available information on status	No available information on status	No available information on status	No available information on status

Source: <http://environment.data.gov.uk/catchment-planning/help#help-status-classes-surface-water>

VIP Peak District (East) Project
EAR Chapter 9 (Water Resources)

Impact Magnitude Criteria

Magnitude	Definitions
High	The proposals could result in a significant change in terms of surface water resources, groundwater resources, hydromorphology, water quality or flooding and drainage which will cause irreversible or long term (over 10 years) changes to the receptor.
Medium	The proposals could result in moderate changes to surface water resources, groundwater resources, hydromorphology, water quality or flooding and drainage which will recover over a medium period of time (5–10 years).
Low	A slight change where the proposals could occasionally cause minor surface water resources, groundwater resources, hydromorphology, water quality or flooding and drainage change in the short term (1–5 years).
Very Low	No effect detectable.
Beneficial	Change is likely to beneficially impact on surface water resources, groundwater resources, hydromorphology, water quality or flooding and drainage.

Impact Significance Criteria

Sensitivity / value of receptor	Magnitude of impact			
	High	Medium	Low	Very Low
High	Major	Major	Moderate	Minor
Medium	Major	Moderate	Minor	Negligible
Low	Moderate	Minor	Negligible	Negligible
Very Low	Minor	Negligible	Negligible	Negligible

Potential Receptors and Value Assignment

Last updated 30/04/2019

Receptor Class													
Surface Water Resources		Groundwater Resources		Hydromorphology		Water Quality		Flooding & Drainage		Retain for further assessment? Yes/No	Justifications		
No.	Receptor Name	Value Class	Justification	Value Class	Justification	Value Class	Justification	Value Class	Justification	Value Class	Justification		
Project Wide													
1	River Don part of the Don from Source to Scout Dyke WFD river catchment water body	Medium	The hydrological regime status is 'Supports Good' (2014 WFD data)		Not applicable	Medium	The hydromorphological supporting elements status is 'Supports Good' (2014 WFD data)	High	Physico-chemical quality elements status is Good (2016 WFD data)	High	within FZ2 and FZ3	Yes	The river passes through the Proposed Project
2	Sledbrook Dike, tributary of River Don part of the Don from Source to Scout Dyke WFD river catchment water body	Medium	The hydrological regime status is 'Supports Good' (2014 WFD data)		Not applicable	Medium	The hydromorphological supporting elements status is 'Supports Good' (2014 WFD data)	High	Physico-chemical quality elements status is Good (2016 WFD data)	High	Within a zone at 'High' risk of surface water flooding	Yes	The watercourse is located outside the Study Area but is potentially down groundwater gradient
3	Long Grain, tributary of River Don part of the Don from Source to Scout Dyke WFD river catchment water body	Medium	The hydrological regime status is 'Supports Good' (2014 WFD data)		Not applicable	Medium	The hydromorphological supporting elements status is 'Supports Good' (2014 WFD data)	High	Physico-chemical quality elements status is Good (2016 WFD data)	High	Within a zone at 'High' risk of surface water flooding	Yes	The watercourse is within the Study Area
4	Wogden Foot, tributary of River Don part of the Don from Source to Scout Dyke WFD river catchment water body	Medium	The hydrological regime status is 'Supports Good' (2014 WFD data)		Not applicable	Medium	The hydromorphological supporting elements status is 'Supports Good' (2014 WFD data)	High	Physico-chemical quality elements status is Good (2016 WFD data)	High	Within a zone at 'High' risk of surface water flooding	Yes	The watercourse is within the Study Area
5	Wogden Dike, tributary of River Don part of the Don from Source to Scout Dyke WFD river catchment water body	Medium	The hydrological regime status is 'Supports Good' (2014 WFD data)		Not applicable	Medium	The hydromorphological supporting elements status is 'Supports Good' (2014 WFD data)	High	Physico-chemical quality elements status is Good (2016 WFD data)	High	Within a zone at 'High' risk of surface water flooding	Yes	The watercourse is located outside the Study Area but is potentially down groundwater gradient from west end of site boundary
6	Wagden Clough, tributary of River Don part of the Don from Source to Scout Dyke WFD river catchment water body	Medium	The hydrological regime status is 'Supports Good' (2014 WFD data)		Not applicable	Medium	The hydromorphological supporting elements status is 'Supports Good' (2014 WFD data)	High	Physico-chemical quality elements status is Good (2016 WFD data)	High	Within a zone at 'High' risk of surface water flooding	Yes	The watercourse is located outside the Study Area but is potentially down groundwater gradient from west end of site boundary
7	Smalden Clough brook, tributary of River Don part of the Don from Source to Scout Dyke WFD river catchment water body	Medium	The hydrological regime status is 'Supports Good' (2014 WFD data)		Not applicable	Medium	The hydromorphological supporting elements status is 'Supports Good' (2014 WFD data)	High	Physico-chemical quality elements status is Good (2016 WFD data)	High	Within a zone at 'High' risk of surface water flooding	Yes	The watercourse is within the Study Area but partially culverted
8	Unnamed tributary of River Don flowing parallel to Smalden Clough, part of the Don from Source to Scout Dyke WFD river catchment water body	Medium	The hydrological regime status is 'Supports Good' (2014 WFD data)		Not applicable	Medium	The hydromorphological supporting elements status is 'Supports Good' (2014 WFD data)	High	Physico-chemical quality elements status is Good (2016 WFD data)	High	Within a zone at 'High' risk of surface water flooding	Yes	The watercourse is within the Study Area
9	Short Grain, tributary of Long Grain, a tributary of River Don part of the Don from Source to Scout Dyke WFD river catchment water body	Medium	The hydrological regime status is 'Supports Good' (2014 WFD data)		Not applicable	Medium	The hydromorphological supporting elements status is 'Supports Good' (2014 WFD data)	High	Physico-chemical quality elements status is Good (2016 WFD data)	High	Within a zone at 'High' risk of surface water flooding	Yes	The watercourse is within the Study Area
10	Clough Beck, tributary of River Don part of the Don from Source to Scout Dyke WFD river catchment water body	Medium	The hydrological regime status is 'Supports Good' (2014 WFD data)		Not applicable	Medium	The hydromorphological supporting elements status is 'Supports Good' (2014 WFD data)	High	Physico-chemical quality elements status is Good (2016 WFD data)	High	Within a zone at 'High' risk of surface water flooding	Yes	The watercourse is within the Study Area
11	Town Brook, tributary of River Don part of the Don from Source to Scout Dyke WFD river catchment water body	Medium	The hydrological regime status is 'Supports Good' (2014 WFD data)		Not applicable	Medium	The hydromorphological supporting elements status is 'Supports Good' (2014 WFD data)	High	Physico-chemical quality elements status is Good (2016 WFD data)	High	Within a zone at 'High' risk of surface water flooding	Yes	The watercourse is within the Study Area
12	Drains, tributaries of River Don part of the Don from Source to Scout Dyke WFD river catchment water body	Medium	The hydrological regime status is 'Supports Good' (2014 WFD data)		Not applicable	Medium	The hydromorphological supporting elements status is 'Supports Good' (2014 WFD data)	High	Physico-chemical quality elements status is Good (2016 WFD data)	Low	Part of local surface water drainage network	Yes	Located within the Study Area
13	Waterfall along the Trans Pennine Trail	Low	Initially Uncertain but upgraded to Low as known to be of local importance (recreational function)		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially uncertain but upgraded to Low as part of the surface water drainage network	Yes	Located within the Study Area along the TPT
14	Unmapped field drains	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Part of the local drainage network	Yes	Field drains located within the Study Area
15	Sinks	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	7no. sinks are located within the Study Area
16	Issues	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	9no. issues are located within the Study Area
17	Springs	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	1no. spring is located within the Study Area
18	Grains/grougths (a natural channel or fissure in a peat moor)	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Located within the Study Area
19	Pond at Rolly Home (X=417,554; Y=402574)	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Located within the Study Area
20	Pond at Castle Hill (X=417,787; Y=402,886)	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Located within the Study Area
21	Pond South of Winscar Reservoir (X=415,689; Y=402,379)	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Located within the Study Area
22	Pond 1 near Woodhead Tunnels (disused) (X=415,517; Y=402,281)	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Located within the Study Area
23	Pond 1 near Woodhead Tunnels (disused) (X=415,494; Y=402,255)	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Located within the Study Area
24	Pond at Townhead (X=416,663; Y=402,767)	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Located down topographic gradient of Study Area
25	Pond 1 at Dunford Bridge (X=415,736; Y=402,253)	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Located within the Study Area
26	Pond 2 at Dunford Bridge (X=415,723; Y=402,241)	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Located within the Study Area
27	Pond 3 at Dunford Bridge (X=415,770; Y=402,261)	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Located within the Study Area
28	Pond along Smalden Clough (X=415,136; Y=401,845)	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Located within the Study Area
29	Pond at confluence between Wogden Foot and River Don (X=418,374; Y=402,747)	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Located within the Study Area
30	Winscar Reservoir	High	Is a licensed or unlicensed surface water abstraction site used for water supply or agriculture		Not applicable		Not applicable	High	Is a licensed or unlicensed surface water abstraction site used for water supply or agriculture		Not applicable	Yes	This reservoir is used for water supply and is located 75m outside the proposed site area; potentially down groundwater gradient of southwestern corner of Study Area
31	Upper Windleden Reservoir	High	Is a licensed or unlicensed surface water abstraction site used for water supply or agriculture		Not applicable		Not applicable	High	Is a licensed or unlicensed surface water abstraction site used for water supply or agriculture		Not applicable	No	Although being used for water supply, this reservoir is located 500m outside the Study Area and up-gradient.
32	Lower Windleden Reservoir	High	Is a licensed or unlicensed surface water abstraction site used for water supply or agriculture		Not applicable		Not applicable	High	Is a licensed or unlicensed surface water abstraction site used for water supply or agriculture		Not applicable	Yes	This reservoir is used for water supply and is located 15m outside the Study Area; potentially down groundwater gradient of southwester corner of Study Area
33	Snalsden and Harden Clough Reservoir	High	Is a licensed or unlicensed surface water abstraction site used for water supply or agriculture		Not applicable		Not applicable	High	Is a licensed or unlicensed surface water abstraction site used for water supply or agriculture		Not applicable	No	Although being used for water supply, this reservoir is located 1250m outside the Study Area and up-gradient
34	Layers of peat (6 no.)	Medium	Initially Uncertain but upgraded to Medium as peats can be considered to be part of a sensitive & protected water-dependent ecosystems with regional or local importance (LNR).	Medium	Initially Uncertain but upgraded to Medium as peats can be considered to be part of a sensitive & protected groundwater-dependent ecosystems with regional or local importance (LNR).		Not applicable	Very Low	Initially Uncertain but upgraded to Negligible as peats are not directly linked to water quality		Not applicable	Yes	6 layers of peat are located within 600m of the Study Area. Peats are linked to the local hydrology and hydrogeology as peats are formed on water-logged soils
35	Wogden Foot Local Wildlife Site	Very Low	Of local importance but designated due to the birds ecology	Very Low	Of local importance but designated due to the birds ecology	Very Low	Of local importance but designated due to the birds ecology	Very Low	Of local importance but designated due to the birds ecology	Very Low	Of local importance but designated due to the birds ecology	No	Previously designated due to the presence of birds and insects
36	Peak District Moors (South Pennine Moors Phase 1) SPA	Very Low	Designated due to the birds ecology	Very Low	Designated due to the birds ecology	Very Low	Designated due to the birds ecology	Very Low	Designated due to the birds ecology	Very Low	Designated due to the birds ecology	No	Designated due to the birds ecology
37	South Pennine Moors SAC	High	Presence of Northern Atlantic wet heaths with Erica tetralix, European dry heaths, blanket bog, transition mires and quaking bogs	High	Presence of Northern Atlantic wet heaths with Erica tetralix, European dry heaths, blanket bog, transition mires and quaking bogs	Very Low	Peats and moors are not directly dependent to hydromorphology	Very Low	Peats and moors are not directly dependent to water quality		Not applicable	Yes	Presence of Northern Atlantic wet heaths with Erica tetralix, European dry heaths, blanket bog, transition mires and quaking bogs
38	Dark Peak SSSI	High	Presence of blanket mire and peat and wet and dry heaths	High	Presence of blanket mire and peat and wet and dry heaths	Very Low	Peats and moors are not directly dependent to hydromorphology	Very Low	Peats and moors are not directly dependent to water quality		Not applicable	Yes	Presence of blanket mire and peat and wet and dry heaths; located within Study Area
39	2/27/05/026 (3 no.) surface water abstraction	High	Public water supply		Not applicable		Not applicable	High	Public water supply		Not applicable	Yes	One of the abstractions is located just 15 m from the Study Area and reservoir from which it abstracts
40	2/27/10/090(S) (2 no.) surface water abstraction	High	Used for industrial, commercial and public services purposes		Not applicable		Not applicable	High	Used for industrial, commercial and public services purposes		Not applicable	Yes	Potentially down groundwater gradient
41	NE/027/0005/006 surface water abstraction	Medium	Production of Energy		Not applicable		Not applicable	Medium	Production of Energy		Not applicable	Yes	River Don abstraction site located 1500m downstream the Study Area and within River Don catchment
42	NE/027/0005/007 surface water abstraction	Medium	Production of Energy		Not applicable		Not applicable	Medium	Production of Energy		Not applicable	Yes	River Don abstraction site located 1000m downstream the Study Area and within River Don catchment
43	Don & Rother Millstone Grit & Coal Measures WFD groundwater body (Secondary A bedrock and superficial aquifer)		Not applicable	High	The quantitative status is 'Good' (2015 WFD data)		Not applicable	Medium	Is a secondary A aquifer with a 'Poor' WFD Chemical Status		Not applicable	Yes	The groundwater body is within the Study Area
44	Wells		Not applicable	Low	Initially Negligible but upgraded to Low as located within the Study Area but have no abstraction records		Not applicable	Low	Initially Negligible but upgraded to Low as located within the Study Area but have no abstraction records		Not applicable	Yes	4no. wells are located within the Study Area and one just 50 m outside; 3 others are upstream but within 500 m
45	Boreholes		Not applicable	Low	Initially Negligible but upgraded to Low as located within the Study Area but have no abstraction records		Not applicable	Low	Initially Negligible but upgraded to Low as located within the Study Area but have no abstraction records		Not applicable	Yes	4no. boreholes are located within the Study Area and many more downstream; others are upstream but within 500 m
46	2/27/10/090(G) groundwater abstraction		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Yes	Potentially down groundwater gradient
47	2/27/10/091 groundwater abstraction		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Yes	Potentially down groundwater gradient

48	NE/027/0005/001 groundwater abstraction		Not applicable	Medium	Use for environmental purposes		Not applicable	Medium	Use for environmental purposes		Not applicable	Yes	Located down-gradient compared to the project and within River Don catchment
49	NE/027/0005/008 groundwater abstraction		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Yes	Located down-gradient compared to the project and within River Don catchment
50	NE/027/0005/010 groundwater abstraction		Not applicable	High	Use for water supply		Not applicable	High	Use for water supply		Not applicable	Yes	Located down-gradient compared to the project and within River Don catchment
51	NE/027/0005/016 groundwater abstraction		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Yes	Potentially down groundwater gradient
Trans Pennine Trail Diversion													
1	River Don part of the Don from Source to Scout Dyke WFD river catchment water body	Medium	The hydrological regime status is 'Supports Good' (2014 WFD data)		Not applicable	Medium	The hydromorphological supporting elements status is 'Supports Good' (2014 WFD data)	High	Physico-chemical quality elements status is Good (2016 WFD data)	High	within FZ2 and FZ3	Yes	The river passes through this element of the Proposed Project and runs parallel for much of its length
10	Clough Beck, tributary of River Don part of the Don from Source to Scout Dyke WFD river catchment water body	Medium	The hydrological regime status is 'Supports Good' (2014 WFD data)		Not applicable	Medium	The hydromorphological supporting elements status is 'Supports Good' (2014 WFD data)	High	Physico-chemical quality elements status is Good (2016 WFD data)	High	Within a zone at 'High' risk of surface water flooding	Yes	The watercourse is in close proximity to the western end of this element of the Proposed Project also separated by the River Don
12	Drains, tributaries of River Don part of the Don from Source to Scout Dyke WFD river catchment water body	Medium	The hydrological regime status is 'Supports Good' (2014 WFD data)		Not applicable	Medium	The hydromorphological supporting elements status is 'Supports Good' (2014 WFD data)	High	Physico-chemical quality elements status is Good (2016 WFD data)	Low	Part of local surface water drainage network	Yes	Present along the length of this element of the Proposed Project and crossed by it
14	Unmapped field drains	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Part of the local drainage network	Yes	Likely to be present along the length of this element of the Proposed Project
15	Sinks	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Present along the length of this element of the Proposed Project
16	Issues	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Present along the length of this element of the Proposed Project
19	Pond at Rolly Home (X=417,554; Y=402574)	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Located in close proximity to the western extent of this element of the Proposed Project where the diversion reconnects into the existing TPT
34	Layers of peat (6 no.)	Medium	Initially Uncertain but upgraded to Medium as peats can be considered to be part of a sensitive & protected water-dependent ecosystems with regional or local importance (LNR).	Medium	Initially Uncertain but upgraded to Medium as peats can be considered to be part of a sensitive & protected groundwater-dependent ecosystems with regional or local importance (LNR).		Not applicable	Very Low	Initially Uncertain but upgraded to Negligible as peats are not directly linked to water quality		Not applicable	Yes	6 layers of peat are located within 600m of the Study Area. Peats are linked to the local hydrology and hydrogeology as peats are formed on water-logged soils
40	2/27/10/090(S) (2 no.) surface water abstraction	High	Used for industrial, commercial and public services purposes		Not applicable		Not applicable	High	Used for industrial, commercial and public services purposes		Not applicable	Yes	Potentially down groundwater gradient
41	NE/027/0005/006 surface water abstraction	Medium	Production of Energy		Not applicable		Not applicable	Medium	Production of Energy		Not applicable	Yes	River Don abstraction site located downstream of this element of the Proposed Project
42	NE/027/0005/007 surface water abstraction	Medium	Production of Energy		Not applicable		Not applicable	Medium	Production of Energy		Not applicable	Yes	River Don abstraction site located downstream of this element of the Proposed Project
43	Don & Rother Millstone Grit & Coal Measures WFD groundwater body (Secondary A bedrock and superficial aquifer)		Not applicable	High	The quantitative status is 'Good' (2015 WFD data)		Not applicable	Medium	Is a secondary A aquifer with a 'Poor' WFD Chemical Status		Not applicable	Yes	This element of the Proposed Project is within this groundwater body
45	Boreholes		Not applicable	Low	Initially Negligible but upgraded to Low as located within the Study Area but have no abstraction records		Not applicable	Low	Initially Negligible but upgraded to Low as located within the Study Area but have no abstraction records		Not applicable	Yes	Located downstream.
46	2/27/10/090(G) groundwater abstraction		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Yes	Potentially down groundwater gradient
47	2/27/10/091 groundwater abstraction		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Yes	Potentially down groundwater gradient
48	NE/027/0005/001 groundwater abstraction		Not applicable	Medium	Use for environmental purposes		Not applicable	Medium	Use for environmental purposes		Not applicable	Yes	Located down-gradient
49	NE/027/0005/008 groundwater abstraction		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Yes	Located down-gradient
50	NE/027/0005/010 groundwater abstraction		Not applicable	High	Use for water supply		Not applicable	High	Use for water supply		Not applicable	Yes	Located down-gradient
51	NE/027/0005/016 groundwater abstraction		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Yes	Potentially down groundwater gradient
Wogden Foot SEC													
1	River Don part of the Don from Source to Scout Dyke WFD river catchment water body	Medium	The hydrological regime status is 'Supports Good' (2014 WFD data)		Not applicable	Medium	The hydromorphological supporting elements status is 'Supports Good' (2014 WFD data)	High	Physico-chemical quality elements status is Good (2016 WFD data)	High	within FZ2 and FZ3	Yes	The river passes in close proximity, to the north of this element of the Proposed Project
12	Drains, tributaries of River Don part of the Don from Source to Scout Dyke WFD river catchment water body	Medium	The hydrological regime status is 'Supports Good' (2014 WFD data)		Not applicable	Medium	The hydromorphological supporting elements status is 'Supports Good' (2014 WFD data)	High	Physico-chemical quality elements status is Good (2016 WFD data)	Low	Part of local surface water drainage network	Yes	Present in close proximity to this element of the Proposed Project
14	Unmapped field drains	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Part of the local drainage network	Yes	Likely to be present in close proximity to this element of the Proposed Project
19	Pond at Rolly Home (X=417,554; Y=402574)	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Located in close proximity to this element of the Proposed Project
34	Layers of peat (6 no.)	Medium	Initially Uncertain but upgraded to Medium as peats can be considered to be part of a sensitive & protected water-dependent ecosystems with regional or local importance (LNR).	Medium	Initially Uncertain but upgraded to Medium as peats can be considered to be part of a sensitive & protected groundwater-dependent ecosystems with regional or local importance (LNR).		Not applicable	Very Low	Initially Uncertain but upgraded to Negligible as peats are not directly linked to water quality		Not applicable	Yes	6 layers of peat are located within 600m of the Study Area. Peats are linked to the local hydrology and hydrogeology as peats are formed on water-logged soils
35	Wogden Foot Local Wildlife Site	Very Low	Of local importance but designated due to the birds ecology	Very Low	Of local importance but designated due to the birds ecology	Very Low	Of local importance but designated due to the birds ecology	Very Low	Of local importance but designated due to the birds ecology	Very Low	Of local importance but designated due to the birds ecology	No	Located in close proximity to this element of the Proposed Project. Previously designated due to the presence of birds and insects
40	2/27/10/090(S) (2 no.) surface water abstraction	High	Used for industrial, commercial and public services purposes		Not applicable		Not applicable	High	Used for industrial, commercial and public services purposes		Not applicable	Yes	Potentially down groundwater gradient
41	NE/027/0005/006 surface water abstraction	Medium	Production of Energy		Not applicable		Not applicable	Medium	Production of Energy		Not applicable	Yes	River Don abstraction site located downstream of this element of the Proposed Project
42	NE/027/0005/007 surface water abstraction	Medium	Production of Energy		Not applicable		Not applicable	Medium	Production of Energy		Not applicable	Yes	River Don abstraction site located downstream of this element of the Proposed Project
43	Don & Rother Millstone Grit & Coal Measures WFD groundwater body (Secondary A bedrock and superficial aquifer)		Not applicable	High	The quantitative status is 'Good' (2015 WFD data)		Not applicable	Medium	Is a secondary A aquifer with a 'Poor' WFD Chemical Status		Not applicable	Yes	This element of the Proposed Project is within this groundwater body
45	Boreholes		Not applicable	Low	Initially Negligible but upgraded to Low as located within the Study Area but have no abstraction records		Not applicable	Low	Initially Negligible but upgraded to Low as located within the Study Area but have no abstraction records		Not applicable	Yes	Located downstream.
46	2/27/10/090(G) groundwater abstraction		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Yes	Potentially down groundwater gradient
47	2/27/10/091 groundwater abstraction		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Yes	Potentially down groundwater gradient
48	NE/027/0005/001 groundwater abstraction		Not applicable	Medium	Use for environmental purposes		Not applicable	Medium	Use for environmental purposes		Not applicable	Yes	Located down-gradient
49	NE/027/0005/008 groundwater abstraction		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Yes	Located down-gradient
50	NE/027/0005/010 groundwater abstraction		Not applicable	High	Use for water supply		Not applicable	High	Use for water supply		Not applicable	Yes	Located down-gradient
51	NE/027/0005/016 groundwater abstraction		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Yes	Potentially down groundwater gradient
Existing TPT Cable Swathe													
1	River Don part of the Don from Source to Scout Dyke WFD river catchment water body	Medium	The hydrological regime status is 'Supports Good' (2014 WFD data)		Not applicable	Medium	The hydromorphological supporting elements status is 'Supports Good' (2014 WFD data)	High	Physico-chemical quality elements status is Good (2016 WFD data)	High	within FZ2 and FZ3	Yes	The river passes in close proximity, running parallel to the north of this element of the Proposed Project
3	Long Grain, tributary of River Don part of the Don from Source to Scout Dyke WFD river catchment water body	Medium	The hydrological regime status is 'Supports Good' (2014 WFD data)		Not applicable	Medium	The hydromorphological supporting elements status is 'Supports Good' (2014 WFD data)	High	Physico-chemical quality elements status is Good (2016 WFD data)	High	Within a zone at 'High' risk of surface water flooding	Yes	The watercourse is crossed by this element of the Proposed Project
7	Smalden Clough brook, tributary of River Don part of the Don from Source to Scout Dyke WFD river catchment water body	Medium	The hydrological regime status is 'Supports Good' (2014 WFD data)		Not applicable	Medium	The hydromorphological supporting elements status is 'Supports Good' (2014 WFD data)	High	Physico-chemical quality elements status is Good (2016 WFD data)	High	Within a zone at 'High' risk of surface water flooding	Yes	The watercourse is in close proximity to this element of the Proposed Project but partially culverted
8	Unnamed tributary of River Don flowing parallel to Smalden Clough, part of the Don from Source to Scout Dyke WFD river catchment water body	Medium	The hydrological regime status is 'Supports Good' (2014 WFD data)		Not applicable	Medium	The hydromorphological supporting elements status is 'Supports Good' (2014 WFD data)	High	Physico-chemical quality elements status is Good (2016 WFD data)	High	Within a zone at 'High' risk of surface water flooding	Yes	The watercourse in close proximity to this element of the Proposed Project
10	Clough Beck, tributary of River Don part of the Don from Source to Scout Dyke WFD river catchment water body	Medium	The hydrological regime status is 'Supports Good' (2014 WFD data)		Not applicable	Medium	The hydromorphological supporting elements status is 'Supports Good' (2014 WFD data)	High	Physico-chemical quality elements status is Good (2016 WFD data)	High	Within a zone at 'High' risk of surface water flooding	Yes	The watercourse is crossed by this element of the Proposed Project
11	Wogden Foot, tributary of River Don part of the Don from Source to Scout Dyke WFD river catchment water body	Medium	The hydrological regime status is 'Supports Good' (2014 WFD data)		Not applicable	Medium	The hydromorphological supporting elements status is 'Supports Good' (2014 WFD data)	High	Physico-chemical quality elements status is Good (2016 WFD data)	High	Within a zone at 'High' risk of surface water flooding	Yes	The watercourse is crossed by this element of the Proposed Project
12	Drains, tributaries of River Don part of the Don from Source to Scout Dyke WFD river catchment water body	Medium	The hydrological regime status is 'Supports Good' (2014 WFD data)		Not applicable	Medium	The hydromorphological supporting elements status is 'Supports Good' (2014 WFD data)	High	Physico-chemical quality elements status is Good (2016 WFD data)	Low	Part of local surface water drainage network	Yes	Crossed by this element of the Proposed Project
13	Waterfall along the Trans Pennine Trail	Low	Initially Uncertain but upgraded to Low as known to be of local importance (recreational function)		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially uncertain but upgraded to Low as part of the surface water drainage network	Yes	Located the existing route of the TPT and in close proximity to this element of the Proposed Project
14	Unmapped field drains	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Part of the local drainage network	Yes	Likely to be present in close proximity to this element of the Proposed Project
15	Sinks	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Present in close proximity to this element of the Proposed Project
16	Issues	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Present in close proximity to this element of the Proposed Project
18	Grains/grouchs (a natural channel or fissure in a peat moor)	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Likely to be present in close proximity to this element of the Proposed Project
19	Pond at Rolly Home (X=417,554; Y=402574)	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Located in close proximity to this element of the Proposed Project
21	Pond South of Winscar Reservoir (X=415,689; Y=402,379)	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Present in close proximity to this element of the Proposed Project
22	Pond 1 near Woodhead Tunnels (disused) (X=415,517; Y=402,281)	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Present in close proximity to this element of the Proposed Project
23	Pond 1 near Woodhead Tunnels (disused) (X=415,494; Y=402,255)	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Present in close proximity to this element of the Proposed Project
25	Pond 1 at Dunford Bridge (X=415,736; Y=402,253)	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Present in close proximity to this element of the Proposed Project
26	Pond 2 at Dunford Bridge (X=415,723; Y=402,241)	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Present in close proximity to this element of the Proposed Project
27	Pond 3 at Dunford Bridge (X=415,770; Y=402,261)	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Present in close proximity to this element of the Proposed Project
28	Pond along Smalden Clough (X=415,136; Y=401,845)	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Present in close proximity to this element of the Proposed Project

29	Pond at confluence between Wogden Foot and River Don (X=418,374;Y=402,747)	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Present in close proximity to this element of the Proposed Project
30	Winscar Reservoir	High	Is a licensed or unlicensed surface water abstraction site used for water supply or agriculture		Not applicable		Not applicable	High	Is a licensed or unlicensed surface water abstraction site used for water supply or agriculture		Not applicable	Yes	This reservoir is used for water supply and is located to the west of this element of the Proposed Project
34	Layers of peat (6 no.)	Medium	Initially Uncertain but upgraded to Medium as peats can be considered to be part of a sensitive & protected water-dependent ecosystems with regional or local importance (LNR).	Medium	Initially Uncertain but upgraded to Medium as peats can be considered to be part of a sensitive & protected groundwater-dependent ecosystems with regional or local importance (LNR).		Not applicable	Very Low	Initially Uncertain but upgraded to Negligible as peats are not directly linked to water quality		Not applicable	Yes	6 layers of peat are located within 600m of the Study Area. Peats are linked to the local hydrology and hydrogeology as peats are formed on water-logged soils
35	Wogden Foot Local Wildlife Site	Very Low	Of local importance but designated due to the birds ecology	Very Low	Of local importance but designated due to the birds ecology	Very Low	Of local importance but designated due to the birds ecology	Very Low	Of local importance but designated due to the birds ecology	Very Low	Of local importance but designated due to the birds ecology	No	Located in close proximity to this element of the Proposed Project. Previously designated due to the presence of birds and insects
36	Peak District Moors (South Pennine Moors Phase 1) SPA	Very Low	Designated due to the birds ecology	Very Low	Designated due to the birds ecology	Very Low	Designated due to the birds ecology	Very Low	Designated due to the birds ecology	Very Low	Designated due to the birds ecology	No	Located to the west of this element of the Proposed Project. Designated due to the birds ecology
37	South Pennine Moors SAC	High	Presence of Northern Atlantic wet heaths with Erica tetralix, European dry heaths, blanket bog, transition mires and quaking bogs	High	Presence of Northern Atlantic wet heaths with Erica tetralix, European dry heaths, blanket bog, transition mires and quaking bogs	Very Low	Peats and moors are not directly dependent to hydromorphology	Very Low	Peats and moors are not directly dependent to water quality		Not applicable	Yes	Located to the west of this element of the Proposed Project. Presence of Northern Atlantic wet heaths with Erica tetralix, European dry heaths, blanket bog, transition mires and quaking bogs
38	Dark Peak SSSI	High	Presence of blanket mire and peat and wet and dry heaths	High	Presence of blanket mire and peat and wet and dry heaths	Very Low	Peats and moors are not directly dependent to hydromorphology	Very Low	Peats and moors are not directly dependent to water quality		Not applicable	Yes	Located to the west of this element of the Proposed Project. Presence of blanket mire and peat and wet and dry heaths
40	2/27/10/090(S) (2 no.) surface water abstraction	High	Used for industrial, commercial and public services purposes		Not applicable		Not applicable	High	Used for industrial, commercial and public services purposes		Not applicable	Yes	Potentially down groundwater gradient
41	NE/027/0005/006 surface water abstraction	Medium	Production of Energy		Not applicable		Not applicable	Medium	Production of Energy		Not applicable	Yes	River Don abstraction site located downstream of this element of the Proposed Project
42	NE/027/0005/007 surface water abstraction	Medium	Production of Energy		Not applicable		Not applicable	Medium	Production of Energy		Not applicable	Yes	River Don abstraction site located downstream of this element of the Proposed Project
43	Don & Rother Millstone Grit & Coal Measures WFD groundwater body (Secondary A bedrock and superficial aquifer)		Not applicable	High	The quantitative status is 'Good' (2015 WFD data)		Not applicable	Medium	Is a secondary A aquifer with a 'Poor' WFD Chemical Status		Not applicable	Yes	This element of the Proposed Project is within this groundwater body
44	Wells		Not applicable	Low	Initially Negligible but upgraded to Low as located within the Study Area but have no abstraction records		Not applicable	Low	Initially Negligible but upgraded to Low as located within the Study Area but have no abstraction records		Not applicable	Yes	Present in close proximity to this element of the Proposed Project
45	Boreholes		Not applicable	Low	Initially Negligible but upgraded to Low as located within the Study Area but have no abstraction records		Not applicable	Low	Initially Negligible but upgraded to Low as located within the Study Area but have no abstraction records		Not applicable	Yes	Located downstream.
46	2/27/10/090(G) groundwater abstraction		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Yes	Potentially down groundwater gradient
47	2/27/10/091 groundwater abstraction		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Yes	Potentially down groundwater gradient
48	NE/027/0005/001 groundwater abstraction		Not applicable	Medium	Use for environmental purposes		Not applicable	Medium	Use for environmental purposes		Not applicable	Yes	Located down-gradient
49	NE/027/0005/008 groundwater abstraction		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Yes	Located down-gradient
50	NE/027/0005/010 groundwater abstraction		Not applicable	High	Use for water supply		Not applicable	High	Use for water supply		Not applicable	Yes	Located down-gradient
51	NE/027/0005/016 groundwater abstraction		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Yes	Potentially down groundwater gradient
	OHL Removal												
1	River Don part of the Don from Source to Scout Dyke WFD river catchment water body	Medium	The hydrological regime status is 'Supports Good' (2014 WFD data)		Not applicable	Medium	The hydromorphological supporting elements status is 'Supports Good' (2014 WFD data)	High	Physico-chemical quality elements status is Good (2016 WFD data)	High	within F22 and FZ3	Yes	The river passes through this element of the Proposed Project and runs parallel for much of its length
7	Smalden Clough brook, tributary of River Don part of the Don from Source to Scout Dyke WFD river catchment water body	Medium	The hydrological regime status is 'Supports Good' (2014 WFD data)		Not applicable	Medium	The hydromorphological supporting elements status is 'Supports Good' (2014 WFD data)	High	Physico-chemical quality elements status is Good (2016 WFD data)	High	Within a zone at 'High' risk of surface water flooding	Yes	The watercourse is in close proximity to this element of the Proposed Project but partially culverted
8	Unnamed tributary of River Don flowing parallel to Smalden Clough, part of the Don from Source to Scout Dyke WFD river catchment water body	Medium	The hydrological regime status is 'Supports Good' (2014 WFD data)		Not applicable	Medium	The hydromorphological supporting elements status is 'Supports Good' (2014 WFD data)	High	Physico-chemical quality elements status is Good (2016 WFD data)	High	Within a zone at 'High' risk of surface water flooding	Yes	The watercourse is in close proximity to this element of the Proposed Project
10	Clough Beck, tributary of River Don part of the Don from Source to Scout Dyke WFD river catchment water body	Medium	The hydrological regime status is 'Supports Good' (2014 WFD data)		Not applicable	Medium	The hydromorphological supporting elements status is 'Supports Good' (2014 WFD data)	High	Physico-chemical quality elements status is Good (2016 WFD data)	High	Within a zone at 'High' risk of surface water flooding	Yes	The watercourse is crossed by this element of the Proposed Project
12	Drains, tributaries of River Don part of the Don from Source to Scout Dyke WFD river catchment water body	Medium	The hydrological regime status is 'Supports Good' (2014 WFD data)		Not applicable	Medium	The hydromorphological supporting elements status is 'Supports Good' (2014 WFD data)	High	Physico-chemical quality elements status is Good (2016 WFD data)	Low	Part of local surface water drainage network	Yes	Crossed by this element of the Proposed Project
14	Unmapped field drains	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Part of the local drainage network	Yes	Likely to be present in close proximity to this element of the Proposed Project
15	Sinks	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Present in close proximity to this element of the Proposed Project
16	Issues	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Present in close proximity to this element of the Proposed Project
18	Grains/grougns (a natural channel or fissure in a peat moor)	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Likely to be present in close proximity to this element of the Proposed Project
20	Pond at Castle Hill (X=417,787; Y=402,886)	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Present in close proximity to this element of the Proposed Project
21	Pond South of Winscar Reservoir (X=415,689; Y=402,379)	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Present in close proximity to this element of the Proposed Project
22	Pond 1 near Woodhead Tunnels (disused) (X=415,517; Y=402,281)	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Present in close proximity to this element of the Proposed Project
23	Pond 1 near Woodhead Tunnels (disused) (X=415,494; Y=402,255)	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Present in close proximity to this element of the Proposed Project
24	Pond at Townhead (X=416,663; Y=402,767)	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Present in close proximity to this element of the Proposed Project
28	Pond along Smalden Clough (X=415,136; Y=401,845)	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Low	Initially Uncertain but upgraded to Low as located within the Study Area	Low	Initially Uncertain but upgraded to Low as located within the Study Area		Not applicable	Yes	Present in close proximity to this element of the Proposed Project
30	Winscar Reservoir	High	Is a licensed or unlicensed surface water abstraction site used for water supply or agriculture		Not applicable		Not applicable	High	Is a licensed or unlicensed surface water abstraction site used for water supply or agriculture		Not applicable	Yes	This reservoir is used for water supply and is located to the west of this element of the Proposed Project
31	Lower Windleden Reservoir	High	Is a licensed or unlicensed surface water abstraction site used for water supply or agriculture		Not applicable		Not applicable	High	Is a licensed or unlicensed surface water abstraction site used for water supply or agriculture		Not applicable	Yes	This reservoir is used for water supply and is located to the south of this element of the Proposed Project
34	Layers of peat (6 no.)	Medium	Initially Uncertain but upgraded to Medium as peats can be considered to be part of a sensitive & protected water-dependent ecosystems with regional or local importance (LNR).	Medium	Initially Uncertain but upgraded to Medium as peats can be considered to be part of a sensitive & protected groundwater-dependent ecosystems with regional or local importance (LNR).		Not applicable	Very Low	Initially Uncertain but upgraded to Negligible as peats are not directly linked to water quality		Not applicable	Yes	6 layers of peat are located within 600m of the Study Area. Peats are linked to the local hydrology and hydrogeology as peats are formed on water-logged soils
36	Peak District Moors (South Pennine Moors Phase 1) SPA	Very Low	Designated due to the birds ecology	Very Low	Designated due to the birds ecology	Very Low	Designated due to the birds ecology	Very Low	Designated due to the birds ecology	Very Low	Designated due to the birds ecology	No	Located to the west of this element of the Proposed Project. Designated due to the birds ecology
37	South Pennine Moors SAC	High	Presence of Northern Atlantic wet heaths with Erica tetralix, European dry heaths, blanket bog, transition mires and quaking bogs	High	Presence of Northern Atlantic wet heaths with Erica tetralix, European dry heaths, blanket bog, transition mires and quaking bogs	Very Low	Peats and moors are not directly dependent to hydromorphology	Very Low	Peats and moors are not directly dependent to water quality		Not applicable	Yes	Located to the west of this element of the Proposed Project. Presence of Northern Atlantic wet heaths with Erica tetralix, European dry heaths, blanket bog, transition mires and quaking bogs
38	Dark Peak SSSI	High	Presence of blanket mire and peat and wet and dry heaths	High	Presence of blanket mire and peat and wet and dry heaths	Very Low	Peats and moors are not directly dependent to hydromorphology	Very Low	Peats and moors are not directly dependent to water quality		Not applicable	Yes	Located to the west of this element of the Proposed Project. Presence of blanket mire and peat and wet and dry heaths
40	2/27/10/090(S) (2 no.) surface water abstraction	High	Used for industrial, commercial and public services purposes		Not applicable		Not applicable	High	Used for industrial, commercial and public services purposes		Not applicable	Yes	Potentially down groundwater gradient
41	NE/027/0005/006 surface water abstraction	Medium	Production of Energy		Not applicable		Not applicable	Medium	Production of Energy		Not applicable	Yes	River Don abstraction site located downstream of this element of the Proposed Project
42	NE/027/0005/007 surface water abstraction	Medium	Production of Energy		Not applicable		Not applicable	Medium	Production of Energy		Not applicable	Yes	River Don abstraction site located downstream of this element of the Proposed Project
43	Don & Rother Millstone Grit & Coal Measures WFD groundwater body (Secondary A bedrock and superficial aquifer)		Not applicable	High	The quantitative status is 'Good' (2015 WFD data)		Not applicable	Medium	Is a secondary A aquifer with a 'Poor' WFD Chemical Status		Not applicable	Yes	This element of the Proposed Project is within this groundwater body
44	Wells		Not applicable	Low	Initially Negligible but upgraded to Low as located within the Study Area but have no abstraction records		Not applicable	Low	Initially Negligible but upgraded to Low as located within the Study Area but have no abstraction records		Not applicable	Yes	Present in close proximity to this element of the Proposed Project
45	Boreholes		Not applicable	Low	Initially Negligible but upgraded to Low as located within the Study Area but have no abstraction records		Not applicable	Low	Initially Negligible but upgraded to Low as located within the Study Area but have no abstraction records		Not applicable	Yes	Located downstream.
46	2/27/10/090(G) groundwater abstraction		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Yes	Potentially down groundwater gradient
47	2/27/10/091 groundwater abstraction		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Yes	Potentially down groundwater gradient
48	NE/027/0005/001 groundwater abstraction		Not applicable	Medium	Use for environmental purposes		Not applicable	Medium	Use for environmental purposes		Not applicable	Yes	Located down-gradient
49	NE/027/0005/008 groundwater abstraction		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Yes	Located down-gradient
50	NE/027/0005/010 groundwater abstraction		Not applicable	High	Use for water supply		Not applicable	High	Use for water supply		Not applicable	Yes	Located down-gradient
51	NE/027/0005/016 groundwater abstraction		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Yes	Potentially down groundwater gradient
52	NE/027/0005/016 groundwater abstraction		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Low	Use for industrial, commercial and public services		Not applicable	Yes	Potentially down groundwater gradient

Construction phase impact assessment for new SEC

Last updated: 29/04/2019

Receptor Class	Receptor Name	Highest Receptor Sensitivity Value	Pressures/Activities	Direct Risk	Indirect Risk	Temporary / Permanent	Embedded Mitigation	Magnitude of Impact Post-Embedded Mitigation	Significance of Effect	Additional Mitigation	Magnitude of Impact Post-Additional Mitigation	Significance of Effect	Adverse/ Beneficial
Water Quality	River Don part of the Don from Source to Scout Dyke WFD river catchment water body. Tributaries of the River Don; drains. 2/27/10/090(S) (2 no.) surface water abstraction. NE/027/0005/010 groundwater abstraction.	High	<ul style="list-style-type: none">Construction of permanent access road to access SECStockpiling of soil and alluvium associated with the new SECSoil and vegetation removal associated with the new SECChemical/fuel use during constructionConstruction of above ground physical assets (e.g. permanent compound fencing, landing gantries)Discharge of construction water/ temporary effluent discharges	<ul style="list-style-type: none">Accessible sediment supply or soil based contaminants if present for high velocity flows affecting water qualityContamination of surface water and groundwaterIncreased soil erosion leading to sediment impacts on water quality	<ul style="list-style-type: none">Downstream transfer of sedimentDrinking water supplyEcosystem damageLoss of biodiversityGroundwater contaminationCommercial lossesIncreased sediment concentrations in downstream water bodies and in construction phase surface water attenuation basin	Temporary	See Table 9.16 in EAR for Embedded Mitigation	Low	Moderate	See Section 9.9 (Mitigation) for Additional Mitigation	Very Low	Minor	Negligible
Flooding & Drainage	River Don part of the Don from Source to Scout Dyke WFD river catchment water body.	High	<ul style="list-style-type: none">Construction of above ground physical assets (e.g. permanent compound fencing, landing gantries)Construction of permanent access road to access SECStockpiling of soil and alluvium associated with the new SECSoil and vegetation removal associated with the new SECDischarge of construction water/ temporary effluent discharges	<ul style="list-style-type: none">Blockage/diversion of critical flow conveyance routesIncreased runoff leading to increased sediment load transportationIncreased volume and rate of surface runoff generatedModified hydrological connectivity affecting flood risk (natural flow path blocking/diversion as a result of above ground assets and/or temporary drainage systems)Reduced time to entry (increased flood risk)	<ul style="list-style-type: none">Increased risk of blockage of hydraulic structures and reduced channel capacityIncreased local and downstream flood riskPossible blockage/diversion of surface water flows to a more flood-sensitive area. Ecological & hydrological process changes	Temporary	See Table 9.16 in EAR for Embedded Mitigation	Low	Moderate	See Section 9.9 (Mitigation) for Additional Mitigation	Very Low	Minor	Negligible
Hydromorphology	River Don part of the Don from Source to Scout Dyke WFD river catchment water body. Tributaries of the River Don; drains.	Medium	<ul style="list-style-type: none">Construction of above ground physical assets (e.g. permanent compound fencing, landing gantries)Construction of permanent access road to access SECStockpiling of soil and alluvium associated with the new SECSoil and vegetation removal associated with the new SECConstruction of underground physical assets (e.g. piled or deep pad foundations)	<ul style="list-style-type: none">Change to overland flow pathsModified hydrological connectivity affecting hydromorphology	<ul style="list-style-type: none">Disconnected overland flow routesEcological & hydrological process changes	Temporary	See Table 9.16 in EAR for Embedded Mitigation	Very Low	Negligible				Adverse
Groundwater Resources	Don & Rother Millstone Grit & Coal Measures WFD groundwater body (Secondary A bedrock and superficial aquifer). NE/027/0005/010 groundwater abstraction.	High	<ul style="list-style-type: none">Construction of above ground physical assets (e.g. permanent compound fencing, landing gantries)Construction of permanent access road to access SECStockpiling of soil and alluvium associated with the new SECSoil and vegetation removal associated with the new SECDischarge of construction water/ temporary effluent dischargesConstruction of underground physical assets (e.g. tanked basement floor slab)De-watering (if required)	<ul style="list-style-type: none">Reduced infiltrationChanges to groundwater levelsModification to groundwater flow paths and effect on levels in nearby water features	<ul style="list-style-type: none">Reduced groundwater storage volumesIncreased groundwater flood riskChange to baseflow discharge to surface waterChanges to water qualityModified groundwater levels	Temporary	See Table 9.16 in EAR for Embedded Mitigation	Low	Moderate	See Section 9.9 (Mitigation) for Additional Mitigation	Very Low	Minor	Adverse

Operation phase impact assessment for new SEC

Last updated: 29/04/2019

Receptor Class	Receptor Name	Highest Receptor Sensitivity Value	Pressures/Activities	Direct Risk	Indirect Risk	Temporary / Permanent	Embedded Mitigation	Magnitude of Impact Post-Embedded Mitigation	Significance of Effect	Additional Mitigation	Magnitude of Impact Post-Additional Mitigation	Significance of Effect	Adverse/ Beneficial
Water Quality	River Don part of the Don from Source to Scout Dyke WFD river catchment water body. Tributaries of the River Don: drains. 2/27/10/090(S) (2 no.) surface water abstraction. NE/027/0005/010 groundwater abstraction.	High	<ul style="list-style-type: none">• Presence of access road and new assets (above ground kiosks, electrical equipment, compound fencing etc.)• Chemical/fuel use during routine maintenance & operation	<ul style="list-style-type: none">• Risk of hydrocarbon and other chemical pollution in addition to increased dust/sediment mobilisation as a result of vehicular traffic using access roads• Contamination of surface water and groundwater	<ul style="list-style-type: none">• Waterbody pollution• Drinking water supply• Ecosystem damage• Loss of biodiversity• Commercial losses	Temporary	See Table 9.17 in EAR for Embedded Mitigation	Very Low	Minor				Adverse
Flooding & Drainage	River Don part of the Don from Source to Scout Dyke WFD river catchment water body.	High	<ul style="list-style-type: none">• Presence of access road and new assets (above ground kiosks, electrical equipment, compound fencing etc.)	<ul style="list-style-type: none">• Blockage/diversion of critical floodplain conveyance routes• Increased runoff leading to increased sediment load transportation• Increased volume and rate of surface runoff generated• Modified hydrological connectivity affecting flood risk (natural flow path blockage/diversion as a result of raised road embankments and hardstanding drainage systems)	<ul style="list-style-type: none">• Increased local and downstream flood risk• Increased risk of blockage of hydraulic structures and reduced channel capacity• Possible diversion of surface water flows to a more flood-sensitive area. Ecological & hydrological process changes	Permanent	See Table 9.17 in EAR for Embedded Mitigation,	Low	Moderate	See Section 9.9 (Mitigation) for Additional Mitigation	Very Low	Minor	Adverse
Hydromorphology	River Don part of the Don from Source to Scout Dyke WFD river catchment water body. Tributaries of the River Don: drains.	Medium	<ul style="list-style-type: none">• Presence of access road and new assets (above ground kiosks, electrical equipment, compound fencing etc.)	<ul style="list-style-type: none">• Change to overland flow paths affecting hydromorphology• Reduced hydrological connectivity affecting hydromorphology	<ul style="list-style-type: none">• Disconnected overland flow routes• Ecological & hydrological process changes	Permanent	See Table 9.17 in EAR for Embedded Mitigation	Very Low	Negligible				Adverse
Groundwater Resources	Don & Rother Millstone Grit & Coal Measures WFD groundwater body (Secondary A bedrock and superficial aquifer). NE/027/0005/010 groundwater abstraction.	High	<ul style="list-style-type: none">• Presence of access road and new assets (above ground kiosks, electrical equipment, compound fencing etc.)	<ul style="list-style-type: none">• Reduced infiltration	<ul style="list-style-type: none">• Depleted groundwater resources	Permanent	See Table 9.17 in EAR for Embedded Mitigation	Very Low	Minor				Adverse

Decommissioning phase impact assessment for new SEC

Last updated: 26/04/2019

Receptor Class	Receptor Name	Highest Receptor Sensitivity Value	Pressures/Activities	Direct Risk	Indirect Risk	Temporary / Permanent	Embedded Mitigation	Magnitude of Impact Post-Embedded Mitigation	Significance of Effect	Additional Mitigation	Magnitude of Impact Post-Additional Mitigation	Significance of Effect	Adverse/ Beneficial
Water Quality	River Don part of the Don from Source to Scout Dyke WFD river catchment water body. Tributaries of the River Don: drains. 2/27/10/090(S) (2 no.) surface water abstraction. NE/027/0005/010 groundwater abstraction.	High	<ul style="list-style-type: none">Chemical/fuel use during removal of surface features (i.e. access road)Discharge of construction water/ temporary effluent dischargesLand reinstatement following removal of above ground element including compound fencing, pylon, SEC and all other plantRemoval of SuDS system and temporary exposure of bare earth during works	<ul style="list-style-type: none">Contamination of surface water and groundwaterIncreased soil erosion leading to sediment impacts on water qualityAccessible sediment supply or soil based contaminants if present for high velocity flows	<ul style="list-style-type: none">Drinking water supplyEcosystem damageLoss of biodiversityGroundwater contaminationCommercial lossesIncreased sediment concentrations in downstream water bodies and in construction phase surface water attenuation basin	Temporary	See Section 9.7 in EAR	Very Low	Minor				Adverse
Groundwater Resources	Don & Rother Millstone Grit & Coal Measures WFD groundwater body (Secondary A bedrock and superficial aquifer). NE/027/0005/010 groundwater abstraction.	High	<ul style="list-style-type: none">Discharge of construction water/ temporary effluent discharges	<ul style="list-style-type: none">Reduced infiltration	<ul style="list-style-type: none">Reduced groundwater storage	Temporary	See Section 9.7 in EAR	Very Low	Minor				Adverse
Flooding & Drainage	River Don part of the Don from Source to Scout Dyke WFD river catchment water body.	High	<ul style="list-style-type: none">Discharge of construction water/ temporary effluent dischargesLand reinstatement following removal of above ground element including compound fencing, pylon, SEC and all other plantRemoval of SuDS system and temporary exposure of bare earth during works	<ul style="list-style-type: none">Reduced time to entry (increased flood risk)Change to overland flow paths impacting flood riskIncreased runoff leading to increased sediment load transportationIncreased volume and rate of surface runoff generatedModified hydrological connectivity affecting flood riskReduction in floodplain storage	<ul style="list-style-type: none">Disconnected overland flow routesIncreased risk of blockage of hydraulic structures and reduced channel capacityIncreased local and downstream flood riskPossible diversion of surface water flows to a more flood-sensitive area, ecological & hydrological process changes	Temporary	See Section 9.7 in EAR	Very Low	Minor				Adverse
Hydromorphology	River Don part of the Don from Source to Scout Dyke WFD river catchment water body. Tributaries of the River Don: drains.	Medium	<ul style="list-style-type: none">Land reinstatement following removal of above ground element including compound fencing, pylon, SEC and all other plant	<ul style="list-style-type: none">Change to overland flow paths affecting hydromorphologyModified hydrological connectivity affecting hydromorphology	<ul style="list-style-type: none">Disconnected overland flow routesEcological & hydrological process changes	Permanent	See Section 9.7 in EAR	Very Low	Negligible				Adverse