
**Swallow Drive Wastewater
Pumping Station**

**Danes Stream Flood Alleviation
Scheme**

Planning Application

Supporting Statement

Planning Portal Reference: PP-01728107

On Behalf of Southern Water



A joint venture between Veolia Water, Costain and MWH

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Appendix 1: Environmental Appraisal

STATEMENT IN SUPPORT OF A PLANNING APPLICATION FOR NEW WASTEWATER PUMPING STATION AT SWALLOW DRIVE, MILFORD-ON-SEA

1. INTRODUCTION

This document is in support of a Planning Application relating to the proposed development to improve wastewater drainage and alleviate sewer flooding issues at locations in Milford-on-Sea and Keyhaven.

The overall development comprises construction of two new Wastewater Pumping Stations (WPS), installation of underground storm water storage capacity and work to associated underground sewers. This application relates to the pumping station at Swallow Drive. A second application relating to a pumping station at Keyhaven Road, which is part of the same system, and the contractor's temporary compound, which will support both developments, is being submitted separately.

This Flood Alleviation Scheme forms part of Southern Waters' AMP 5 (Asset Management Plan 5) Programme. This is a major programme of refurbishment and upgrading of various existing wastewater treatment works and associated sewer infrastructure required by the water industry regulator to be put in place between 2010 and 2015. Each of the schemes must be completed by dates specified by the Environment Agency and OFWAT.

2. SCHEME DRIVER

OFWAT annually publishes a report including a register (known as the DG5 register) of properties at risk of internal flooding from sewers due to hydraulic overloading more than twice in ten years and more than once in ten years, and properties which are internally flooded.

The scheme is in response to targets set by Ofwat for Southern Water Ltd to remove properties from this register.

This scheme will alleviate flooding at two domestic properties; it will also reduce the risk of sewer overflow into the ecologically sensitive Danes Stream Marsh in Milford-on-Sea, as well as surface flooding in parts of Keyhaven which lie at low points in the existing sewer system.

3. CHARACTERISTICS OF THE DEVELOPMENT

3.1. Site Location

The proposed new works are required to improve the existing wastewater drainage system running from Danes Stream, Milford-on-Sea towards Keyhaven.

Swallow Drive WPS will be located in the public park between Swallow Drive and Danes Stream. The national grid reference for this site is SZ 2951 9157.

Site Address: Swallow Drive WPS
 Swallow Drive
 Milford-on-Sea
 SO41 0XG

3.2. Site Ownership

The Swallow Drive WPS is located on open land owned by Milford-on-Sea Parish Council. Leasing, or ownership of this land is under negotiation.

3.3. Extent of Development

Overall the land area to be affected by the development during construction will be approximately 18,000m², of which 485m² will be occupied by the two new WPS compounds. A separate Vent Pipe will also require planning and will occupy an area of approximately 0.05m².

The Swallow Drive WPS will have a fenced compound covering 37.8m², and require formation of an access covering 32m².

The remaining area will be temporarily affected during installation of below ground pipelines and chambers and by a Temporary Construction Compound.

The Temporary Construction Compound will need to be established in the field to the west of the proposed Keyhaven Road WPS. The compound will affect an area of approximately 2,000m². A temporary access into the Construction Compound off Keyhaven Road will also be required to enable safe access to site laydown areas and construction facilities. The compound will serve the Swallow Drive WPS development as well as that for the Keyhaven Road WPS.

3.4. Scope of Works

The scope of the overall scheme is shown in drawing AB.5500153.OZ0702, with detail of the Swallow Drive WPS shown on drawings AB.5500153.OZ0705 and AB.5500153.OZ0706. Table 2 lists the proposed new structures and provides details of their dimensions, external materials and finishes.

The improvements to the existing wastewater sewer network will be achieved by providing additional storage for storm water and a wastewater pumping station to relieve pressure within the existing sewer system. Storm water storage will be provided in the form of underground pipes under farmland to minimise visual impacts, and enable tie in with the existing sewer system. The location of the WPS sites have been chosen for their proximity to the existing sewer pipelines along Keyhaven Road, and crossing Danes Stream, as well as the space in the adjacent land for installation of the underground infrastructure.

Above ground structures at each of the WPS compound sites will be an MCC Kiosk, a standby generator, 4m vent pipe, and a 2.4m high palisade security fence. Access for maintenance vehicles is required at the new Swallow Drive WPS. It is proposed this will be from Swallow Drive; the majority of this will be made of a 'grass road' ground reinforcing system 'Cell Web' to minimise visual intrusion.

During construction it is proposed to establish a temporary access into the Construction Compound from Keyhaven Road.

3.5. Operational Philosophy

The current sewerage system passes flows from west to east from Milford-on-Sea and on through Keyhaven. The sewer, as well as receiving waste water from local residences and businesses sinks toilets etc, is also connected in many cases to the surface water drainage system so that when rain falls in the area, some of the water from hardstanding and roofs enters the drainage system and combines with the wastewater. During very heavy rainfall parts of the system become overfull causing overflows at the lowest manhole in the sewer. This low manhole is adjacent to Danes Stream so the overflow, as well as impacting two adjacent properties, also enters these sensitive waters.

Rather than upsizing a large portion of the local sewer system, which would require deep extensive excavations and their associated disruption, it is proposed to provide two small pumping stations coupled to a short term wastewater storage system, and connecting pipes.

The existing sewer system is overflowing approximately 22 times per year. The new pumping stations are predicted to operate as shown in the table below. When the Swallow Drive pumping station operates, flows will be pumped along a new sewer, placed in Plover Drive, into a set of large pipes buried under agricultural fields immediately east of Milford-on-Sea which will provide temporary

storage. The new pumping station at Keyhaven Road will also pump into the temporary storage although this only will be required during very heavy rainfall events, normally occurring less than once per year. The pipes provide enough storage to allow the pumping stations to operate for 3.5 hours continuously (assuming no outflow from the storage during this time) before they would be filled.

Table 1: Pumping Station Operation

Pumping Station	Trigger level (% of local sewer capacity)	Maximum pumped flow (l/s)	Approx. expected frequency of operation (per typical year)	Approx. expected duration of Operation (per typical year)
Swallow Drive	65%	98	22	9 hrs
Keyhaven Road	100%	40	< 1	< 1 hrs

The current sewerage system will continue to operate taking the remaining flows. The storage pipes will be engineered to allow flows to gravitate back into the sewer system to the east as capacity becomes available. This system is designed to provide protection from flooding for up to a 1 in 30 year storm.

3.6. Planning Requirement

This application seeks permission for development relating to the Swallow Drive WPS which includes the WPS and the required access off Swallow Drive.

Swallow Drive WPS

The proposed WPS will require a small compound to securely house the required facilities. The size of the Swallow Drive WPS compound has been minimised by locating the below ground structures outside of the fenced area. The security fence will surround a small area of hardstanding, an above ground kiosk and standby generator. The compound will be located in the rear (south west) corner of the open space between Swallow Drive and Danes Stream Marsh.

Swallow Drive Vehicle Access

Access to the Swallow Drive WPS will be directly off Swallow Drive, via a new 'Cell-Web' structurally reinforced, grass access road. This type of construction uses a plastic grid which is filled with a free draining soil mix and planted in grass. This will allow minimal visual impact on the existing grass park. The access road will provide all weather access for service vehicles to the WPS, which is to be located at the rear of the park, and will be formed in a 'T' layout to enable turning of vehicles at the end. A planting scheme adjacent to the pumping station will be agreed to blend the development into the location.

The access road will be formed across the existing tarmac footpath along Swallow Drive. The existing footpath will be modified to slope down onto the new access road as the crossing point of the road will need to be lowered to allow vehicle access. Tactile paving will be used on the sloping sections of footpath.

The existing unsealed footpath across the park towards Danes Stream Marsh will be diverted around the access road while it is being constructed, but once construction is complete there will be no obstruction to pedestrians and the path will be reinstated to its current position.

Motor Control Centre (MCC) Kiosk

A “Motor Control Centre” (MCC) Kiosk is required at the pumping station to provide a secure and weatherproof housing for the electrical control panels to run the underground pumps. The Kiosk will be located within the new compound and will be non man entry.

Standby Generator

A standby generator will be installed within the new WPS compound. The generator is required to maintain power supply and pump operation during emergency power outages. Operation of the generator will therefore be very infrequent and generally for short periods of time only. Manual operation of the generator for testing to ensure operability will be necessary approximately 4 times per year, for less than an hour on each occasion during normal working hours.

Vent Pipe

As the underground pumping station, valve chamber and associated pipework will provide an enclosed air space, which will vary in volume depending on the flows of wastewater within the system, it is necessary to allow the air in the system to equalise in pressure with the atmosphere. This is achieved by providing a vent pipe. This is a normal practice for all sewer systems, including domestic systems serving houses, to incorporate vent pipes (often known as soil stacks) providing open access to the atmosphere at eaves level to prevent vacuum being generated during toilet flushing/bath emptying and equalising air pressure as atmospheric conditions change.

Three vent pipes are required with the overall scheme, one in each of the two WPS and a third pipe at the junction between the storm water storage pipes and the rising main from Plover Grove.

The vent at Swallow Lane will be within the fenced WPS.

3.7. Permitted Development

Below Ground Infrastructure

Installation of permanent below ground pipelines, chambers and manholes is assessed as being Permitted Development

The structures are at, or below ground level and therefore benefit from deemed planning permission as they fall under Southern Waters Permitted Development rights as a sewerage undertaker, under General Permitted Development Order 1995 Part 16 Class A (a) which states:

“development not above ground level required in connection with the provision, improvement, maintenance or repair of a sewer, outfall pipe, sludge main or associated apparatus;”

Temporary Construction Compound

A temporary Construction Compound is required for the duration of the construction period. It will be located immediately to the west of the proposed Keyhaven Rd WPS site within the same field. The Construction Compound will be used for temporary storage of materials, including excavated spoil, as well as placement of site cabins and welfare facilities. Parking space for site workers and delivery vehicles will also be provided.

It is considered that the Construction Compound is Permitted Development under Class A of Part 4 (Temporary Buildings and Uses) of Schedule 2 of the Town and Country Planning (General Permitted Development) Order 1995 (GPDO) which allows for development within the following definition:

“The provision on land of buildings, moveable structures, works, plant or machinery required temporarily in connection with and for the duration of operations being or to be carried out on, in, under or over that land or on land adjoining that land.”

However, forming the access into the temporary compound will require planning permission as it is a new access from an adopted highway. This is addressed in detail in the application for the Keyhaven Road WPS.

Table 2: Proposed Development Items

Item of Development	Description	Planning Requirement	Height (m) (Above Local Ground Level)	Width (m)	Length (m)	Material	Finish	Foundation Depth (approx) (m)
Swallow Drive Pumping Station Compound	New site in public park area with perimeter security fence.	Planning Permission Required	2.4 (security fence)	3.5	10.8	Steel palisade fence, concrete hard stand	Black powder coated steel	5.0
Swallow Drive WPS Access Road	New access road for operational vehicles with Cell Web reinforced grass road construction.	Planning Permission Required	0.0	3.0	80	Cell Web grass road.	grass	0.3
Swallow Drive MCC Kiosk	Small non walk-in kiosk to house electrical controls and monitoring equipment.	Planning Permission Required	2.6	1.0	4.5	Glass Reinforced Plastic	Dark Green to BS4800 ref.14-C-39	0.3
Swallow Drive Generator	Standby generator for backup power supply to new WPS.	Planning Permission Required	1.7	1.1	2.8	Stainless steel, GRP acoustic enclosure	Dark Green to BS4800 ref.14-C-39	0.3
Vent Pipe	1 no. Octagonal steel vent stacks to equalise pressures within pumping system.	Planning Permission Required	4.0	0.2		Steel	Galvanised	0.5
Valve Chamber	Underground chamber to house valves at WPS.	Permitted Development	0.0	1.5 dia.		Concrete	Natural concrete with steel covers.	1.8
Swallow Drive Pump Station Chamber	Below ground chamber for pumps to transfer wastewater into existing sewer system.	Permitted Development	0.1	4.0 dia.		Concrete	Natural concrete with steel covers.	5.0
Rising Main from Swallow Drive	New pipeline from WPS, installed along Swallow Drive and Plover Drive	Permitted Development	0.0	0.3	270	Plastic	Below Ground	1.6

Table 2: Proposed Development Items

Item of Development	Description	Planning Requirement	Height (m) (Above Local Ground Level)	Width (m)	Length (m)	Material	Finish	Foundation Depth (approx) (m)
Below ground manholes	Manholes at pipeline junctions and bends.	Permitted Development	0.0	1.5 dia.		Concrete with cast iron covers.		1.2
Temporary Construction Compound	Area for temporary storage of materials and placement of site cabins.	Permitted Development	The compound will cover an area of approximately 2,000m ² immediately to the west of the proposed Keyhaven Road WPS.					

3.8. Construction Programme

Construction activities will be limited to between 07:00 to 19:00, Mondays to Fridays and occasionally 07:00 to 13:00 Saturdays. No work is intended for Sundays.

In the event that longer working hours are necessary it would be appreciated if the granting of planning permission would allow a variation in working times with the agreement in writing of the Planning Authority.

The development work is currently scheduled to commence in February 2012. The overall scheme is programmed to take 24 weeks to construct, including 5 weeks to allow commissioning and any remedial works.

Table 2: Proposed Construction Programme

Project Task	Time Programmed (weeks)
Site mobilisation: Setting up site compounds and storage areas; this will include site preparation such as the placement of site cabins.	3 weeks
Construction period	16 weeks
Commissioning	3 weeks
Site demobilisation and any remedial work.	2 weeks

3.9. Traffic Management and Access

3.9.1. Access

Access to the Swallow Drive WPS will be directly off Swallow Drive, via a new 'Cell-Web' structurally reinforced (plastic cells), grass access road. The access road will be formed across the existing footpath along Swallow Drive with removable bollards to prevent unauthorised access. The bollards will be normally erected and only removed when access is required for operational maintenance or during emergencies.

3.9.2. Existing Traffic Movements

The existing traffic movements associated with the sewage system are infrequent and associated with inspection or emergency flooding call-outs.

3.9.3. Traffic Movements During Construction

During the main construction period there will be daily visits by 2 crew cab transit vans (20 movements per day), and visits by 2 cars for supervision purposes (12 movements per day). There will also be daily visits by lorries for continued materials delivery and removal throughout the construction period (approximately 5 movements per day)

There is not intended to be any construction traffic associated with the scheme on Saturday afternoons, Sundays or Bank Holidays. Traffic movements will be managed in accordance with best practice and incorporated within the Site HASEMP. The conclusions of the discussions with the Highways Authority, which are already taking place, will be incorporated into a Traffic Management Plan.

3.9.4. Traffic Movements During Operation

Following development, traffic to the site will consist of maintenance inspections of the WPS components and the standby generators. Generally site visits will be required once per month for only a short period of approximately one hour.

3.10. Construction Management

The Site HASEMP will be prepared as part of the scheme development. The plan is compiled by the site construction manager with inputs from the planning, public relations and environmental teams. It is used on site to manage and minimise the potential environmental impacts of construction activities. Good working practices will be stipulated in the HASEMP and will be audited and enforced by 4D.

3.11. Spoil Management

Spoil will be generated during excavations for the stormwater storage pipelines and the pumping stations. Where possible this material will be used for back fill for the trenches, particularly over the storage pipelines as this is agricultural land and uniformity of the field is desirable.

Installation of the pipeline across roads and footpaths will generate road planings which are not suitable for reuse.

Establishment of the Construction Compound will require stripping of topsoil and temporary placement of Type 1 Aggregate. Topsoil will be segregated and temporarily stored on site for reinstatement of temporarily affected areas. There will be no requirement to import additional fill to the site. Upon completion of the development the adjacent greenspace will be restored.

Where opportunities for waste minimisation, segregation or recycling exist on site their feasibility will be assessed, and if suitable, implemented.

Any waste materials from the proposed development will be managed in accordance with the Environmental Protection Act and the waste handling procedures under the contract site and waste management plans.

3.12. Hazardous Materials

During construction it is not proposed to store any hazardous materials on-site, apart from diesel fuel. Spill kits will be kept on site and all members of staff will be trained in their use. Diesel will be stored in double skinned tanks on bunded areas of hard standing in the site compound.

3.13. Manning Levels

The WPS will not be permanently manned, however Southern Water staff will occasionally visit the sites to attend operational and maintenance requirements. Generally this will be a monthly visit.

3.14. Site Lighting

Temporary lighting towers will be used within the working areas. These will not be left on overnight, and will be removed at the completion of the construction work. Temporary lighting will primarily be 150W flood lights with illumination up to 100 LUX, and lighting towers with illumination up to 300 LUX. Control will be by manual switch.

It is anticipated that the impact of the temporary lighting will not be significant because of its temporary nature, limited hours of operation and the manual control of the lights.

Permanent task lighting will also be provided in the form of a 50 W bulkhead light (100 LUX) mounted on a pole to illuminate the door into the new pumping station MCC Kiosk, and the wet well. The lights will be operated by a manual switch and will only be in use while workers are on site. In practise this means that lights are only required during working hours at the beginning and end of winter days, or should an emergency arise during the hours of darkness.

All lighting will be angled downwards and shaded to minimise upwards light spill.

It is anticipated that the impact of the additional permanent lighting will not be significant because it will not normally be illuminated, and due to the low illumination (LUX) level, design shading, and the positioning and control of the lights.

3.15. Decommissioning/Demolition

There is no significant decommissioning or demolition required as part of this development scheme. There will be some waste concrete and breakout material generated as a result of the new pipeline crossing roads, and modifications to existing manholes. The existing sewer network is to be retained and will be supported by the new works.

3.16. Site Restoration

All areas temporarily impacted by the proposed development will be reinstated to their existing condition upon completion of the development.

Planting is proposed to help blend the WPS into the location. This planting will be carried out at the completion of construction works in agreement with the Parish Council, who own the area park, prior to completion of site reinstatement.

4. POTENTIAL IMPACTS ON THE ENVIRONMENT

Appendix 1 to this report summarises the potential environmental impacts (positive and negative) caused by the development and their likely significance.

Potential effects on the environment are discussed below.

4.1. Ecology

A suitably qualified ecologist has carried out a desktop assessment and walkover survey of the site and protected species assessment/surveys have been carried out where required. The results are given in Appendix 1.

Site Ecological Assessment

The proposed new WPS compounds and vent pipes will not be within or directly impact upon any areas of significant ecological importance. Part of the new gravity sewer to the Swallow Road WPS will be installed in the footpath, adjacent to reed bed habitat along Danes Stream, which forms part of the Solent and Southampton Water Special Protection Area (SPA) and Ramsar, and Hurst Castle and Lymington River Estuary SSSI.

The reed beds are an important habitat for nesting birds during the bird nesting season, and are also used during winter months by over-wintering birds.

Initial consultation with Natural England, who must give approval prior to commencement of the works, has been undertaken. Along with advice regarding sensitive timing of the works Natural England also made a number of other recommendations which have been incorporated into a detailed method statement for the construction work. This method statement has been sent to natural England for any additional recommendations. By locating the pipeline in the footpath, the area of reed bed temporarily affected by the works has been minimised.

Trees and Vegetation Management

Installation of the Swallow Drive WPS will be at the rear of the public open space and some local removal of mixed deciduous shrubs will be necessary to enable sensitive placement of the compound into the park, and construction of the permanent structures. The area affected will be no greater than 50 m² and any removed vegetation will be replaced on completion of the construction works. Additional replacement planting beside the proposed 'Cell-Web' grass access road will also be carried out during the final stages of the construction work. Details of the species to be planted are to be agreed with the Local Planning Authority and Milford-on-Sea Parish Council during consideration of this application.

Installation of the new pipeline from Swallow Road WPS to the new storage pipes will require a small amount of vegetation removal along the Danes Stream Footpath, and in the section of land on the east side of New Lane, to enable access to construction areas. Any affected vegetation will be replaced and the areas reinstated once construction is complete. Vegetation removal on the east side of New Lane will comprise tow sections of hedgerow. A hedgerow removal licence for this work has previously been applied for and issued by New Forest District Council (ref: 11/0386). Replacement and reinstatement will be undertaken with matching species upon completion of the pipe installation.

Protected Species

Great Crested Newts (GCN)

From desktop and walkover surveys and using GIS maps, no known suitable water bodies were identified within 500m of the proposed development and surveys were not necessary for this scheme. The only known water bodies within 500m of the development are flowing rivers, which are not suitable to support GCN.

Reptiles

Part of the new pipeline will run parallel to Danes Stream in an area of tall ruderal habitat which is suitable to support reptiles. This habitat will affect approximately 100m of the pipeline route.

Other Protected Species

All other protected species have been assessed for this scheme and proposed construction works will not have any negative impacts to protected species within the area.

4.2. Archaeology and Cultural Heritage

There are large Archaeology Sensitive Areas within the area around Milford-on-Sea and Keyhaven. Consultation has been initiated with the County Archaeologists at Hampshire County Council. 4 Delivery Ltd will comply with any reasonable requires of the County Archaeologists in regards to mitigation for archaeology.

Archaeology South-East will be appointed to carry out a watching brief for the main construction works should it be deemed necessary.

4.3. Visual Assessment

The proposed Swallow Drive WPS will comprise an above ground palisade security fence around an MCC Kiosk and a standby generator. At this site, the below ground structures will be located outside of the fenced compound to enable it to be kept as small as possible.

The WPS is proposed to be located at the rear (south end) of a publically accessible open green space, partially set into existing bushes. Immediately to the west of the WPS is the boundary to residential properties, and to the south is a vegetated bank dropping into the reed beds of Danes Stream. To the north and east of the WPS is the open park with further residential properties approximately 35m away.

Due to the proximity of fenced residential properties and Danes Stream, views of the WPS are limited to those from Swallow Drive and within the park. The WPS has been located at the rear of the park to limit the impact on views from Swallow Drive and a grass surfaced access road has been specified to limit the impacts of this element of the development.

From Swallow Drive the WPS will be visible in front of existing vegetation, but will be screened partially by existing trees. Planting to assist in blending the pumping station into the location will be carried out in agreement with the Parish Council. The new access onto Swallow Drive will also be visible, however once grass becomes established in the road, only the initial tarmac section of the road will be obvious.

From within the park the WPS will be seen in the corner against existing and proposed vegetation, and with a black finish on the fencing, and dark green finish for the Kiosk and generator, the impacts are not expected to be significant.

Overall, given the small size of the WPS, and measures included in the design including the location of the WPS, the Cell-Web, grass-based access road specified, and the design and finish of the above ground units, the visual impact of the new works in this location is assessed as being acceptable.

4 Delivery Ltd will be continuing consultation with Milford-on-Sea Parish Council to ensure the design of the system and screening planting is carried out to their satisfaction.

4.4. Odour and Dust

There is a low potential for odour issues and significant dust emissions during excavation and handling of materials during construction. Normal preventative measures such as wetting dust generating activities or areas will be undertaken and specified in the HASEMP.

A vent pipes will be installed with the new WPS. While the main design purpose of the pipe is to allow air to enter the pipe system to prevent airlocks, small volumes of air may be released under some conditions. As there is potential for this air to be odorous, an elevated point of venting at 4m above ground has been specified. Similar systems for air venting are common at domestic properties, and do not generally cause odour related issues. With the measures taken in the design of the systems no problems with odour are expected with this development.

4.5. Noise

4.5.1. Construction Noise

Construction will involve the use of a variety of normal construction machinery, e.g. trucks, excavators, and cranes. The nearest properties to the WPS Compounds and the temporary Construction Compound are residential properties less than 10m from construction areas (mainly pipeline installation locations). The noisiest activity is most likely to be cutting of tarmac and concrete in the footpaths and roads for the new rising main pipeline. This will only last for a very short duration (a day or two) in any one location, and will be carried out during normal working hours.

Overall it is assessed that while construction noise will be audible at neighbouring properties, the duration of the works and the working hours proposed mean that overall construction noise impacts will be acceptable.

4.5.2. Operational Noise

The new works is mainly underground sewer infrastructure which is not noise producing. Pumps will be installed with the new system in a below ground concrete chamber, covered by solid covers, and will only operate when submerged. The pumps are not expected to audible outside the pumping station compound.

The emergency diesel generator to be installed at the WPS is intended to operate only when the normal power supply to the site fails. This means that the generator will only run when both the normal power supply fails and there is unusually heavy rain. Therefore, while with a noise rating of approximately 80dBa at 1m (including effect of sound insulating enclosure), it is accepted that the generators will be audible from adjacent residential properties, the frequency and duration of operation is sufficiently small that noise impacts are assessed as acceptable.

Vehicles visiting the site are limited in number and are not expected to create a significant noise nuisance.

4.6. Water Resource Issues

4.6.1. Groundwater Source Protection Zones / Aquifers

The development is not located within a Source Protection Zone; however it is located over Secondary 'A' Superficial and Bedrock Aquifers. The area is therefore vulnerable to groundwater pollution and detailed method statements will be produced by the construction team as part of normal site procedures to minimise the risk of groundwater contamination.

Careful site management guided by the HASEMP will be carried out to ensure pollutants are not allowed to enter the ground during construction.

4.6.2. Flood Risk Assessment

The proposed development is required to address existing flooding of properties within Milford-on-Sea and Keyhaven. The new pipelines will be constructed through areas at risk of flooding although these will be below ground and are not at risk from flood waters. The below ground pipelines will not have any impact on the floodplain storage, and nor will they increase flooding to surrounding properties.

The proposed new WPS Compound is located in an area outside of the Flood Risk Zones according to the Environment Agency Flood Risk Maps. No further work to address flooding risk or mitigation is considered necessary.

4.6.3. Flood Defence Consent

Work on the raising of the manhole and partial replacement of the sewer in the footpath adjacent to Danes Stream requires a Flood Defence Consent as it is within 8m of a major water course. 4 Delivery will apply for the necessary consents prior to undertaking any construction works adjacent to Danes Stream.

4.6.4. Other Water Resource/Protection Issues

Run-off or spillages from construction activities will be avoided through careful site management guided by the site HASEMP. This will include ensuring that the Environment Agency pollution control guidelines are followed.

Spill kits will be kept on site and all staff will be trained in their use.

Under credible scenarios, no impacts are predicted.

4.7. Local Disturbance

Construction of the proposed WPS Compound and rising main pipelines will not occur in close proximity to any local businesses or commercial properties. Impacts during construction will be limited to noise, and traffic impacts to local residents and will be controlled using best practice construction methods, as discussed elsewhere in this Statement.

Prior to the commencement of construction a letter drop to all adjacent properties will be undertaken to inform residents of the reasons for the development and the likely construction programme. It is anticipated that while there will be some local disturbance to residents during construction, The completed scheme is of a nature and scale that will not lead to any long term local disturbance.

4.8. Rights of Way

No part of the development will permanently affect any rights of way, including those past the two WPS compounds. The footpath on the south side of Swallow Drive will be reformed with new tactile paving as it slopes slightly onto the new access road crossing.

There will be some temporary footpath diversions and closures as and when construction is required which would create a hazard to pedestrians using the paths.

Renewal of a length of gravity sewer will take place within the footpath running along the northern side of Danes Stream. For Health and Safety reasons the footpath will need to be temporarily closed.

The footpath running across the public open space off Swallow Drive will be temporarily diverted to allow installation of the new Cell Web, grass access road. At this stage it is not anticipated that this footpath will require closure.

A traffic management plan will be put in place for the duration of the scheme to ensure safe pedestrian and traffic access is maintained at all times with as little disturbance as possible.

The traffic management plan, diversions for pedestrians and works on public roads will be in accordance with the New Roads and Streets Work Act 1991 (NRSWA), and will be agreed with Hampshire County Council Highways Department prior to construction commencing.

5. POLICIES

Section 38(6) of the Planning and Compulsory Purchase Act 2004 requires that if regard is to be had to the development plan for the purpose of any determination to be made under the Planning Acts, the determination must be made in accordance with the plan unless material considerations indicate otherwise.

The relevant plans to be considered are as follows:

- Hampshire, Portsmouth and Southampton Minerals and Waste Local Plan 1998
- Hampshire Minerals and Waste Core Strategy, 2007
- New Forest District Council (Outside of the National Park) Core Strategy, 2009

5.1. Hampshire, Portsmouth and Southampton Minerals and Waste Local Plan 1998

The Hampshire, Portsmouth and Southampton Minerals and Waste Local Plan, adopted in December 1998 has largely been superseded by the Hampshire Minerals and Waste Core Strategy which was adopted in 2007. There are some policies that have been ‘saved’ within the Hampshire, Portsmouth and Southampton Minerals and Waste Local Plan, and these remain relevant until the Hampshire Minerals and Waste Plan is adopted, however these are not directly relevant to, and do not affect the proposed development and are therefore not considered further here.

5.2. Hampshire Minerals and Waste Core Strategy

The objectives of the Core Strategy are as follows:

- i. Ensure that infrastructure for the management of waste and the extraction of minerals are developed with due regard to the principles of sustainable development.*
- ii. Help eliminate waste growth in the long-term and meet or exceed regional targets to limit waste growth to 0.5% a year by 2020.*
- iii. Support the driving of waste resource infrastructure and management up the waste hierarchy by helping to deliver:*
 - “A significant change in recycling so that the average recycling rate for all waste in Hampshire increases to 60% by 2020;*
 - Increasing the recovery of un-recycled waste;*
 - Provision of disposal facilities as the last option (however, one that nevertheless has to be provided for); and*
 - Enough facilities to ensure that Hampshire is net self-sufficient in waste handling capacity by 2016.”*
- iv. Provide for a supply of minerals to meet national, regional and local requirements including the regional apportionments for recycled and secondary aggregates and land-won sand and gravel, with due regard to geological, environmental and market considerations.*
- v. Encourage and safeguard facilities for the use of rail and sea transport for the movement of minerals and waste.*
- vi. Ensure that new mineral, waste and resources development are sized appropriately and designed to reduce pollution, maximise energy efficiency, promote renewable energy, encourage recycling and reduce the use of primary aggregates.*
- vii. Safeguard mineral resources and existing/potential facilities for mineral, waste and resource management.*

- viii. *Ensure the high quality restoration and aftercare of mineral working and landfill taking into account public access, biodiversity, agricultural and forestry objectives, climate change considerations and aerodrome safeguarding.*
- ix. *Protect land with international and national biodiversity designations, National Parks, Areas of Outstanding Natural Beauty and historic heritage sites and building of national importance from the impact of mineral and waste development.*
- x. *Protect local communities and areas of environmental interest from the adverse impact of mineral, waste and resources developments.”*

Paragraph 20.17 states the Council’s view of waste development with regards to sewage treatment:

“Hampshire already has enough capacity for the treatment of sewage, and liquid trade effluents from businesses. However, as a result of planned or future growth, or as a requirement of new legislation or regulatory control, new treatment facilities or expansion of existing treatment facilities may be required. Such development is generally supported. At this stage, it is not known whether or not such development will be required.”

The relevant policies of the Core Strategy to be considered are outlined below.

S7 Special Facilities

Hazardous waste management capacity will be increased by reviewing and revising the capacity and potential of existing treatment and landfill sites.

DC3 Impact on Landscape and Townscape

Regard must be given to the impact of development on visual amenity.

DC4 Historic heritage

Issues of archaeological, historical and architectural importance are to be considered.

DC7 Biodiversity

All proposals are to consider and where possible, conserve and enhance biodiversity.

DC8 Pollution, health, quality of life and amenity

Due regard to be given to effects of the development on local residents and locality users.

DC10 Water resources

Development will only be permitted where adverse effects on surface and/or groundwater are unlikely.

DC11 Flooding

Development will only be permitted in accordance with the conclusions of a Flood Risk Assessment.

DC22 Additional Plant, Buildings and Minor Development

Additional plant, buildings and minor developments at active minerals and waste sites, will be permitted provided, where appropriate, they do not extend the timescale for completion of the development, are ancillary to the operation of the site or they provide for co-location of activities.

The sections of this Supporting Statement have been prepared with consideration to the provisions of these objectives and policies. It is assessed that the application meets the objectives and policies of the Hampshire Minerals and Waste Core Strategy and planning permission can be granted.

5.3. New Forest District (Outside the National Park) Core Strategy (2009)

The New Forest District (Outside the National Park) Core Strategy sets out the strategy for future development within the applicable areas and is a key part of the district’s Local Development Framework which will guide spatial planning within the district.

The policies within the New Forest District Core Strategy do not relate directly to the proposed development, although some are applicable in broader development terms. The policies with relevance to the proposal are:

Policy CS1

“All new development will be expected to make a positive contribution towards the sustainability of communities and to protecting, and where possible enhancing, the environment within the Plan Area.”

Policy CS2 Design quality

“New development will be required to be well designed to respect the character, identity, and context of the area’s towns, villages and countryside. All new development will be required to contribute positively to local distinctiveness and sense of place, being appropriate and sympathetic to its setting in terms of scale, height, density, layout, appearance, materials, and its relationship to adjoining buildings and landscape features, and shall not cause unacceptable effects by reason of visual intrusion, overlooking, shading, noise, light pollution or other adverse impact on local character and amenities.”

Policy CS8

“New Forest District Council will work with service and infrastructure providers with the aim of ensuring the delivery of adequate infrastructure and services, (Chapter 10 and the Delivery Plan) to serve existing and proposed development in the Plan Area and support the local economy, ensuring that any adverse impacts arising are minimised, and that decisions on the provision of such infrastructure are taken on the basis of environmental sustainability as well as cost. Attention will be given to addressing the needs of areas of particular social deprivation.”

Policy CS10

“The spatial strategy is to provide for sustainable development to help meet the needs of local communities and the local economy.”

The development is required to improve the existing sewer network and reduce the occurrence of flooding and sewer overflows. The development proposed is modest in scale and measures have been included in the design to minimise visual impact, particularly through landscape planting, and colour selection of new above ground structures. It is our assessment that the development as proposed is in accordance with the New Forest District Core Strategy and Planning Permission can be granted.

6. CONCLUSION

The sections of this supporting statement and submitted documentation accompanying the application demonstrate that given the need for the works to reduce the occurrence of sewer overflows into Danes Stream and nearby properties, the proposed development is proportionate to the need, is appropriately located, and will be carried out with consideration of environmental impacts. The development will provide an environmental improvement for the protected waters and habitat of Danes Stream and will be of benefit to the community.

There are no significant impacts associated with operation of the development, and any adverse impacts associated with the construction period will be minor, and of a temporary nature. Impacts associated with the scheme are mainly nuisance impacts associated with the construction phase of the development, namely construction noise and additional traffic to site.

In these circumstances and having regard to the provisions of the relevant plans, we consider planning permission should be granted.

Nick Gillott

November 2011
4 Delivery Ltd.

APPENDIX 1 - ENVIRONMENTAL APPRAISAL

Environmental Issues	Description	Construction		Operation	
		Potential Impacts (positive and negative)	Controls	Potential Impacts (positive and negative)	Controls
Ecologically Designated Areas	A short section of the new pipeline will be located within an area of reed bed which is designated as a Special Protection Area (SPA) and Ramsar under European legislation and a SSSI under national legislation.	Encroachment into the reed bed areas during installation.	The new pipeline is to be located beneath the existing footpath to minimise the area of reed bed affected. Clearance of reeds to access the centrally located manhole will be minimised through use of minimal construction machinery.	No significant impacts.	None required.
Current Land Use	Improved hay pasture which is regularly mown off Keyhaven Road. Public Open Space at Swallow Drive.	Partial loss of hay field during construction.	The area of land affected has been minimised as much as possible to reduce impacts to adjacent residents and the land owner. Construction will be for a temporary period only and all temporarily affected areas will be reinstated upon completion. Construction work at Swallow Drive will be served from the Keyhaven Road Construction Compound to minimise the impact on the public space at Swallow Drive.	Loss of hay field to new WTW compound. Loss of recreational land at Swallow Drive.	WTW land take minimised and located sensitively. The proposed WPS Compound has been located in the back corner of the park to minimise loss of utilised land. New planting will mitigate the loss of vegetation and space.

Environmental Issues	Description	Construction		Operation	
		Potential Impacts (positive and negative)	Controls	Potential Impacts (positive and negative)	Controls
Trees/hedgerows/scrub	<p>Removal of a short length of sections of hedgerow will be required on land to the east of New Road to enable installation of the new rising main pipeline.</p> <p>Removal and/or trimming of vegetation at Swallow Drive and Danes Stream footpath.</p>	Vegetation removal is required to enable access for construction machinery.	All vegetation removed for construction will be replaced with matching species and surrounding areas will be reinstated.	Permanent loss of existing vegetation around Swallow Drive WPS.	<p>New trees will be planted along the grasscrete access road off Swallow Drive to mitigate the loss of a small amount of mixed species shrubs within the footprint of the new compound.</p> <p>A new hedge will be planted along two sides of the Keyhaven Rd WPS to reduce visual impact.</p>
Protected Species:					
Great Crested Newts (GCN)	<p>From a desktop assessment and a walkover survey, there are no known suitable water bodies within 500m of the site.</p> <p>The only known water bodies within 500m of the proposed site are flowing rivers which are not suitable to support GCN.</p>	No impacts.	None required.	No impacts.	None required.

Environmental Issues	Description	Construction		Operation	
		Potential Impacts (positive and negative)	Controls	Potential Impacts (positive and negative)	Controls
Badgers	Recent surveys identified that there are no badger setts or signs of obvious activity within the field or the immediate surrounding area.	No impacts.	None required.	No impacts.	None required.
Reptiles	The new pipeline will cross a small area of tall ruderal habitat, on New Lane, which has some potential to support reptiles. Approximately 70m of pipeline will be installed through this habitat.	Impact on reptiles within the area.	Grass in field to be kept short prior to construction works. This will discourage reptiles from the area prior to works being undertaken.	No impacts.	None required.
Water Voles	Recent surveys have confirmed that the development will not have any effect on habitat suitable for water voles.	No impacts.	None required.	No impacts.	None required.
Dormice	No habitat suitable for dormice will be affected by the proposed development.	No impacts.	None required.	No impacts.	None required.

Environmental Issues	Description	Construction		Operation	
		Potential Impacts (positive and negative)	Controls	Potential Impacts (positive and negative)	Controls
Birds	There are no trees to be affected by the proposed development. Reed bed and scrub habitat may be used by nesting birds and over wintering birds.	Potential impact on breeding and nesting birds, and over wintering birds in the reed beds.	The construction phase of the development has been programmed to take place between August and mid November to avoid the bird nesting season and impacts on over wintering birds.	No impacts.	None required.
Bats	No tree works are required. The development proposal will not affect trees or buildings offering potential for roosting bats.	No impacts.	None required.	No impacts.	None required.
Aquatic Ecology	No impacts expected upon water courses.	Runoff containing silt or other contaminants may enter stream during construction.	Careful site management with site HASEMP will ensure no contaminants can enter stream. Spill kits will be kept on site for emergency use.	New works will reduce the likelihood of sewer flooding into Danes Stream.	Impact is positive.
Water Quality	Discharge of contaminants to groundwater.	Potential negative impacts on groundwater of diesel spill during construction.	Compliance with the EA Pollution Prevention Guidelines will be incorporated within the HASEMP. Diesel will be stored on bunds and machinery will have oil drip-trays. Spill kits will be provided.	New works will reduce the likelihood of sewer flooding into Danes Stream.	Impact is positive.

Environmental Issues	Description	Construction		Operation	
		Potential Impacts (positive and negative)	Controls	Potential Impacts (positive and negative)	Controls
Ground Conditions	There is no indication that historic contamination may exist at the site.	No impacts.	None required.	No impacts.	None required.
Air Quality / Odour	Potential for dust emissions associated with the excavation and handling of materials during construction.	No significant impact.	Normal site practise of dust control by wetting dust generating activities or areas will be carried out if necessary. These will be incorporated within the HASEMP.	No impacts.	None required.
	Odours from process.	None.	None required.	Vent pipe are required with the new system to prevent air locks within the system and may release odourous gas.	4m vent pipes specified so any gas released will be well above ground. Pumps are only engaged during high flow storm events so air/gas flow will be minor.

Environmental Issues	Description	Construction		Operation	
		Potential Impacts (positive and negative)	Controls	Potential Impacts (positive and negative)	Controls
Built Heritage/ Archaeology	There are large Archaeology Sensitive Areas within the area around Milford-on-Sea and Keyhaven. Consultation has been initiated with the County Archaeologists at Hampshire County Council.	Disturbance to ground having potential impact upon areas of archaeological interest.	<p>4 Delivery Ltd will comply with any reasonable requires of the County Archaeologists in regards to mitigation for archaeology.</p> <p>Archaeology South-East will be appointed to carry out a watching brief for the main construction works should it be deemed necessary.</p>	No impacts.	None required.
Noise / Vibration	Noise or vibration during construction or operation.	Nearby residents exposed to temporary increases in noise levels associated with construction activities.	<p>Any noise associated with the construction activities will be short term and will be managed in accordance with best practice and incorporated within HASEMP.</p> <p>Construction plant will be carefully selected and located to ensure there is no significant noise or vibration impacts.</p> <p>Construction activities will be limited to normal working hours and will not be carried out on Saturday afternoons, Sundays or Bank Holidays.</p>	Noise from generators when in operation.	The generators will be housed in noise insulated enclosures to limit noise production. Operation of the pumps system will only occur during storm conditions and the generators will operated only if normal power fails during such events. In total operation of the pumps is expected to occur for an average of 1 hour per year, and the generators will be less than this.

Environmental Issues	Description	Construction		Operation	
		Potential Impacts (positive and negative)	Controls	Potential Impacts (positive and negative)	Controls
Traffic	Traffic impacts	<p>During the peak mobilisation period fixed bed lorries delivering temporary site cabins and materials to the site will make approximately 96 movement over 3 weeks, while cars and light vans will make approximately 80 movements over the same period.</p> <p>During the main construction period daily visits by cars or light vans will generate approximately 32 movemetns per day, and there will be approximately 10 lorry movements each day to move materials and construction equipment.</p>	<p>The number of additional movements will be for a temporary period only.</p> <p>There will be no construction traffic associated with the scheme on Saturday afternoons, Sundays or Bank Holidays.</p> <p>Traffic movements will be managed in accordance with best practice and incorporated within the Site HASEMP.</p> <p>Sufficient parking for the vehicles associated with the development will be provided within the WTW and temporary working areas.</p>	<p>Operational visits will only be required on a monthly basis for the purpose of maintenance. Emergency call outs may also be required in the event of system failure.</p>	<p>The systems are monitored and controlled by telemetry so site visits will not be required on a frequent basis. No controls are considered necessary.</p>