

# **CONSTRUCTION MANAGEMENT PLAN**

INTEGRA 61 PLOT DC3

2<sup>nd</sup> February 2022

## Executive Summary

This Construction Environmental Management Plan (CEMP) addresses the requirements of Durham County Council Construction /Demolition Management Plan guidance and associated Proforma Appendices.

The Plan status is “draft in principle” for update and refinement during determination subject to the appointment of a main contractor and detailed design.

The completed Proforma documents 1,2,3 required by the Guidance are included

## Contents

1. Introduction
2. Site Information
3. Dust Management
4. Roadway Control
5. Site Lighting
6. Noise and Vibration
7. Community Liaison
8. Audits

# 1. Introduction

## 1.1 Purpose and Scope

The appointed Main Contractor will act as principal contractor for the construction of four industrial sheds within the development of Integra 61 Plot DC3. This document is designed to satisfy the pre-commencement planning conditions as required by Durham County Council (DCC), application number DM/18/01597/VOC.

The CMP provides the vehicle through which the environmental impacts associated with the works will be managed and is aligned with the Appointed Main Contractor's Environmental Management System which is aligned to the requirements of ISO14001:2015. In summary this plan :

- Identifies the environmental issues associated with the works.
- Sets out the mitigation and management measures for the environmental issues.
- Describes the monitoring of the key environmental issues.
- Describes how the requirements of the EMP are implemented, particularly with regard to protocols and procedures.

## 1.2 Aim of the CMP

Successful implementation of this CMP will help to:

- Limit the environmental impact of the works.
- Ensure a proactive approach to the management of environmental issues with a commitment to continual improvement of the site's environmental performance.
- Ensure full compliance with environmental legislation, environmental contractual requirements, and other environmental obligations.
- Ensure that all staff are aware of their responsibilities regarding management and improvement of environmental issues.
- Meet the requirements of keystakeholders.

## 2.Site Information

### 2.1 Site location

The site is located on undeveloped and cleared land around 0.5km from Durham Services and across from the newly constructed Amazon unit at Plot1 with road access to the A688. Figure 1 displays the proposed site boundary.

The site neighbours are Amazon to the South and the Bowburn Sewerage Works to the East. The central Ordnance Survey National Grid Reference of the Site is NZ 305 373

The listed address for the site is Land East of Rosalind Franklin Way, Bowburn, Durham DH6 5NP.



Fig1

## 2.2 Description of works

The works are to generally comprise of:

- Site clearance including the removal of grassland (placed as temporary cover to existing plateau). Cut & fill balance works to form development area and landscape areas.
- Services and drainage installation.
- Construction of 4nr industrial Shell & core units
- Fencing works around development units.
- Green infrastructure works and landscaping



## 3. Waste Management & Pollution Control

### 3.1 Dust Management

Dust from site operations can settle on neighbouring properties which may cause eye irritation, exacerbate asthma or affect plant growth.

In addition, black smoke from plant and equipment is likely to cause damage to human health. Uncontrolled dust and air emissions can lead to valid complaints and the Local Authority has the power to stop works if dust is causing a statutory nuisance.

The following control measures will be applied:

- Sensitive receptors will be identified.
- Weather conditions and prevailing wind direction will be checked to plan in activities that may cause dust to arise. If weather conditions are not favourable, activities will be carried out on a different day.
- Plant and equipment will be maintained regularly to reduce the number of impromptu fumes and smoke emitted.
- Any cutting and grinding operations on site will be adequately shielded or wetted to prevent dust.
- Fine, dry materials must be stored within buildings, where possible or protected from wind.
- Silos and stockpiles will be positioned away from residential areas and watercourses.
- Stockpiles will be graded and dampened down to prevent windblown dust.
- Dry, dusty materials will either be cleaned up or damped down.
- Burning/fires will not occur on site.
- Roadways and surfaces will be swept and damped down with water at regular intervals where dust may be a problem.
- Drop heights into haulage vehicles etc will be minimised and dry materials leaving site will be sheeted. All vehicles will adhere to on site speed limits.
- Wheel-washing facilities will be installed to reduce mud drag out onto the public highway.
- Monitoring will be carried out using fixed or portable meters. These do not necessarily have to be expensive.
- Visual checks and recording findings are the most common way of monitoring dust leaving the site boundary. Daily checks must be made of the site boundary during dusty activities, checks can be backed up with photographic evidence.
- The workforce will be trained to reduce dust and air emissions from onsite activities. Any complaints must be reported at the earliest available opportunity and dealt with promptly to the satisfaction of all parties involved.
- Site rules will be in place which indicate to switch off plant when not in use to reduce exhaust emissions. All plant must have recorded maintenance programmes,



- Haul routes will be planned with minimum distances.
- There will be consideration of using electrical equipment rather than internal combustion engines.
- Electricity suppliers will be contacted early in project preparation so electrical supply is available to negate use of generators.
- All dust and air quality complaints will be recorded and acted upon. The cause will be identified, and appropriate measures taken (as outlined above) to reduce emission in a timely manner and recorded.
- The contractor will ensure that all operatives employed on site: understand their responsibilities for minimising the generation of particles and dust; appreciate the effect of dust on health and the environment, the benefits of reducing dust generation and the methods to reduce dust generation.

## 3.2 Environmental Aspects and Control Measures

During the enabling works carried out by the Main Contractor, there may be various environmental aspects giving rise to risk on site. The Main Contractor will have an Environmental Impact Assessment document and aspects register which outlines the aspects and impacts likely to cause significant adverse environmental effects.

### 3.2.1 Water Management and Pollution Prevention

There is a balancing pond identified on the site to the NorthWest, and the Sewerage/Water treatment works on the opposite side of the road adjacent the site entrance.

The anticipated ground conditions have identified that infiltration is probably not suitable, as such, it has been proposed for surface water to be discharged into the adjacent balancing pond, with Foul drainage into the adjacent foul system connection fed from the water treatment works between the site and Bowburn Beck (the connection is shown on the site plans).

Due to the nature of the work activities which will take place during construction, further mitigation measures will be taken to prevent pollution to the sensitive areas of the site, these will include:

- Re- fuelling will not take place within 10 metres of surface waters.
- Stockpiles are to be located at least 10m from surface waters and be managed to prevent dust and run off.
- Immediate action will be taken if any high levels of sediment are identified which could cause pollution.
- Mitigation actions will be implemented immediately.
- Pollution will be controlled at source whenever possible.
- Site activity will be halted if high levels of sediment are identified caused by site activities.
- Environmental representatives will be consulted if in doubt.
- Straw bales, silt fencing, etc. may be placed to help control sediment immediately and/or measures already in place checked for efficacy.
- The effectiveness of protection measures will be monitored daily and re-planned, as necessary, along with monthly audits to ensure efficacy.
- Training will be given to the site operatives outlining these mitigation measures.

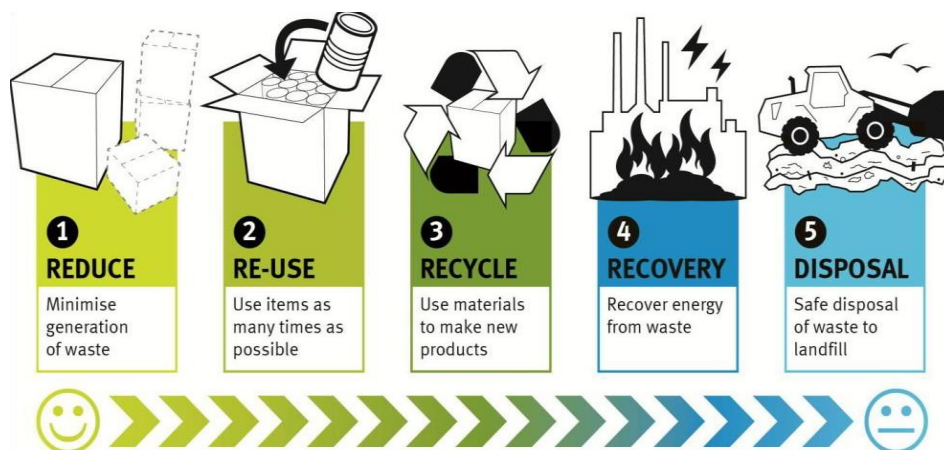
## 3.2 Waste Management



A Site Waste Management Plan will be produced which outlines measures taken to reduce waste, the expected generated waste streams, associated permits and licences, and a running tally of waste streams and associated volumes that have left the site.

Waste skips/containers will be labelled and in good condition. They will be stored securely on hardstanding and locked /covered where applicable to prevent the escape of waste to the environment and neighbouring facilities. Skips will be stored in an appropriate area and outlined within the siteplan.

Hazardous wastes will be stored separately from other hazardous and non-hazardous wastes. The waste hierarchy will be adopted on site.



Ref: Pollution Prevention Guidelines: PPG1, July 2013

**Prevent** – e.g. ensuring accurate measurements are taken when ordering materials, not over-ordering and storing materials securely to prevent damage from the elements or sitetraffic.

**Re-use** – e.g. re-using whole bricks, re-using uncontaminated naturally occurring material on site and re-using timber off-cuts.

**Recycle** – e.g. using recycled aggregates on site and sending material to a recycling facility.

**Recover** – e.g. sending material to an Energy from Waste (EfW) Facility.

**Disposal** – e.g. disposing of waste at a landfill or incinerator which does not recover energy.

Any waste required to be removed from site will be accompanied by a Waste Transfer Note (WTN) for non-hazardous waste, or a Hazardous Waste Consignment Note (HWCN) for Hazardous Waste. Waste documentation will be retained for the legally required timeframe of two years for WTN and three years for HWCN.

Duty of care checks shall be carried out on waste contractors to ensure permits and licences are valid and have not been revoked by the Environment Agency.

All who attend site will be trained in the waste management procedures for the site.

### 3.3 Materials Management & Stockpiling

The Earthworks Strategy outlines a cut and fill balance on site. Material will be taken from borrow pits and all arisings retained on site.

Material on site will be re-used under the Definition of Waste Code of Practice (DoW CoP), and a CL:AIRE Materials Management Plan (MMP) will be produced for re-use of material on site of origin. The MMP will assess whether materials are classed as waste, identify if treatment is required, and provide an auditable trail to demonstrate the DoW CoP has been implemented.

Material arisings will be stored on the site during the works. Control measures include:

- Development of a Spill Response Plan.
- The perimeter of the stockpile will be delineated with an earth bund where possible. The bund will have the capacity to contain at least 110% of the contents of the largest container or 25% of the total. This will prevent any fines running off on to the site and potentially surface waters.
- Undertake a Control of Substances Hazardous to Health (COSHH) assessment for hazardous materials.
- Segregate COSHH raw material stores and COSHH waste stores.
- Develop a COSHH Register documenting materials stored and handling requirements.
- Material will be stocked at least 10m from surface waters to prevent run-off entering them. This stockpiled material will also be moved to its final destination as soon as reasonably practicable.
- Materials will be stockpiled at least 5 meters away from trees or native vegetation, and never pushed up around the base of trees.
- Stockpiled materials will be approximately 3 – 4m in height and will have a maximum 2:1 slope.
- Stockpiles will be graded and dampened down to prevent windblown dust and reduce run off.
- Stockpiles will be stored for a limited time to prevent anaerobic conditions.
- Materials will not be stored for more than 1 year.
- If contamination is identified, area will be quarantined, and material chemically tested to determine if it can be reused on site.
- Contaminated material will be stocked away from sensitive receptors, on an impermeable surface, and covered if required.

Staff will be trained in use of spill kits and correct waste disposal practice

### 3.4 Emergency Preparedness and Response

There is the potential for activities on site to cause minor spills leading to pollution of the environment. In order to minimise these situations, The Main Contractor will have procedures in place relating to refuelling, spillages, and waste management, such as the Spill Response Plan referenced within the MMP.

Spill kits are held on site in designated locations, which may change with time, but will be agreed with the site manager and outlined during the induction and spill response toolbox talks.

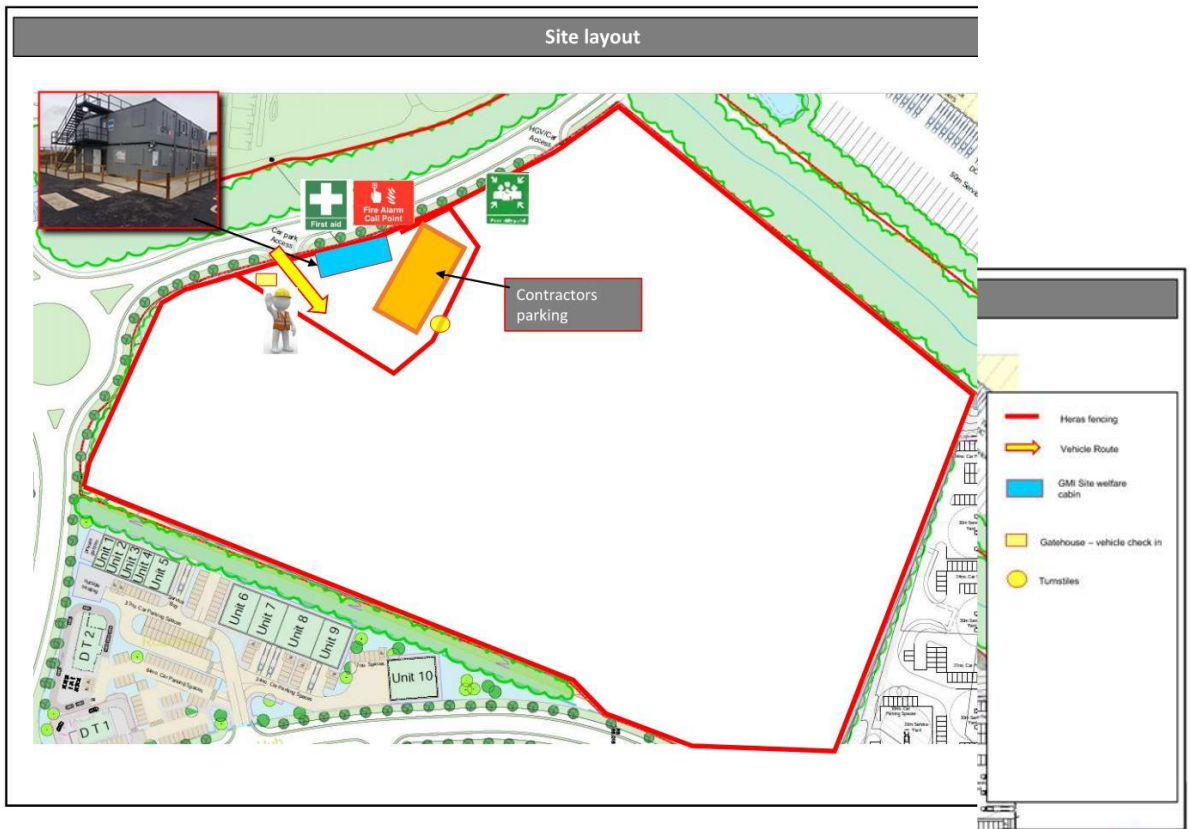
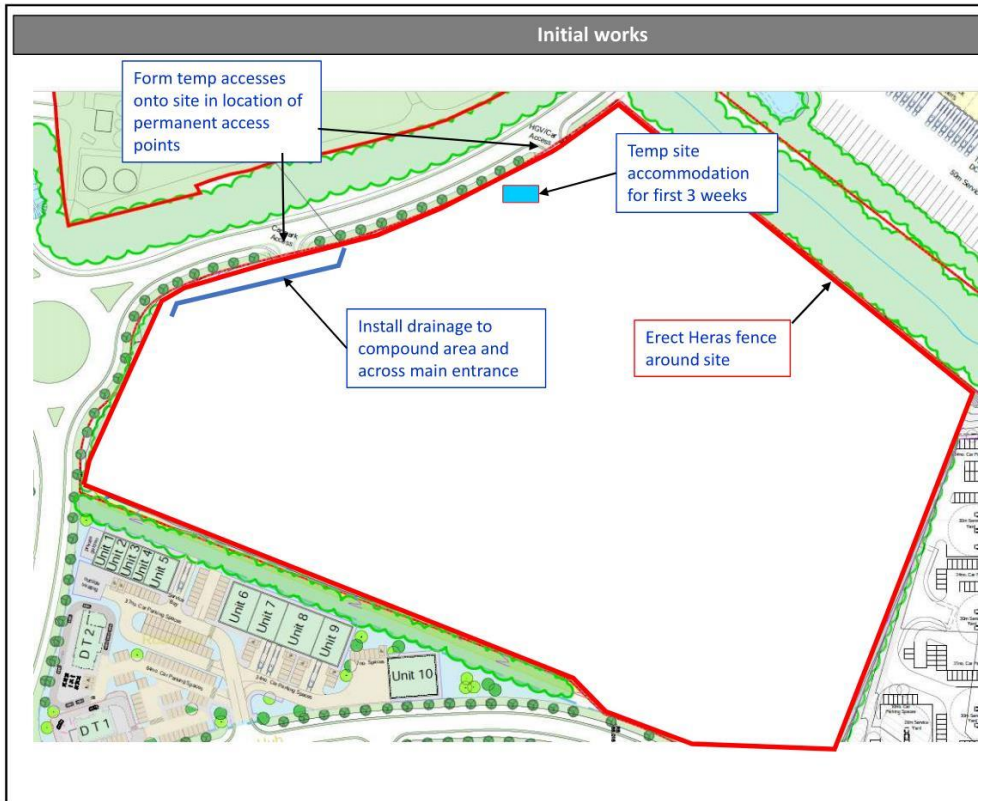
Spill of fuel/oil etc. can cause damage to surrounding habitats and watercourses. The Main Contractor will incorporate and develop the following instructions in their Emergency Response Plan for the site:

- Appropriate PPE will be worn before taking action.
- A pollution incident will be contained immediately using absorbent materials and booms, or by digging containment facilities or bunds.
- Incident will be reported to the Main Contractor's SHE department who will contact the Environment Agency if necessary.
- A designated spill clean-up company will be contacted for appropriate assistance.
- After an incident, all waste generated by clean-up activities will be disposed of by an authorised waste carrier to a permitted disposal site accompanied by correctly completed waste documentation.
- Ditches will not be dug draining polluted matter to watercourses.
- Booms and bales used to hold or contain polluting materials will not be removed without authorisation.
- Incidents will not be ignored.

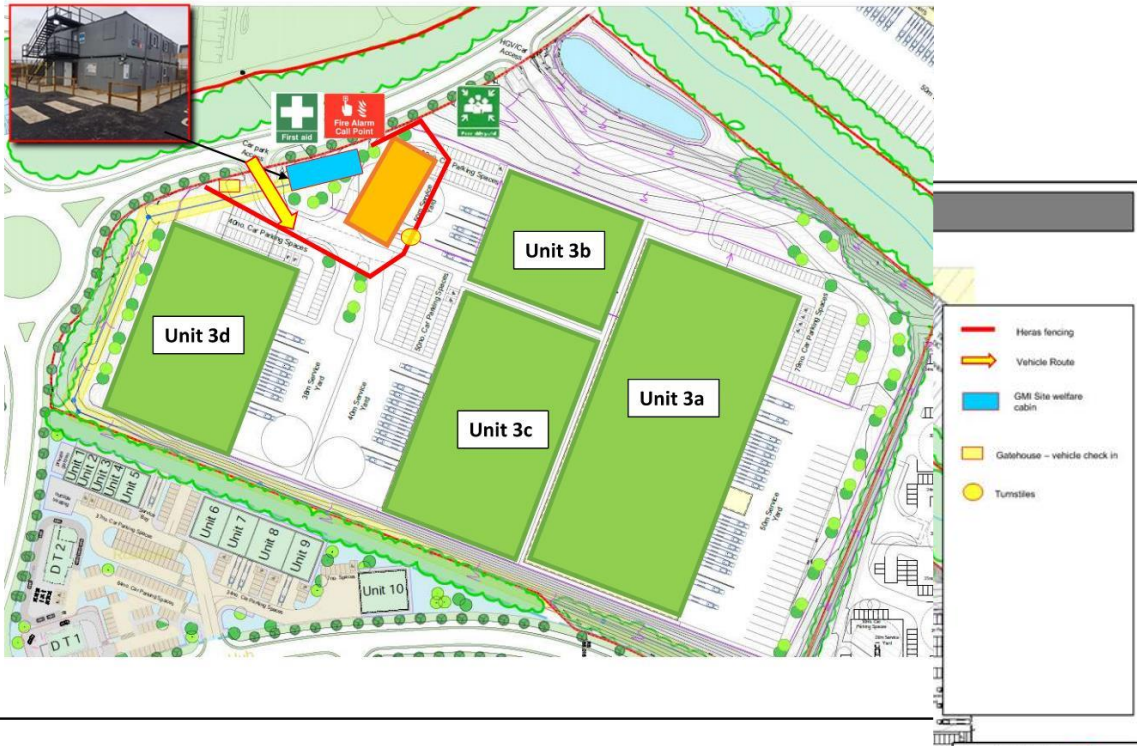
## 4. Roadway Control/Traffic Management

In order to ensure the smooth flow of deliveries and collections to site and no disruptions to the operations of neighbouring facilities, The Main Contractor will develop a Traffic Management Plan (TMP), detailed within the Environmental Statement. Traffic on and offsite will be controlled. A Site Safety Plan will be produced identifying all key safety requirements including traffic movement onto and around the site. The main measures will include:

- All deliveries to the site must be pre-booked 48 hours in advance with sub-contractors, site foreman and supervisors who will then inform the site manager. This is to coordinate the adjacent site arrival and departure, shift change times, as well as school hours.
- All vehicles will remain on temporary hard standings whilst on site.
- All vehicle wheels will be checked by the Gateman before leaving site and will be washed and brushed clean as necessary in the wheel wash area if required or pass through the provided wheel washing plant. Any residual matter will be swept and washed off the adjacent Highway.
- All vehicles off-loading and loading will be carried out within the site boundary without impeding the A688.
- Whenever practicable site traffic will be directed to avoid residential areas.
- Construction site parking will be dealt with within the site boundary with a bespoke compound provided so as to not affect any access to neighbouring properties or businesses.



Site layout





## 5. Site Lighting

Site lighting is often required to provide a safe working environment and security out of hours.

- Site welfare and safety lighting will be restricted to the compound.
- Boundary cameras will have PIR sensors that will only active upon detection.
- All / any lighting should be directional to inboard of the site and lux levels suitable for use.

### Lighting Plan

The main objectives of this plan are to:

- Provide guidance for construction lighting that reduces the amount of excessive light outside of the construction areas.
- Provide a clear list of lighting types to be used and the approximate locations of each unit of lighting; and
- Outline the mitigation measures that must be implemented and managed.

### General Lighting Guidelines

The Management of Health and Safety at Work Regulations 1999 (MHSW)<sup>1</sup> require employers to have arrangements in place to cover health and safety. This includes lighting which needs to be suitable and adequate to meet the requirements of the workplace (Health, Safety and Welfare) regulations 1992.

For all construction activities where mobile or fixed lighting is required for the project, the contractor shall ensure, at all times, that the control of the lighting is in accordance with BS5489-1:2013, BS EN 13201, BS12464, ILP GN01 and the Clean Neighbourhoods and Environment Act 2005.

The operation of any temporary lighting shall be throughout all hours of darkness, taking into consideration the management and mitigation of obtrusive artificial light, and the Main Contractor shall institute a means of regular inspection to ensure this requirement is met.

### Mitigation Measures

The term obtrusive artificial light refers to, but is not limited to, any light that may cause detriment or undermine safety to the workforce, public and wildlife.

The following mitigation measures must be always adhered to in an effort to reduce the amount of excessive lighting on site. It is the responsibility of the Project Manager to ensure that these measures are implemented at the Integra 61 scheme.

- Unnecessary discomfort glare is caused when a light source is aimed in the direction of an observer. By keeping the lighting at an elevated height, the risk of glare is reduced. The designer and contractor shall ensure that any mobile or fixed lighting does not cause unnecessary discomfort glare either within the construction site itself or towards the roads adjacent to the construction site.
- Where possible, perimeter and inner lighting should always be facing inwards towards the centre of the work area.
- Construction lighting will never be aimed upwards.



- In the event that lighting is required to be facing to the site exterior, it will be aimed in such a way to focus on a specific work area and controlled as such, using louvres or shields, to ensure the light is not trespassing into areas not controlled by the site.
- Specialist operational lighting that is not providing general lighting to an area will only be active during times when the specific operations are taking place.
- Lighting will be organised and operated to minimise excessive illumination.
- Where practical and safe to do so, dimming, or complete switch off of specific lighting shall occur where the traffic flows or tasks decrease or cease respectively.

All external lighting installed shall be sufficiently screened and aligned so as to ensure that there is no direct illumination of neighbouring land and that light spillage beyond the boundaries of the site is minimised.

## 6.Noise & Vibration

Noise pollution and vibration has the potential to create a statutory nuisance. This can disturb local wildlife, residents and businesses.

In the event of a noise complaint, the Local Authority has the power to stop the works if noise is causing a nuisance (Control of Pollution Act, Section 60).

The sensitive receptors to the site are outlined in Table 1 and Figure 2 below.



Fig2

**Table 1: Sensitive Receptors**

Ref	Description	Sensitivity	Closest source of Potential Impact	Approximate Distance to Source (m)
R1	Residential Estate – Rosalind Way	Medium	Works/construction taking place on North area of site	150m
R2	Water Treatment Works	Low	Works/construction taking place on Southeast area of site	50m
R3	Neighbor plot – Industrial/Logistics hub	Low	Works/construction taking place on South area of site	70m to reserve boundary
R4	Costa Coffee café/drive through	Low	Works/construction taking place on North area of site	20m to boundary

Given the location of the site and sensitive receptor proximity, a section 61 noise consent is considered an unlikely requirement for the works. The activities are unlikely to cause a nuisance or impact residential areas. However, the following control measures will still be applied:

- A risk assessment will be produced to assess the risk of disturbance on local residents and wildlife areas.
- Plant and equipment will be in a good condition and well maintained.
- Unnecessary noise will be minimised using acoustic barriers or silencers as appropriate.
- Noisy activities will be restricted to working hours Mon – Fri 08:00 – 18:00hrs, Sat 08:00 – 14:00hrs.
- Deliveries will be planned to minimise potential nuisance to the local community and drop heights into hoppers, lorries and other plant must also be minimised. Screening such as straw bales, ply board or acoustic barriers may also be necessary between plant and sensitive locations e.g. residents.
- The use of white noise and directional reversing warning alarms will be employed on all mobile plant to reduce impact.
- Local Authorities will be contacted with regards to out of hours work.
- Letter drops will take place to inform neighbours and local residents of planned activities.
- Any complaints received will be reported and dealt with promptly to the satisfaction of all parties involved.
- Vibration is unlikely to affect the sensitive receptors. Any monitoring requirements for noise and/or vibration will be completed, and the data submitted promptly.
- Appropriate training and awareness will be undertaken with the workforce to reduce unnecessary noise. All necessary steps will be taken to prevent noise nuisance.

- Discussions will take place with operators with regard necessary control measures if peak noise levels are reached.
- The use of anti-vibration tools and equipment will be required as specified in the Control of Vibration at Work Regulations 2005.

## Community Liaison

A Community liaison and Engagement plan will be developed by the Main Contractor upon selection in accordance with the aspirations of the DCC guidance plan, and the Main Contractor shall have a appropriate method of informing local neighbours of the works , and dealing with complaints from members of the public ./ businesses.

## 8 Audits

### Site Audits

The implementation of the CEMP will be checked through regular site inspections and through environmental audits. An audit programme will be implemented and takes into consideration:

- The environmental importance of the project activity concerned.
- The results of previous environmental audits.
- Occurrence of any project environmental non-conformances.
- Concerns raised by the project team or interested parties.

Regular Environmental and H&S Inspections shall be undertaken by the Main Contractor to check that the works are being undertaken in accordance with the CEMP. The inspections will cover the key themes such as fuel storage, ecological controls, waste management, noise, dust and air quality, carbon & sustainability etc.

Actions raised by the audit will be checked for closure during the next audit. Actions which have not been closed out, good practice and areas of improvement will be addressed during management meetings for attention.

# Appendix : DCC Proformas

## Document 1: Construction Management Plan Pro forma

<b>1. General details</b>			
<b>1.1 Site address</b>			
<u>Land off Rosalind Way, Bowburn, Durham DH6 5NP</u>			
<b>1.2 Name of main contractor</b>			
<u>[Tbc-Yet To be appointed]</u>			
<b>1.3 Contact name and designation</b>			
<u>[To be provided upon Main Contractor appointment]</u>			
<b>Email address</b>		<b>Tel no</b>	
<u>[To be provided upon Main Contractor appointment]</u>		<u>[tbc]</u>	
<b>1.4 Overview of project</b>			
Construction of 4nr industrial units with associated hardstandings, parking, drainage infrastructure and landscaping			
<b>1.5 Timescales (from-till)</b>			
<b>Start</b>	May 2022	<b>Demolition</b>	N/A
<b>Ground works</b>	May 22 – July 22	<b>Piling</b>	June 22 – Aug 22
<b>Construction</b>	July 22 – March 23	<b>Completion</b>	April 23
<b>1.6 General description of current site</b>			
Plateaued site covered with protective layer of soil ready for site strip / cut /fill operations			

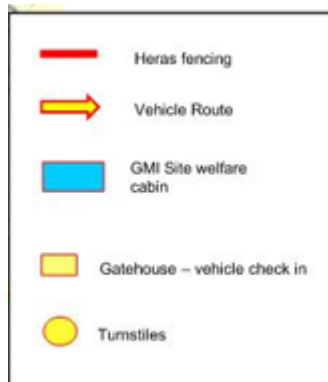
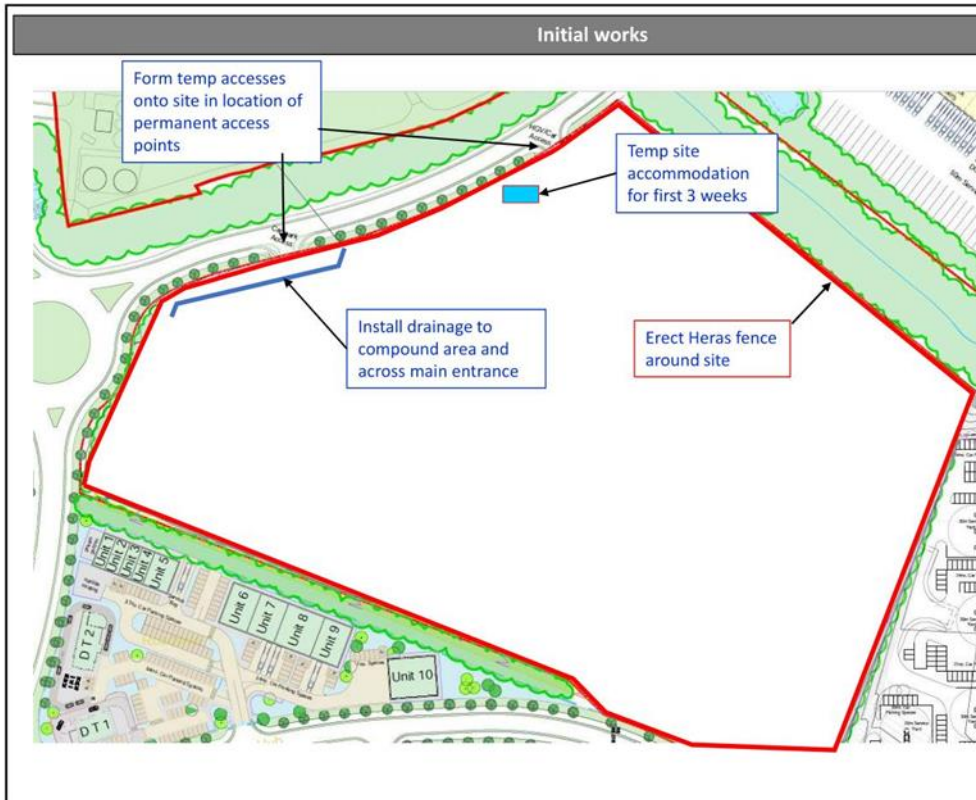
1.7 Distance from and type of receptor

North	150m	South	50m
West	60m	East	25m

1.8 Details of traffic routing and parking provisions, to include the designation, layout and design of construction access and egress points and any relevant signage both on and off the site

See draft site logistics plan

[Full logistics plan to be confirmed upon Main Contractor appointment

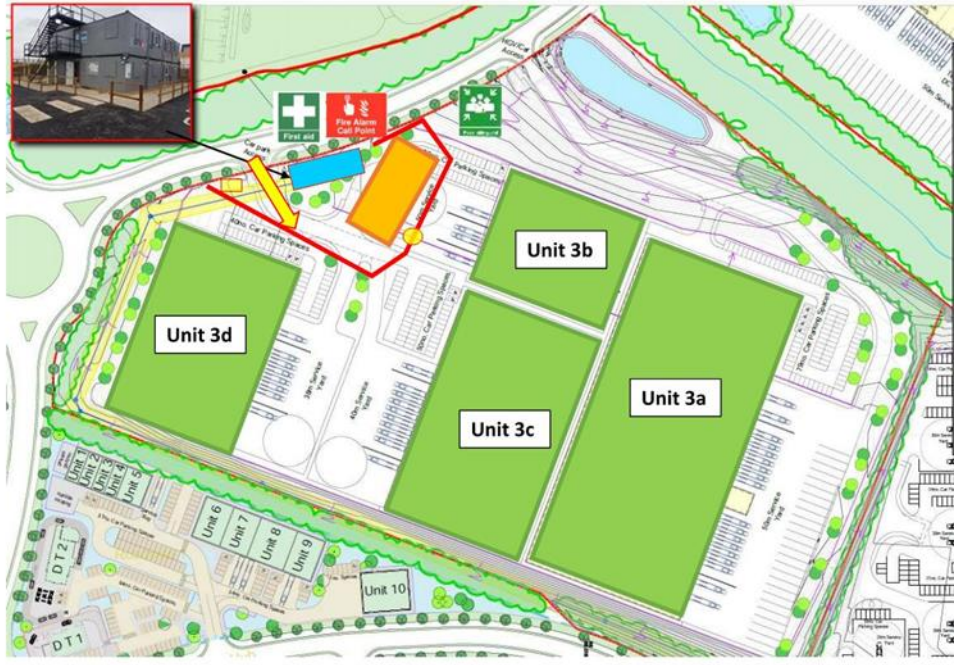




Site layout

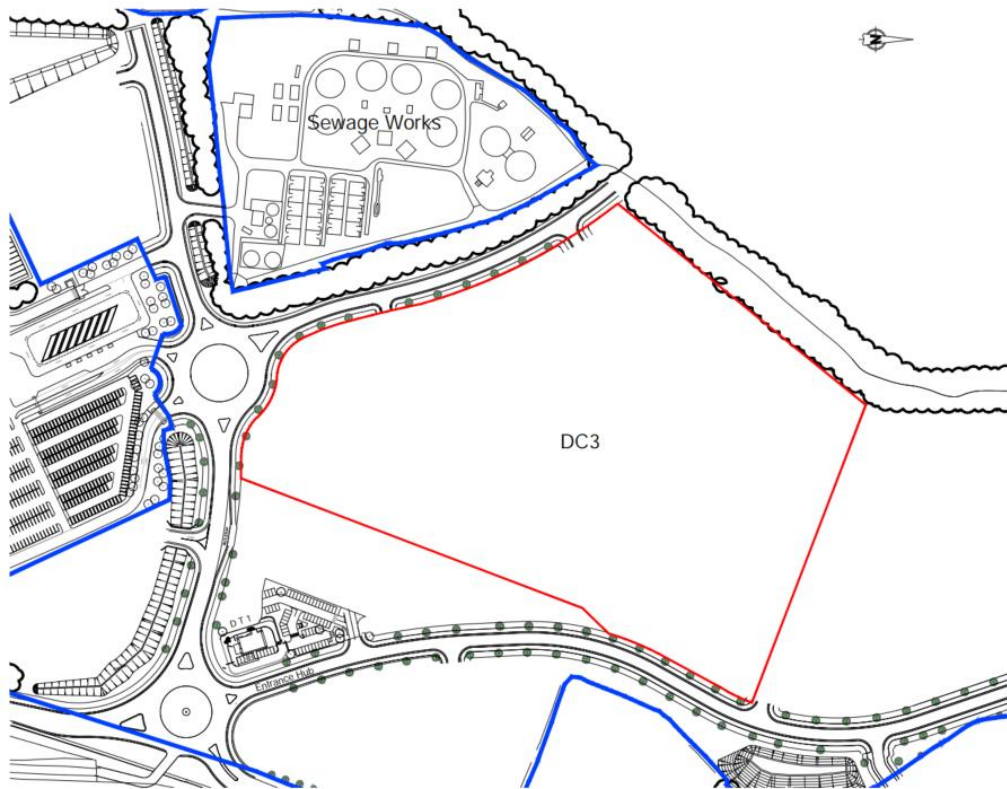


Site layout





# 1.9 Existing site plan



Scale  
0m 25m 50m 75m  
Scale



INTEGRA 61 (DURHAM)  
LIMITED

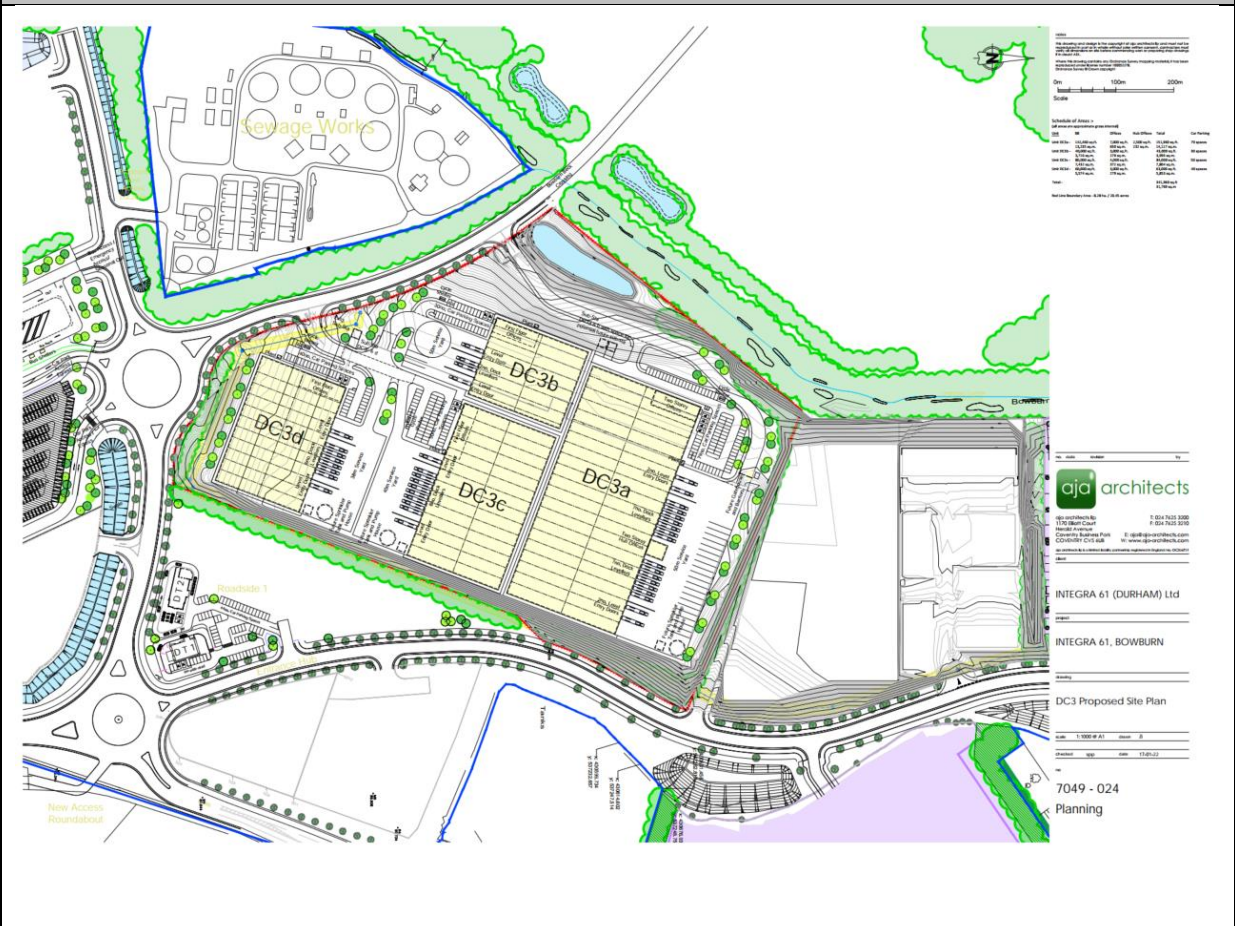
INTEGRA 61, BOWBURN

Existing Site Plan  
DC3

Scale 1:1000 @ A1

7049 - 023  
Planning

1.10 Proposed site plan



1.11 Details of contractors' compound(s) including location plan, materials storage and other storage arrangements, including cranes and plant, equipment and related temporary infrastructure

See draft logistics plan section 1.8  
[Full logistics plan to be confirmed upon Main Contractor appointment]

1.12 Details of provision for all site operatives for the loading and unloading of plant, machinery and materials

Within Site curtilage via designated banksman  
See draft logistics plan section 1.8  
[Full logistics plan to be confirmed upon Main Contractor appointment]

1.13 Details of the erection and maintenance of security hoarding including decorative displays and facilities for public viewing, where appropriate.

Perimeter site boundary already secured with Heras proprietary fencing with site compound secured by timber close boarded hoarding as plan 1.

## 1.14 Waste audit and scheme for waste minimisation and recycling/disposing of waste resulting from demolition and construction works.

Draft plan plan [to be confirmed upon Main Contractor appointment]

A Site Waste Management Plan will be produced which outlines measures taken to reduce waste, the expected generated waste streams, associated permits and licences, and a running tally of waste streams and associated volumes that have left the site.

Waste skips/containers will be labelled and in good condition. They will be stored securely on hardstanding and locked /covered where applicable to prevent the escape of waste to the environment and neighbouring facilities. Skips will be stored in an appropriate area and outlined within the site plan.

Hazardous wastes will be stored separately from other hazardous and non-hazardous wastes. The waste hierarchy will be adopted on site.



Ref: Pollution Prevention Guidelines: PPG1, July 2013

Prevent – e.g. ensuring accurate measurements are taken when ordering materials, not over-ordering and storing materials securely to prevent damage from the elements or site traffic.

Re-use – e.g. re-using whole bricks, re-using uncontaminated naturally occurring material on site and re-using timber off-cuts.

Recycle – e.g. using recycled aggregates on site and sending material to a recycling facility.

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Disposal – e.g. disposing of waste at a landfill or incinerator which does not recover energy.

Any waste required to be removed from site will be accompanied by a Waste Transfer Note (WTN) for non-hazardous waste, or a Hazardous Waste Consignment Note (HWCN) for Hazardous Waste. Waste documentation will be retained for the legally required timeframe of two years for WTN and three years for HWCN.

Duty of care checks shall be carried out on waste contractors to ensure permits and licences are valid and have not been revoked by the Environment Agency.

All who attend site will be trained in the waste management procedures for the site

**2 Measures to control the emissions of Dust**

I confirm I have read and will ensure that the measures detailed within the corresponding “guidance notes” section will be adhered to throughout the Demolition/construction phase:

Signed	[To be signed by Appointed Main Contractor -TBC]	Print name	
Role	Director		

When any measures detailed within the corresponding section cannot be adhered to please provide full reasons within the box below:

**3 Measures to control mud migrating onto highway**

I confirm I have read and will ensure that the measures detailed within the corresponding “guidance notes” section will be adhered to throughout the Demolition/construction phase:

Signed	[To be signed by Appointed Main Contractor -TBC]	Print name	
Role	Director		

When any measures detailed within the corresponding section cannot be adhered to please provide full reasons within the box below:

**5 Lighting**

I confirm I have read and will ensure that the measures detailed within the corresponding “guidance notes” section will be adhered to throughout the Demolition/construction phase:

Signed	[To be signed by Appointed Main Contractor -TBC]	Print name	
Role	Director		

When any measures detailed within the corresponding section cannot be adhered to please provide full reasons within the box below:

**4 Measures to control noise and vibration**



Is piling to be undertaken? (please tick)	Yes			
<b>If yes is ticked and sensitive receptor within 75m then the Piling justification document must be completed and submitted.</b>				
I confirm I have read and will ensure that the measures detailed within the corresponding "guidance notes" section will be adhered to throughout the Demolition/construction phase:				
Signed	[To be signed by Appointed Main Contractor -TBC]	Print name		
Role	Director			
When any measures detailed within the corresponding section cannot be adhered to please provide full reasons within the box below:				
<b>5 Community liaison</b>				
I confirm I have read and will ensure that the measures detailed within the corresponding "guidance notes" section will be adhered to throughout the Demolition/construction phase:				
Signed	[To be signed by Appointed Main Contractor -TBC]	Print name		
Role	Director			
When any measures detailed within the corresponding section cannot be adhered to please provide full reasons within the box below:				
<b>6 Pest Control</b>				
I confirm I have read and will ensure that the measures detailed within the corresponding "guidance notes" section will be adhered to throughout the Demolition/construction phase:				
Signed	[To be signed by Appointed Main Contractor -TBC]	Print name		
Role				
When any measures detailed within the corresponding section cannot be adhered to please provide full reasons within the box below:				
<b>6 Further comments</b>				

This is the initial document that may will require refining as the scheme progresses through planning and subject to detailed design and Main Contractor Appointment			
Submitted by			
Signed	[To be signed by Appointed Main Contractor -TBC]	Print name	
Designation	Director		
Company			
Check and agreed by			
Signed		Print name	
Designation			
Regulator	Durham County Council		

## Document 2: Piling justification form DRAFT

Contact name and designation											
[To be confirmed upon Main Contractor appointment]											
Email address			Tel no								
[tbc]			[To be confirmed upon Main Contractor appointment]								
Overview of piling project											
<p>Piling to the Unit Frames and Ground improvement for the Internal Slabs are subject to main contractor selection and detailed design</p> <p>Piling to the frames will be required , most likely precast concrete driven piles</p> <p>Piling to improve bearing for ground slabs may be required using the CMC method</p>											
Estimate start and end of piling											
Start			June 2022			End			Aug 2022		
Plan of site including areas to be piled (each specific area to be piled should be provided with identifying annotations i.e. A, B											
<b>Proposed Site plan at 1.10 identifies building locations A,B,C &amp;D.</b>											
Estimated timescales of piling per area (days)											
A	June 22	B	July 22	C	July 22	d	Aug 22	e	n/a	f	n/a
Method of piling (Please see section 7.4 for further detail)											
Method		tick	Further detail								
Impact driven			Subject to main contractor appointment and detailed design								
Vibration driven			Subject to main contractor appointment and detailed design								
Pressed in preformed											
Pressed in sheet piles											
Displacement augur			Subject to main contractor appointment and detailed design								



Contiguous Flight Augur		
other		
Justification for method of piling chosen		
<p>Piling will be adopted due to the geological nature of the ground and site constraints. Methods are likely to be similar to the adjacent industrial / logistics plot.</p>		
Specific mitigation measures to be implemented		
<p>As piling is low vibration and the buildings are well within the site - more than 75m away from the boundary on North East and West NO specific actions are envisaged</p> <p>The need for South Boundary existing Drive Through property mitigation is to be reviewed in detailed design and piling methodology</p>		
Level of monitoring proposed		
Subject to main contractor appointment and detailed design		
Community liaison		
Letter drop and consultation will be undertaken prior to commencement as necessary.		

### Document 3: Dust management plan template (example entry provided)

Site operations	Timescale	Potential impact	Risk level	Receptor	Controls	Monitoring
Soil stripping	4-6 weeks	Dust arising from operations during dry weather	High	Human, 100m	Regular dampening of site and stock piles  All haulage surfaces consolidated  Wagons sheeted at all times	Twice daily site walkaround from site supervisor to include consideration of visual and surface deposition of dust  Dust monitoring locations both sticky pads for visible dust and
Profiling site	4-6 weeks	Dust control	Medium / High	Human 100m	As above	As above
Vehicle movements	40 weeks	Dust control	Medium	Human	Damp down, speed limits, banksman	On arrival
Waste material storage/removal	40 weeks	Dust	medium		Seal material, damp down, minimize areas and check location	
Cutting	30 weeks					
Storage of products	40 weeks	Packaging	low	perimeter	Controlled areas, secure packaging	Daily and upon receipt
Stockpiles	20 weeks	dust	low		Seal and agree locations away from receptors	
General site	43 weeks		low	perimeter	Maintain compound	Upon receipt and when distributed

