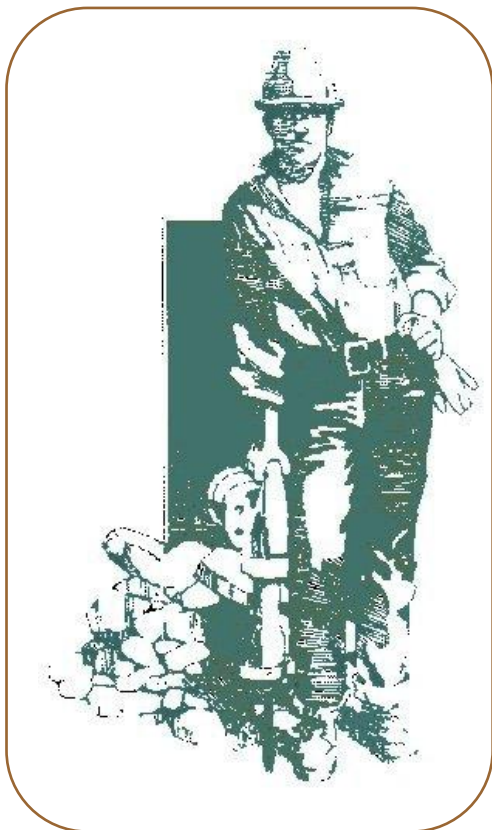


John Reilly

CIVIL ENGINEERING LIMITED

ENVIRONMENTAL POLICY



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Section 1 - INTRODUCTION

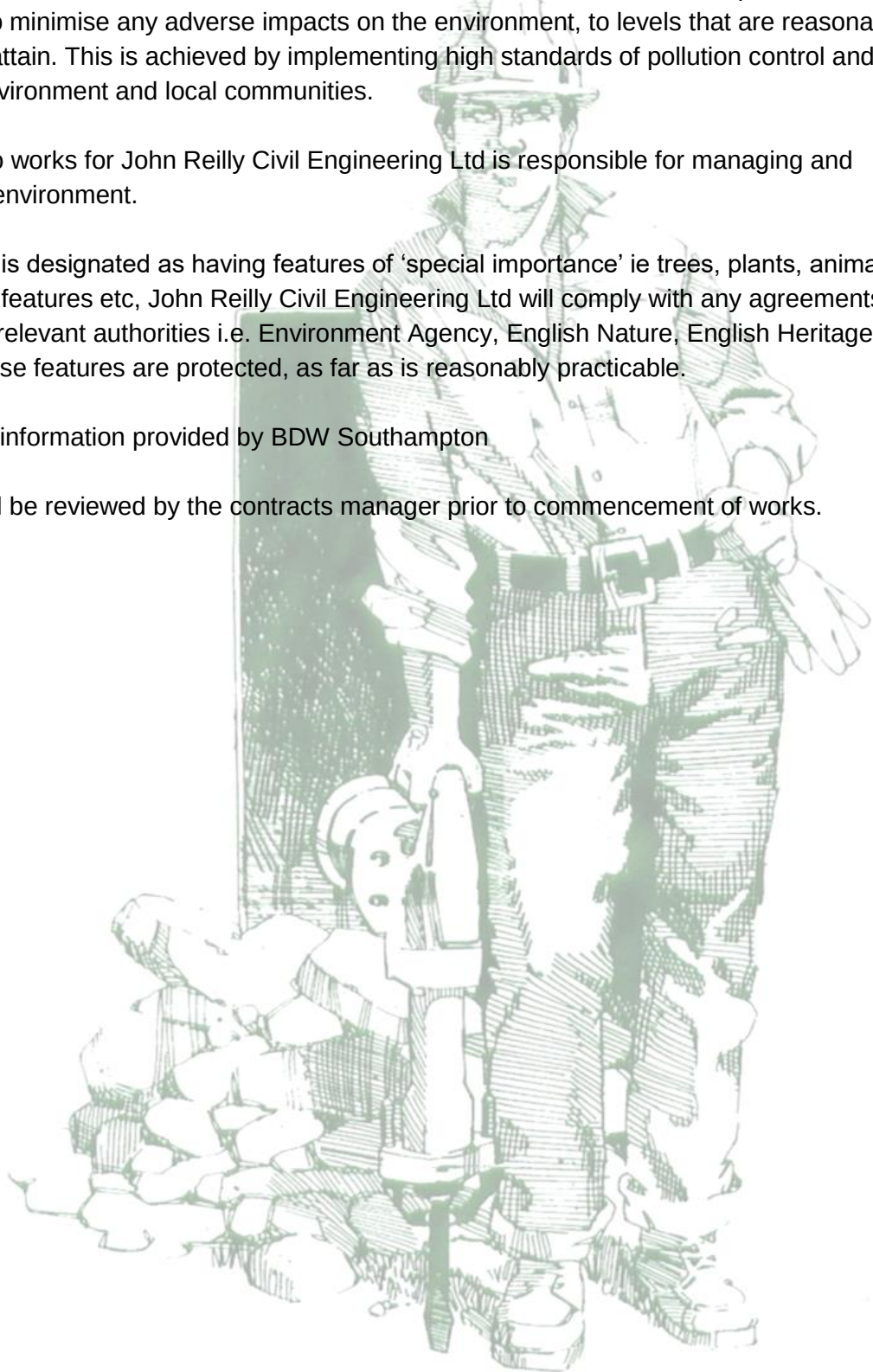
John Reilly Civil Engineering Ltd recognises that our activities should be carried out with an understanding and awareness of environmental matters. Construction works are planned and programmed to minimise any adverse impacts on the environment, to levels that are reasonably practicable to attain. This is achieved by implementing high standards of pollution control and care for the local environment and local communities.

Everybody who works for John Reilly Civil Engineering Ltd is responsible for managing and protecting the environment.

Where the site is designated as having features of 'special importance' ie trees, plants, animals, archaeological features etc, John Reilly Civil Engineering Ltd will comply with any agreements made with the relevant authorities i.e. Environment Agency, English Nature, English Heritage etc to ensure that these features are protected, as far as is reasonably practicable.

Environmental information provided by BDW Southampton

The reports will be reviewed by the contracts manager prior to commencement of works.



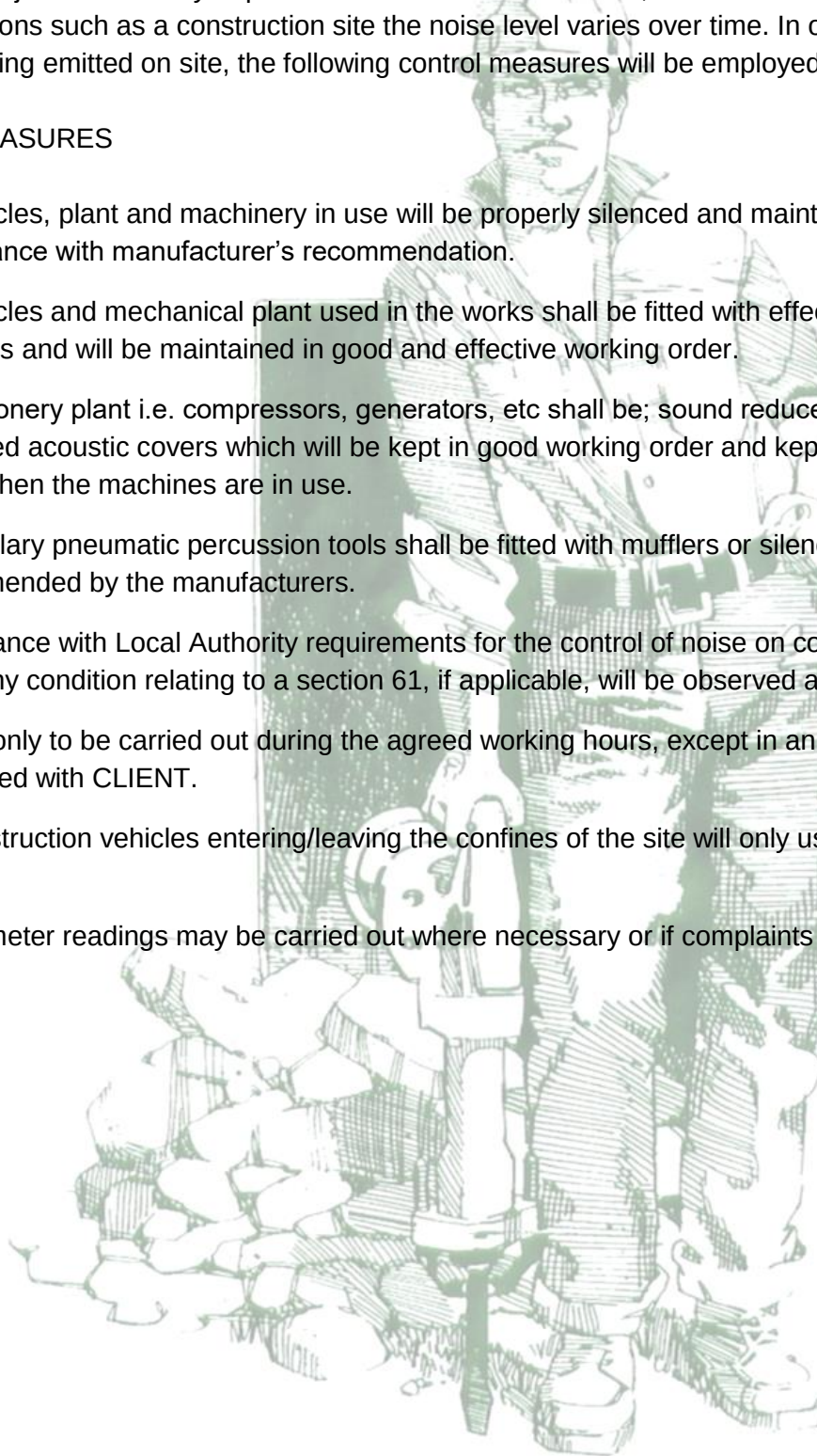


SECTION 2 - NOISE AND VIBRATION

Noise is defined as 'sound that is unwanted by the recipient' whether or not a particular sound is unwanted is subjective and may depend on factors such as location, time and duration. In many practical situations such as a construction site the noise level varies over time. In order to reduce noise levels being emitted on site, the following control measures will be employed: -

CONTROL MEASURES

- All vehicles, plant and machinery in use will be properly silenced and maintained in accordance with manufacturer's recommendation.
- All vehicles and mechanical plant used in the works shall be fitted with effective exhaust silencers and will be maintained in good and effective working order.
- All stationery plant i.e. compressors, generators, etc shall be; sound reduced' and fitted with lined acoustic covers which will be kept in good working order and kept closed at all times when the machines are in use.
- All ancillary pneumatic percussion tools shall be fitted with mufflers or silencers of the type recommended by the manufacturers.
- Compliance with Local Authority requirements for the control of noise on construction sites. Also, any condition relating to a section 61, if applicable, will be observed at all times.
- Works only to be carried out during the agreed working hours, except in an emergency or as agreed with CLIENT.
- All construction vehicles entering/leaving the confines of the site will only use designated routes.
- Noise meter readings may be carried out where necessary or if complaints are received.





SECTION 3 - AIR POLLUTION

Nuisance dust emissions from construction sites are a common problem. The harmful effects of particles can range from skin irritation to respiratory problems, with the degree of risk dependent upon the nature and degree of exposure and the size of particles to which the exposure is related. Whilst 'dust' in general is considered harmful if inhaled in sufficient quantities, it is recognised that some specific materials such as silica quartz and asbestos are considered a greater risk. The Health and Safety Executive defines two types of dust.

- Total Inhalable Dust - The dust that can enter the nose and mouth during breathing.
- Respiratory Dust - Fine dust that penetrates the gas exchange region of the lung.

Air pollution emanating from construction sites can also have other impacts on the local community, including nuisance through surface soiling, loss of visual amenity deposition and effects on flora and fauna.

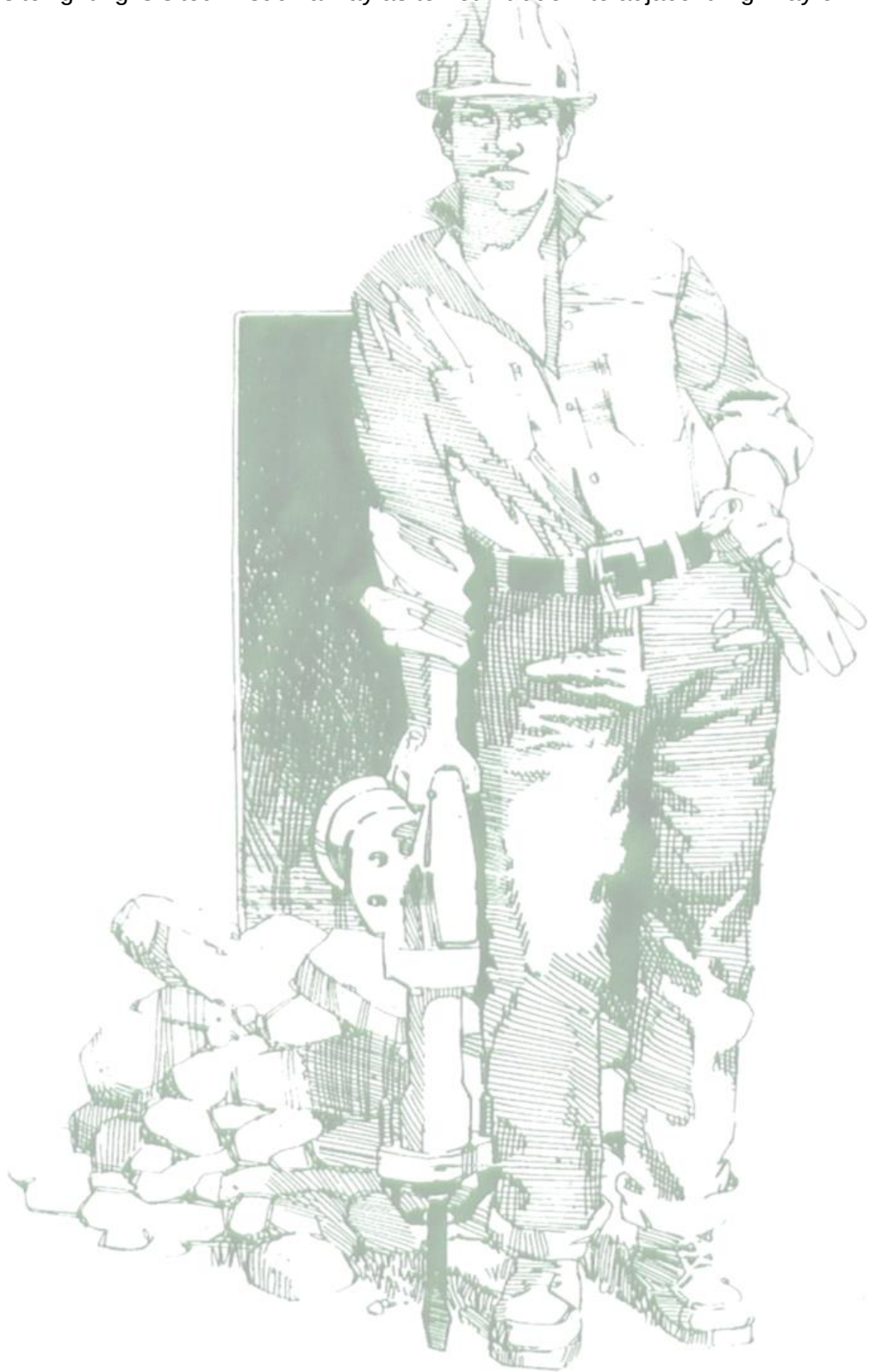
As it is difficult to suppress dust once it is airborne it is essential to stop dust being generated. In order to reduce dust emissions, the following control measures will be employed: -

CONTROL MEASURES

- No fires will be permitted on site.
- Roads will be cleared of excess materials, as required.
- Haul roads, access roads will be monitored for dust and watered down if required.
- Wheel wash/road sweepers will be employed, (also may be subject to planning consent).
- Activities such as cutting of concrete products large volumes of dust therefore water suppression techniques will be used (see H&S Method Statements).
- All vehicles, plant and machinery is to be maintained in accordance with manufacturers recommendations and that all operators of these machines are told to report all defects immediately to site management.

**SECTION 4 - LIGHT POLLUTION**

Any temporary site lighting is sited in such a way as to not intrude into adjacent highway or housing.





SECTION 5 - WASTE MANAGEMENT

There are environmental impacts to dealing with waste, for example; noise and traffic emissions, landfill and waste disposal - In order to reduce waste being removed off site, the following control measures will be employed: -

CONTROL MEASURES

- John Reilly Civil Engineering Ltd will only employ licensed carriers (Copy of Licenses held on file)
- All materials removed from site will be transported to a licensed waste transfer station.
- Any waste designated as a 'special / hazardous waste' will be removed in accordance with the Control of Pollution (Special Waste) Regulations.
- All canteen and office waste will be disposed of via waste skips in a co-ordinated manner through the John Reilly Site manager. The skip waste carrier will be licensed with all waste going to a licensed waste transfer station.
- Any excavated material retained on site will be placed in designated areas.
- All waste removed from site will have a waste transfer note which will describe the waste and the licensed tip where the waste is to be transferred. Waste transfer notes will be retained for minimum two years; consignment notes for hazardous waste will be retained for minimum three years
- A register of waste removal off site will be maintained by the site supervisor.

The site Standard Identification Code (SIC)

The Environmental Waste Code (EWC)



SECTION 6 - WATER POLLUTION PREVENTION

The site does not need to be next to a river/watercourse to cause a problem. Any pollutants getting into surface water drain or groundwater can end up in a river/watercourse, even if it is a distance away (note: spillages of oil can cover an area the size of two football pitches). In order to prevent water pollution, the following control measures will be employed: -

CONTROL MEASURES

- Whilst working near watercourses minimise interruption to flows and shall allow for the continued operation of land drainage systems in the area.
- Before work commences any matters, which are identified by the Environment Agency will be effectively addressed by John Reilly Civil Engineering Ltd.
- Any underground services on the site will be identified and clearly marked before construction work begins, by the use of a cable avoidance tool.
- All site roads and site entrances shall be kept clear of mud or debris.
- All fuel, oils, etc will be stored on an impervious base. Fuel tanks will be double skinned and have a capacity of equivalent to at least 110% of the volume of the inner tank. All valves and trigger guns will be protected from vandalism and unauthorised interferences and will be turned off and securely locked when not in use.
- All mobile plant will be refuelled in a designated area and away from drains or watercourses.
- All surface water run-off and any pumped groundwater discharge points must be in accordance with the Environment Agency guidance and requirements.
- A designated area for the washing out of ready mixed lorries will be established, where required. Such washings will not be allowed to flow into any drain or watercourse.
- The concrete wash out area will be monitored and clean out and waste will be removed off site to a licensed tip.
- Spill kits will be available to deal with any spillage.

**SECTION 7 - EMERGENCY PROCEDURE**

CONTACT NAMES AND TELEPHONE NUMBERS

	Contact Name	Telephone Number
Environment Agency Emergency response for contamination of Water course	Contact G O'Neill immediately Emergency Hotline	0800 80 70 60
John Reilly Contracts Manager	TBC	
John Reilly Health & Safety Director	Graham O'Neill	07939 208841

Contact the above in the event of a pollution incident that results in: -

POLLUTION OF CONTROLLED WATER

(Pollution is the discharge of poisonous, noxious or polluting materials including silt, cement, sewerage, diesel or other polluting matter)

CONTROLS

- The Environment Agency must be informed immediately, along with the Health & Safety department.
- Immediate steps to minimise impact or incident and to mitigate any damage must be carried out.
- A full investigation of the incident must be carried out and the proposed remedies actioned.
- Accompany Environment Agency Representative whilst on site and offer every assistance during their investigation.
- John Reilly Civil Engineering Ltd will have appropriate materials on site for use in the event of a spillage ie spill kit, sand, sandbags, temporary rings as required.
- All spillages must be immediately mopped up and placed in skip to be removed off site to approved disposal site.
- It may be possible to minimise the pollution by skimming off any affected land with an excavator and placing the contaminated earth in an approved storage area, to be removed from site, if required, to a site which is registered to accept that type of pollutant.



SECTION 8 - TOOLBOX TALK

ENVIRONMENT ISSUES

POLLUTION PREVENTION

- All storage tanks must be double skinned
- Clean up all spillage immediately with absorbent materials, which are available on site and dispose of as directed by site management.
- Ensure that any leaking drums or containers are out of use and removed off site.
- Ensure that any overflow pipes on any storage tanks do not discharge contents.
- Use the appropriate containers for different materials. Make sure that they are sturdy, in good condition, not liable to leak and clearly marked with their contents.
- Report to site management any lapse in security measures that are in place to guard against vandalism/theft i.e. locks fitted to valves on storage tanks, fencing.

GROUNDWATER POLLUTION

- Oil is a common and highly visible form of pollution because of the way it spreads. Even a small quantity can cause a lot of harm i.e. five litres of oil is enough to cover a small lake.
- Oil accounts for one quarter of all pollution incidents. The Environment Agency deals with over 6,000 oil pollution incidents each year. The most commonly encountered types of oil are diesel, waste oil and petrol.
- Oil forms a film on the surface of rivers/streams and lakes, which can drastically reduce the level of oxygen in the water, making it difficult for fish to breath. It can also coat plants and animals that come into contact with it. Large quantities of water are taken from rivers for use after treatment as drinking water. Oil contamination makes rivers unfit for this purpose.
- Silty waters should never be pumped directly to a river/stream or surface water drain.
- Silt is a non-toxic pollutant and in the absence of any other contaminates silty waters can easily be disposed of by pumping to a settlement tank or irrigated over a grassed area once the Environment Agency has been consulted.
- One gallon of oil can cover an area of water the size to two football pitches.
- Dispose of all canteen/office waste in designated skip. Litter is a pollutant too and must not be allowed to enter a watercourse.
- If an oil/derv/chemical spill occurs, try to stop the spill from entering any drains or watercourses using earth or sandbags to absorb it. NEVER hose it down. Inform site management immediately.

REMEMBER

“Pollution is Everyone’s Responsibility

**ENVIRONMENT ISSUES****NOISE AND VIBRATION**

- Ensure all plant and machinery, in use, is in good working order and report all defects to site management i.e. damaged exhaust silencers/acoustic covers fitted to plant.
- Work only to be carried out during the agreed working hours.

Monday – Friday	7.30am - 5pm
Saturday	7.30am – 1.30pm

No works to take place on Sundays or Bank Holidays unless approved by Site Management.

- Comply with any conditions relating to a section 61 (Noise Consent Notice) which will be informed to you by site management if applicable at all times.
- All construction vehicles entering or leaving the confines of the site will only use designated routes.
- Noise meter readings will be carried out if required and measures put in place as necessary.

AIR POLLUTION

- No fires will be allowed on site.
- Activities such as cutting of concrete products large volumes of dust therefore water suppression techniques will be used (see H&S Method Statements).
- Exhaust emissions from vehicles plant and machinery are amongst the largest sources of air pollution, therefore all defects on exhaust systems should be reported to site management immediately.

LIGHT POLLUTION

- Any temporary site lighting should not intrude on local resident's property or adjacent highways.
- Ensure all site lighting is switched off when not required or at the end of a working shift.

WASTE

- Ensure that all waste is put into rubbish skip provided.
- Keep all working areas free of litter as this can be blown by wind into streams/watercourses.
- Ensure any excavated material to be retained on site is only placed in designated area.

PLANTS AND WILDLIFE

Site management will issue any assessments, which are required concerning plant and wildlife, if applicable to your construction site.

**SECTION 9 - RISK ASSESSMENTS**

Examples detailed below:





Client: BDW Southampton Contract: Harbour place, Bedhampton

Assessor: Roy Honebon

Job No: TBC

Tel No: 023 8062 9900

Duration: Client control

Contract Manager: TBC

Start date: TBC

Site Tel No: N/A

Signed: *R Honebon*

Date: 10th Jan 2020

ACTIVITY	HAZARD	BEFORE CONTROL			CONTROL MEASURES	AFTER		
		P	S	RF		P	S	RF
ALL EARTHWORKS	Waste	3	3	B	All canteen and office waste to be disposed of via waste skip. The waste skip carrier to be licensed with all waste going to a licensed tip. Attend Environmental Toolbox Talk. All waste removed from site will have a waste transfer note which will describe the waste and the licensed tip where the waste is being transferred to. Any excavation material retained on site will be placed in designated areas. Keep all working areas litter free. Litter can be blown into streams/rivers. Any waste designated as a 'special waste' will be removed in accordance with the Control of Pollution Regulations.	3	2	C
	Air Pollution	3	3	B	No fires allowed on site. Water suppression techniques to control dust. Report any exhaust systems defects, on vehicles/plant/machinery. Monitoring access roads and haul roads for dust/mud/debris. Attend Environmental Toolbox Talk.	3	2	C
	Working Near Existing Services. Damage Causing Nuisance to Local Residents	4	3	A	Use cable avoidance tool (CAT scanner) prior to any excavation. Liaise with statutory bodies prior to work commencing. Trial holes to establish position and depth of services prior to excavation. Use wheel wash/road sweepers, if required.	3	2	C

RISK FACTOR (RF)

C = Control Risk

B = Hazard Should Be Avoided

A = Hazard MUST be Avoided

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ENVIRONMENTAL RISK ASSESSMENT

JOHN REILLY
CIVIL ENGINEERING LIMITED



Client: BDW Southampton Contract: Harbour place, Bedhampton

Assessor: Roy Honebon

Job No: TBC

Tel No: 023 8062 9900

Duration: Client control

Contract Manager: TBC

Start date: TBC

Site Tel No: N/A

Signed: *R Honebon*

Date: 10th Jan 2020

ACTIVITY	HAZARD	BEFORE CONTROL			CONTROL MEASURES	AFTER		
		P	S	RF		P	S	RF
ALL EARTHWORKS continued	Pollution of Watercourses (Oil/Diesel)	4	3	A	All storage tanks to be double skinned. All leaking or any leaking drums or containers are to be removed off site. Protect against vandalism by fitting locks to valves on storage tank and security fencing. Clean up spills immediately with absorbent material, which is available on site. Ensure appropriate containers are used for different materials, are sturdy, in good condition, not liable to leak and properly marked. Attend Environmental Toolbox Talk.	3	2	C
	Interruption of Land Drains Whilst Working near Watercourse	4	2	B	When working in or near watercourse minimise interruption to flows and allow for the continued operation of land drainage systems in the area. Attend Environmental Toolbox Talk.	3	2	C
	Noise	4	3	B	All vehicles, plant and machinery, in use, will be properly silenced and maintained, in accordance with manufacturers recommendation. All stationery plant, compressors and generators will be fitted with lined acoustic covers, which will be kept closed at all times when the machines are in use. All ancillary pneumatic percussion tools will be fitted with mufflers or silencers, of the type recommended. Any conditions relating to a section 61, if applicable, will be observed at all times. All construction vehicles, entering/leaving the confines of the site, will only use designated routes. Attend Environmental Toolbox Talk.	3	2	C

RISK FACTOR (RF)

C = Control Risk

B = Hazard Should Be Avoided

A = Hazard MUST be Avoided

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Client: BDW Southampton Contract: Harbour place, Bedhampton

Assessor: Roy Honebon

Job No: TBC

Tel No: 023 8062 9900

Duration: Client control

Contract Manager: TBC

Start date: TBC

Site Tel No: N/A

Signed: *R Honebon*

Date: 10th Jan 2020

ACTIVITY	HAZARD	BEFORE CONTROL			CONTROL MEASURES	AFTER		
		P	S	RF		P	S	RF
ALL EARTHWORKS continued	Groundwater Pollution (Silt)	3	4	A	Silty waters must never be pumped directly to a river/stream or surface water drain. Consultation meeting with the Environment Agency on site. Silty water should be pumped to settlement tank or irrigated over a grassed area once the Environment Agency has been consulted and permission obtained. Attend Environmental Toolbox Talk.	3	2	C

RISK FACTOR (RF)

C = Control Risk

B = Hazard Should Be Avoided

A = Hazard **MUST** be Avoided

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RISK LEVEL CHART

PROBABILITY	SEVERITY			
	1 Negligible	2 Minor	3 Severe	4 Extreme
	1 - Improbable	-	-	C
	2 - Remote	-	-	C
	3 - Possible	-	C	B
	4 - Probable	-	B	A

KEY

A = Hazard **MUST** be avoided (or the level of risk reduced significantly and reliably by controls)

B = Hazard should be avoided (or the level of risk reduced significantly and reliably by controls)

C = Risk to be controlled

Waste Disposal Record



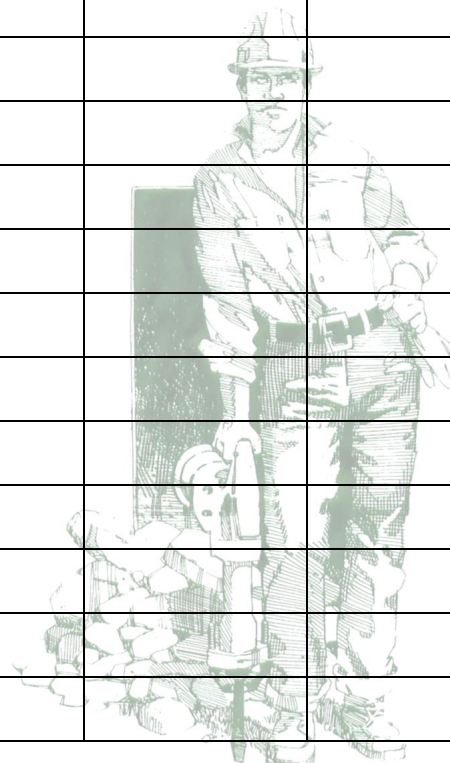
Client: BDW Southampton Contract: Harbour place, Bedhampton

Job No: TBC

Duration: Client control Contract Manager: TBC

Start date: TBC Site Tel No: N/A

Date	Transfer note Number	Type	None Recyclable	Recyclable	Mixed	Materials Taken by and Sent to



Waste Disposal Record

JOHN REILLY
CIVIL ENGINEERING LIMITED

Start date: TBC Site Tel No: N/A

MONITORING RECORD



What	How & When	By Whom	Mon	Tus	Wed	Turs	Fri	Sat	Sun if on site
Water, entry and exit points	<u>DAILY</u> Visual inspection of water flow rates, clarity of water and implemented control measures (silt fences, dirt bags etc.). Photographic record and log.	JRCE	AM						
			PM						
Control manholes,	<u>DAILY</u> Visual inspection of water flow rates, clarity of water and implemented control measures (silt fences, dirt bags etc.). Photographic record and log.	JRCE	AM						
			PM						
Temporary Settlement areas across P.O.S.	<u>DAILY</u> Visual inspection of water flow rates, clarity of water and implemented control measures (silt fences, dirt bags etc.). Photographic record and log.	JRCE	AM						
			PM						
Site entry points	<u>DAILY</u> Visual inspection of water flow rates, clarity of water and implemented control measures. Photographic record and log.	JRCE	AM						
			PM						
Site exit points	<u>DAILY</u> Visual inspection of water flow rates, clarity of water and implemented control measures. Photographic record and log.	JRCE	AM						
			PM						
Site entry points	<u>Weekly (or immediately if clarity is poor from daily inspections)</u> 500ml sample collection and log	Client Consultant							WEEKLY
Site exit points	<u>Weekly (or immediately if clarity is poor from daily inspections)</u> 500ml sample collection and log	Client Consultant JRCE to request if concerned							
Testing/Analysis of samples	<u>Monthly</u> Selected Biological solid/settlement test	Client Consultant							