Construction Environmental Management Plan (CEMP)

Project: Proposed Fuel Storage Facility
Site Address: Speedy Fuels Ltd. Old Bath Road, Charvil, Reading
Document Version: 1.1

1. Introduction & Purpose

This Construction Environmental Management Plan (CEMP) outlines the procedures and mitigation measures that will be implemented during the construction phase.
The purpose of this CEMP is to ensure that all construction activities are conducted in an environmentally responsible manner, preventing pollution and minimising disruption to the local area. It provides a framework for managing potential environmental impacts to the surrounding area related to water quality, waste, air quality, and noise.
This document is a live document and will be reviewed and updated as necessary throughout the project lifecycle. All site personnel, including subcontractors, are required to comply with the measures outlined herein.

2. Roles and Responsibilities

Site Manager

Name: Carl Keggin
Company: CK Pro Maintenance

Contact number: 07876 352394

Key roles:

- Ensure that all staff are briefed and aware of all environmental impacts that require management.
- Ensure site is in a safe condition and well maintained.
- Ensure all relevant documents, permissions and certifications are completed and present on site.
- Ensure safe procedures are implemented and followed, and that all staff are signed on to inductions, risk assessments and method statements.
- Ensure waste is adequately segregated, stored and disposed, with appropriate certifications held on site.
- Ensure emergency procedures are in place and communicated to site staff, including muster points, extinguishers, spill kits and first aid kits.
- Report any environmental incidents to Environmental Site Officer and Project Manager

Project Manager

Name: Carl Keggin
Company: CK Pro Maintenance

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- Report any environmental incidents to Environmental Site Officer and Project Manager

Environmental Site Officer

Name: Jeff Dunleavy

Company: Crown Oil Ltd

Contact number: 07741 660406

Key roles:

- Attend site regularly to ensure that requirements of CEMP are being adhered to. In the event of non-compliance, report to Project Manager and Site Manager and prioritise implementing mitigation measures.
- If unsatisfactory performance of mitigation measures, report to Project Manager and Site Manager and discuss implementation of new mitigation measures and monitoring period.
- Ensure general good practice is being followed.
- Ensure all waste records are up-to-date and site waste management plan is followed

Health and Safety Officer

Name: Jeff Dunleavy

Company: Crown Oil Ltd

Contact number: 07741 660406

Key roles:

- Visit site to review health and safety procedures, ensure they are being followed and that all necessary paperwork, including risk assessments and method statements, are present and signed by relevant site operatives.
- Liaise with Environmental Site Officer to ensure that the objectives of the CEMP are being met.
- Liaise with Project Manager and Site Manager to deal with incidents and near misses

3. Environmental Management Measures

3.1 Site Establishment, Hoarding, and Security

- **Hoarding and Fencing:** Prior to any works commencing, the site perimeter will be secured with appropriate hoarding and fencing. This hoarding will serve a dual purpose: ensuring site security and acting as a physical barrier to prevent litter and light construction debris from

blowing off-site and impacting the surrounding area. Regular litter picks will be conducted along the inside of the hoarding line.

- **Signage:** Clear signage will be installed at the site entrance, including contact details for the site manager and head office, and out-of-hours emergency contacts.
- **Welfare Facilities:** All welfare facilities are within the current buildings. No requirement for temporary installations.

3.2 Phased Water Pollution Prevention & Drainage Control

To provide the highest level of environmental protection from the outset, the permanent site drainage and containment infrastructure will be installed as the first phase of construction, *before* other major earthworks or building begins. This proactive approach ensures that all construction-related run-off is managed and treated effectively throughout the project.

- **Phase 1 - Containment & Drainage Installation:**

    1. **Tertiary Containment:** Large parts of the operational area will be excavated and graded. A continuous, impermeable membrane will be laid, and the 350mm reinforced concrete containment kerb will be constructed around the site perimeter. This creates a sealed basin, ensuring no water can leave the site uncontrolled.
    2. **Interceptor & Attenuation Tanks:** The 20,000-litre full retention interceptor and 300,000-litre attenuation tank will be installed and fully commissioned.
    3. **Automated Failsafe System:** The **Darcy Draintector** automated shut-off systems will be installed on both the interceptor and attenuation tank and made operational. This system will be active throughout the construction phase.

- **Construction Run-off Management:**

All subsequent construction works will take place within this pre-installed containment area. Any surface water run-off, including rainfall on disturbed ground, wheel wash run-off, and water from dust suppression, will be channelled into the newly installed drainage system. This guarantees that all water is passed through the interceptor to remove any hydrocarbon contaminants or suspended solids before being discharged at a controlled rate from the attenuation tank. On completion of the construction phase these will be fully cleaned out.

- **3.2.1 Spill Prevention and Control**

    - **Spill Kits:** Large, clearly-marked spill kits suitable for construction-related fluids (e.g., diesel, hydraulic oil, lubricants) will be strategically located across the site, particularly near fuel storage areas, vehicle maintenance areas, and active work zones.
    - **Training:** All personnel will be trained on the location and correct use of spill kits during their site induction. Regular toolbox talks will refresh this knowledge.
    - **Procedure:** In the event of a spill, the priority is to stop the source and contain the spread using the spill kit absorbents. All contaminated materials (absorbent pads, granules, soil) will be immediately bagged, sealed, and placed in a designated hazardous waste bin for correct disposal.
    - **Refuelling:** A designated, bunded area will be used for the refuelling of mobile plant. Drip trays will be used under all static equipment such as pumps and generators.

3.3 Waste Management

- **Site Waste Management Plan (SWMP):** A formal SWMP will be implemented to manage all waste streams in line with the waste hierarchy (Prevent, Reduce, Reuse, Recycle, Dispose).
- **Litter Control:** The site hoarding will form the primary litter control measure. Designated covered bins and skips will be provided across the site to minimise wind-blown waste. Regular housekeeping will be enforced.
- **Waste Segregation:** Dedicated, clearly-labelled skips will be provided for the segregation of waste streams, including but not limited to: inert (soil, concrete), general, metal, wood, and packaging.
- **Hazardous Waste:** Any hazardous waste (e.g., used oil, oily rags, contaminated materials from spills) will be stored in separate, sealed, and clearly-labelled containers within a secure, bunded area prior to collection.
- **Licensed Carriers:** All waste will be removed from the site by fully licensed waste carriers, and all relevant Waste Transfer Notes and Hazardous Waste Consignment Notes will be retained as per legal requirements.

3.4 Air Quality & Dust Management

- **Dust Suppression:** A mobile water bowser will be available to dampen haul roads and stockpiles during dry or windy weather. The frequency of spraying will be increased based on visual monitoring.
- **Vehicle and Plant Management:** A site-wide speed limit of 5 mph will be enforced to minimise dust generation. An engine idling policy will be implemented, requiring all engines to be switched off when not in use. All plant and machinery will be subject to regular maintenance checks to ensure they meet emissions standards.
- **Material Management:** All vehicles carrying loose materials will be securely sheeted before leaving the site. Stockpiles will be managed to minimise height and form compacted surfaces where possible. Dusty activities will be avoided during periods of high winds.
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3.5 Noise and Vibration Control

- **Working Hours:** All construction activities, including deliveries, will strictly adhere to the working hours stipulated by the local council to minimise disruption to the local community.
- **Best Practice:** All plant and equipment will be modern, well-maintained, and fitted with appropriate silencers as standard. Where possible, mains electricity will be used instead of diesel generators.
- **Activity Planning:** Noisy activities will be scheduled for the least sensitive times of the day. Acoustic barriers or screens will be used around any necessary static noise sources (e.g., cutting stations). A "no shouting" policy will be in effect, and the use of radios will be prohibited.

4. Monitoring and Reporting

- **Inspections:** The Environmental Coordinator will undertake and record formal, weekly environmental inspections using a detailed checklist. The Site Manager will conduct and record daily visual checks, focusing on waste management, dust, and the integrity of containment systems.
- **Record Keeping:** A comprehensive environmental file will be maintained on-site, containing this CEMP, inspection records, all waste documentation, training records, and incident reports.

- **Water Quality:** The discharge from the attenuation tank will be visually inspected daily for any signs of pollution (e.g., discolouration, oil sheen).
- **Incident Reporting:** Any environmental incident or near miss, regardless of scale, must be reported immediately to the Site Manager. An investigation will be carried out to determine the root cause, and corrective actions will be implemented to prevent a recurrence. Significant incidents will be reported to the Environment Agency in line with legal requirements.

5. Training and Awareness

- **Site Induction:** All personnel and subcontractors must undergo a site-specific induction before commencing work. This induction will cover key environmental risks and the specific control measures detailed in this CEMP, including waste segregation rules, spill response procedures, dust control measures, and designated working hours.
- **Toolbox Talks:** Weekly toolbox talks on specific environmental topics will be delivered to the workforce. Topics will be relevant to the current phase of construction and may include "Correct Use of Spill Kits," "Dust Management in Dry Weather," and "Waste Segregation." All attendees will be required to sign a register.
- **CEMP Accessibility:** A copy of this CEMP will be available in the site office at all times for reference by any personnel.

Construction Phase Environmental Risk Assessment

This risk assessment identifies potential environmental hazards during the construction phase. The control measures listed are detailed in the sections above. The risk rating is a qualitative assessment (High, Medium, Low).

Activity / Hazard	Potential Environmental Impact	Initial Risk (L x S)	Mitigation / Control Measures	Residual Risk
Excavation & Earthworks	Silt/sediment run-off into surface water drains. Dust generation causing air pollution and nuisance.	Medium	- **Phase 1 installation of tertiary containment, interceptor & attenuation tank** to capture all site run- - Daily visual inspection of water discharge. - Water bowser for dust suppression on stockpiles & haul roads - Site speed limit of 5 mph.	Low
Fuel & Oil Storage (Mobile Plant)	Spills or leaks during refuelling or from storage leading to ground and water contamination.	High	- Use of designated, bunded refuelling areas. - Drip trays under all static plant (pumps, generators). - Large, fully-stocked spill kits readily available. - All staff trained in spill response procedures (Section 3.2.1). - Hazardous waste procedure for contaminated materials.	Low
Concrete Pouring & Curing	Spillage of wet concrete or wash water with high pH entering drainage systems.	High	- All concrete activities to occur within the installed tertiary containment area. - Designated, contained washout area for concrete wagons and tools. - Washout water collected and disposed of by a licensed contractor.	Low

			- Pre-pour checks to ensure drainage is protected.	
Vehicle & Plant Operation	Leaks of fuel, oil, or hydraulic fluid from machinery. Noise and emissions.	Medium	- Regular maintenance and inspection of all plant and vehicles. - Spill kits carried on mobile plant. - Strict adherence to site working hours (Section 3.5). - Engine idling policy enforced (Section 3.4).	Low
General Waste Generation	Litter escaping site boundaries. Incorrect disposal of waste leading to potential land contamination.	Medium	- Site perimeter secured with hoarding. - Covered skips and bins provided. - Formal SWMP and waste segregation in place (Section 3.3). - Use of licensed waste carriers only, all paperwork retained.	Low
Unexpected Discovery of Contaminated Land	Mobilisation of previously unknown contaminants, posing risk to workers and the environment.	Medium	- All groundworkers to receive a specific toolbox talk on identifying potential contamination (visual, odorous). - Stop-work procedure in place if suspected material is found. - Site Manager to be informed immediately. - Area to be cordoned off and specialist advice sought before proceeding.	Low