

Appendix 3.1

Site Waste Management Plan



Preesall Underground Gas Storage Facility

SITE WASTE MANAGEMENT PLAN

AN INTEGRATED CONSTRUCTION WASTE STRATEGY

CLIENT:	Halite Energy Group
SITE:	Preesall Underground Gas Storage Facility
WASTE CHAMPION:	TBA (on appointment)
SITE MANAGER:	TBA (on appointment)
ISSUE DATE:	08 September 2011
PLAN PREPARED BY:	Hyder Consulting (UK) Limited

Preesall Underground Gas Storage Facility Site Waste Management Plan

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WASTE TRANSFER NOTES AND HAZARDOUS WASTE CONSIGNMENT NOTES	FILE ZZZ (TBC)
REGULATORY CONTROLS AND MANAGEMENT	
SITE PLAN	FILE BBB (TBC)
HEALTH & SAFETY SYSTEMS	H&S FILE (TBC)
Risk Assessment	
Permit to Work	
Confined Spaces	
Contractor Management	
COSHH	
Asbestos Management	
Working in Contaminated Ground	

SWMP 1.1


Preesall Underground Gas Storage Facility Site Waste Management Plan

GLOSSARY AND SHEET COLOUR KEY

BERR	Business Enterprise & Regulatory Reform
BPEO	Best Practicable Environmental Option
BPM	Best Practicable Means
C&D	Construction & Demolition
COSHH	Control Of Substances Hazardous to Health
Defra	Department of Environment, Food and Rural Affairs
DoC	Duty of Care
EA	Environment Agency
E,H&S	Environment, Health & Safety
EIA	Environmental Impact Assessment
ICWS	Integrated Construction Waste Strategy
LA	Local Authority
MCP	Management Control Procedure
MRF	Material Recycling (Recovery) Facility
PSWMP	Phase Site Waste Management Plan
SWMP	Site Waste Management Plan
WCN	Waste Consignment Note (for hazardous waste)
WMM	Waste Minimisation & Management
WTN	Waste Transfer Note
WTS	Waste Transfer Station

SHEET COLOUR KEY

The following colour codes are used to distinguish between the separate worksheets used in this Site Waste Management Plan (SWMP) and which are to be used for general information, data entry for the SWMP and data entry for any small projects or phases that will provide data for the SWMP data entry sheets.

 SWMP Information Sheets

 SWMP Data Entry Sheets

 PSWMP Data Entry Sheets

SWMP 1.2

Preesall Underground Gas Storage Facility Site Waste Management Plan

PREESALL UNDERGROUND GAS STORAGE FACILITY CONSTRUCTION WASTE REDUCTION POLICY

Halite Energy Group Limited is committed to continuous improvement of waste management practices to reduce the amount of waste going to landfill and to increase the extent of reuse and recycling both now and in the future. Halite Energy Group Limited promotes the adoption of the SWMP Regulations 2008 to increase pre-treatment of waste for reuse, recycling or recovery and to minimise the amount of waste sent to landfill.

Halite Energy Group Limited acknowledges its legal duty to comply with Duty of Care provisions of current environmental and inter-related waste management legislation, including section 34 of the Environmental Protection Act 1990 and the Environmental Protection (Duty of Care) Regulations 1991. Halite Energy Group Limited staff will act responsibly to ensure that waste is managed in accordance with the following objectives:-

- 1. Reduce:** Discarding less material through the use of robust management practices and encouraging members of the supply chain to adopt the same principle.
- 2. Reuse:** Making use of existing materials wherever practically possible.
- 3. Recycle:** Identifying and segregating materials for recycling.
- 4. Recovery:** Identifying and recovering materials suitable for incineration with energy recovery, incineration, composting or other form of recovery.
- 5. Responsible Sourcing:** Complying with current waste management legislation and company policy and procedure, for the disposal of waste.

Halite Energy Group Limited will raise awareness of waste management with all employees and contractors on the site who may produce significant quantities of waste. Halite Energy Group Limited will use existing and new systems and procedures and a Management Control Procedure for SWMPs that will also help to deliver an effective and efficient approach to an integrated construction waste strategy.

Continuous improvements will be guided by consideration of environmental benefits and taking account of new legislation, regulatory compliance and reviews of waste management procedures.

This Waste Reduction Policy, together with our SWMP, will be periodically reviewed to ensure their continued relevance and appropriateness to our activities.

Definition of Waste: Development Industry Code of Practice

In September 2008, Contaminated Land: Applications in Real Environments (CL:AIRE) published the Definition of Waste: Development Industry Code of Practice, which sets out good practice in dealing with excavated materials and their reuse. This Code of Practice signals a move from prescriptive waste management regulations to a risk based approach.

Developers can self regulate when re-using surplus soil, speeding up site preparation and reducing the amount of soils sent to landfill.

The following are outside the scope of the Code of Practice:

- Excavated infrastructure material such as pipework and storage tanks
- Waste classification
- Pre-treatment prior to landfilling
- Testing Strategies
- Remediation and construction methods
- Waste Management Licensing and exemptions and the replacement Environmental Permitting (England and Wales) Regulations 2007
- The status of unexcavated wastes subject to in-situ treatment

This Code requires a significant degree of self regulation and relies upon the professional integrity of those involved. This document may also be of assistance in preparing SWMP for construction projects.

Signed:

Halite Energy Group

Date: October 2011

SWMP 1.3

Preesall Underground Gas Storage Facility Site Waste Management Plan

INTEGRATED CONSTRUCTION WASTE STRATEGY

This Site Waste Management Plan (SWMP) provides a framework for the delivery of an Integrated Construction Waste Strategy (ICWS) for the Preesall Underground Gas Storage Facility (the Project). It relates to all waste and materials that could become waste, arising from past, present and future construction operations and related activities including new construction, site processes, excavations, temporary works, maintenance and repairs at the Project. This SWMP is to be used to monitor the waste activities of all construction projects, as defined by the SWMP Regulations 2008. The SWMP is not intended to take account of waste from kitchens, drainage, ship borne wastes, foul sewage and other domestic type waste arising from normal site operations.

This SWMP is to help forecast and facilitate an integrated construction waste management process that is aligned with, rather than duplicating, existing services both on site and through a number of waste management companies off site. The SWMP complements existing systems and expertise.

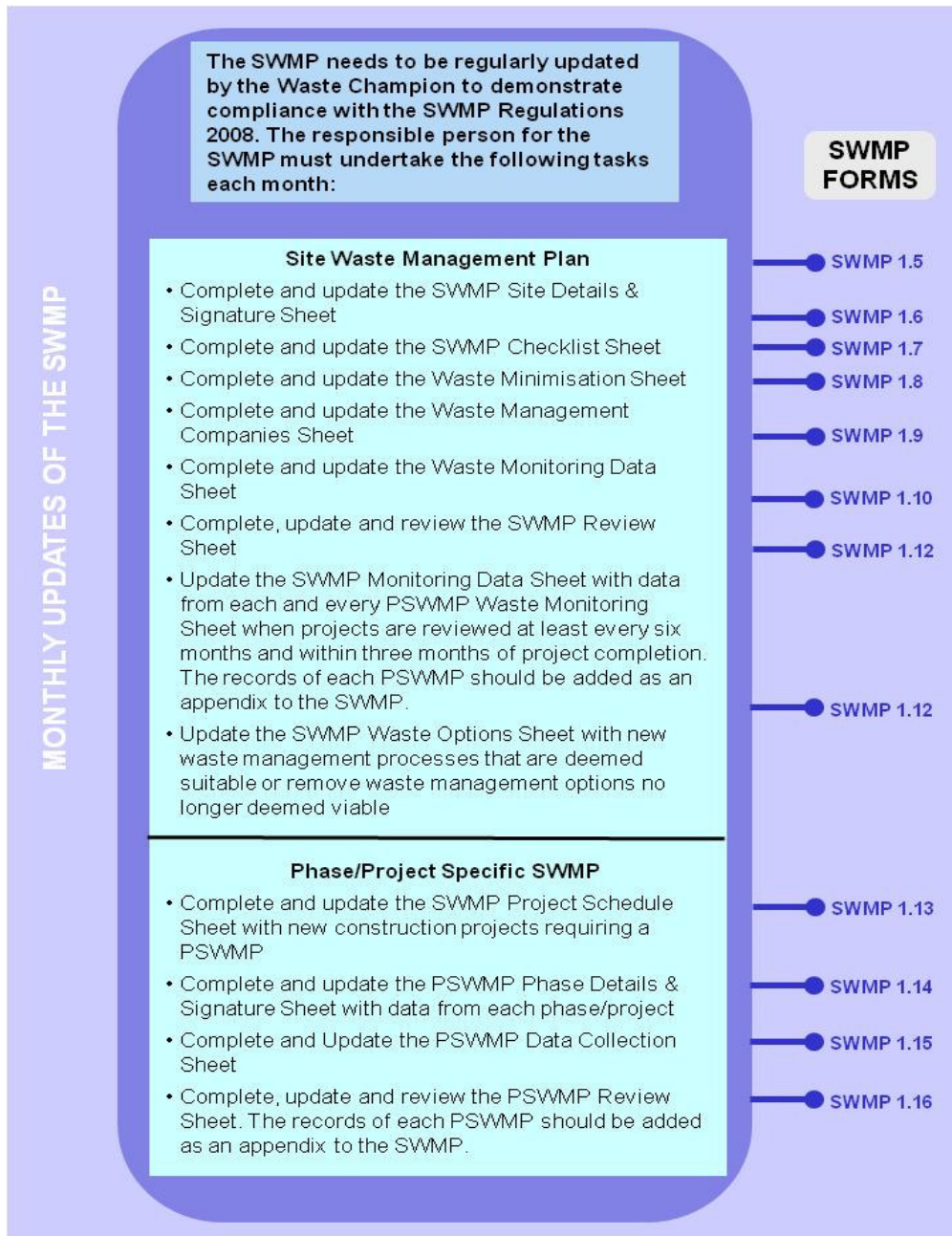
The construction waste management arrangements for the Project are clearly defined in this SWMP to help facilitate the appropriate management and disposal of inert, non-hazardous and hazardous wastes. Waste management arrangements will be integrated with the overall site quality management system which ensures that all site activities, including waste management activities are carried out in accordance with documented and controlled procedures, by suitably qualified and experienced persons. Halite Energy Group Limited record keeping and documentation processes associated with the SWMP and future construction projects will be maintained in the SWMP.

Waste management at the Project is to be co-ordinated by a small number of key staff to ensure consistency and the benefit of experience. Waste arising from site operations will be handled by a number of waste management contractors who will collect, manage and dispose of all waste arising. The contractors liaise with the Waste Champion to arrange dispatch of waste from the site. Waste management services that are procured independently by subcontractors will need to ensure that their activities comply with this SWMP and the SWMP Regulations 2008. Technical advice, standard setting, audit and the intelligent customer role for all wastes will be provided by the Waste Champion. Waste predictions and planning for waste arising during construction operations will be co-ordinated by the Waste Champion.

The deposit of insoluble residues from the leaching process that are intended for disposal in salt caverns will require an Environmental Permit from the Environment Agency (EA) for the deposit of wastes. The disposal / re-use of drilling materials on the site of production, and top soils / rock earth from building bases, should be reviewed under the CL:AIRE 'Definition of waste: Development Industry Code of Practice' and will require registering with the EA.

Minimisation of waste is a requirement for all staff and contractors. The Waste Champion will set standards to minimise creation and disposal of construction waste including the application of Best Practicable Means (BPM). The BPM for waste types are defined in the Waste Management Options of this SWMP.

**PREESALL UNDERGROUND GAS STORAGE FACILITY SITE WASTE MANAGEMENT PLAN
POSTER**



SWMP 1.5

Preesall Underground Gas Storage Facility Site Waste Management Plan

SITE DETAILS AND SIGNATURE SHEET

RESPONSIBILITY

Name of Client:	Halite Energy Group
Signature of Client:	
Name of Principal Contractor:	TBA (on appointment)
Signature of Principal Contractor:	TBA (on appointment)
Date of Issue (dd/mm/yyyy):	08/09/2011
Name of Project Manager:	TBA (on appointment)
Name of Site Manager:	TBA (on appointment)

PROJECT SUMMARY

Project Name:	Preesall Underground Gas Storage Facility
Project Number:	TBA
Project Address:	Preesall Saltfield Preesall Near Fleetwood, Lancashire
Approximate Construction value (£):	£500,000,000
Planned Start Date (dd/mm/yyyy):	
Planned Completion Date (dd/mm/yyyy):	
Company who drafted the SWMP:	Hyder Consulting (UK) Limited
Brief description of Works:	The proposed project is to create underground caverns in the salt body at Preesall. When created, the caverns would be used for the storage of natural gas which can be supplied to the Gas National Transmission System (NTS) to meet demand. In summary, the Halite proposals include the following key elements: gas storage caverns and water washing infrastructure, gas and electrical infrastructure and built and road infrastructure.

WASTE CHAMPION

Person Responsible for the SWMP:	TBA (on appointment)
Position:	Waste Champion
Contact Number:	TBA (on appointment)

Preesall Underground Gas Storage Facility Site Waste Management Plan

**PREESALL UNDERGROUND GAS STORAGE FACILITY SITE WASTE MANAGEMENT PLAN
CHECKLIST**

Checks	YES	NO	Action Date	Comments
	(Please tick)			
Has the Waste Champion been identified?		✓		The Waste Champion will be identified before the project breaks ground.
Has the Waste Champion updated the project details for each PSWMP? (SWMP 1.14)		✓		The Waste Champion will update the project details for each PSWMP before each Phase breaks ground.
Has the Waste Champion revised the estimated cost of projects if required? (PSWMP 1.5)		✓		The Waste Champion will revise the estimated cost of each Phase before the project breaks ground.
Has the Waste Champion included any further actions/opportunities to minimise the quantity of waste that will be produced during construction operations at the site? (SWMP 1.7)		✓		The Waste Champion will include further actions/opportunities to minimise the quantity of waste before the project breaks ground and during the construction phase.
Has each waste type expected to be produced during site construction operations been identified and the quantities estimated in the SWMP? (SWMP 1.9)	✓			The types of waste expected have been identified in the SWMP Monitoring Section (SWMP 1.9).
Have waste management options (e.g. reuse, recycling) been identified in the Waste Options sheet? (SWMP 1.12)	✓			The waste management options have been identified in the Waste Options Section (SWMP 1.12).
Does the SWMP include a list of Waste Management Companies and Landfill Sites which can provide services to Halite Energy Group Limited? (SWMP 1.8)	✓			The list of Waste Management Companies and Landfill Sites have been included in the Waste Management Companies Section (SWMP 1.8).
Does the SWMP identify a responsible person to update the SWMP at regular intervals during all site operations and all PSWMPs? (SWMP 1.5)		✓		The Waste Champion/s will update the SWMP at regular intervals. The Waste Champion/s will be identified before the project breaks ground.
Have Post Construction Review Sheets (SWMP 1.16) been collected from all completed PSWMPs and used to update the SWMP Monitoring Sheet? (SWMP 1.9)	✓			The Post Construction Review Sheets will be collected from all completed PSWMPs by the Waste Champion/s.
Has the Waste Monitoring Sheet (SWMP 1.9) and the SWMP Review Sheet (SWMP 1.10) been updated at regular intervals?	✓			The Waste Monitoring Sheet and the SWMP Review Sheet will be updated (each six months as a minimum) during the construction and post construction phases by the Waste Champion on a monthly basis.
Has an area of the site been designated for receiving the waste generated by phases, including segregated waste?		✓		The area for receiving the waste generated by all phases will be designated before the project breaks ground.
Have measures been put in place to deal with expected hazardous waste?		✓		The measures to deal with expected hazardous waste will be put in place before the project breaks ground.

Presall Underground Gas Storage Facility Site Waste Management Plan

**PRESALL UNDERGROUND GAS STORAGE FACILITY SITE WASTE MANAGEMENT PLAN
CHECKLIST**

Checks	YES	NO	Action Date	Comments
	(Please tick)			
Have toolbox talks been undertaken for all relevant personnel regarding waste management on site?		✓		Toolbox talks will be undertaken at site induction and during the construction phase.
Are containers and skips clearly labelled to avoid confusion?		✓		Skips will be clearly label before the project breaks ground.
Have measures been put in place to regularly review the Waste Management Options sheet? (SWMP 1.12)	✓			The Waste Management Options Sheet will be regularly reviewed by the Waste Champion. It will be reviewed as and when other waste management options are identified.
Are all of the waste destination details verified for off-site waste management or disposal through the Waste Management Companies?		✓		The Waste Champion will verify the waste destination details for off-site waste management or disposal during the construction phase.

SWMP 1.7

Preesall Underground Gas Storage Facility Site Waste Management Plan

WASTE MINIMISATION SHEET

Halite Energy Group Limited Waste Policy is to minimise the production of construction waste removed from the site for each construction project. The design team, suppliers and subcontractors shall be encouraged to look at ways to minimise the amount of waste produced during the Project. This should include specific actions, responsibilities and dates so that the overall design, construction method used or materials chosen minimises the quantity of waste produced. All actions are to be recorded in the table below:

Waste Minimisation Action	Responsibility	Date Action Commenced
Establish the requirement for a Project Site Waste Management Plan (PSWMP) to be in place for all projects and/or phases of the site.	Waste Champion	
Involve an off-site Waste Broker to maximise the amount of waste reused or recycled rather than sent to landfill.	Waste Champion	
Where a PSWMP is required, Project Leads need to arrange a Kick Off meeting with the Environment Team and Waste Champion to approve the waste minimisation and waste management options defined by the Project Lead in each PSWMP. This needs to be completed before the project starts.	Project Lead	
Provide standard Powerpoint slides to be included in the induction for the site so that all staff working on the site are aware of the SWMP and PSWMP arrangements.	Waste Champion	
Prepare for and deliver a series of SWMP / PSWMP workshops to train all Project Leads and other relevant staff working on the site.	Waste Champion	
All projects need to make arrangements with the Environment Team to utilise the existing waste management services on site as defined by the SWMP.	Project Lead	
All external contractors must sign-up to the PSWMP before the project starts. This also applies to contractors who provide their own waste services.	Project Lead	
Ensure that the SWMP and all PSWMPs are aligned with the requirements of the Integrated Construction Waste Strategy.	Waste Champion	
The construction of the pipeline must be undertaken via the use of trenchless methods.	Design Team	

All of the actions above will help to reduce the amount of waste and surplus materials which would traditionally be skipped and sent to landfill. The Waste Champion, Project Lead, Project Staff and Contractors should continually identify actions for waste minimisation and these will be updated in the above table.

SWMP 1.8**Preesall Underground Gas Storage Facility Site Waste Management Plan****WASTE MANAGEMENT COMPANIES SHEET**

The SWMP Regulations 2008 require that all construction-related wastes removed from the Project is undertaken by a company that is authorised to do so. The table below includes details for a selection of companies in the vicinity and their waste carrier registration number and permit under the Environmental Permitting (England and Wales) Regulations 2007. This should be updated by the Waste Champion as and when other waste management companies are commissioned to remove waste from the site. This also should include waste management companies used by subcontractors.

Name of Waste Management Company	Use Operators with a Licence, Permit or are Exempt? (YES / NO)	Contact Details (telephone number)	Waste Carrier Registration Number and site license
	Recycling lives Ltd	YES	01772 861230
L Capstick Waste Reclamation Services	YES	01524 63141	LAN/490065
S B Waste Mangement Ltd	YES	01253 693636	LAN/495714/CB (WTS and recycling centre license EAWML54465)
Kingscourt Development	YES	01253 886046	LAN/490261
A1 Supa Skips	YES	01524 66616	LAN/493743
Catlow's Yard	YES	01524 32176	LAN/490020
Frank Smith Skip Hire (waste transfer station and recycling)	YES	01253 883238	LAN/493259
Foulds Metals Ltd	YES	01253 874642	LAN/495003 (Site number EAWML54136)
B & M Salvage Fuels Ltd (take Hazardous waste, i.e tanks)	YES	01253 779650	LAN/490197
Clifton Marsh	YES	01772 635151	BK2348
Wyre Waste Recycling	YES	01253 878889	EAN/955264
S Hancocks	YES	01524 853211	LAN/495589
Inglemere Metals Ltd	YES	01253 763818	WDL429
Kirkham Skip & Recycling Ltd	YES	01772 683185	EAN/490728

SITE WASTE MANAGEMENT PLAN MONITORING SHEET - CUMULATIVE FORECAST AND ACTUAL WASTE VOLUMES FOR ALL PROJECTS (m³)

WASTE CATEGORY	EWC Code	Forecast (m3)	Actual (m3)	Difference (m3)	To be Reused On Site (m3)		To be Reused Off Site (m3)		To be Recycled On Site (m3)		To be Recycled Off Site (m3)		For Energy Recovery (m3)		To be Sent to Exempt Site (m3)		To be Sent to Hazardous Landfill (m3)		To be Sent to Landfill (m3)		
					Forecast	Actual	Forecast	Actual	Forecast	Actual	Forecast	Actual	Forecast	Actual	Forecast	Actual	Forecast	Actual	Forecast	Actual	Forecast
Aluminium	17 04 02	0.0	0.0	0.0																	
Batteries and accumulators	16 06 01	0.2	0.0	0.2							0.2										
Bricks	17 01 02	40.0	0.0	40.0					40.0												
Cable (non hazardous)	16 02 16	0.1	0.0	0.1							0.1										
Packaging	15 01 06	15,562.8	0.0	15,562.8							15,562.8										
Ceramics and tiles	17 01 03	3.4	0.0	3.4					3.4												
Tarred products	17 03 01	4.6	0.0	4.6							4.6										
Concrete	17 09 04	115.8	0.0	115.8					115.8												
Construction products containing asbestos	17 06 05	0.0	0.0	0.0																	
Hazardous wastes	17 09 01	3,206.0	0.0	3,206.0													3,206.0				
Copper, Bronze or Brass	17 04 01	0.0	0.0	0.0																	
Electronic & electrical equipment	16 02 13	45.2	0.0	45.2							45.2										
Fluorescent tubes	20 01 21	0.1	0.0	0.1							0.1										
Furniture	20 03 07	0.2	0.0	0.2							0.2										
General Waste	20 03 01	162.0	0.0	162.0							162.0										
Glass	17 02 02	0.9	0.0	0.9							0.9										
Gypsum products and plasterboard	17 08 02	5,835.2	0.0	5,835.2							5,835.2										
Insulation (non hazardous)	17 06 04	376.0	0.0	376.0							200.0									176.0	
Iron duct work and cast iron	17 04 05	0.0	0.0	0.0																	
Metal waste (hazardous)	17 04 09	0.0	0.0	0.0																	
Mixed concrete, bricks & ceramics	17 01 06	3.3	0.0	3.3					3.3												
Mixed construction waste (hazardous)	17 09 04	0.0	0.0	0.0																	
Mixed construction waste (non hazardous)	17 09 03	6.9	0.0	6.9																6.9	
Mixed Metals	15 01 04	10,319.4	0.0	10,319.4							10,319.4										
Canteen Waste	17 01 06	600.0	0.0	600.0							600.0										
Drill cuttings (non hazardous)	01 05	980.7	0.0	980.7	980.7																
Drill cuttings (hazardous)	01 05 06*	0.0	0.0	0.0																	
Oily Wastes	13 01 13	0.0	0.0	0.0																	
Paint and varnish (hazardous)	08 01 11	0.4	0.0	0.4													0.4				
Paper	15 01 01	3.8	0.0	3.8							3.8										
Plastic	15 01 02	185.2	0.0	185.2							185.2										
Soil & stones (hazardous)	17 05 03	0.0	0.0	0.0																	
Soil & stones (non hazardous)	17 05 04	152,868.0	0.0	152,868.0	152,868.0																
Steel or Cast Iron	17 04 05	46.1	0.0	46.1							46.1										
Tarmac - non contaminated	17 03 02	4.1	0.0	4.1							4.1										
Wood	17 02 01	1,684.7	0.0	1,684.7							1,684.7										
Other	0.00	0.0	0.0	0.0																	
Total (m3)		192,055.0	0.0	192,055.0	153,848.7	0.0	0.0	0.0	162.5	0.0	34,654.6	0.0	0.0	0.0	0.0	0.0	3,206.4	0.0	182.9	0.0	
PERFORMANCE SCORE = % OF OVERALL WASTE VOLUME																					

Preesall Underground Gas Storage Facility Site Waste Management Plan

SITE WASTE MANAGEMENT PLAN REVIEW - ALL PSWMPs

The SWMP Review needs to be updated as often as necessary to ensure that the SWMP accurately reflects the progress of construction activities at the Project, and in any event not less than every six months.

SITE NAME: Preesall Underground Gas Storage Facility
SITE ADDRESS: Preesall Saltfield
 Preesall
 Near Fleetwood, Lancashire

WASTE CATEGORY	REVIEW OF WASTE (m ³)			
	European Waste Catalogue Code	Forecast from ALL PSWMPs (m3)	Actual from ALL PSWMPs (m3)	Difference between Forecast & Actual (m3)
Aluminium	17 04 02	0.0	0.0	0.0
Batteries and accumulators	16 06 01	0.2	0.0	0.2
Bricks	17 01 02	40.0	0.0	40.0
Cable (non hazardous)	16 02 16	0.1	0.0	0.1
Packaging	15 01 06	15,562.8	0.0	15,562.8
Ceramics and tiles	17 01 03	3.4	0.0	3.4
Tarred products	17 03 01	4.6	0.0	4.6
Concrete	17 09 04	115.8	0.0	115.8
Construction products containing asbestos	17 06 05	0.0	0.0	0.0
Hazardous wastes	17 09 01	3,206.0	0.0	3,206.0
Copper, Bronze or Brass	17 04 01	0.0	0.0	0.0
Electronic & electrical equipment	16 02 13	45.2	0.0	45.2
Fluorescent tubes	20 01 21	0.1	0.0	0.1
Furniture	20 03 07	0.2	0.0	0.2
General Waste	20 03 01	162.0	0.0	162.0
Glass	17 02 02	0.9	0.0	0.9
Gypsum products and plasterboard	17 08 02	5,835.2	0.0	5,835.2
Insulation (non hazardous)	17 06 04	376.0	0.0	376.0
Iron duct work and cast iron	17 04 05	0.0	0.0	0.0
Metal waste (hazardous)	17 04 09	0.0	0.0	0.0
Mixed concrete, bricks & ceramics	17 01 06	3.3	0.0	3.3
Mixed construction waste (hazardous)	17 09 04	0.0	0.0	0.0
Mixed construction waste (non hazardous)	17 09 03	6.9	0.0	6.9
Mixed Metals	15 01 04	10,319.4	0.0	10,319.4
Canteen Waste	17 01 06	600.0	0.0	600.0
Drill cuttings (non hazardous)	01 05	980.7	0.0	980.7
Drill cuttings (hazardous)	01 05 06*	0.0	0.0	0.0
Oily Wastes	13 01 13	0.0	0.0	0.0
Paint and varnish (hazardous)	08 01 11	0.4	0.0	0.4
Paper	15 01 01	3.8	0.0	3.8
Plastic	15 01 02	185.2	0.0	185.2
Soil & stones (hazardous)	17 05 03	0.0	0.0	0.0
Soil & stones (non hazardous)	17 05 04	152,868.0	0.0	152,868.0
Steel or Cast Iron	17 04 05	46.1	0.0	46.1
Tarmac - non contaminated	17 03 02	4.1	0.0	4.1
Wood	17 02 01	1,684.7	0.0	1,684.7
Other	0	0.0	0.0	0.0
TOTAL		192,055.0	0.0	192,055.0

SITE WASTE MANAGEMENT PLAN REVIEW (cont.) - ALL PSWMPs

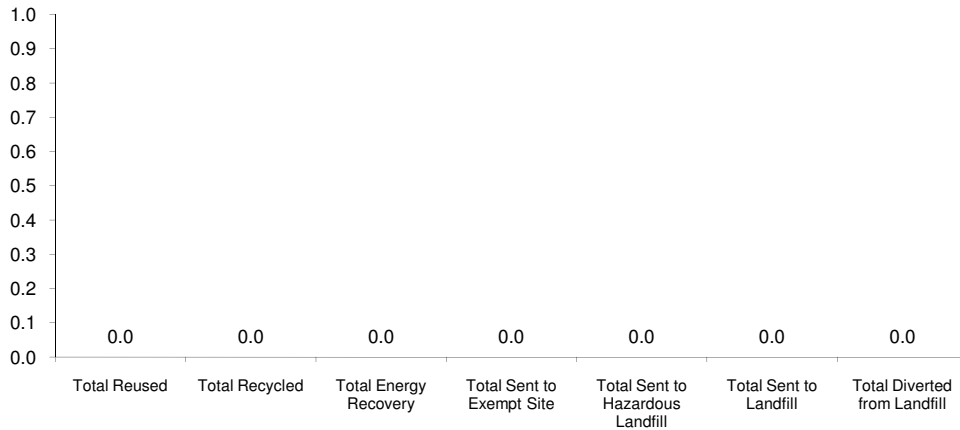
COMMENTS

Describe reasons for the differences between the Forecast and Actual waste volumes:

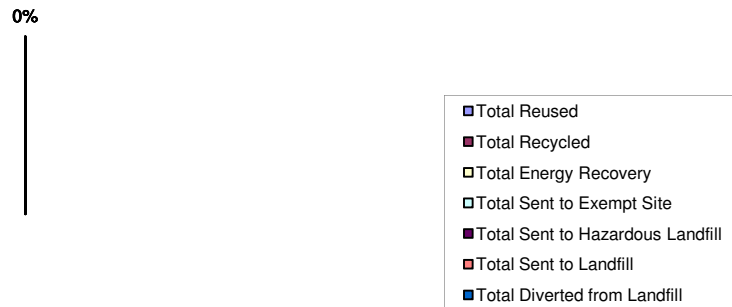
SUMMARY PERFORMANCE FIGURES

	m3	%
Total Waste	0.0	
Total Reused	0.0	
Total Recycled	0.0	
Total Energy Recovery	0.0	
Total Sent to Exempt Site	0.0	
Total Sent to Hazardous Landfill	0.0	
Total Sent to Landfill	0.0	
Total Diverted from Landfill	0.0	

SWMP Summary Performance Figures - Actual Waste (m3)



SWMP Summary Performance Figures - Actual Waste (%)



SITE WASTE MANAGEMENT PLAN REVIEW (cont.) - ALL PSWMPs

Specify the number and dates of all reviews?	
Explain any deviations from the SWMP.	
Were there any non-compliance issues? If yes, what were they and how were they rectified?	

What is the estimated annual administrative cost of implementing the SWMP?	£0
What are the estimated annual cost savings of implementing the SWMP?	£0

KEY LESSONS LEARNED

Describe the key lessons learned during the implementation of the SWMP and associated PSWMPs:

POST PROJECT SIGN-OFF

Name of Person signing-off the PSWMP:

Position:

Contact Number:

Signature:

Date (dd/mm/yyyy):

ONCE COMPLETED A COPY OF THIS FORM IS TO BE SENT TO THE CLIENT

SWMP 1.11

Preesall Underground Gas Storage Facility Site Waste Management Plan

GUIDANCE ON COMPLETING THE SITE WASTE MANAGEMENT PLAN

The Preesall Underground Gas Storage Facility SWMP has been designed to provide a pragmatic approach to meeting the requirements of the Site Waste Management Plan Regulations 2008 during construction operations at Preesall Underground Gas Storage Facility. This is a site-specific solution to the way that waste is planned and processed during excavation, construction, demolition, refurbishment, repairs and maintenance activities on the site. The SWMP provides a focal point to collect waste data from construction-related projects. It also demonstrates that Halite Energy Group Limited is committed to continuous improvement of waste management practices, to reduce the amount of waste going to landfill and to increase the extent of reuse and recycling.

IMPLEMENTATION

The process steps for defining and implementing the SWMP is as follows:

1. Complete and update where necessary the Site Details Sheet (SWMP 1.5)
2. Complete and update where necessary the SWMP Checklist Sheet (SWMP 1.6)
3. Complete and update where necessary the Waste Minimisation Sheet (SWMP 1.7)
4. Complete and update where necessary the Waste Management Companies Sheet (SWMP 1.8)
5. Complete and update where necessary the Waste Monitoring Sheet (SWMP 1.9) and SWMP Review Sheet (SWMP 1.10). These need to be conducted on a regular basis during each construction project on site using data from the PSWMPs. These reviews need to describe the lessons learnt from the differences between the forecast plan and actual performance and transfer this information to the SWMP (SWMP 1.10).
6. Ensure that the Waste Champion updates the SWMP Review Sheet (SWMP 1.10) every time a six month Project Review or Post-Construction Review Sheet is completed in a Project SWMP. Ideally, this should be completed each month.
7. The Project Details Sheet (SWMP 1.14), Data Collection Sheet (SWMP 1.15) and PSWMP Review Sheet (SWMP 1.16) for each and every phase/project identified in the Project Schedule Sheet need to be added as appendices to the SWMP.

DISTRIBUTION

The SWMP will be managed and maintained by the Waste Champion at the Project. At the end of each phase that is using a PSWMP, the Waste Champion should send a copy of the completed Post Construction Review Sheet and the completed PSWMP Waste Monitoring Sheet to the designated Environmental Manager at Preesall Underground Gas Storage Facility. The information and data contained within each PSWMP will be added to the SWMP on a cumulative basis. This will help inform all future waste minimisation and management options in the Waste Management Options Sheet (SWMP 1.12).

WASTE SEGREGATION

Where space permits on larger projects using a PSWMP, a specific area should be set aside and labelled to facilitate the separation of materials for potential reuse, recycling and recovery both on and off site. Skips and bins set aside for segregated wastes should be clearly labelled to avoid contamination from other types of waste.

INDUCTION AND TRAINING

The Preesall Underground Gas Storage Facility Waste Champion will provide on-site induction about the appropriate separation, handling, reuse, recycling and recovery of materials and waste during all stages of construction-related projects. Toolbox talks about waste will be carried out where necessary for particular packages of work and all relevant staff and contractors. The SWMP and the individual PSWMPs will also be outlined during the site induction and toolbox talks. This will ensure that everyone is included and that their participation is meaningful. Inductions and training will cross-reference to the site H&S procedures for all construction related works.

MONITORING

All construction waste collected from site by waste management companies will be recorded and monitored on the PSWMPs and updated to the SWMP. This information will be automatically included in the Project Review Sheet (SWMP 1.16), which will be added to the SWMP Monitoring Sheet (SWMP 1.9) in this SWMP. This will be monitored and updated by the Waste Champion.

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WASTE MANAGEMENT OPTIONS

The waste disposal / treatment route will be agreed at the Pre-Construction Environment, Health and Safety (E,H&S) Meeting and put in place before the project begins. It should be reviewed as and when other waste management options are identified and included in the SWMP Waste Management Options sheet (SWMP 1.12). All Waste Transfer Notes and Consignment Notes should be kept for a minimum of two years.

Waste Category	EWC Code	Primary waste disposal / treatment route - this is to be verified at the Pre-Construction H&S Meeting	Secondary waste disposal / treatment route - this is to be verified at the Pre-Construction H&S Meeting
Aluminium	17 04 02	Segregate and recycle	Transfer off site through waste broker
Batteries and accumulators	16 06 01	Recycle if possible	Dispose of at hazardous waste landfill
Bricks	17 01 02	Reuse/ recycle on site as infill	Reuse/ recycle off site
Cable (non hazardous)	16 02 16	Reuse, recycle off site	Dispose of via waste broker
Packaging	15 01 06	Reuse on site as temporary protection	Recycle off site
Ceramics and tiles	17 01 03	Reuse off cuts or crush and recycle on site	Transfer off site through waste broker for recycling elsewhere
Tarred products	17 03 01	On site reuse as fill materials	Off site recycling through waste broker
Concrete	17 09 04	Crush and use for back fill	Recycle off site through waste broker
Construction products containing asbestos	17 06 05	Dispose to hazardous landfill	
Hazardous wastes	17 09 01	Dispose to hazardous landfill	
Copper, Bronze or Brass	17 04 01	Segregate and recycle	Transfer off site through waste broker
Electronic & electrical equipment	16 02 13	Reuse and recycle off site	Dispose of off site through waste broker
Fluorescent tubes	20 01 21	Recycle through appropriate recycler	Dispose of via waste broker
Furniture	20 03 07	Reuse or recycle	Dispose off site
General Waste	20 03 01	Send as mixed waste to Material Recycling Facility for segregation	Dispose off site
Glass	17 02 02	Reuse/ recycle as infill on site	Send off site for recycling
Gypsum products and plasterboard	17 08 02	Segregate for recycling off site	Dispose of via waste broker
Insulation (non hazardous)	17 06 04	Dispose of via waste broker	Send off site for reuse
Iron duct work and cast iron	17 04 05	Segregate and recycle	Transport off site through waste broker
Metal waste (hazardous)	17 04 09	Segregate and decontaminate for recycling	Segregate and dispose to hazardous waste landfill

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WASTE MANAGEMENT OPTIONS

Waste Category		Primary waste disposal / treatment route - this is to be verified at the Pre-Construction H&S Meeting	Secondary waste disposal / treatment route - this is to be verified at the Pre-Construction H&S Meeting
Mixed concrete, bricks & ceramics	17 01 06	Recycle/ reuse as fill on site	Send off site for recycling
Mixed construction waste (hazardous)	17 09 04	Dispose of via waste broker using consignment notes	
Mixed construction waste (non hazardous)	17 09 03	Send as mixed waste to Material Recycling Facility for segregation	Dispose of via waste broker
Mixed Metals	15 01 04	Segregate and recycle	Transport off site through waste broker
Canteen Waste	17 01 06	Send as mixed waste to Material Recycling Facility for segregation	Dispose of via waste broker
Drill cuttings (non hazardous)	01 05	Recycle/ reuse as fill on site	Transport off site through waste broker
Drill cuttings (hazardous)	01 05 06*	Decontaminate and reuse on site as fill	Dispose off site to hazardous landfill
Oily Wastes	13 01 13	Reuse/ recycle off site	Dispose of via waste broker
Paint and varnish (hazardous)	08 01 11	Reuse/ recycle off site	Dispose of via waste broker
Paper	15 01 01	Recycle through paper recycler	Dispose of via waste broker
Plastic	15 01 02	Recycle via plastic recycler	Dispose of via waste broker
Soil & stones (hazardous)	17 05 03	Segregate, decontaminate and reuse on site as fill	Dispose off site to hazardous landfill
Soil & stones (non hazardous)	17 05 04	Recycle on site as infill	Recycle off site through waste broker
Steel or Cast Iron	17 04 05	Segregate and recycle off site	Recycle off site through waste broker
Tarmac - non contaminated	17 03 02	On site reuse/ recycling	Off site reuse/ recycling
Wood	17 02 01	Reuse on or off site	Recycle off site through waste broker
Other			

SWMP 1.14

Preesall Underground Gas Storage Facility Site Waste Management Plan

PHASE DETAILS AND SIGNATURE SHEET

RESPONSIBILITY

Name of Client:

Signature of Client:

Name of Principal Contractor:

Signature of Principal Contractor:

Date of Issue (dd/mm/yyyy):

Name of Project Manager:

Name of Site Manager:

PROJECT SUMMARY

Phase Name:

Phase tNumber:

Phase Address:

Approximate Construction value (£):

Planned Start Date (dd/mm/yyyy):

Planned Completion Date (dd/mm/yyyy):

Company who drafted the SWMP:

Brief description of Works:

WASTE CHAMPION

Person Responsible for the SWMP:

Position:

Contact Number:

Preesall Underground Gas Storage Facility Project Site Waste Management Plan

PHASE SITE WASTE MANAGEMENT PLAN REVIEW - EACH PROJECT

The Project Manager for each project needs to complete a PSWMP Review every six months during the phase and finally within three months of the end of the phase. It is the responsibility of each Project Manager to pass a copy of these PSWMP Review sheets to the Waste Champion at the Project to ensure that the SWMP for the site accurately reflects the progress of all construction projects.

PROJECT NAME: Preesall Underground Gas Storage Facility
PROJECT ADDRESS: Preesall Saltfield
 Preesall
 Near Fleetwood, Lancashire

WASTE CATEGORY	REVIEW OF WASTE (m ³)			
	EWG Code	Forecast from each PSWMP (m3)	Actual from each PSWMP (m3)	Difference between Forecast & Actual (m3)
Aluminium	17 04 02	0.0	0.0	0.0
Batteries and accumulators	16 06 01	0.0	0.0	0.0
Bricks	17 01 02	0.0	0.0	0.0
Cable (non hazardous)	16 02 16	0.0	0.0	0.0
Packaging	15 01 06	0.0	0.0	0.0
Ceramics and tiles	17 01 03	0.0	0.0	0.0
Tarred products	17 03 01	0.0	0.0	0.0
Concrete	17 09 04	0.0	0.0	0.0
Construction products containing asbestos	17 06 05	0.0	0.0	0.0
Hazardous wastes	17 09 01	0.0	0.0	0.0
Copper, Bronze or Brass	17 04 01	0.0	0.0	0.0
Electronic & electrical equipment	16 02 13	0.0	0.0	0.0
Fluorescent tubes	20 01 21	0.0	0.0	0.0
Furniture	20 03 07	0.0	0.0	0.0
General Waste	20 03 01	0.0	0.0	0.0
Glass	17 02 02	0.0	0.0	0.0
Gypsum products and plasterboard	17 08 02	0.0	0.0	0.0
Insulation (non hazardous)	17 06 04	0.0	0.0	0.0
Iron duct work and cast iron	17 04 05	0.0	0.0	0.0
Metal waste (hazardous)	17 04 09	0.0	0.0	0.0
Mixed concrete, bricks & ceramics	17 01 06	0.0	0.0	0.0
Mixed construction waste (hazardous)	17 09 04	0.0	0.0	0.0
Mixed construction waste (non hazardous)	17 09 03	0.0	0.0	0.0
Mixed Metals	15 01 04	0.0	0.0	0.0
Canteen Waste	17 01 06	0.0	0.0	0.0
Drill cuttings (non hazardous)	01 05	0.0	0.0	0.0
Drill cuttings (hazardous)	01 05 06*	0.0	0.0	0.0
Oily Wastes	13 01 13	0.0	0.0	0.0
Paint and varnish (hazardous)	08 01 11	0.0	0.0	0.0
Paper	15 01 01	0.0	0.0	0.0
Plastic	15 01 02	0.0	0.0	0.0
Soil & stones (hazardous)	17 05 03	0.0	0.0	0.0
Soil & stones (non hazardous)	17 05 04	0.0	0.0	0.0
Steel or Cast Iron	17 04 05	0.0	0.0	0.0
Tarmac - non contaminated	17 03 02	0.0	0.0	0.0
Wood	17 02 01	0.0	0.0	0.0
Other	0.00	0.0	0.0	0.0
TOTAL		0.0	0.0	0.0

PHASE SITE WASTE MANAGEMENT PLAN REVIEW - EACH PROJECT

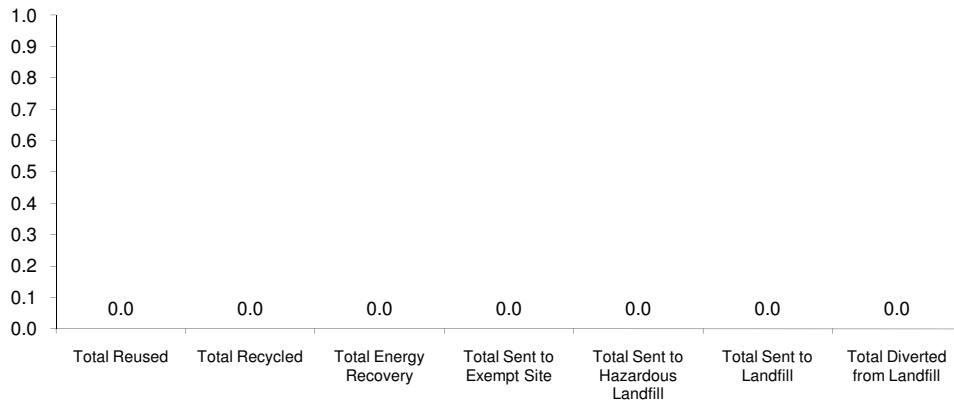
COMMENTS

Describe reasons for the differences between the Forecast and Actual waste volumes:

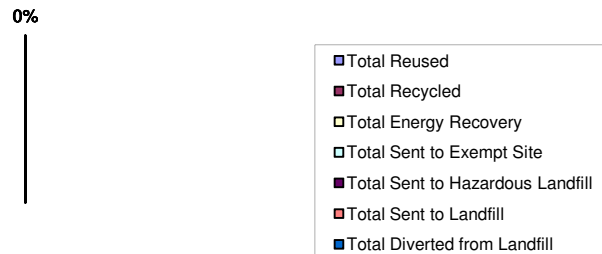
SUMMARY PERFORMANCE FIGURES

	m3	%
Total Waste	0.0	
Total Reused	0.0	
Total Recycled	0.0	
Total Energy Recovery	0.0	
Total Sent to Exempt Site	0.0	
Total Sent to Hazardous Landfill	0.0	
Total Sent to Landfill	0.0	
Total Diverted from Landfill	0.0	

PSWMP Summary Performance Figures - Actual Waste (m3)



PSWMP Summary Performance Figures - Actual Waste (%)



PHASE SITE WASTE MANAGEMENT PLAN REVIEW - EACH PROJECT

Specify the number and dates of all reviews?	
Explain any deviations from the PSWMP.	
Were there any non-compliance issues? If yes, what were they and how were they rectified?	

What is the estimated annual administrative cost of implementing the PSWMP?	£0
What are the estimated annual cost savings of implementing the PSWMP?	£0

KEY LESSONS LEARNED

Describe the key lessons learned during the implementation of the SWMP and associated PSWMPs:

POST PROJECT SIGN-OFF

Name of Person signing-off the PSWMP:

Position:

Contact Number:

Signature:

Date (dd/mm/yyyy):

ONCE COMPLETED A COPY OF THIS FORM IS TO BE SENT TO THE WASTE CHAMPION AT PREESALL UNDERGROUND GAS STORAGE FACILITY