

## **Appendix E: MSI Completion Statement**





**Mechanical and Civil Engineers/Contractors**

## **COMPLETION STATEMENT**

*Completion Statement for Decommissioning*

*and Remedial works at;*

Priory Service Station,  
Nutgrove Avenue,  
Rathfarnham,  
Dublin 18

### **Principal Contractor**

MSI Ltd.

### **Project Manager**

ABB Ltd.

### **Client**

ExxonMobil

<b>Issue</b>	<b>Prepared by</b>	<b>Date</b>
01	Gabriel Koncal	18th April 2008



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## SECTION 1.0 INTRODUCTION

This statement has been produced to provide details in relation to the works carried out by MSI Limited at: Priory Service Station, Nutgrove Avenue, Rathfarnham, Dublin 18, entailing civil works for environmental assessment, demolition of the forecourt canopy, demolition of the existing shop building, decommissioning and removal of UG storage tanks, removal of clean/contaminated waste, backfilling works etc.

The Scope of works for the project was limited to that detailed in the Preliminary Health & Safety issued for the works by ABB Limited. Omissions or additions to the scope of work during the course of the decommissioning/remediation works were made as instructed by ABB Limited.

This statement is prepared based on the Preliminary Safety & Health Plan for the works, drawings provided for the works and information taken from details recorded on site during the course of decommissioning & remediation works. As such all information should be considered as indicative only and the exact position, location, depth or status of any works/items must be verified before any further works are carried out.

Please note that other features, services or structures not included the Preliminary Safety & Health Plan for the works, drawings provided for the works or not identified/uncovered during the course of the decommissioning/remediation works may exist. As such, extreme care and suitable precautions must be taken when carrying out any further works on the site.

No warranty, expressed or implied, is made in relation to the status of any features of the site including but not limited to Buildings, Services, Equipment, Drainage, Ground Conditions and/or Site Suitability.



**SECTION 2.0 PARTIES TO THE PROJECT**

Site : Priory Service Station,  
Nutgrove Avenue,  
Rathfarnham,  
Dublin 18,

Project : Decommissioning/Remedial Works

Client : Exxon Mobil  
ExxonMobil House  
Mailpoint 14  
Ermyrn Way  
Leatherhead  
Surrey  
KT22 8UX  
Contact : Mr. Peter Fooks Phone : +44 121 709 1117

Project Manager : ABB Ltd.  
Engineering Solutions  
Broadway Offices  
PO Box 1949  
Wilton Site  
Middlebrough  
TS90 8JG  
Contact : Mr. Steve Andrews Phone : +44 1642 372000

Principle Contractor : MSI Ltd  
107 Baldoyle Industrial Estate,  
Dublin 13.  
Ireland.  
Contact : Mr. Brian Mc. Gonagle Phone: +353 1 8391000  
Mr. Brian Prendergast

Environnemental Consultants : URS Irl Ltd  
Iveagh Court,  
6 Harcourt Road,  
Dublin 2.  
Contact: Mrs. Edel O'Hannelly Phone: +353 21 4520450

Project Supervisor Design Stage: ABB Ltd.  
Engineering Solutions  
Broadway Offices  
PO Box 1949  
Wilton Site  
Middlesbrough  
TS90 8JG  
Contact : Mr. Graham Haughton

Project Supervisor Const. Stage : MSI Ltd  
107 Baldoyle Industrial Estate,  
Dublin 13.  
Ireland.  
Contact : Mr. Brian Mc. Gonagle Phone: +353 1 8391000  
Mr. Brian Prendergast



## **SECTION 3.0 WORKS COMPLETED**

The work completed on site was as follows;

### **PRE-SITE WORK**

- 1 Obtain Preliminary Safety & Health plan & Services Survey Report.
- 2 Develop Safety & Health Plan for the Construction Stage Plan
- 3 Make Notifications To Statutory/Regulatory Authorities
- 4 Carry out Asbestos Survey
- 5 Obtain planning permission from the local authority for enabling works

### **SITE WORKS – Decommissioning Phase**

- 6 Mobilisation and site set up.
- 7 Secure working area by erection of heras fencing, cones and barrier tape etc.
- 8 Organise / Carry Out Utilities Necessary Isolations
- 9 Pre Start Meeting
- 10 Monitor site for explosive vapours.
- 11 Make safe under ground tanks by disposal of any residual product and inerting all UST's by way of water filling.
- 12 Clear out the rubbish, loose fixtures and shop fittings from the existing building.
- 13 Demolition of the forecourt canopy.
- 14 Demolition of the existing shop building
- 15 Disconnect all services from the services pumps to the forecourt.
- 16 Disconnect all services from the tanks.
- 17 Carry out decommissioning of under/above ground storage tanks as per detailed method statement and in accordance with agreed procedure.
- 18 Remove all tanks including above/under ground storage tanks from site.
- 19 Carry out Environmental assessment works (Trial Pitting Works).
- 20 Reinstate excavation after completion of the Environmental works.
- 21 Carry out removal of stockpiled soils from the site
- 22 Tidy out the site.
- 23 Supply and place concrete rings at crossovers as directed.
- 24 Demobilise from site

### **POST SITE WORK - Close Out Phase**

- 25 Issue Completion Statement



## **SECTION 4.0 DURATION**

Works on site were carried out between the 14th of January 08 and 25<sup>th</sup> of February 08 and included demolition of canopy and shop building, removal of underground storage tanks, service lines, trial pitting works, removal of excavated material and backfilling of excavations.

## **SECTION 5.0 SERVICES**

Prior to commencement of works on site, a services survey was carried out by the others and a drawing identifying services provided. In addition, original utility services drawings were obtained from relevant utility suppliers i.e. ESB, Eircom, and Board Gais etc and were issued to MSI Ltd along with the preliminary Safety & Health plan.

It must be noted there are still live underground services crossing the site. For detailed indication please see the (*marked up licence drawing-appendix C*).

All utility survey information was used in developing the Safety & Health Plan for the construction stage and was maintained on file on site during the course of the works. A copy of this services drawing is attached in (*Appendix B*).

Electrical power for forecourt service outlets was isolated during the site set up. Isolation was carried out by a specialist electrical contractor who provided a certificate in respect of same (*see Appendix D*). The ESB substation located on site was not disconnected.

### **On-Site Interceptor**

Site interceptor was not removed during the course of the works.

## **SECTION 6.0 STRUCTURE**

The fuel system including all underground service tanks, offset fill points, all fill lines, suction lines and vent lines etc were removed and disposed to a licensed disposal facility. The tank decommissioning certificates are attached in Appendix F (*See Appendix F*); also gas free certificates are attached in Appendix G (*See Appendix G*).

Forecourt canopy dismantled and removed from the site.

Asbestos survey was carried out on this site. There was no suspected Asbestos containing materials identified in the shop building or canopy. Asbestos survey report is attached (*See Appendix E*).

During the course of decommissioning works, shop building was demolished and rubbles removed from the site and disposed to a licensed disposal facility.

Other existing site structures remain in place.

## **SECTION 7.0 DRAWINGS**

Two sets of drawings were provided for this site:





1. The utility services drawing drawn up by 40Seven with drawing number 51364-Rev 01 (*See Appendix B*).
2. The Esso Ireland Licence Drawing (*See appendix A*).

A copy of the marked up services drawing is drawn up for completion statement to reflect specific and relevant information as a result of the works were carried out during the course of decommissioning / remediation works (*See Appendix C*).

### **SECTION 8.0 S.H.E. Events or Conditions**

Site works were carried out in accordance with the duties required of the Project Supervisor Construction Stage (PSCS) as set out in S.I. 504 of 2006 – Safety, Health and Welfare at Work (Construction) Regulations, 2006. Particular safety requirements as set out by the Client and Project Managers were also complied with.

No Maintenance/Procedure Manual, Specification or Data Sheets were provided in respect of existing facilities, plant, equipment or Machinery on the site. Furthermore no Facilities, Plants, Equipments, machinery and etc were installed as part of the works. Therefore no maintenance/procedure manuals, Specification or Data Sheets are included in this document.

Specialist Environmental Contractors were engaged to deal with contaminated soil and groundwater issues. For more information, please consult with the Environmental Consultants (URS) Closure Report.

Other than the items described elsewhere in this report, there are no other particular issues came to light during the course of the works

### **SECTION 9.0 IMPORTED FILL**

Excavated areas were backfilled with (approx. 38 loads ) of freshly quarried clean stone suitable for residential land use obtained from Roadstone, Belgard Quarry, Belgard Road, Tallaght, Dublin 24. Validation samples were taken and tested by the Environmental Consultant who checked and confirmed that reported chemical concentration levels were below site screening criteria. (See Appendix H– Imported Fill Documentation).

### **SECTION 10.0 SECURITY**

During the course of decommissioning / remediation works the site was secured with chain link fencing.

### **SECTION 11.0 Hazard Data Sheets**

During the course of Decommissioning/Remediation works a copy of Material Safety Data Sheets for Petrol, Diesel and Glycol, which was provided by the client, were maintained in the safety file. There was no other type of chemical substances been used/encountered/identified in this site (See Appendix I – Material Safety Data sheets).

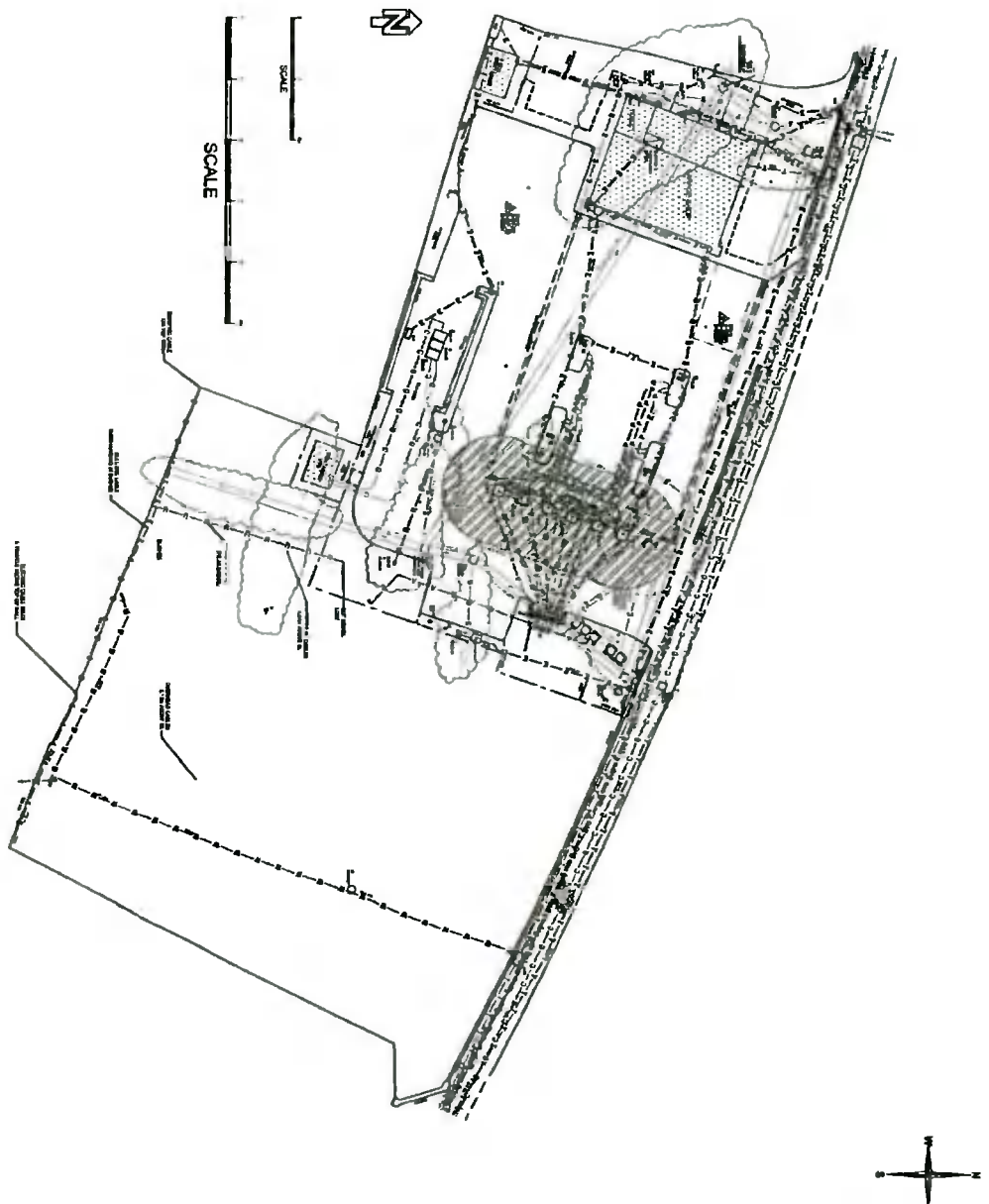


**SECTION 12.0 APPENDICES**

- Appendix A Esso Ltd Licence Drawing*
- Appendix B Services Drawing*
- Appendix C Esso Ltd Licence Drawing-Marked Up*
- Appendix D Electrical Isolation Certificate*
- Appendix E Asbestos Survey Documentations*
- Appendix F Tank Decommissioning Certificates*
- Appendix G Gas Free Certificates*
- Appendix H Import fill certificate*
- Appendix I Material Safety Data Sheets*



**NOTES:**  
 All pumps removed  
 Storage tanks of petrol burners  
 from tanks 3, 4 & all current MH's  
 Water plastic UTR  
 Read in conjunction with  
 Easo Drawing PPH-10  
 PHASE 2:  
 Read in conjunction with existing records.  
 All fuel pipes have been capped.  
 No evidence of culvert in manhole to the West of  
 the garage/shop and culvert in manhole to the  
 east of fuel tank 1.  
 PHASE 3:  
 Additional subscan of central location south of the  
 site (south of container UTS)  
 Subscan completed on 15.01.08 by Geomatic  
 Solutions.



**DISCLAIMER:** This drawing has been produced by A2S Environmental Services for the sole purpose of site investigation. The location of any underground services shown on this drawing has been determined using electronic methods and is not guaranteed. The location of any public services may vary from the site and the necessary service providers should be contacted for the appropriate utility company and used in conjunction with this drawing. Additional services, structures or other below ground obstructions not indicated on this drawing may be present on site. Reference should be made to historical plans and all other drawings.



**KEY**

- FUEL LINE - PETROL
- FUEL LINE - DIESEL
- ELECTRICITY CABLE
- HIGH VOLTAGE ELECTRICITY CABLE
- TANK GALVANIC LINE OR CORROSIVE CABLE
- WATER PIPE
- OIL PIPE
- TELECOM CABLE
- BT CABLE
- GAS TELEVISION
- WATER SUPPLY PIPE
- ROLL WATER DRAIN
- COMBINED WATER DRAIN
- UNDERNEATH - SEE NOTES
- OVERHEAD SERVICE
- END OF TRACE
- BUILDING
- CANOPY/CURTAIN
- MANHOLE
- PAVING
- DO NOT DRILL
- CRITICAL AREA
- SCAP OUTLINE
- TANK
- W-WATER
- P-PICULOT
- BONDHOLE LOCATION
- TRAIL PIT LOCATION
- UN-UNDRIVEN
- UN-UNDRIVEN

**TRACE CODES**

THIS DRAWING IS TO BE USED IN CONJUNCTION WITH THE DRAWING TO WHICH IT REFERS.  
 THIS DRAWING IS THE PROPERTY OF A2S ENVIRONMENTAL SERVICES LTD. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF A2S ENVIRONMENTAL SERVICES LTD.  
 A2S ENVIRONMENTAL SERVICES LTD. IS NOT RESPONSIBLE FOR ANY DAMAGE TO PERSONS OR PROPERTY CAUSED BY THE USE OF THIS DRAWING.  
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**ABBREVIATIONS**

EC	Existing Culvert	UP	Under Pipe
EDT	End of Trace	PH	Proposed
G	Gravel	WV	Water Valve
IC	Insulated Culvert	WM	Water Meter
LC	Lighting Cabinet	UT	Under to Trace
MH	Manhole Cover	EP	Electric Pipe
OSH	Overhead Service	CP	Cable Pipe
UTR	Under to Trace	PH	Proposed
SP	Spot Pipe	ACU	Air Conditioning Unit

**INTERCEPTOR DETAILS**

Type	Condition	Run	Material	Depth
3	Stone	Good	Asphalt	2.85m

**TANK DETAILS**

Item No.	Fuel Type	Capacity	Fuel To Pump
1	LDPE/LTE	20,000 Ltrs	3.67 Ltrs
2	LDPE/LTE	20,000 Ltrs	3.67 Ltrs
3	LDPE/LTE	20,000 Ltrs	3.67 Ltrs
4	LDPE/LTE	20,000 Ltrs	3.67 Ltrs
5	LDPE/LTE	20,000 Ltrs	3.67 Ltrs
6	LDPE/LTE	20,000 Ltrs	3.67 Ltrs

**CLIENT:** URG Future Ltd  
 Entry Services Park  
 Walsby, Lincoln  
 LN11 8JH

**SITE:** Rabouald Phase 2  
 Entry Services Station  
 Walsby, Lincoln

**QUANTIFYING NO:** 1/24  
**DATE:** 15/01/08  
**APPROVED BY:** PT  
**DATE:** 02/02/07  
**APPROVED BY:** PT

**A2S ENVIRONMENTAL SERVICES LTD**  
 15/01/08  
 02/02/07  
 PT  
 PT





# ENNIS BROS.

## Electrical Contractors



Mr. Gabriel Koncal  
M.S.I. Limited  
Unit 107  
Baldoyle Industrial Estate  
Baldoyle  
Dublin 13

Parkview House,  
65 Crumlin Road,  
Dublin 12.

Tel: 01 - 453 2173  
Fax: 01 - 453 2055  
Email: ennisbros@eircom.net

Automatic Control Systems  
Industrial Plant Installation and Maintenance

Specialists in Petro Chemical  
and Hazardous Areas

Control Panel, Design and Fabrication  
Floodlighting, Computer Networks

Your Reference:

Our Reference:

Date: 14<sup>th</sup> January 2008

### Ref. Electrical Isolation at Esso Service Station, Nutgrove Avenue Rathfarnham

Dear Sir,

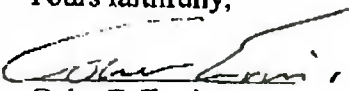
We certify that we have isolated the electrical circuits at the above address as set out below:

1. The fuses have been removed from the distribution boards
2. The main fuses have been removed
3. The E.S.B. have isolated the main supply to the premises

We advise that all areas should be scanned before excavating

Should you require any further information please do not hesitate to contact the undersigned.

Yours faithfully,

  
Colm F. Ennis

**R&M WILlich INDUSTRIAL SERVICES LTD**

**ASBESTOS SURVEY REPORT**

**AT**

**ESSO SERVICE STATION**

**NUTGROVE AVENUE**

**RATHFARNHAM**

**DUBLIN 14.**

**R&M WILlich INDUSTRIAL SERVICES LTD.**

**TEL: 01 4571129**

**FAX: 01 4571173**

**Type 3 Asbestos Survey at Esso Nutgrove Avenue  
Rathfarnham.**

**Contact Details**

<p><u>Client</u></p> <p>MSI Group</p> <p>Baldoye Industrial Estate.</p> <p>Dublin 13</p>	<p><u>Instructing Party</u></p> <p>MSI Group</p> <p>Baldoye Industrial Estate</p> <p>Dublin 13.</p> <p>Contact :Gabriel Koncal</p>
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<p><u>Site Address</u></p> <p>Esso Filling Station</p> <p>Nutgrove Avenue</p> <p>Rathfarnham</p> <p>Dublin 14.</p>	<p><u>Asbestos surveyors</u></p> <p>R&amp;M Willich Industrial Services Ltd,</p> <p>15 Crag Terrace,</p> <p>Clondalkin Industrial Estate,</p> <p>Dublin 22.</p> <p>Contact : Enda Drumm.</p>
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**Contents**

**1.0 Asbestos survey report**

**2.0 Bulk sample analysis**

## 1.0 Asbestos survey report

## Asbestos Survey at Esso Service Station Nutgrove Avenue Rathfarnham

### **Report & Survey Conditions**

Access to the site was arranged through Gabriel Koncal of MSI. The survey was carried out on the 23<sup>rd</sup> November 2007. The report was commissioned by MSI. Site contact was MSI site personnel. A **type 3 investigative survey** was carried out to identify any possible asbestos sources. We were accompanied on the survey by MSI Personnel. Building was empty and site has been fenced off.

No dismantling of solid structures was carried out. No core sampling of solid walls or floors were carried out. No excavations were carried out. No dismantling of mechanical or electrical plant was carried out as services were live.

The asbestos survey was conducted by means of visual inspection of all accessible areas of site defined. All reasonably accessible areas of the site were inspected to determine the presence of asbestos containing materials.

### **Summary**

Asbestos was not found on the premises. One sample was taken for analysis (see bulk sample analysis report attached).

An extensive survey of the vacant areas was carried out. However no dismantling of solid structures was carried out.

Our professional judgement and experience was used in the identification and location of materials suspected of containing asbestos in accessible and representative areas. Sampling of readily identifiable materials such as concrete, timber, and metal was not carried out.

Building is stand alone comprising of single storey shop area storeroom to rear managers office kitchen and toilet. There is a small fenced off area to rear of site this is the location of the compressor there is also a locked shed located here this was not inspected.

Building has solid walls solid floor with ceramic tiles throughout. Suspended ceilings in all areas metal deck roof above suspended ceiling

Canopy over pumps is constructed from steel framework galvanized and aluminium cladding.

Given the construction of the building and the construction methods employed in the past it is unlikely that any asbestos sources will be uncovered other than the items listed in this report.

However, it is not possible without substantial stripping and demolition of the buildings to guarantee that every source of asbestos was detected. Hence, care should be exercised when opening any previously not inspected and non-accessible areas. Should personnel or demolition workers come across any suspected asbestos materials unknown to them, work should cease immediately in the affected areas until further sampling and investigation is performed.

Inaccessible areas include:




- Those areas such as voids and cavities intimately concealed within the building structure. These voids are present throughout all buildings and may only be found or accessed during major demolition and / or refurbishment works.
- Inside mechanical and electrical equipment.
- Under ground level

#### **Asbestos Sources**

- No asbestos sources were evident. It is possible that air compressor may have asbestos seals internally. Shed at rear of building was locked but was outside the scope of the survey.


## 2.0 Bulk Sample Analysis

Asbestos Survey Report

Location	Product Type	Quantity	Sample No.	Asbestos Type	Accessibility	Damage	Surface Treatment	Photo Ref
Forecourt canopy	Mastic	N/A	7120202	NADIS				 001
<b>Notes</b> Compressor located behind timber fence.	View of premises from roadway. Canopy metal supporting frame with metal profile sheeting fitted. No evidence of any asbestos. Mastic sealer on metal cladding tested no asbestos detected in sample. Presumed asbestos gaskets.							 002
<b>Notes</b> Inside shop	Small store locked at storage area behind fence compressor may contain asbestos internally check with manufacturer.							 003
<b>Notes</b>	View of inside of shop solid floor solid walls suspended ceiling. No asbestos evident.							

18/04/0822

### Asbestos Survey Report

Location	Product Type	Quantity	Sample No.	Asbestos Type	Accessibility	Damage	Surface Treatment	Photo Ref
Shop								
<b>Notes</b> Toilets	View of metal decking above false ceilings steel supports. Suspended ceiling mmf. No asbestos evident.							004
<b>Notes</b> Managers office	Suspended ceiling tiles mmf no asbestos detected.							005
<b>Notes</b>	Mdf used to box in service pipes no asbestos detected.							006







## Tank De-Commissioning Certificate

Date: 14-2-08

Certificate No: 200822

General Information	
Client: M/Exxonmobil	Site: Prury S/S
Contact: Mr P Footis	Site Contact: S Hickey
Address: Exxonmobil House Mailport 26 Ermynway Leatherhead Surrey KT22 80X	Site Address: Nur Grove Ave Rathfarnham
Customer PO No:	Job No:
De-Commissioning Details	
Crew: SV PG MB DA	SMS No:
Works Commenced: 11-2-08	Works Completed: 14-2-08
Tank Details: Tank no 6 20,000 Double Skin	
Product Details: Diesel	
Procedure Details: Tank cleaned of Sludge & waste + Degassed	
Disposal Details: Authorised disposal of Tank	
Special Requirements: Works Carried out in Accordance to MSI SMS	
Notes: Gas Free Certificate no 200631	
This is to certify that the above tank has been de-commissioned fully in accordance with the details recorded on this certificate and the procedures or method statements referred to by it.	
Signed for: <u>S Hickey</u> (MSI Limited)	Witnessed by: _____ Position: _____



MSI LIMITED  
 UNIT 107, BALDOYLE INDUSTRIAL ESTATE, DUBLIN 13.  
 TEL: 8391000 FAX: 8391998



## Tank De-Commissioning Certificate

Date: 14-2-08

Certificate No: 200821

### General Information

Client: Exxonmobil	Site: Prwy S/S
Contact: Mr P Fooks	Site Contact: S Muehen
Address: Exxonmobil House Railport 26 Ermynway Leatherhead Surrey KT22 80X	Site Address: Nut Grove Ave Rahlfornham
Customer PO No:	Job No:

### De-Commissioning Details

Crew: SH PG-NB DA	SMS No:
Works Commenced: 11-2-08	Works Completed: 14-2-08
Tank Details: Tank no 5 20,000 Double Skin	
Product Details: unleaded	
Procedure Details: Tank cleaned of sludge & waste and Tank Degassed.	
Disposal Details: Authorised disposal of tank waste	
Special Requirements: works carried out as per MSI SMS	
Notes: Gas Free Certificate no 200630	

This is to certify that the above tank has been de-commissioned fully in accordance with the details recorded on this certificate and the procedures or method statements referred to by it.

Signed for: S Muehen 14-2-08 Witnessed by: \_\_\_\_\_  
 (MSI Limited) Position: \_\_\_\_\_



MSI LIMITED  
 UNIT 107, BALDOYLE INDUSTRIAL ESTATE, DUBLIN 13.  
 TEL: 8391000 FAX: 8391998



## Tank De-Commissioning Certificate

Date: 14-2-08

Certificate No: 200820

### General Information

Client: Exxonmobil	Site: Prory S/S
Contact: M P Forks	Site Contact: S Mchey
Address: Exxonmobil House Maulport 26 Emynway Leatherhead Surrey KT22 8UX	Site Address: NabGrave Ave Rathfarnham
Customer PO No:	Job No:

### De-Commissioning Details

Crew: SH PG NB DA	SMS No:
Works Commenced: 11-2-08	Works Completed: 14-2-08
Tank Details: Tank no 4 unleaded 20,000 Double Skin	
Product Details: unleaded	
Procedure Details: Tank cleaned of waste & Gas Freed	
Disposal Details: Authorised disposal of waste.	
Special Requirements: works carried out in accordance to MSI SMS	
Notes: Gas Free Certificate no 200629	

This is to certify that the above tank has been de-commissioned fully in accordance with the details recorded on this certificate and the procedures or method statements referred to by it.

Signed for: S Mchey

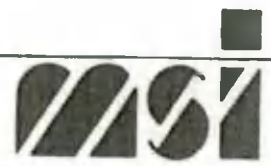
Witnessed by: \_\_\_\_\_

(MSI Limited)

Position: \_\_\_\_\_



MSI LIMITED  
UNIT 107, BALDOYLE INDUSTRIAL ESTATE, DUBLIN 13.  
TEL: 8391000 FAX: 8391998



## Tank De-Commissioning Certificate

Date: 13-2-08

Certificate No: 200819

### General Information

Client: Exxon mobil	Site: Prury S/S
Contact: Mr P Footis	Site Contact: SHickey
Address: Exxonmobil House 1culpont 26 Ermyrway Leatherhead Surrey KT22 8UX	Site Address: nutGrave Avenue Rathfarnham.
Customer PO No:	Job No:

### De-Commissioning Details

Crew: SH, PG, NB, DA,	SMS No:
Works Commenced: 11-2-08	Works Completed: 14-2-08
Tank Details: Tank no 3 20,000 Litres	
Product Details: unleaded	
Procedure Details: Tank cleaned of waste and Gas Freed	
Disposal Details: Authorised disposal of tank waste + Tank	
Special Requirements: works carried out as per MSI SMS	
Notes: Gas Free Certificate no 200628	

This is to certify that the above tank has been de-commissioned fully in accordance with the details recorded on this certificate and the procedures or method statements referred to by it.

Signed for: SHickey

Witnessed by: \_\_\_\_\_

(MSI Limited)

Position: \_\_\_\_\_



MSI LIMITED  
 UNIT 107, BALDOYLE INDUSTRIAL ESTATE, DUBLIN 13.  
 TEL: 8391000 FAX: 8391998



## Tank De-Commissioning Certificate

Date: 13-2-08

Certificate No: 200818

### General Information

Client: Exxon mobil	Site: Priddy S/S
Contact: Mr P Fooks	Site Contact: S Hukey
Address: Exxonmobil House naipont 26 Ermyrway Leatherhead Surrey KT228UX	Site Address: Nut Grove Avenue Rathfarnham
Customer PO No:	Job No:

### De-Commissioning Details

Crew: SH PG NB DH	SMS No:
Works Commenced: 11-2-08	Works Completed: 14-2-08
Tank Details: Tank no 2 20,000 Double Skin	
Product Details: unleaded	
Procedure Details: Tank cleaned and Gas Freed	
Disposal Details: Authorised disposal of Tank waste + Tank	
Special Requirements: Works Carried out as per MSI SMS	
Notes: Gas Free certificate no 200627	

This is to certify that the above tank has been de-commissioned fully in accordance with the details recorded on this certificate and the procedures or method statements referred to by it.

Signed for: S Hukey 13-2-08. Witnessed by: \_\_\_\_\_  
 (MSI Limited) Position: \_\_\_\_\_



MSI LIMITED  
UNIT 107, BALDOYLE INDUSTRIAL ESTATE, DUBLIN 13.  
TEL: 8391000 FAX: 8391998



## Tank De-Commissioning Certificate

Date: 13-2-08

Certificate No: 200817

### General Information

Client: Exxon Mobil	Site: Priory S/S
Contact: MFP Footis	Site Contact: Shickey
Address: Exxon House Mail point 26 Emynonyng Leatherhead Surrey KT22 80X	Site Address: Nut Grove Avenue Rahforham
Customer PO No:	Job No:

### De-Commissioning Details

Crew: SH PG NB DA	SMS No:
Works Commenced: 11-2-08	Works Completed: 14-2-08
Tank Details: Tank no 1 20,000 Lts	
Product Details: unleaded	
Procedure Details: Tank cleaned of Sludge & waste & Gas Freed	
Disposal Details: Authorised disposal of Tank waste + Tank.	
Special Requirements: Works Carried out as per MSI SMS	
Notes: Gas Free Certificate no 200626	

This is to certify that the above tank has been de-commissioned fully in accordance with the details recorded on this certificate and the procedures or method statements referred to by it.

Signed for: Shickey

(MSI Limited)

Witnessed by: \_\_\_\_\_

Position: \_\_\_\_\_

MSI LIMITED  
UNIT 107, BALDOYLE INDUSTRIAL ESTATE, DUBLIN 13.  
TELEPHONE 8391000. FAX: 8391998



# GAS FREE CERTIFICATE

Certificate No.: 200627

Tank No./Product Tank No 2 Unleaded

Time of Issue 800 a.m./p.m.

Location: Prory S/S  
Rathfarnham

Date: 13-2-08

Particulars of vapour tests					Remarks
Test	Location	Time	Date	Reading	
1	Tank	800	13-2-08	200	Tank Gas Freed no vapour
2	Tank	800	13-2-08	200	Zero LEL Double Skin Tank.

Explosimeter No. 17513 Make NTRON

Recommended precautions

NO Entry into Tank

This is to certify that I have inspected the above mentioned tank and consider that it is safe for Disposal subject to the precautions listed above being fully observed.

Signature Shichey (responsible person)

MSI LIMITED  
UNIT 107, BALDOYLE INDUSTRIAL ESTATE, DUBLIN 13.  
TELEPHONE 8391000. FAX: 8391998



# GAS FREE CERTIFICATE

Certificate No.: 200628

Tank No. / Product Tank No 3 unleaded

Time of Issue 1520 a.m./p.m.

Location: Privy S/S  
Rathforham

Date: 13-2-2008

Particulars of vapour tests					Remarks
Test	Location	Time	Date	Reading	
1	Tank	1520	13/2/08	200	NO Vapour Tank cleared
2	Tank	1525	13/2/08	200	Tank Gas Freed

Explosimeter No. 17513 Make NTRON

Recommended precautions NO Entry into Tank

This is to certify that I have inspected the above mentioned tank and consider that it is safe for Disposal subject to the precautions listed above being fully observed.

Signature S. Heaney (responsible person)



MSI LIMITED  
UNIT 107, BALDOYLE INDUSTRIAL ESTATE, DUBLIN 13.  
TELEPHONE 8391000. FAX: 8391998



# GAS FREE CERTIFICATE

Certificate No.: 200629

T : No. / Product Tank no 4 Unleaded

Time of Issue 7.55 a.m./p.m.

Location: Priory S/S  
Rathfarnham

Date: 14-2-08

Particulars of vapour tests					Remarks
Test	Location	Time	Date	Reading	<u>Tank cleared &amp; Gas Freed</u>
1	<u>Tank</u>	<u>8 00</u>	<u>14-2-08</u>	<u>Zero</u>	
2	<u>Tank</u>	<u>8 00</u>	<u>14-2-08</u>	<u>Zero</u>	
Explosimeter No. <u>17513</u> Make <u>NTRON</u>					

F. Recommended precautions

NO Entry into Tank

This is to certify that I have inspected the above mentioned tank and consider that it is safe for Disposal subject to the precautions listed above being fully observed.

Signature S Kichey (responsible person)

MSI LIMITED  
UNIT 107, BALDOYLE INDUSTRIAL ESTATE, DUBLIN 13.  
TELEPHONE 8391000. FAX: 8391998



# GAS FREE CERTIFICATE

Certificate No.: 200630

T No. / Product Tank no 5 unleaded

Time of Issue 12:00 a.m./p.m.

Location: Prumy S/S  
Rathfarham

Date: 13-2-08

Particulars of vapour tests					Remarks
Test	Location	Time	Date	Reading	
1	Tank	12:00	13-2-08	Zero	Tank cleaned & Gas freed
2	Tank	12:10	13/2/08		

Explosimeter No. 17513 Make NTRON

Recommended precautions NO Entry into Tank

This is to certify that I have inspected the above mentioned tank and consider that it is safe for Disposal subject to the precautions listed above being fully observed.

Signature S. M. Hickey (responsible person)

MSI LIMITED  
UNIT 107, BALDOYLE INDUSTRIAL ESTATE, DUBLIN 13.  
TELEPHONE 8391000. FAX: 8391998



# GAS FREE CERTIFICATE

Certificate No.: 200626

Tank No. / Product Tank no 1 unleaded

Time of Issue 1140 a.m./p.m.

Location: Prong S/S  
Rathfarnham

Date: 14-2-08

Particulars of vapour tests					Remarks
Test	Location	Time	Date	Reading	
1	Tank	11:40	14-2-08	200	Tank cleaned & Gas Freed Double Skin
2	Tank	14:45	14-2-08	200	

Explosimeter No. 17513 Make NTRON

Recommended precautions NO Entry into Tank  
Wear PPE AT ALL Times.

This is to certify that I have inspected the above mentioned tank and consider that it is safe for Disposal subject to the precautions listed above being fully observed.

Signature Sheehy (responsible person)

MSI LIMITED  
UNIT 107, BALDOYLE INDUSTRIAL ESTATE, DUBLIN 13.  
TELEPHONE 8391000. FAX: 8391998



# GAS FREE CERTIFICATE

Certificate No.: 200631

T No. / Product Tank no 6 Diesel

Time of Issue 15.30 a.m./p.m.

Location: Privy S/S  
Rathfarnham

Date: 14-2-08

Particulars of vapour tests					Remarks
Test	Location	Time	Date	Reading	
1	Tank	1520	14-2-08	zero	Tank cleaned & Gas Freed
2	Tank	1525	14-2-08	zero.	

Explosimeter No. 17513 Make NTRON

F. Recommended precautions

NO Entry into Tank.

This is to certify that I have inspected the above mentioned tank and consider that it is safe for Disposal subject to the precautions listed above being fully observed.

Signature

S Hechey

(responsible person)

## Gabriel Koncal

---

**From:** Sophie\_Smith@URSCorp.com  
**Sent:** 18 February 2008 17:16  
**To:** Gabriel Koncal; Brian Prendergast  
**Cc:** Edel\_O'Hannelly@URSCorp.com  
**Subject:** Priory Imported Fill Material  
**Attachments:** 08-01512-01-MCERTS-B1-x.pdf

Gabriel,

As discussed, please find that lab certificates for the imported fill material attached below (IF01). URS consider this material to be suitable for use as backfill at the Priory site.

Regards,

Sophie

*(See attached file: 08-01512-01-MCERTS-B1-x.pdf)*

Sophie Smith  
Project Environmental Geologist

URS Ireland Ltd  
Iveagh Court  
6-8 Harcourt Road  
Dublin 2  
Tel: +353 (0) 1 415 5100  
Fax: +353 (0) 1 415 5101  
Mob: +353 (0) 87 771 7260  
Email: sophie\_smith@urscorp.com  
Web: www.urseurope.com

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URS Ireland Ltd  
Place of registration: Ireland  
Registered number: 107912  
Registered office: Iveagh Court, 4th Floor, 6-8 Harcourt Road, Dublin, Ireland





Validated   
 Preliminary

# ALcontrol Laboratories Analytical Services

## Table Of Results

# ISO 17025 accredited  
 M MCERTS accredited  
 \* Subcontracted test  
 » Shown on prev. report

**Job Number:** 08/01512/02/01  
**Client:** URS Ireland Limited  
**Client Ref. No.:**

**Matrix:** SOLID  
**Location:** PRIORY S/S  
**Client Contact:** Edel O' Hannelly

Sample Identity	PRIO_IF0 1										Method Code	Lob/Units
Depth (m)												
Sample Type	SOLID											
Sampled Date	21.01.08											
Sample Received Date	23.01.08											
Batch	1											
Sample Number(s)	1-4											
GRO (C4-C12)	<10										TM089	<10 ug/kg
MTBE	<10										TM089 <sup>#</sup>	<10 ug/kg
Benzene	<10										TM089 <sup>#M</sup>	<10 ug/kg
Toluene	<10										TM089 <sup>#M</sup>	<10 ug/kg
Ethyl benzene	<10										TM089 <sup>#M</sup>	<10 ug/kg
m & p Xylene	<10										TM089 <sup>#M</sup>	<10 ug/kg
o Xylene	<10										TM089 <sup>#M</sup>	<10 ug/kg
Aliphatics C5-C6	<10										TM089	<10 ug/kg
Aliphatics >C6-C8	<10										TM089	<10 ug/kg
Aliphatics >C8-C10	<10										TM089	<10 ug/kg
Aliphatics >C10-C12	<10										TM089	<10 ug/kg
Aliphatics >C12-C16	<100										TM173 <sup>#</sup>	<100 ug/kg
Aliphatics >C16-C21	<100										TM173 <sup>#</sup>	<100 ug/kg
Aliphatics >C21-C35	<100										TM173 <sup>#</sup>	<100 ug/kg
Total Aliphatics C5-C35	<100										TM61/89	<100 ug/kg
Aromatics C6-C7	<10										TM089	<10 ug/kg
Aromatics >C7-C8	<10										TM089	<10 ug/kg
Aromatics >EC8-EC10	<10										TM089	<10 ug/kg
Aromatics >EC10-EC12	<10										TM089	<10 ug/kg
Aromatics >EC12-EC16	<100										TM173 <sup>#</sup>	<100 ug/kg
Aromatics >EC16-EC21	<100										TM173 <sup>#</sup>	<100 ug/kg
Aromatics >EC21-EC35	<100										TM173 <sup>#</sup>	<100 ug/kg
Total Aromatics C6-C35	<100										TM61/89	<100 ug/kg
TPH (Aliphatics and Aromatics C5-C35)	<100										TM61/89	<100 ug/kg

All results expressed on a dry weight basis.

Date 29.01.2008



Validated   
 Preliminary

# ALcontrol Laboratories Analytical Services

## Table Of Results

\* ISO 17025 accredited  
 M MCERTS accredited  
 \* Subcontracted test  
 » Shown on prev. report

Job Number: 08/01512/02/01  
 Client: URS Ireland Limited  
 Client Ref. No.:

Matrix: SOLID  
 Location: PRIORY S/S  
 Client Contact: Edel O' Hannelly

Sample Identity	PRIO_IF0 1										Method Code	LoD/Units
Depth (m)												
Sample Type	SOLID											
Sampled Date	21.01.08											
Sample Received Date	23.01.08											
Batch	1											
Sample Number(s)	1-4											
<b>PAH by GCMS</b>												
Naphthalene	380										TM074 <sup>M</sup>	<10 ug/kg
Acenaphthylene	<5										TM074 <sup>M</sup>	<5 ug/kg
Acenaphthene	67										TM074 <sup>M</sup>	<14 ug/kg
Fluorene	24										TM074 <sup>M</sup>	<12 ug/kg
Phenanthrene	21										TM074 <sup>M</sup>	<21 ug/kg
Anthracene	<9										TM074 <sup>M</sup>	<9 ug/kg
Fluoranthene	<25										TM074 <sup>M</sup>	<25 ug/kg
Pyrene	<22										TM074 <sup>M</sup>	<22 ug/kg
Benz(a)anthracene	<12										TM074 <sup>M</sup>	<12 ug/kg
Chrysene	<10										TM074 <sup>M</sup>	<10 ug/kg
Benzo(b)fluoranthene	<16										TM074 <sup>M</sup>	<16 ug/kg
Benzo(k)fluoranthene	<25										TM074 <sup>M</sup>	<25 ug/kg
Benzo(a)pyrene	<12										TM074 <sup>M</sup>	<12 ug/kg
Indeno(123cd)pyrene	<11										TM074 <sup>M</sup>	<11 ug/kg
Dibenzo(ah)anthracene	<8										TM074 <sup>M</sup>	<8 ug/kg
Benzo(ghi)perylene	<10										TM074 <sup>M</sup>	<10 ug/kg
PAH 16 Total	500										TM074 <sup>M</sup>	<25 ug/kg

All results expressed on a dry weight basis.

Date 29.01.2008













# ALcontrol Laboratories Analytical Services

## Table Of Results - Appendix

Job Number: 08/01512/02/01  
 Client: URS Ireland Limited  
 Client Ref. No.:

### Report Key :

Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03x10<sup>-7</sup>

NDP	No Determination Possible	*	Subcontracted test
NFD	No Fibres Detected	»	Result previously reported (Incremental reports only)
#	ISO 17025 accredited	M	MCERTS Accredited
PFD	Possible Fibres Detected	EC	Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control.

### Summary of Method Codes contained within report :

Method No.	Reference	Description	Accredited ISO 17025	Accredited MCERTS	Wet/Dry Sample <sup>1</sup>	Surrogate Corrected
TM062	MEWAM BOOK 124 1988 HMSO/ Method 17.7, Second Site property, March 2003	Determination of Phenolic compounds by HPLC with electro-chemical detection	✓	✓	WET	
TM074	Modified: US EPA Method 8100	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS. MCERTS Accreditation on Soils for Naphthalene except when Kerosene present.	✓		DRY	
TM074	Modified: US EPA Method 8100	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS. MCERTS Accreditation on Soils for Naphthalene except when Kerosene present.	✓	✓	DRY	
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)			WET	
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)	✓		WET	
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)	✓	✓	WET	
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS	✓		NA	
TM129	Method 3120B, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 3050B	Determination of Metal Cations by IRIS Emission Spectrometer			DRY	
TM129	Method 3120B, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 3050B	Determination of Metal Cations by IRIS Emission Spectrometer	✓		DRY	
TM129	Method 3120B, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 3050B	Determination of Metal Cations by IRIS Emission Spectrometer	✓	✓	DRY	
TM132	In - house Method	ELTRA CS800 Operators Guide	✓	✓	DRY	
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS			NA	
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS	✓		NA	
TM173		Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID	✓		DRY	

<sup>1</sup> Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.







# Product Health & Safety data

ESSO PETROLEUM COMPANY LIMITED

Product: ESSO MOTOR DIESEL FUEL

---

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION

PRODUCT: ESSO MOTOR DIESEL FUEL

PRODUCT No.: U-DIESEL  
REVISION: 19 SEPTEMBER 2002  
SUPERSEDES: 30 JULY 2002

ESSO PETROLEUM COMPANY LIMITED  
EXXONMOBIL HOUSE  
ERMYN WAY  
LEATHERHEAD  
SURREY KT22 8UX

IN AN EMERGENCY PLEASE CONTACT:  
01372 223131

### INTENDED USES:

Fuel for diesel motors or burners.

---

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients present at or above regulatory disclosure levels:

INGREDIENT	SYMBOL/R-PHASE	CAS #	WT.%
<b>Ingredients contributing to a hazard classification:</b>			
Gas oil	Xn, R 40 R 65 R 66 R		
	51/53		
	Up to 99.9%		

---

## 3. HAZARD IDENTIFICATION

This product is considered hazardous according to EU regulatory guidelines.  
(see Section 15).

### Hazards associated with this product:

Limited evidence of a carcinogenic effect.

Harmful: may cause lung damage if swallowed.

Repeated exposure may cause skin dryness or cracking.

### Potential Environmental effects:

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

# Product Health & Safety data

ESSO PETROLEUM COMPANY LIMITED

Product: ESSO MOTOR DIESEL FUEL

---

This product contains significant amounts of polycyclic aromatic compounds (PACs) some of which are known from experimental animal studies to be skin carcinogens.

Prolonged and repeated exposure may therefore cause dermatitis and there is a risk of skin cancer.

The risk of skin cancer will be very low, providing the handling precautions are such that prolonged and repeated skin contact is avoided and good personal hygiene is observed.

Aspiration of liquid into the lungs directly or a result of vomiting following ingestion of the liquid, can cause severe lung damage and death.

Handling precautions must be strictly observed.

Note: This product should not be used for any other purpose without expert advice.

---

## 4. FIRST AID MEASURES

---

### INHALATION:

In emergency situations use proper respiratory protection to immediately remove the affected victim from exposure. Administer artificial respiration if breathing has stopped. Keep at rest. Call for prompt medical attention.

### SKIN CONTACT:

Immediately flush with large amounts of water; use soap if available. Remove contaminated clothing, including shoes, after flushing has begun.

If irritation occurs and persists, get medical attention.

### EYE CONTACT:

Rinse immediately with plenty of water until irritation subsides. If irritation persists, obtain medical advice.

### INGESTION:

DO NOT induce vomiting since it is important that no amount of the material should enter the lungs (aspiration). Keep at rest. Get prompt medical attention.

---

## 5. FIRE-FIGHTING MEASURES

---

**EXTINGUISHING MEDIA:** Foam, dry chemical powder, carbon dioxide.

# Product Health & Safety data

ESSO PETROLEUM COMPANY LIMITED

Product: ESSO MOTOR DIESEL FUEL

---

## FIRE AND EXPLOSION HAZARDS:

Flammable liquid, moderate hazard. Liquid can release vapours that readily form flammable mixtures at or above the flash point.

Static discharge; material can accumulate static charges which may cause an incendiary electrical discharge.

FLASH POINT:	> 55 deg. C
METHOD:	PMCC ASTM D93
FLAMMABILITY LIMITS IN AIR, % BY VOL:	LEL: 0.50 UEL: 5.00 Approx.
AUTOIGNITION TEMPERATURE:	> 250 DEG. C

## SPECIAL FIRE-FIGHTING PROCEDURES:

Water fog or spray, to cool fire-exposed surfaces (e.g. containers) and to protect personnel, should only be used by personnel trained in fire fighting.

Cut off "fuel"; depending on circumstances, either allow the fire to burn out under controlled conditions or use foam or dry chemical powder to extinguish the fire.

Respiratory and eye protection required for fire fighting personnel exposed to fumes or smoke.

## HAZARDOUS COMBUSTION PRODUCTS:

Smoke, and carbon monoxide may be formed in the event of incomplete combustion.

---

## 6. ACCIDENTAL RELEASE MEASURES

---

### PERSONAL PRECAUTIONS:

See Section 8.

### LAND SPILL:

Eliminate sources of ignition.

Shut off source taking normal safety precautions. Prevent liquid from entering sewers, water courses or low lying areas; advise the relevant authorities if it has, or if it contaminates soil/vegetation. Take measures to minimise the effects on ground water.

Recover by skimming or pumping using explosion-proof equipment, or contain spilled liquid with booms, sand, or other suitable absorbent and remove mechanically into containers. If necessary, dispose of adsorbed residues as directed in Section 13.

# Product Health & Safety data

ESSO PETROLEUM COMPANY LIMITED

Product: ESSO MOTOR DIESEL FUEL

---

## WATER SPILL:

Confine the spill immediately with booms. Warn other shipping. Notify port and other relevant authorities.

Remove from the surface by skimming or with suitable absorbents. Disperse the residue in unconfined waters, if permitted by local authorities and environmental agencies.

---

## 7. HANDLING AND STORAGE

### SPECIFIC USES:

Fuel for diesel motors or burners.

The design and operation of bulk storage and fuel systems must comply with national legislation and recognised codes of good practice. In smaller quantities, containers such as drums should be stored in cool, well ventilated surroundings, away from all sources of ignition. Electrical equipment and fittings must comply with local fire prevention regulations for this class of flammable product.

Store the product in cool, well ventilated surroundings. Provide mechanical equipment for the safe handling of drums and heavy packages.

Material will accumulate static charges which may cause a spark. Static charge build-up could become an ignition source. Use proper grounding procedure.

**LOAD/UNLOAD TEMPERATURE deg. C:**

Ambient to 40

**STORAGE TEMPERATURE deg. C:**

Ambient to 40

### SPECIAL PRECAUTIONS:

Store and handle in closed or properly vented containers.

Ensure compliance with statutory requirements for storage and handling.

Check for and prevent potential leaks from containers.

---

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### 8.1 OCCUPATIONAL EXPOSURE LIMIT:

ACGIH recommends a TWA of 100 mg/m<sup>3</sup> total hydrocarbon for diesel fuel

### 8.2 PERSONAL PROTECTION:

# Product Health & Safety data

ESSO PETROLEUM COMPANY LIMITED

Product: ESSO MOTOR DIESEL FUEL

---

In open systems where contact is likely, wear safety goggles, chemical-resistant overalls, and chemically impervious gloves.

Where only incidental contact is likely, wear safety goggles, long sleeves, and chemical-resistant gloves.

When concentrations in air may exceed the occupational exposure limit, and where engineering, work practices, or other means of exposure reduction are not adequate, approved respirators may be required.

**ENVIRONMENTAL CONTROLS:** See section 7.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### GENERAL:

**APPEARANCE / ODOUR:** Clear light coloured liquid, petroleum hydrocarbon odour.

### IMPORTANT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION:

**DENSITY, g/ml:** 0.85 at 15 deg. C Typical

**BOILING RANGE:** 180.0 - 390.0 deg. C Typical

**VISCOSITY, mm<sup>2</sup>/S:** 3 at 40 deg. C Typical

**VAPOUR PRESSURE, kPa:** < 0.3 at 20 deg. C

**VAPOUR DENSITY AT 1 BAR (Air=1):** Heavier than air

**EVAPORATION RATE (n-butyl acetate=1):** <0.1

**SOLUBILITY IN WATER:** 20 deg. C Negligible

**pH:** Not Applicable.

**FLASH POINT:** > 55 deg. C  
**METHOD:** PMCC ASTM D93

**FLAMMABILITY LIMITS IN AIR, % BY VOL:** LEL: 0.50 UEL: 5.00 Approx.

**AUTOIGNITION TEMPERATURE:** > 250 DEG. C

**PARTITION COEFFICIENT n-octanol/water:** Data not available.

# Product Health & Safety data

ESSO PETROLEUM COMPANY LIMITED

Product: ESSO MOTOR DIESEL FUEL

---

## 10. STABILITY AND REACTIVITY

**STABILITY (THERMAL, LIGHT, ETC):** Stable

**CONDITIONS TO AVOID:**

Keep away from heat sources, open flames and other sources of ignition.

**INCOMPATIBLE MATERIALS:**

Avoid contact with strong oxidants such as liquid chlorine and concentrated oxygen.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Product does not decompose at ambient temperature.

---

## 11. TOXICOLOGICAL INFORMATION

**EFFECTS OF OVER EXPOSURE:**

**INHALATION:**

In high concentrations and/or at elevated temperatures, vapour or mist is irritating to mucous membranes, may cause headaches and dizziness, may be anesthetic and may cause other central nervous system effects.

Elevated temperatures or mechanical action may form vapours, mists, or fumes which may be irritating to the eyes, nose, throat, and lungs.

Avoid breathing vapours, mists, or fumes.

**SKIN CONTACT:**

Low order of acute toxicity.

Irritating.

Prolonged or repeated contact may also lead to more serious skin disorders, including skin cancer.

Certain components present in this material may be absorbed through the skin, possibly in toxic quantities.

**EYE CONTACT:**

Slightly irritating, but does not injure eye tissue.

**INGESTION:**

Low order of acute/systemic toxicity.



# Product Health & Safety data

ESSO PETROLEUM COMPANY LIMITED

Product: ESSO MOTOR DIESEL FUEL

---

Minute amounts aspirated into the lungs during ingestion or vomiting may cause severe pulmonary injury and death.

## CHRONIC:

Contains polycyclic aromatic compounds (PACs). Prolonged and/or repeated skin contact with certain PACs has been shown to cause skin cancer. Prolonged and/or repeated exposures by inhalation of certain PACs may also cause cancer of the lung and of other sites of the body.

## TOXICITY DATA:

### ACUTE:

Based on animal testing data from similar materials and products, the acute toxicity of this product is expected to be: Oral : LD50 > 5000 mg/kg (Rat) Dermal : LD50 > 2000 mg/kg (Rabbit) Inhalation : LC50 > 2500 mg/m<sup>3</sup> (Rat)

### CHRONIC:

Based on what is known of this product and of materials of similar composition and refining history, this product would be expected to have carcinogenic potential.

---

## 12. ECOLOGICAL INFORMATION

---

The following information below reflects expected environmental fate and effects of this formulated product.

### ENVIRONMENTAL FATE AND EFFECTS:

#### ECOTOXICITY:

Expected to be toxic to aquatic organisms.

#### MOBILITY:

"Highly volatile, will partition rapidly to air."

#### PERSISTENCE AND DEGRADABILITY:

Transformation due to hydrolysis not expected to be significant.

Transformation due to photolysis not expected to be significant.

Expected to degrade at a moderate rate in air

# Product Health & Safety data

ESSO PETROLEUM COMPANY LIMITED

Product: ESSO MOTOR DIESEL FUEL

---

Expected to be inherently biodegradable.

## BIOACCUMULATIVE POTENTIAL:

Potential to bioaccumulate is low.

---

## 13. DISPOSAL CONSIDERATIONS

---

This product contains hazardous ingredients listed in Section 2. Collect and dispose of it at an authorised disposal facility, in conformance with national and local regulations, and in accordance with EEC Directives on hazardous waste.

EU WASTE DISPOSAL CODE: 13 07 01

(Note: these codes are assigned based upon the most common uses for this product and may not reflect contaminants resulting from actual use.

Purchasers may need to reassign waste disposal codes based on actual use.)

---

## 14. TRANSPORT INFORMATION

---

### USUAL SHIPPING CONTAINERS:

Tankers, barges, rail cars, tank trucks, drums.

TRANSPORT TEMPERATURE deg. C: Ambient to 40

### INTERNATIONAL TRANSPORT REGULATIONS

UN no 1202

### Substance name / Proper Shipping Name

Diesel fuel / Heating oil (light)

### LAND / INLAND WATERWAYS

Regulated for transport by land under ADR/RID regulations and inland waterways under ADNR regulations:

Classification & class no./code	3 F1	Hazard Iden. no.	30
Hazard labels of class	3	Special Provision (640)	
Packing group	III		
UK Emergency action (HAZCHEM)	3Z		

# Product Health & Safety data

ESSO PETROLEUM COMPANY LIMITED

Product: ESSO MOTOR DIESEL FUEL

---

## SEA

Regulated for transport by sea under IMO regulations:

IMDG class	3	Packing group	III
Marine pollutant	No		
EMS no	3-07		
Subsidiary risk / mark	none		

## AIR

Regulated for transport by air under IATA regulations:

IATA class	3	Subsidiary risk	none
Packing group	III		
	<b>Packing instructions</b>	<b>Maximum quantity</b>	
Passenger aircraft	309	60 l	
Cargo aircraft	310	220 l	

---

## 15. REGULATORY INFORMATION

---

**HAZARD CLASSIFICATION:** Carcinogenic cat. 3  
Harmful  
Dangerous for the environment

**LABEL:**

**SYMBOL:** Xn,N  
**INDICATION OF DANGER:** HARMFUL, DANGEROUS FOR THE ENVIRONMENT

**RISK PHRASE:**

R 40 Limited evidence of a carcinogenic effect.  
R 65 Harmful: may cause lung damage if swallowed.  
R 66 Repeated exposure may cause skin dryness or cracking.  
R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**SAFETY PHRASE:**

S 2 Keep out of reach of children  
S 29 Do not empty into drains  
S 36 Wear suitable protective clothing  
S 37 Wear suitable gloves  
S 46 If swallowed, seek medical advice immediately and show this container or label

# Product Health & Safety data

ESSO PETROLEUM COMPANY LIMITED

Product: ESSO MOTOR DIESEL FUEL

---

## OTHER LABEL INFORMATION:

Contains:

Gas oil

---

## 16. OTHER INFORMATION

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### LIBRARY OF RISK PHRASES LISTED IN THIS DOCUMENT:

R 40	Limited evidence of a carcinogenic effect.
R 51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 65	Harmful: may cause lung damage if swallowed.
R 66	Repeated exposure may cause skin dryness or cracking.

### SOURCE OF KEY DATA:

The recommendations presented in this Material Safety Data Sheet were compiled from actual test data (when available), comparison with similar products, component information from suppliers and from recognised codes of good practice.

The information and recommendations contained herein are, to the best of ExxonMobil's knowledge and belief, accurate and reliable as of the date issued, but are offered without guarantee or warranty. They relate to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Conditions of use of the material are under the control of the user; therefore, it is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

---

END OF DATA

---

# Product Health & Safety data

ESSO PETROLEUM COMPANY LIMITED

Product: ESSO MOTOR GASOLINE

---

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION

PRODUCT: ESSO MOTOR GASOLINE

PRODUCT No.: U-PET01  
REVISION: 19 SEPTEMBER 2002  
SUPERSEDES: 30 JULY 2002

ESSO PETROLEUM COMPANY LIMITED  
EXXONMOBIL HOUSE  
ERMYN WAY  
LEATHERHEAD  
SURREY KT22 8UX

IN AN EMERGENCY PLEASE CONTACT:  
01372 223131

INTENDED USES:  
Motor gasoline fuel.

---

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients present at or above regulatory disclosure levels:

INGREDIENT	SYMBOL/R-PHRASE	CAS #	WT. %
<b>Ingredients contributing to a hazard classification:</b>			
Gasoline (containing more than 0.1 wt% benzene)	T, R 45 Xi, R 38 R 65 Xn, R 67 Up to 99.9%		

---

## 3. HAZARD IDENTIFICATION

This product is considered hazardous according to EU regulatory guidelines.  
(see Section 15).

**Hazards associated with this product:**

Extremely flammable

May cause cancer

Irritating to skin

Harmful: may cause lung damage if swallowed.

# Product Health & Safety data

ESSO PETROLEUM COMPANY LIMITED

Product: ESSO MOTOR GASOLINE

---

Vapours may cause drowsiness and dizziness

## Potential Environmental effects:

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Gasoline contains toxic components and additives at levels which, under normal conditions of use and good practice, are not considered to present a health hazard. However, being highly volatile, mis-use or poor handling procedures could result in exposure to very high concentrations of vapors which may cause effects ranging from irritation to the eyes, nose and throat to, in extreme cases, narcotic symptoms and even death. Prolonged and repeated exposures to high concentrations may present a risk of damage to the blood and nervous system. Recent evidence from limited animal studies indicated potential for kidney damage. However, this effect has been shown to be of no physiological concern to humans. Gasolines have a low to moderate oral toxicity, but do not present a hazard from this route during normal use. However, aspiration of even very small amounts into the lung, either directly or as a result of vomiting following ingestion, could cause severe lung damage and death. Gasolines are defatting agents and prolonged or repeated skin contact may result in dermatitis. Contact with eyes may cause irritation although there should be no permanent effects.

Handling precautions including good ventilation practice should be observed.

Note: This product should not be used for any other purpose without expert advice.

---

## 4. FIRST AID MEASURES

### INHALATION:

In emergency situations use proper respiratory protection to immediately remove the affected victim from exposure. Administer artificial respiration if breathing has stopped. Keep at rest. Call for prompt medical attention.

### SKIN CONTACT:

Immediately flush with large amounts of water; use soap if available. Remove contaminated clothing, including shoes, after flushing has begun.

If irritation occurs and persists, get medical attention.

### EYE CONTACT:

Rinse immediately with plenty of water until irritation subsides. If irritation persists, obtain medical advice.

# Product Health & Safety data

ESSO PETROLEUM COMPANY LIMITED

Product: ESSO MOTOR GASOLINE

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## INGESTION:

DO NOT induce vomiting since it is important that no amount of the material should enter the lungs (aspiration). Keep at rest. Get prompt medical attention.

---

## 5. FIRE-FIGHTING MEASURES

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**EXTINGUISHING MEDIA:** Foam, dry chemical powder, carbon dioxide.

### FIRE AND EXPLOSION HAZARDS:

Extremely flammable, high hazard. Liquid can release considerable vapour at temperatures below ambient which readily form flammable mixtures.

Vapours settle to ground level and may reach, via drains and other underground passages, ignition sources remote from the point of escape.

Static discharge; material can accumulate static charges which may cause an incendiary electrical discharge.

**FLASH POINT:**

< -40 deg. C

**METHOD:**

TAG-C ASTM D56

**FLAMMABILITY LIMITS IN AIR, % BY VOL:**

LEL: 1.00 UEL: 7.00 Approx.

**AUTOIGNITION TEMPERATURE:**

> 440 DEG. C

### SPECIAL FIRE-FIGHTING PROCEDURES:

Water fog or spray, to cool fire-exposed surfaces (e.g. containers) and to protect personnel, should only be used by personnel trained in fire fighting.

Cut off "fuel"; depending on circumstances, either allow the fire to burn out under controlled conditions or use foam or dry chemical powder to extinguish the fire.

Respiratory and eye protection required for fire fighting personnel exposed to fumes or smoke.

### HAZARDOUS COMBUSTION PRODUCTS:

Smoke, and carbon monoxide may be formed in the event of incomplete combustion.

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## 6. ACCIDENTAL RELEASE MEASURES

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**PERSONAL PRECAUTIONS:**

See Section 8.

# Product Health & Safety data

ESSO PETROLEUM COMPANY LIMITED

Product: ESSO MOTOR GASOLINE

---

## LAND SPILL:

Eliminate sources of ignition.

Warn occupants in downwind areas of fire and explosion hazard.

Shut off source taking normal safety precautions. Prevent liquid from entering sewers, water courses or low lying areas; advise the relevant authorities if it has, or if it contaminates soil/vegetation. Take measures to minimise the effects on ground water.

Recover by skimming or pumping using explosion-proof equipment, or contain spilled liquid with booms, sand, or other suitable absorbent and remove mechanically into containers. If necessary, dispose of adsorbed residues as directed in Section 13.

## WATER SPILL:

Eliminate sources of ignition. Advise occupants and shipping in downwind areas of fire and explosion hazard and warn them to stay clear. Notify port and other relevant authorities.

Do not confine in area of leakage.

---

## 7. HANDLING AND STORAGE

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### SPECIFIC USES:

Motor gasoline fuel.

**DO NOT STORE OR HANDLE NEAR TO HEAT, SPARKS, FLAMES OR OTHER IGNITION SOURCES OR STRONG OXIDANTS. NO SMOKING WHERE GASOLINE IS STORED OR HANDLED.**

Store and handle in suitable closed or properly ventilated containers. Where possible bulk handling of gasoline should be carried out in enclosed systems with vapour control to minimise health and fire risk. Check for, and prevent potential leaks from containers. If stored in an enclosed area, ensure sufficient ventilation to prevent vapour levels exceeding permitted exposure limits. Tanks which have held leaded gasoline may contain lead residues and require special cleaning precautions.

Product handling and transfer systems should be properly bonded and grounded to minimise the risk of generating sparks from static charge accumulation. Electrical equipment and fittings must comply with local fire prevention regulations for this class of product. Use the correct grounding procedure. Refer to national or local regulations covering safety at gasoline handling and storage areas for this product. Electrical and mechanical



# Product Health & Safety data

ESSO PETROLEUM COMPANY LIMITED

Product: ESSO MOTOR GASOLINE

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equipment used in the vicinity of bulk gasoline handling or storage should be certified intrinsically safe by an approved national testing agency, to the safety standards required by national or local regulations.

"EMPTY" DRUM WARNING: Empty drums may contain residual liquid or vapour and can be dangerous. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE CONTAINERS TO HEAT, FLAMES, SPARKS, STATIC ELECTRICITY OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly sealed, properly marked and labelled with appropriate handling advice and promptly returned to a drum reconditioner or sent for disposal. All other containers should be disposed of in an environmentally safe manner in accordance with local regulations. Do not use contaminated drums for subsequent storage of edible products.

LOAD/UNLOAD TEMPERATURE deg. C: Ambient to 40  
STORAGE TEMPERATURE deg. C: Ambient to 40

## SPECIAL PRECAUTIONS:

Keep containers closed when not in use.

Do not syphon by mouth suction.

---

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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### 8.1 OCCUPATIONAL EXPOSURE LIMIT:

ACGIH recommends a TWA of 0.5 ppm and a 15-minute STEL of 2.5 ppm (skin ) for benzene (Monitoring method; NIOSH 1500 or 1501)

ACGIH recommends a TWA of 50 ppm (skin ) for n-hexane (Monitoring method; NIOSH 1500)

ACGIH recommends a TWA of 200 ppm and a 15-minute STEL of 250 ppm (skin) for methanol (Monitoring method; NIOSH 2000)

### 8.2 PERSONAL PROTECTION:

In open systems where contact is likely, wear safety goggles, chemical-resistant overalls, and chemically impervious gloves.

Where only incidental contact is likely, wear safety goggles, long sleeves, and chemical-resistant gloves.

When concentrations in air may exceed the occupational exposure limit, and where engineering, work practices, or other means of exposure reduction are

# Product Health & Safety data

ESSO PETROLEUM COMPANY LIMITED

Product: ESSO MOTOR GASOLINE

---

not adequate, approved respirators may be required.

ENVIRONMENTAL CONTROLS: See section 7.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### GENERAL:

**APPEARANCE / ODOUR:** Clear pale straw coloured liquid, pungent petroleum odour (may be dyed various colours)

### IMPORTANT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION:

**DENSITY, g/ml:** 0.75 at 15 deg. C Typical

**BOILING RANGE:** 25.0 - 205.0 deg. C (approx.)

**VISCOSITY, mm<sup>2</sup>/S:** 1 at 20 deg. C Typical

**VAPOUR PRESSURE, kPa:** 60.0 at 20 deg. C Typical

**VAPOUR DENSITY AT 1 BAR (Air=1):** Heavier than air

**EVAPORATION RATE (n-butyl acetate=1):** Not known

**SOLUBILITY IN WATER:** 0.01 g/l at 20 deg. C (approx.)

**pH:** Not Applicable.

**FLASH POINT:** < -40 deg. C

**METHOD:** TAG-C ASTM D56

**FLAMMABILITY LIMITS IN AIR, % BY VOL:** LEL: 1.00 UEL: 7.00 Approx.

**AUTOIGNITION TEMPERATURE:** > 440 DEG. C

**PARTITION COEFFICIENT n-octanol/water:** Data not available.

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## 10. STABILITY AND REACTIVITY

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**STABILITY (THERMAL, LIGHT, ETC):** Stable

# Product Health & Safety data

ESSO PETROLEUM COMPANY LIMITED

Product: ESSO MOTOR GASOLINE

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## CONDITIONS TO AVOID:

Keep away from heat sources, open flames and other sources of ignition.

## INCOMPATIBLE MATERIALS:

Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, solid hypochlorites etc, as these present a serious explosion hazard.

## HAZARDOUS DECOMPOSITION PRODUCTS:

Product does not decompose at ambient temperatures.

Product does not decompose at ambient temperature.

---

## 11. TOXICOLOGICAL INFORMATION

### EFFECTS OF OVER EXPOSURE:

#### INHALATION:

In high concentrations and/or at elevated temperatures, vapour or mist is irritating to mucous membranes, may cause headaches and dizziness, may be anesthetic and may cause other central nervous system effects.

Causes suffocation (asphyxiant) if allowed to accumulate to concentrations that reduce oxygen below safe breathing levels.

Avoid breathing vapours, mists, or fumes.

#### SKIN CONTACT:

Low order of acute toxicity.

Irritating.

#### EYE CONTACT:

Slightly irritating, but does not injure eye tissue.

#### INGESTION:

Low order of acute/systemic toxicity.

Minute amounts aspirated into the lungs during ingestion or vomiting may cause severe pulmonary injury and death.

#### CHRONIC:

In a lifetime inhalation study, not performed in man, exposure to high levels of wholly vaporized gasoline (>2000 ppm) produced carcinogenic activity in the liver. The relevance of this study to humans has not been established.

# Product Health & Safety data

ESSO PETROLEUM COMPANY LIMITED

Product: ESSO MOTOR GASOLINE

---

Contains benzene. Human health studies (epidemiology) indicate that prolonged and/or repeated overexposures to benzene may cause damage to the blood producing system and serious blood disorders, including leukemia. Animal tests suggest that prolonged and/or repeated overexposures to benzene may damage the embryo/fetus. The relationship of these animal studies to humans has not been fully established.

Contains n-hexane. Prolonged and/or repeated exposures may cause damage to the peripheral nervous system (e.g. fingers, feet, arms etc.).

Prolonged and repeated exposures of male rats to inhalation of light hydrocarbon vapors in the same naphtha boiling range of this material produced kidney disorders and/or damage, including cancer. These effects were not observed in similar studies in female rats and male and female mice. A number of human studies have not shown clinical evidence of an association between light hydrocarbon exposure and disease. The U.S. EPA Risk Assessment Forum has concluded that the male rat kidney tumor results are not relevant for humans.

## TOXICITY DATA:

### ACUTE:

The acute toxicity evaluation for this product is based on testing results from similar atmospheric petroleum distillates.

### CHRONIC:

Based on what is known of this product and of materials of similar composition and refining history, this product would be expected to have carcinogenic potential.

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## 12. ECOLOGICAL INFORMATION

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The following information below reflects expected environmental fate and effects of this formulated product.

### ENVIRONMENTAL FATE AND EFFECTS:

#### ECOTOXICITY:

Expected to be toxic to aquatic organisms.

#### MOBILITY:

# Product Health & Safety data

ESSO PETROLEUM COMPANY LIMITED

Product: ESSO MOTOR GASOLINE

---

"Highly volatile, will partition rapidly to air."

## **PERSISTENCE AND DEGRADABILITY:**

Transformation due to hydrolysis not expected to be significant.

Transformation due to photolysis not expected to be significant.

Expected to degrade at a moderate rate in air

Expected to be inherently biodegradable.

## **BIOACCUMULATIVE POTENTIAL:**

Has the potential to bioaccumulate.

---

## **13. DISPOSAL CONSIDERATIONS**

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This product contains hazardous ingredients listed in Section 2. Collect and dispose of it at an authorised disposal facility, in conformance with national and local regulations, and in accordance with EEC Directives on hazardous waste.

EU WASTE DISPOSAL CODE: 13 07 02

(Note: these codes are assigned based upon the most common uses for this product and may not reflect contaminants resulting from actual use.

Purchasers may need to reassign waste disposal codes based on actual use.)

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## **14. TRANSPORT INFORMATION**

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### **USUAL SHIPPING CONTAINERS:**

Tankers, barges, rail cars, tank trucks, drums.

**TRANSPORT TEMPERATURE deg. C:** Ambient to 40

### **INTERNATIONAL TRANSPORT REGULATIONS**

UN no 1203

**Substance name / Proper Shipping Name**

Gasoline

### **LAND / INLAND WATERWAYS**

Regulated for transport by land under ADR/RID regulations and inland waterways under ADNR regulations:

# Product Health & Safety data

ESSO PETROLEUM COMPANY LIMITED

Product: ESSO MOTOR GASOLINE

---

Classification & class no./code	3 F1	Hazard Iden. no.	33
Hazard labels of class	3	Special Provision (640)	
Packing group	II		
UK Emergency action (HAZCHEM)	3YE		

## SEA

Regulated for transport by sea under IMO regulations:

IMDG class	3	Packing group	II
Marine pollutant	No		
EMS no	3-07		
Subsidiary risk / mark	none		

## AIR

Regulated for transport by air under IATA regulations:

IATA class	3	Subsidiary risk	none
Packing group	II		
		Packing instructions	Maximum quantity
Passenger aircraft	305		5 l
Cargo aircraft	307		60 l

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## 15. REGULATORY INFORMATION

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**HAZARD CLASSIFICATION:** Extremely flammable  
Carcinogenic cat. 2  
Dangerous for the environment

### LABEL:

**SYMBOL:** F+,T,N  
**INDICATION OF DANGER:** EXTREMELY FLAMMABLE, TOXIC, DANGEROUS FOR THE ENVIRONMENT

### RISK PHRASE:

R 12	Extremely flammable
R 45	May cause cancer
R 38	Irritating to skin
R 65	Harmful: may cause lung damage if swallowed.
R 67	Vapours may cause drowsiness and dizziness

# Product Health & Safety data

ESSO PETROLEUM COMPANY LIMITED

Product: ESSO MOTOR GASOLINE

---

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## SAFETY PHRASE:

S 2 Keep out of reach of children  
S 9 Keep container in a well ventilated place  
S 16 Keep away from sources of ignition - No Smoking  
S 29 Do not empty into drains  
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)  
S 53 Avoid exposure - obtain special instructions before use

## OTHER LABEL INFORMATION:

Contains:  
Gasoline (containing more than 0.1 wt% benzene)  
Ø

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## 16. OTHER INFORMATION

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### LIBRARY OF RISK PHRASES LISTED IN THIS DOCUMENT:

R 12 Extremely flammable  
R 38 Irritating to skin  
R 45 May cause cancer  
R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R 65 Harmful: may cause lung damage if swallowed.  
R 67 Vapours may cause drowsiness and dizziness

### SOURCE OF KEY DATA:

The recommendations presented in this Material Safety Data Sheet were compiled from actual test data (when available), comparison with similar products, component information from suppliers and from recognised codes of good practice.

The information and recommendations contained herein are, to the best of ExxonMobil's knowledge and belief, accurate and reliable as of the date issued, but are offered without guarantee or warranty. They relate to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Conditions of use of the material are under the control of the user; therefore, it is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

# Product Health & Safety data

ESSO PETROLEUM COMPANY LIMITED

Product: ESSO MOTOR GASOLINE

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END OF DATA

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## Masterfrost Industrial Applications

An inhibited mono propylene glycol based heat transfer and antifreeze medium offering distinct performance advantages over both uninhibited mono propylene glycol and conventional products based on mono ethylene glycol. It is particularly recommended for industrial heat transfer applications and for use in double skin tanks where the fluid between the two skins assists in the leak detection process.

Although water is the most widely used heat transfer fluid it cannot be used alone in applications involving temperatures below 0°C. Where such temperatures are encountered or necessary aqueous solutions of Masterfrost prove highly effective as a heat transfer media.

Besides providing low temperature freezing protection solutions of Masterfrost provide other highly desirable properties. Being propylene glycol based, Masterfrost offers outstanding health and safety benefits. In applications where contamination of foodstuffs, land and watercourses is a risk the low toxicity of Masterfrost makes it an obvious alternative solution.

The powerful corrosion inhibitor systems incorporated in the Masterfrost formulation ensure its suitability for use in plant and equipment constructed of cast iron, mild steel, stainless steel and other multi-metal component systems such as aluminium, copper and solder.

## Performance Benefits

- ◆ *Exceptionally low toxicity compared to conventional mono ethylene glycol based products*
- ◆ *Much lower operating temperatures attainable compared to pure water*
- ◆ *Excellent multi-metal compatibility offering extended component corrosion resistance*
- ◆ *Extremely stable and tolerant in hard water environments*
- ◆ *The mono propylene glycol base provides lubrication for automatic controls on cooling system equipment*

## Health and Safety

This product is Mono Propylene Glycol based and should be handled according to good standards of industrial hygiene. Further detailed information is available on request.

## Storage

Drums should be stored on their sides in a clean dry place and protected from extremes of temperature.

PW/02 July 2004/6



Certificate No. FM 1985

Colne Vale Road, Milnsbridge  
Huddersfield, HD3 4NT  
West Yorkshire, England

Head Office Tel: 01484 653015  
Head Office Fax: 01484 460078

U.K. Sales Orders Tel: 01484 461999

U.K. Fax Orders Fax: 01484 461998

Export Sales Orders Fax: (44) 1484 658884

Dereham Depot  
Tel: 01362 698728

Nuneaton Depot  
Tel: 02476 641800

.../contd

Directors

Dr D. Brett (Managing)

D.T. Burton Bullard

K. Glossop, M.G. Mould

Batoyle Ltd

Registered in England 242064

Freedom Lubricants Ltd

Registered in England 935764

.../2 contd

### Performance Specifications

BS6580  
ASTM D-5216  
NFR.15-601

### Typical Physical Characteristics

Specific Gravity @ 20°C 1.050  
Boiling Point °C 155 min.  
Freezing Point °C -60  
Flash Point (C.O.C.)°C 103 min.  
Solubility in water Completely Soluble

### Freezing Protection

Masterfrost Concentration %	Freezing Point °C	Specific Gravity @ 20 °C
10	-3	1.007
20	-7	1.015
30	-13	1.024
40	-20	1.033
50	-32	1.039
60	-53	1.043

In choosing the appropriate dilution care should be taken to consider both freezing protection and the anti-corrosion requirements.

*The information given is correct to the best of our knowledge. It is offered in good faith but without guarantee as the conditions and method of use of our products are beyond our control.*

**1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY**

**Product Name:** MASTERFROST  
**Application:** Automotive & Industrial System Coolant  
**Manufacturer:** BATOYLE FREEDOM GROUP  
Colne Vale Road  
Milnsbridge  
Huddersfield  
England  
HD3 4NT  
**Emergency Telephone:** 01484 653015

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

**Hazardous Ingredients:** This material is not considered hazardous as defined by E.C. legislation.

**3. HAZARDS IDENTIFICATION**

This product is not considered hazardous, but should be handled in accordance with good standards of industrial hygiene and safety practices.

**4. FIRST AID MEASURES**

**Eyes:** Flush eyes with water, lifting eyelids for at least 15 minutes. If irritation persists obtain medical attention.  
**Skin:** Remove contaminated clothing. Wash affected area with copious amounts of soap and water. If irritation persists obtain medical attention.  
**Ingestion:** Rinse mouth out with water and give water to drink. DO NOT INDUCE VOMITING. Obtain immediate medical attention.  
**Inhalation:** Remove to fresh air. Keep warm and at rest. Obtain medical attention if ill effects occur.

**5. FIRE FIGHTING MEASURES**

**Extinguishing Media:** Alcohol resistant foam, Dry chemical, Carbon Dioxide and Water fog (to cool containers)  
**DO NOT USE WATER JETS**  
**Products of Combustion:** Hazardous fumes may be evolved on burning or exposure to heat; this will include oxides of carbon.  
**Protective Equipment:** Fire in confined spaces should be dealt with by trained personnel wearing approved breathing apparatus.

**6. ACCIDENTAL RELEASE MEASURES**

- Personal Precautions:** Wear appropriate protective clothing. Stop leaks if without risk. Avoid contact with all sources of ignition. Presents a significant slip hazard
- Environmental Precautions:** Prevent entry into drains, sewers and watercourses.
- Decontamination Procedure:** Contain and recover using absorbent inert material and dispose of in accordance with local byelaws and the Environmental Protection Act 1990. In case of large spills contact the appropriate authorities immediately.

**7. HANDLING AND STORAGE**

- Handling Precautions:** Wear appropriate protective clothing. Avoid contact with all sources of ignition. Do not use in confined spaces without adequate ventilation and/or respirator. Avoid inhalation of vapours.
- Storage Conditions:** Store in tightly closed original container in a cool, dry, well-ventilated place. Store away from sources of ignition and strong oxidising agents.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Eyes:** Wear chemical safety goggles.
- Skin:** Wear chemical resistant gloves and protective overalls and boots.
- Inhalation:** Ensure adequate ventilation or local exhaust measures.
- Exposure Limits:** LTEL (8 Hr TWA) 1,2 Propandiol = 474 mg/m<sup>3</sup>

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State	Liquid
Specific Gravity @ 15°C	1.050
Kinematic Viscosity @ 40°C	-
Flash Point (PMCC) °C	103
Boiling Point Range °C	155-190
Auto-ignition Temperature °C	371
Flammability Limit %	Lower 2.4 Upper 17.4
Solubility in Water	Completely Soluble

**10. STABILITY AND REACTIVITY**

**Stability:** Stable under normal conditions of use.

**Incompatibility:** Moisture and all sources of ignition.

**Decomposition:** Thermal decomposition can lead to the formation of a variety of compounds, the precise nature of which will depend on the prevailing conditions. Combustion will generate smoke and hazardous gases including oxides of carbon.

**11. TOXICOLOGICAL INFORMATION**

**Ingestion:** Low order of acute oral toxicity. May cause irritation to digestive tract.

Acute Oral Toxicity LD50 (oral, rat) = 23,000 mg/kg

**Eyes:** May cause eye irritation.

**Skin:** May cause skin irritation.

**Inhalation:** Unlikely to be hazardous under normal conditions of use. Inhalation of mists may cause irritation to upper respiratory tract and lungs.

**12. ECOLOGICAL INFORMATION**

**Mobility:** Spillages may penetrate the soil causing ground contamination and eventually water contamination.

**Persistence and Degradability:** Readily Biodegradable.

**Bioaccumulative Effect:** Not expected.

**Aquatic Toxicity:** Completely soluble in aqueous systems.

LC50, 96 Hrs, Fish	=	23,800
EC50, 48 Hrs, Daphnia	=	>43,500
IC50, 72 Hrs, Algae	=	>19,000

**13. DISPOSAL CONSIDERATIONS**

Place used and contaminated materials in suitable containers. Dispose of the waste in compliance with the "Duty of Care" and Environmental Protection Act 1990 regulations. Always dispose of using a licensed waste disposal contractor. This material and its container must be disposed of as a controlled waste.

**14. TRANSPORT INFORMATION**

**Hazard Information:** Not classified as hazardous for transportation.

**15. REGULATORY INFORMATION**

**Hazard Label Data:** No label required.

**Risk and Safety Phrases:** None

**E.C. Directives:** Dangerous Preparations Directive 2001/60/EC  
91/156/EEC Framework Waste Directive  
87/101/EEC Waste Oil Directive

**Statutory Information:** Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 (CHIP 3)  
EH40/2002 Occupational Exposure Limits  
Health and Safety at Work Act 1974  
Consumer Protection Act 1987  
Control of Substances Hazardous to Health 1988  
Environmental Protection Act 1990

**16. OTHER INFORMATION**

**The Company:** The information given applies when these products are sold for their stated applications and no others. Use of these products for applications other than those stated may give rise to risks not already covered in this document. Before using for applications other than directed seek advice from the company.

**Third Party:** If you have purchased this product for supply to a third party for use in the workplace, it is your duty to take all the necessary steps to ensure that any person handling this product is provided with the appropriate health and safety information.

**The Employer:** If you are an employer, it is your duty to warn your employees and others who may be affected of the hazards, if any, that are associated with the use of this product and any precautions that should be taken.

**Approved Codes of Practice:** Waste Management.  
The Duty of Care.



## *Priory - Supplementary Information*

### **SECTION A: CONTAMINATED SOILS / WATER & GENERAL WASTE**

During the course of this project 131.74 t (Approx.) of contaminated water were removed from site and sent to licensed disposal facility (*see Appendix 1*).

During the course of this project a total number of 19 loads of rubbles arising from tanks farm slabs, tank cradles, tank bases, interceptor removal etc were removed and disposed to a local disposal facility. ( St. Margaret's Recycling – Waste Permit No: 112)

All under and above ground tanks (6 numbers) along with offset fill points, all fill lines, suction lines and vent lines were disposed to a local disposal facility (See Appendix 2).

During the course of this project 391.16 tones of contaminated soil were removed as directed by EC and disposed of to disposal facility (See Attached Appendix 3 – Contaminated soil Disposal certificate). It must be noted that MSI Ltd have no responsibility whatsoever for determining the Location, extent or volume of contaminated material to be removed or for verifying that it has been removed.

### **SECTION B: Esso 30 Days Book**

Additional safety information is contained within *Appendix 4 – 30 days Book*

### **SECTION C: PETROLEUM OFFICER**

Local fire officer been informed prior to commencement of decommissioning works and also gas free and decommissioning certificates for the under ground tanks were issued to same after completion of the works.

<b>Petroleum Officer</b>	<b>Name:</b>	<b>Mr. Colm Traynor</b>
		<b>Dublin Fire Brigade HQ</b>
	<b>Fax:</b>	<b>01 6734077</b>
	<b>Tel:</b>	<b>01 6734000</b>

### **SECTION D: APPENDICES**

*Appendix 1 Contaminated water disposal Certificates.*

*Appendix 2 Tank/Steel Disposal facility waste permit*

*Appendix 3 Contaminated soil Disposal Certificates.*

*Appendix 4 30-days Book*

**RILTA ENVIRONMENTAL Ltd.**  
**CERTIFICATE OF**  
**AUTHORISED DISPOSAL**



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Job No:	1-30420	Operatives:	BB/GL
Customer Name:	MSI Limited	Date:	February 08, 2008
Address:	Unit 107, Baldoyle Ind Estate, Baldoyle		
Job Site:	Priority Service Station, Nutgrove Avenue, Baldoyle		
Customer Order No.:		Vehicle:	Euro
C1 #:	TFS #:	EWC Codes: 161001	

---

**Details of Waste:**

Disposal of 12.4 tonne of unerting water 08.02.08

---

We certify that the above described waste has been received, treated, stored and disposed of at our treatment facility in accordance with:

1. Our Waste permit and/or
2. Our Trade Effluent Discharge License and/or
3. The provisions of European Communities (Waste Oils) Regulations 1992
4. The current requirements of the Waste Management Act 1996
5. The terms of our EPA WASTE LICENSE NO. 192-1

SIGNED: 

Authorised Signatory  
RILTA Environmental Ltd.



**RILTA ENVIRONMENTAL Ltd.**  
**CERTIFICATE OF**  
**AUTHORISED DISPOSAL**



---

Job No:	1-30420	Operatives:	BB/GL
Customer Name:	MSI Limited	Date:	February 08, 2008
Address:	Unit 107, Baldoyle Ind Estate, Baldoyle		
Job Site:	Priority Service Station, Nutgrove Avenue, Baldoyle		
Customer Order No.:		Vehicle:	Euro
C1 #:	TFS #:	EWC Codes: 161001	

---

**Details of Waste:**

Disposal of 13.32 tonne of unerting water 08.02.08

---

We certify that the above described waste has been received, treated, stored and disposed of at our treatment facility in accordance with:

1. Our Waste permit and/or
2. Our Trade Effluent Discharge License and/or
3. The provisions of European Communities (Waste Oils) Regulations 1992
4. The current requirements of the Waste Management Act 1996
5. The terms of our EPA WASTE LICENSE NO. 192-1

SIGNED: 

Authorised Signatory  
RILTA Environmental Ltd.

**RILTA ENVIRONMENTAL Ltd.**  
**CERTIFICATE OF**  
**AUTHORISED DISPOSAL**



---

Job No:	1-30420	Operatives:	BB/GL
Customer Name:	MSI Limited	Date:	February 08, 2008
Address:	Unit 107, Baldoyle Ind Estate, Baldoyle		
Job Site:	Priority Service Station, Nutgrove Avenue, Baldoyle		
Customer Order No.:		Vehicle:	Euro
C1 #:	TFS #:	EWC Codes: 161001	

---

**Details of Waste:**


Disposal of 13.52 tonne of unerting water 08.02.08

---

We certify that the above described waste has been received, treated, stored and disposed of at our treatment facility in accordance with:

1. Our Waste permit and/or
2. Our Trade Effluent Discharge License and/or
3. The provisions of European Communities (Waste Oils) Regulations 1992
4. The current requirements of the Waste Management Act 1996
5. The terms of our EPA WASTE LICENSE NO. 192-1

SIGNED

  
Authorised Signatory  
RILTA Environmental Ltd.

**RILTA ENVIRONMENTAL Ltd.**  
**CERTIFICATE OF**  
**AUTHORISED DISPOSAL**

---

Job No:	1-30420	Operatives:	FN
Customer Name:	MSI Limited	Date:	February 08, 2008
Address:	Unit 107, Baldoyle Ind Estate, Baldoyle		
Job Site:	Priority Service Station, Nutgrove Avenue, Baldoyle		
Customer Order No.:		Vehicle:	New Megga
C1 #:	TFS #:	EWC Codes: 161001	

---

**Details of Waste:**

Disposal of 9.2 tonne of unerting water 08.02.08

---

We certify that the above described waste has been received, treated, stored and disposed of at our treatment facility in accordance with:

1. Our Waste permit and/or
2. Our Trade Effluent Discharge License and/or
3. The provisions of European Communities (Waste Oils) Regulations 1992
4. The current requirements of the Waste Management Act 1996
5. The terms of our EPA WASTE LICENSE NO. 192-1

SIGNED:

Authorised Signatory  
RILTA Environmental Ltd.

**RILTA ENVIRONMENTAL Ltd.**  
**CERTIFICATE OF**  
**AUTHORISED DISPOSAL**



---

Job No:	1-30420	Operatives:	FN
Customer Name:	MSI Limited	Date:	February 08, 2008
Address:	Unit 107, Baldoyle Ind Estate, Baldoyle		
Job Site:	Priority Service Station, Nutgrove Avenue, Baldoyle		
Customer Order No.:		Vehicle:	New Megga
C1 #:	TFS #:	EWC Codes: 161001	

---

**Details of Waste:**


Disposal of 9.6 tonne of unerting water 08.02.08

---

We certify that the above described waste has been received, treated, stored and disposed of at our treatment facility in accordance with:

1. Our Waste permit and/or
2. Our Trade Effluent Discharge License and/or
3. The provisions of European Communities (Waste Oils) Regulations 1992
4. The current requirements of the Waste Management Act 1996
5. The terms of our EPA WASTE LICENSE NO. 192-1

SIGNED:

  
Authorised Signatory  
RILTA Environmental Ltd.

**RILTA ENVIRONMENTAL Ltd.**  
**CERTIFICATE OF**  
**AUTHORISED DISPOSAL**



---

Job No:	1-30420	Operatives:	FN
Customer Name:	MSI Limited	Date:	February 08, 2008
Address:	Unit 107, Baldoyle Ind Estate, Baldoyle		
Job Site:	Priority Service Station, Nutgrove Avenue, Baldoyle		
Customer Order No.:		Vehicle:	New Megga
C1 #:	TFS #:	EWC Codes: 161001	

---

**Details of Waste:**

Disposal of 1.4 tonne of unerting water 08.02.08

---

We certify that the above described waste has been received, treated, stored and disposed of at our treatment facility in accordance with:

1. Our Waste permit and/or
2. Our Trade Effluent Discharge License and/or
3. The provisions of European Communities (Waste Oils) Regulations 1992
4. The current requirements of the Waste Management Act 1996
5. The terms of our EPA WASTE LICENSE NO. 192-1

SIGNED: 

Authorised Signatory  
RILTA Environmental Ltd.

**RILTA ENVIRONMENTAL Ltd.**  
**CERTIFICATE OF**  
**AUTHORISED DISPOSAL**



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Job No:	1-30420	Operatives:	FN/DB
Customer Name:	MSI Limited	Date:	February 07, 2008
Address:	Unit 107, Baldoyle Ind Estate, Baldoyle		
Job Site:	Priority Service Station, Nutgrove Avenue, Baldoyle		
Customer Order No.:		Vehicle:	New Megga
C1 #:	TFS #:	EWC Codes: 161001	

---

**Details of Waste:**


Disposal of 9.32 tonne of unerting water 07.02.08

---

We certify that the above described waste has been received, treated, stored and disposed of at our treatment facility in accordance with:

1. Our Waste permit and/or
2. Our Trade Effluent Discharge License and/or
3. The provisions of European Communities (Waste Oils) Regulations 1992
4. The current requirements of the Waste Management Act 1996
5. The terms of our EPA WASTE LICENSE NO. 192-1

SIGNED:

  
Authorised Signatory  
RILTA Environmental Ltd.

**RILTA ENVIRONMENTAL Ltd.**  
**CERTIFICATE OF**  
**AUTHORISED DISPOSAL**



---

Job No:	1-30420	Operatives:	FN/DB
Customer Name:	MSI Limited	Date:	February 07, 2008
Address:	Unit 107, Baldoyle Ind Estate, Baldoyle		
Job Site:	Priority Service Station, Nutgrove Avenue, Baldoyle		
Customer Order No.:		Vehicle:	New Megga
C1 #:	TFS #:	EWC Codes: 161001	

---

**Details of Waste:**

Disposal of 9.46 tonne of unerting water 07.02.08

---

We certify that the above described waste has been received, treated, stored and disposed of at our treatment facility in accordance with:

1. Our Waste permit and/or
2. Our Trade Effluent Discharge License and/or
3. The provisions of European Communities (Waste Oils) Regulations 1992
4. The current requirements of the Waste Management Act 1996
5. The terms of our EPA WASTE LICENSE NO. 192-1

SIGNED:

Authorised Signatory  
RILTA Environmental Ltd.

**RILTA ENVIRONMENTAL Ltd.**  
**CERTIFICATE OF**  
**AUTHORISED DISPOSAL**



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Job No:	1-30420	Operatives:	South Coast Tran
Customer Name:	MSI Limited	Date:	February 07, 2008
Address:	Unit 107, Baldoyle Ind Estate, Baldoyle		
Job Site:	Priority Service Station, Nutgrove Avenue, Baldoyle		
Customer Order No.:		Vehicle:	04C23510
C1 #:	TFS #:	EWC Codes: 161001	

---

**Details of Waste:**

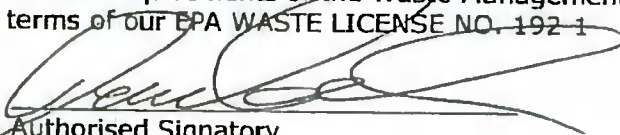
Disposal of 22.88 tonne of unerting water from ISO tanker 07.02.08

---

We certify that the above described waste has been received, treated, stored and disposed of at our treatment facility in accordance with:

1. Our Waste permit and/or
2. Our Trade Effluent Discharge License and/or
3. The provisions of European Communities (Waste Oils) Regulations 1992
4. The current requirements of the Waste Management Act 1996
5. The terms of our EPA WASTE LICENSE NO. 192-1

SIGNED:

  
Authorised Signatory  
RILTA Environmental Ltd.



**RILTA ENVIRONMENTAL Ltd.**  
**CERTIFICATE OF**  
**AUTHORISED DISPOSAL**



---

Job No:	1-30420	Operatives:	South Coast Tran
Customer Name:	MSI Limited	Date:	February 07, 2008
Address:	Unit 107, Baldoyle Ind Estate, Baldoyle		
Job Site:	Priority Service Station, Nutgrove Avenue, Baldoyle		
Customer Order No.:		Vehicle:	04C23510
C1 #:	TFS #:	EWC Codes: 161001	

---

**Details of Waste:**

Disposal of 21.24 tonne of unerting water from ISO tanker 07.02.08

---

We certify that the above described waste has been received, treated, stored and disposed of at our treatment facility in accordance with:

1. Our Waste permit and/or
2. Our Trade Effluent Discharge License and/or
3. The provisions of European Communities (Waste Oils) Regulations 1992
4. The current requirements of the Waste Management Act 1996
5. The terms of our EPA WASTE LICENSE NO. 192-1

SIGNED: 

Authorised Signatory  
RILTA Environmental Ltd.

**RILTA ENVIRONMENTAL Ltd.**  
**CERTIFICATE OF**  
**AUTHORISED DISPOSAL**



Job No:	1-30859	Operatives:	BB/GL
Customer Name:	MSI Limited	Date:	February 21, 2008
Address:	Unit 107, Baldoyle Ind Estate, Baldoyle		
Job Site:	Esso Priory Service Station, Nutgrove avenue,		
Customer Order No.:	19422	Vehicle:	Euro
C1 #:	TFS #:	EWC Codes: 130503	

**Details of Waste:**

Disposal of 9.4 tonne of Interceptor waste 21.02.08

We certify that the above described waste has been received, treated, stored and disposed of at our treatment facility in accordance with:

1. Our Waste permit and/or
2. Our Trade Effluent Discharge License and/or
3. The provisions of European Communities (Waste Oils) Regulations 1992
4. The current requirements of the Waste Management Act 1996
5. The terms of our EPA WASTE LICENSE NO. 192-1

SIGNED:

  
Authorised Signatory  
RILTA Environmental Ltd.



# M. S. M. Recycling Co. Ltd.

HARBOUR STREET, MOUNTMELICK, CO. LAOIS

Phone/Fax: Office Hours (0502) 24160

Mobile 086 - 2556858

email: msmrecycling@eircom.net

www. msmrecycling.com

## Recycling Certificate

This is to certify that the following amount of

Glass

Metal

Was delivered by

M.S.I. Ltd

to our premises for recycling, in the month of

February'08

Tanks

:

6

(Ex Priory, Rathfarnham, Dublin)

Tracey Bergin

For and on behalf of

M.S.M. Recycling Ltd.



A DIVISION OF MURPHY CONCRETE MANUFACTURING LTD.

Hollywood • Naul • Co. Dublin

T: 01-8433 744 • F: 01-8433 747 • W: [www.murphyenvironmental.ie](http://www.murphyenvironmental.ie)

**For the Attention of**

Gabriel

MSI Limited

Unit 107, Baldoyle Industrial Estate

Dublin 13

Our Ref.: W0129-01/KM/180408

Direct Dial: 01 84 33 744

Direct Fax: 01 84 33 747

Date: 18<sup>th</sup> April 2008

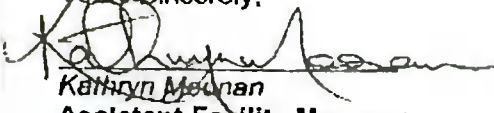
<b>Waste Licence:</b>	W0129-01 Hollywood
<b>Re.:</b>	Certificate of Disposal

Dear Gabriel,

Please be advised that Murphy Environmental Hollywood, EPA Waste Licence No. W0129-01 accepted 391.16 tonnes of Soil & Stones, EWC Code 170504 (21 loads) from the Priority Service Station, Nutgrove Road, Rathfarnham between the 19<sup>th</sup> February 2008 and the 22<sup>nd</sup> February 2008.

We look forward to doing business with you in the future. Should you have any queries on this or any other matters, please do not hesitate to contact me.

Yours Sincerely,

  
 Kathryn Moonan  
 Assistant Facility Manager  
 Murphy Environmental  
 Nags Head,  
 Hollywood,  
 Naul,  
 Co. Dublin

Tel: 01-8433744 Fax: 01-8433747  
 e-mail: [kathryn.moonan@murphyenvironmental.ie](mailto:kathryn.moonan@murphyenvironmental.ie)  
 Website: [www.murphyenvironmental.ie](http://www.murphyenvironmental.ie)





## THE SITE DAILY SAFETY RECORD

Priority Service Station

### Contacts and telephone numbers in the event of a reportable incident

Out of hours: the Esso switchboard will be answered by security who will make contact with the duty engineer.

Never leave an important message on an answer phone, make contact with the following.

	Contact Name. Must be entered.	Fixed. Must be entered.	Mobile. Must be entered.
Principal Contractor	Brian McGonagle	01-8391000	087-2561869
ABB Planning Supervisor	Steve Andrew	01642 833787	07740 638740
Esso Project Manager	Peter Fooks	0121 7091117	07802 180658
Esso Maintenance	ABB M&R	01355 241800	-
Esso Out of Hours	Esso Security	01372 223232	-

Major works Red book 90 days

Tanks/SRBs Orange book 30 days

Minor works Yellow book 12 days

## ESSO MANAGER AUDITS

- Perimeter fences unstable with inadequate signage, including to site office.
- Site entrances left open too long.
- Inductions need to be undertaken thoroughly.
- Little done to raise safety awareness – poor use of safety posters.  
Site supervisor responsible for safety!
- Supervisors struggling with Red Book / Tool Box talks – training?
- Poor understanding (and recording) of Near Misses.
- Incidents not fully reported – First Aid.
- Site Supervisors (including Stand-ins) need to be fully trained in H&S requirements.
- Excavations/manholes poorly protected.
- Site supervisors must take firm line with all sub-contractors.
- PPE – Site Supervisors must ensure it is used appropriate.
- General housekeeping needs improving.
- Work Place Management needs to be adopted.







**ESSO**  
**DAILY SITE SAFETY RECORD**

Date: 14-1-08

Tool Box Talk

Held By: Steve Kichey

Topics Covered:

<u>Site Safety</u>
<u>START WORK DISCUSSION Site mobilisation SSA T03</u>
<u>All Personnel to Comply LMR</u>

All personnel attending Toolbox Talk (including sub-contractors):

<u>PETER SYLON</u>	<u>MSI</u>	<u>Sylon</u>

Hazard Spotting, Unsafe Acts, Near Misses (from previous day):

<u>vehical movement.</u>
<u>vehicals entering &amp; leaving Site</u>
<u>Cycle track on Footpath along front of Site</u>
<u>children attending local School passing Site entrance</u>

Notes and Action Points:

<u>Spotter to assist with vehical movement extra care to</u>
<u>be taken while vehicals entering or leaving Site.</u>
<u>Main Gates to be kept closed &amp; locked at all</u>
<u>times.</u>
<u>Be aware of public footpath while vehicals entering or</u>
<u>leaving Site.</u>

Reviewed by:  
Safety Consultant

Signed:

Date:

Contractor Management/Safety Officer

Esso Engineer

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**ESSO**  
**DAILY SITE SAFETY RECORD**

Date: 14-1-08

Tool Box Talk  
Topics Covered:

Held By: Steve Hickey  
Site Supervisor Daily routine JSA TO1

SITE SAFETY	clearance
START WORK DISCUSSION: (vegetation work - works)	JSA 50
Carryout LMRA	Hand Dig to Buried Services
	JSA T106

**All personnel attending Toolbox Talk (including sub-contractors):**

Steve Hickey	MSI	Salmon
Mark Riddell		

**Hazard Spotting, Unsafe Acts, Near Misses (from previous day):**

Vehicle movement on site, JCB excavator
Buried Services
Trip or Falls
waste materials at Fourcourt area, Drums/Bags Soil.
NTK Cable overhead

**Notes and Action Points:**

Spotter to assist with movement of site vehicles
Area to be cleared of vegetation only, no surface to be excavated. Car and Benny to be used while works being carried out.
Goals post system to be put in place.

Reviewed by:  
Safety Consultant

Signed:  
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Date:  
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Contractor Management/Safety Officer

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Esso Engineer

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**ESSO**  
**DAILY SITE SAFETY RECORD**

Date: 17-1-08

Tool Box Talk  
Topics Covered:

Held By: Steve Hickey

<u>Buried Services</u>		
<u>To Site Supervisor Daily routine</u>		<u>SSA TO1</u>
<u>START WORK Discussion</u>	<u>(1) Mobilisation to site</u>	<u>SSA TO3</u>
<u>(2) Installation of Horns fencing</u>		<u>SSA TO4</u>
<u>(3) Vegetation clearance works</u>		<u>SSA 50</u>

All personnel attending Toolbox Talk (including sub-contractors):

<u>PETER SALON</u>	<u>MSI</u>	<u>Salon</u>
<u>MAK M Kema.</u>	<u>Mc Kema.</u>	<u>MAK M Kema.</u>

Hazard Spotting, Unsafe Acts, Near Misses (from previous day):

<u>(1) vehicular movement on site.</u>
<u>(2) NTL overhead cable</u>
<u>(3) waste material in fourcourt, = Trip or fall hazard.</u>
<u>4 vermin</u>

Notes and Action Points:

<u>Personnel to carry out LMR19</u>
<u>(1) Spotter to assist with vehicular movement</u>
<u>(2) Be Goal post System in place at NTL Cable</u>
<u>Personnel to be aware of all procedures and Drills.</u>
<u>(3) waste material at fourcourt cordoned off this material to be removed to safe area.</u>

Reviewed by:  
Safety Consultant

Signed:  
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Date:  
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Contractor Management/Safety Officer

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Esso Engineer

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**ESSO**  
**DAILY SITE SAFETY RECORD**

Date: 21-1-08

Tool Box Talk  
Topics Covered:

Held By: Steve Hickey

Tool Box	MEWP		
START WORK DISCUSSION			
① Site Supervisor daily routine		JSA	T01
② Mobilisation to Site		JSA	T03
③ Erection of Hoops fencing		JSA	T04
④ Removal of Canopy Sheeting		JSA	C+B 04

Carry out LMPRA.

All personnel attending Toolbox Talk (including sub-contractors):

<u>LOUIS CARTON</u>		
<u>PETER SALON</u>		

Hazard Spotting, Unsafe Acts, Near Misses (from previous day):

<u>vehical movemet</u>
<u>weather conditions</u>

Notes and Action Points:

<u>Site personnel to assist with vehical movemet =</u>
<u>equipment to Site, deliveries ect</u>
<u>Extra care while vehicals entering or exiting Site</u>
<u>due to Cycle track + Bus lane.</u>

Reviewed by:  
Safety Consultant

Signed: .....

Date: .....

Contractor Management/Safety Officer .....

Esso Engineer .....



**ESSO  
DAILY SITE SAFETY RECORD**

Date: 22-1-08

**Tool Box Talk  
Topics Covered:**

Held By: Steve Heaney

TOOL BOX WORK AT HEIGHT	
START WORK DISCUSSION	
① Site Supervisor daily routine	JSA T01
② Installation of Horns Perera	JSA T04
③ Removal of Canopy Sheeting	JSA CH3 04
④ Inerting of Tanks	JSA T07

**All personnel attending Toolbox Talk (including sub-contractors):**

PETER SALON		
Conor Costello		

**Hazard Spotting, Unsafe Acts, Near Misses (from previous day):**

vehical movement

**Notes and Action Points:**

Tankers Delivery water to Site 2 no Spotters to assist with vehical movement extra Care while entering and exiting Site.
All Site personnel to Carry out C/MIRA prior to any tasks.

Reviewed by:  
Safety Consultant

Signed: .....

Date: .....

Contractor Management/Safety Officer

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Esso Engineer

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**ESSO**  
**DAILY SITE SAFETY RECORD**

Date: 23-1-08

Tool Box Talk  
Topics Covered:

Held By: Steve Huey

<u>START WORK Discussion</u>		
<u>(1) Site Supervisor Daily routine</u>	<u>SSA TOI</u>	
<u>(2) Removal of Canopy Sheeting</u>	<u>SSA C&amp;BO4</u>	
<u>(3) Strip out loose fixtures ect ship</u>	<u>SSA C+BO1</u>	

All personnel attending Toolbox Talk (including sub-contractors):

<u>C. BYROE.</u>		
<u>T. CARTON</u>		
<u>P. SALON</u>		

Hazard Spotting, Unsafe Acts, Near Misses (from previous day):

<u>(1) Loose Screws on Ground from Canopy Sheeting</u>
<u>(2) weather conditions</u>

Notes and Action Points:

<u>(1) Sweep up screws could cause punture to MEWP Tyers</u>
<u>(2) High winds Stop work.</u>

Reviewed by:  
Safety Consultant

Signed: .....

Date: .....

Contractor Management/Safety Officer

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Esso Engineer

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**ESSO**  
**DAILY SITE SAFETY RECORD**

Date: 24-1-08

Tool Box Talk  
Topics Covered:

Held By: Steve Hickey

Tool Box	Buried Services
① Site Supervisor Daily routine	JSA T01
② Removal of Canopy Sheeting	JSA C+B04
③ Strip out loose fixtures & Slop	JSA C+B01
④ Trench pits	JSA T15
⑤ Installation of Hoops fencing	JSA T04

All personnel attending Toolbox Talk (including sub-contractors):

<u>W. Walsh</u>	<u>A. Bickel</u>	
<u>P. SALON</u>		
<u>L. CARTON</u>		
<u>P. Gibbons</u>		
<u>MARK Mc Eneaney</u>		

Hazard Spotting, Unsafe Acts, Near Misses (from previous day):

① weather conditions
② vehical movement
③ Broken Glass from notice board in Shop area.

Notes and Action Points:

① High winds & rain. Works Stopped on Canopy 1600 23-1-08
② Assist with vehical movement on Site.
All personnel to Carry out CMRIA

Reviewed by:  
Safety Consultant

Signed:

Date:

Contractor Management/Safety Officer

Esso Engineer



**ESSO**  
**DAILY SITE SAFETY RECORD**

Date: 25-1-08

Tool Box Talk  
Topics Covered:

Held By: Steve Hickey

TB Excavations / Excavators	
START WORK DISCUSSIONS	
(1) Site Supervisor daily routine	SSA TO1
(2) Removal of canopy gutters + beams	SSA C+B 03/SSACAB10
(3) Trial pits	SSA T15 / SSIT04
(4) Stripout Shop fittings	SSA C+B 01

All personnel attending Toolbox Talk (including sub-contractors):

<u>P. Gibson</u>	<u>D. [Signature]</u>	
<u>R. [Signature]</u>	<u>P. [Signature]</u>	
<u>M. [Signature]</u>	<u>[Signature]</u>	
<u>C. [Signature]</u>		

Hazard Spotting, Unsafe Acts, Near Misses (from previous day):

(1) vehical movement on site.
(2) weather conditions.
(3) excavator on site.
(4) Excavations.
(5) Buried Services.
(6) Trees on site. (Excavator knocked branch of tree to ground.)

Notes and Action Points:

(1) 2 no Spotters to assist with vehical movement on site.
(2) works continue under permiting
(3) Keep out of swing area of track machine
(4) Fence off all excavations, no trial pit to be left unattended back fill pits as soon as EC has taken samples.

Reviewed by:  
Safety Consultant

Signed:

Date:

Contractor Management/Safety Officer

[Signature]

30/1/08

Esso Engineer

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**ESSO  
DAILY SITE SAFETY RECORD**

Date: 28-1-08

**Tool Box Talk  
Topics Covered:**

Held By: Steve Lichey

TB (1) work at height	(2) Tool Box
START WORK Discussion	
(1) Site Supervisor daily routine	JSA TO1
(2) Removal of Canopy Gullies + Beams	JSA C+B03 JSA C+B 10
(3) Trail pits. Installation of Floor fixing	JSA C+B01 JSA TO4

All personnel attending Toolbox Talk (including sub-contractors): ((LMRA.))

<u>WJ Dwyer</u>		
<u>Mr J M Linn</u>		
<u>Paddy Gilmore</u>		
<u>Conor Easton</u>		
<u>Paul Hume</u>		

**Hazard Spotting, Unsafe Acts, Near Misses (from previous day):**

(1) vehical movement on Site Excavator, Hi-hub.
(2) Canopy removal. Take down in reverse order in Small Section.
(3) working from MEWP. Lanyard must be attached at all times.

**Notes and Action Points:**

(1) Banksman to assist with all vehical movement on Site.
(2) Banksman to assure nobody enters Swing area of Excavator
(3) Gates to be kept locked at all times.

Reviewed by:  
Safety Consultant

Signed:

Date:

Contractor Management/Safety Officer

[Signature]

30/1/08

Esso Engineer

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**ESSO  
DAILY SITE SAFETY RECORD**

Date: 20.1.108

**Tool Box Talk  
Topics Covered:**

Held By: CLAVIN BYRDE

Sitesupervisors DAILY routine zone SSA 01.
Repair to brick surface water. Drain SSA T30.
meop - removal of car wash wall & beams. SSA C+B 10
LMEA CARRIED out doc.

**All personnel attending Toolbox Talk (including sub-contractors):**

<u>P. Higgins</u>		
<u>A. McEwen</u>		
<u>P. Gibbons</u>		
<u>O. O'Dell</u>		

**Hazard Spotting, Unsafe Acts, Near Misses (from previous day):**

1) Took down canopy structures.
2) stripped down car wash Bay.

**Notes and Action Points:**

x Met site pre-start meeting with HBB + MSI.
Came across live ntc cable running straight across the site boundary from the overhead cable #

Reviewed by:  
Safety Consultant

Signed: .....

Date: .....

Contractor Management/Safety Officer

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Esso Engineer

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**ESSO**  
**DAILY SITE SAFETY RECORD**

Date: 31/1/08

Tool Box Talk  
Topics Covered:

Held By: GAVIN BIRD

Sales previous Daily routine JSA01
Removal of Car wash area JSA C+B10.
Demolition of Existing Shop Building JSA C+B02.
LMRA CARRIED out also.

All personnel attending Toolbox Talk (including sub-contractors):

P. Gibbons		
Max Mc Lennan		
D. Hoggan		
W. Smith		
NOEL BAXTER		

Hazard Spotting, Unsafe Acts, Near Misses (from previous day):


Notes and Action Points:


Reviewed by:  
Safety Consultant

Signed: .....

Date: .....

Contractor Management/Safety Officer

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Esso Engineer

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**ESSO**  
**DAILY SITE SAFETY RECORD**

Date: 1/2/08

**Tool Box Talk**  
**Topics Covered:**

Held By: Gavin Grogan

Supervisors	Daily Routine Done	SSA 01
Demolition of existing Building	upright stanchions	SSA C+B 09.
removal of canopy		SSA C+B 06.
LMEA CARRIED out also.		

**All personnel attending Toolbox Talk (including sub-contractors):**

<u>[Signature]</u>		
<u>[Signature]</u>		
<u>[Signature]</u>		
<u>[Signature]</u>		

**Hazard Spotting, Unsafe Acts, Near Misses (from previous day):**


**Notes and Action Points:**


Reviewed by:  
Safety Consultant

Signed: .....

Date: .....

Contractor Management/Safety Officer

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Esso Engineer

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**ESSO**  
**DAILY SITE SAFETY RECORD**

Date: 4-2-08

Tool Box Talk  
Topics Covered:

Held By: Steve Hickey

TIB	Slip, trips, Falls.
	START WORK DISCUSSION, Site Supervisor daily routine JSA TO1
	Installation of Horns fencing JSA TO4
	Demolition of Existing building JSA C+B 02
	Removal of MID Signs JSA C+B 09
	Carryout LMRA.

All personnel attending Toolbox Talk (including sub-contractors):

<u>Mark McGee</u>		
<u>Mark Best</u>		
<u>P. Hickey</u>		

Hazard Spotting, Unsafe Acts, Near Misses (from previous day):

<u>vehical movement / Trucks entering &amp; Exiting Site</u>
<u>Live Services. NTL along Coraush creek</u>
<u>Surface Drains must be protected (Culvert).</u>

Notes and Action Points:

<u>Banksman to assist with all vehical movement</u>
<u>Extra Care while trucks moving &amp; leaving.</u>

Reviewed by:  
Safety Consultant

Signed:

Date:

Contractor Management/Safety Officer

[Signature]

05/12/08

Esso Engineer

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**ESSO**  
**DAILY SITE SAFETY RECORD**

Date: 5-2-08

**Tool Box Talk**  
**Topics Covered:**

Held By: Steve Hickey

START WORK Discussion
Site Supervisor Daily routine JSA T01
Installation of Hoses fence JSA T04
Demolition of Existing building JSA C+B02
Uncovering of UST with Clog JSA T60A JSA T09.

LIMRA To Be Carried out prior to all tasks.

**All personnel attending Toolbox Talk (including sub-contractors):**

<u>Steve Hickey</u>		
<u>Mel West</u>		
<u>P. Gibbons</u>		
<u>D. Hickey</u>		

**Hazard Spotting, Unsafe Acts, Near Misses (from previous day):**

vehical movement.
weather conditions - strong winds.
NFL Live Service wall beside carwash area.
All work areas to be fenced off.

**Notes and Action Points:**

Banksman to assist with vehical movement on site, extra
care while vehicles entering or exiting.
Keep work area tidy to prevent trip or fall hazards
(vacuum extraction works on site.)
(Separate permit for this work, SMS.)

Reviewed by:  
Safety Consultant

Signed: .....

Date: .....

Contractor Management/Safety Officer

Steve Hickey

05/02/08

Esso Engineer

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**ESSO**  
**DAILY SITE SAFETY RECORD**

Date: 6-2-08

Tool Box Talk  
Topics Covered:

Held By: Steve Hickey

<u>START WORK DISCUSSION.</u>	
<u>(1) Site Supervisor Daily routine.</u>	<u>JSA T01</u>
<u>(2) Installation of Home Frame.</u>	<u>JSA T04</u>
<u>(3) Uncovering of UST with Glycol.</u>	<u>JSA T609</u>
<u>LMPA prior to all tasks.</u>	

All personnel attending Toolbox Talk (including sub-contractors):

<u>Man M. King</u>		
<u>D. McQuinn</u>		
<u>P. Sidmore</u>		

Hazard Spotting, Unsafe Acts, Near Misses (from previous day):

<u>(1) Excavator on Site.</u>
<u>(2) Noise level while concrete breaking.</u>
<u>(3) NTL Live Service, part overhead part underground.</u>

Notes and Action Points:

<u>(1) All work areas to be fenced off.</u>
<u>(2) NO unauthorised entry to work areas.</u>
<u>(3) Keep work area clean &amp; tidy.</u>

Reviewed by:  
Safety Consultant

Signed: .....

Date: .....

Contractor Management/Safety Officer

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Esso Engineer

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**ESSO**  
**DAILY SITE SAFETY RECORD**

Date: 7-2-08

Tool Box Talk  
Topics Covered:

Held By: Steve Mchey

START WORK DISCUSSION.
(1) Supervisor Daily routine JSA T01
(2) Installation of Hammer firing JSA T04
(3) Decommission Storage Tanks JSA T11
(4) Removing M11 Signs with Hibab JSA C+B 09
CMRA prior to all tasks.

All personnel attending Toolbox Talk (including sub-contractors):

<u>Mr Mchey</u>		
<u>Paul Gibson</u>		
<u>Neil Braden</u>		
<u>G. Alkura</u>		

Hazard Spotting, Unsafe Acts, Near Misses (from previous day):

vehicular movement on site.
Track machine Keep out of Sundry area of machine.
Rebar in Concrete
noise levels during concrete breaking

Notes and Action Points:

Banksman to assist with all traffic movement, extra care
while wagons entering or leaving site.
Keep out of work area of track machine
Remove all trip hazards.
Follow all work procedures, PPE as JSA's

Reviewed by:  
Safety Consultant

Signed: .....

Date: .....

Contractor Management/Safety Officer

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Esso Engineer

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**ESSO**  
**DAILY SITE SAFETY RECORD**

Date: 8-20-08

Tool Box Talk  
Topics Covered:

Held By: Steve Kichey

SWD - Site Supervisor Daily routine	JSA T01
Installation of Harris fence	JSA T04
Decommission Storage tanks	JSA 11
Remove MID Sign with Hub	JSA CHB 09
LMRA prior to all tasks	

**All personnel attending Toolbox Talk (including sub-contractors):**

g. d. d. d. d.		
P. GIBSON		
D. ALLEN		
M. BUSH		

**Hazard Spotting, Unsafe Acts, Near Misses (from previous day):**

vehicular movement
Truck machine

**Notes and Action Points:**

Barricade in place to assist with all traffic, extra
Core while vehiculars entering or leaving site.
NO Entry into Swing area of Truck machine

Reviewed by:  
Safety Consultant

Signed: .....

Date: .....

Contractor Management/Safety Officer

*[Signature]*

12/02/08

Esso Engineer

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**ESSO**  
**DAILY SITE SAFETY RECORD**

Date: 11-2-08

Tool Box Talk  
Topics Covered:

Held By: Steve Kuehly

Tool Box + START WORK DISCUSSION	
(1) Site Supervisor Daily routine	SSA T01
(2) Installation of Hoops frames	SSA T04
(3) Tank lifting	SSA T12
(4) uncovering JST's prior to SSA T12.	SSA T09
LMRA Prior to all tasks.	

All personnel attending Toolbox Talk (including sub-contractors):

P. Kuehly	Net Brest	
C. CARTON		
G. B...		
P. ...		
M. ...		

Hazard Spotting, Unsafe Acts, Near Misses (from previous day):

vehicular movement
Excavations
Trips or falls.

Notes and Action Points:

Banksman to assist with all Traffic movement. Extra Care while vehicles entering or exiting Site.
Face off all excavations
Keep out of Saamy area of Track machine.
Tool Box Seven Common Accident Causes.
11-2-08.

Reviewed by:  
Safety Consultant

Signed:

Date:

Contractor Management/Safety Officer

Esso Engineer

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11/2/08  
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**ESSO**  
**DAILY SITE SAFETY RECORD**

Date: 12-2-08

Tool Box Talk

Held By: Steve Muehly

Topics Covered:

START WORK DISCUSSION	
Site Supervisor Daily routine	JSA T01
Installation of Hoses for air	JSA T04
Uncovering UST's with Claycol	JSA T609
Removal of Tank bases and backfilling of Tank pit	JSA T16
LMRA Prior to all Tasks.	

All personnel attending Toolbox Talk (including sub-contractors):

<u>P. G. Johnson</u>		
<u>Mike McLean</u>		
<u>Mark Baker</u>		
<u>Greg Pitts</u>		
<u>D. Schum</u>		

Hazard Spotting, Unsafe Acts, Near Misses (from previous day):

<u>vehical movement</u>
<u>Excavations</u>
<u>Tripp or fall</u>

Notes and Action Points:

<u>Banksmen to assist with all vehical movement. Extra Care</u>
<u>while Traffic entering or exiting Site.</u>
<u>Fence off all excavations</u>
<u>Keep work area tidy.</u>

Reviewed by:  
Safety Consultant

Signed:  
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Date:  
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Contractor Management/Safety Officer

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Esso Engineer

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**ESSO**  
**DAILY SITE SAFETY RECORD**

Date: 13-2-08

Tool Box Talk  
Topics Covered:

Held By: S. Heaney

START WORK DISCUSSION	
Site Supervisor daily routine	JSA T01
Installation of Hoop from	JSA T04
Uncovering Tanks with Cyclo	JSA T04
Removal of Tank bases and back filling of Tank pit	JSA T16
Carry out LMPA prior to all tasks.	

All personnel attending Toolbox Talk (including sub-contractors):

<u>P. Gannon</u>		
<u>Mal Bead</u>		
<u>M. M. G.</u>		
<u>D. ...</u>		

Hazard Spotting, Unsafe Acts, Near Misses (from previous day):

<u>Truck machine on Site.</u>
<u>Excavations.</u>
<u>NO Entry into Excavations</u>

Notes and Action Points:

<u>Banksman to assist with all vehicular movement on Site.</u>
<u>Keep out of swing area of Truck machine</u>
<u>Keep behind fencing of Excavations.</u>

Reviewed by:  
Safety Consultant

Signed: .....

Date: .....

Contractor Management/Safety Officer

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Esso Engineer

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**ESSO**  
**DAILY SITE SAFETY RECORD**

Date: 14-2-08

**Tool Box Talk**  
**Topics Covered:**

Held By: Steve Hechey

<u>START WORK DISCUSSION</u>	
<u>Site Supervisor daily routine</u>	<u>JSA T01</u>
<u>Installation of Hems form</u>	<u>JSA T04</u>
<u>Removal of Tank Bases and back filling of Tank pit</u>	<u>JSA T16</u>
<u>Conyout LMPA Prior Wall Casts</u>	

**All personnel attending Toolbox Talk (including sub-contractors):**

<u>D. Hechey</u>		
<u>P. Gilling</u>		
<u>M. B. B. B.</u>		

**Hazard Spotting, Unsafe Acts, Near Misses (from previous day):**

<u>vehical movement on site</u>
<u>Excavations</u>

**Notes and Action Points:**

<u>Banksman in place to assist with all traffic movement</u>
<u>Extra Core while vehicals entering or exiting site.</u>
<u>NO Entry into Excavations.</u>

Reviewed by:  
Safety Consultant

Signed: .....

Date: .....

Contractor Management/Safety Officer

[Signature]

19/02/08

Esso Engineer

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**ESSO**  
**DAILY SITE SAFETY RECORD**

Date: 15-2-08

Tool Box Talk  
Topics Covered:

Held By: GAVIN BRADY

Sitesupervisors Daily routine Done JSA 01
Install of chainlink fencing SSA 23.
Removal of tank Basis and backfill of tank pit SSA 16
Trial pitting work's SSA 15.

All personnel attending Toolbox Talk (including sub-contractors):

<i>M. J. ...</i>		
<i>...</i>		
<i>P. Gibson</i>		

Hazard Spotting, Unsafe Acts, Near Misses (from previous day):

URS arrived on site 11:30 didn't start.
trial pitting until 12:00.
qds stone delivered for tank pit

Notes and Action Points:


Reviewed by:  
Safety Consultant

Signed:

Date:

Contractor Management/Safety Officer

*[Signature]*

19/02/08

Esso Engineer

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**ESSO**  
**DAILY SITE SAFETY RECORD**

Date: 18-2-08

Tool Box Talk  
Topics Covered:

Held By: Steve Hickey

START WORK DISCUSSION	
Site Supervisor Daily routine	JSA T01
Installation of Hards Paving	JSA T04
Back fill Transport	JSA 116
Trail pitting works	JSA 15
Carryout LMRA Prory to all tasks	

All personnel attending Toolbox Talk (including sub-contractors):

P. Gibbons		
Neil Burt		

Hazard Spotting, Unsafe Acts, Near Misses (from previous day):

vehicul. movement
2 no Banks men assisting

Notes and Action Points: overweekend.

Trach machine vandalised (Side window broken)
portaloos pushed over. (mirrors, wipers,
Goal post System at NTL pushed over.
Signs taken from office (First Aid. office Sign)

Reviewed by:  
Safety Consultant

Signed:

Date:

Contractor Management/Safety Officer

Esso Engineer

*[Signature]*

19/02/08



**ESSO**  
**DAILY SITE SAFETY RECORD**

Date: 19-2-08

Tool Box Talk  
Topics Covered:

Held By: Steve Kichey

TB eye protection.	START WORK DISCUSSION
Site Supervisor Daily routine	JSA T01
Installation of Harry ferry	JSA T04
Back fill Tank pits	JSA 116
Trail pit works	JSA 15
LMRA Priority to all Tasks.	

All personnel attending Toolbox Talk (including sub-contractors):

<u>Neil Bredin</u>		
<u>Paddy Gorman</u>		
<u>Mark the welder</u>		
<u>D. McKeown</u>		

Hazard Spotting, Unsafe Acts, Near Misses (from previous day):

<u>Excavators</u>
<u>vehical movement</u>

Notes and Action Points:

<u>Banksman to assist with all traffic movement on site</u>
<u>Extra Care while trucks Entering or Exiting Site.</u>
<u>Guards Call to Site 1 am to talk to Security, they had been</u>
<u>called from neighbour through machine was working, noise</u>
<u>from Generator.</u>

Reviewed by:  
Safety Consultant

Signed:

Date:

Contractor Management/Safety Officer

Esso Engineer



**ESSO  
DAILY SITE SAFETY RECORD**

Date: 20-2-08

Tool Box Talk  
Topics Covered:

Held By: Steve Hickey

START WORK DISCUSSION.	
Site Supervisor daily routine	JSA T01
Installation of Hards fencing	JSA T04
Trail pit works	JSA 15
Removal of Tank base & Surrounds (LMRA)	JSA T16

All personnel attending Toolbox Talk (including sub-contractors):

<u>C. Hickey</u>		
<u>P. Gibson</u>		
<u>Neil Beal</u>		

Hazard Spotting, Unsafe Acts, Near Misses (from previous day):

<u>wagons arriving to site.</u>
<u>2 no Excavators on site.</u>

Notes and Action Points:

<u>Banks men to assist with all vehical movement, Extra</u>
<u>Core white wagons entering or exiting site.</u>
<u>Review JSA's</u>

Reviewed by:  
Safety Consultant

Signed:

Date:

Contractor Management/Safety Officer

Esso Engineer

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**ESSO**  
**DAILY SITE SAFETY RECORD**

Date: 22-2-08

Tool Box Talk

Held By: Steve Kichey

Topics Covered:

START WORK DISCUSSION	
Site Supervisor Daily routine	JSA TOI,
Installation of Home fencing	JSA TCX,
Trail pit works	JSA IS,
Carry out LMPA prior to all tasks.	

All personnel attending Toolbox Talk (including sub-contractors):

<u>D. Pelagia</u>		
<u>Neil Bask</u>		
<u>R. Gibbons</u>		

Hazard Spotting, Unsafe Acts, Near Misses (from previous day):

<u>vehicul movement</u>
<u>Track machine on site</u>

Notes and Action Points:

<u>Banks man to assist with all vehicul movement on site</u>
<u>2 no Bankmen while Wagons entering or exiting site</u>

Reviewed by:  
Safety Consultant

Signed: .....

Date: .....

Contractor Management/Safety Officer

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Esso Engineer

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**ESSO**  
**DAILY SITE SAFETY RECORD**

Date: 21-2-08

Tool Box Talk

Held By: Steve Hickey

Topics Covered:

START WORK DISCUSSION		
Site Supervisor daily routine	SSA	T01
Installation of Horns fencing	SSA	T04
Trail pit works	SSA	15
Cleaning of interceptor	SSA	T13
Removal of interceptor	SSA/T17	LMRA.

All personnel attending Toolbox Talk (including sub-contractors):

D. Helgason		
M. [unclear]		
P. Gibson		

Hazard Spotting, Unsafe Acts, Near Misses (from previous day):

Truck machine on site
Wagons entering or exiting site
Excavations

Notes and Action Points:

Banksman to assist with all vehicular movement Extra Care while vehicles entering or exiting site.
Fence off all trail pits, no pit to be left unattended
Backfill as soon as EC has retrieved Sampler

Reviewed by:  
Safety Consultant

Signed: .....

Date: .....

Contractor Management/Safety Officer

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Esso Engineer

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