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| **NB! Please ensure that all the information provided in brackets are removed before submitting this report to the all the Authorities.** |

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|  | **Document Type:** | **Emergency Incident Report** | |
| emi%20logo%20cmyk | **Title for the incident:** | **ENGEN SONNENDAL – SOIL CONTAMINATION** | |
| **Date of the incident :** | 21 February 2016 | |
| **Reference:** |  | **Initial Submission Date:** | 05 March 2016 |
| **Revision No.:** | 1 | **Compiled by:** | Mills and Otten Environmental Consultants  Stephanie de Beer  (021) 671 7107  [stef@millsandotten.co.za](mailto:stef@millsandotten.co.za)  Fax: (086) 554 6573 |

This form provides a template for the emergency incident report required in terms of section 30(5) of the National Environmental Management Act (Act No. 107 of 1998) (hereinafter “NEMA”) in which the responsible person or, where the incident occurred in the course of that person´s employment, his or her employer, , must, within 14 days of the incident, report to the Director General provincial head of department and municipality such information as is available to enable an initial evaluation of the incident, including: (a) the nature of the incident; (b) the substances involved and an estimation of the quantity released and their possible acute effect on persons and the environment and data needed to assess these effects; (c) initial measures taken to minimise impacts; (d) causes of the incident, whether direct or indirect, including equipment, technology, system, or management failure; and (e) measures taken and to be taken to avoid a recurrence of such incident.

In terms of section 30(1)(a) of NEMA, an “incident” means an unexpected sudden occurrence, including a major emission, fire or explosion leading to serious danger to the public or potentially serious pollution of or detriment to the environment, whether immediate or delayed.

In line with section 24 of the Constitution of the Republic of South Africa (Act No. 108 of 1996), “serious” is taken to be a measure of the impact of an incident where such an incident has had, could have had, is having, or will have a negative impact on human health or well-being.

| RESPONSIBLE PERSON | | | |
| --- | --- | --- | --- |
| In terms of section 30(1)(b) of NEMA, the “responsible person” includes any person who: (i) is responsible for the incident; (ii) owns any hazardous substance involved in the incident; or (iii) was in control of any hazardous substance involved in the incident at the time of the incident | | | |
| Name: | Engen Petroleum Ltd ( c/o Ricardo Le Roux) | Designation: | HSEQ Coordinator |
| Postal Address: | PO Box 35  Cape Town,  8000 | Physical Address: | Engen Court,Thibault Square, Cnr Riebeeck and Long Street, Cape Town, 8000 |
| Telephone (B/H): | (021) 680 5547 | Telephone (A/H): | 072 926 4664 |
| Fax: | (021) 403 4067 |  |  |
| E-mail: | [Ricardo.LeRoux@engenoil.com](mailto:Ricardo.LeRoux@engenoil.com) |  |  |
| Nature of Business: | Supplier of petroleum products | | |

| Emergency Incident Summary Information | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Mark the appropriate boxes | | | | | | | | |
| ~~Fire:~~ |  | Spill: | | **X** | ~~Explosion:~~ |  | ~~Gaseous Emission:~~ |  |
| ~~Injuries~~ |  | ~~Reportable injuries:~~ | |  | ~~Hospitalisation:~~ |  | ~~Fatalities:~~ |  |
| ~~Open water impacts:~~ |  | ~~Ground water impacts:~~ | |  | ~~Atmospheric impacts:~~ |  | Soil impacts: | **X** |
| ~~Own emergency response involved~~ |  | ~~Fire prevention services involved~~ | |  | ~~Government hazardous materials emergency response involved~~ |  | ~~More than 1 governmental emergency response service involved~~ |  |
| ~~Emission of non-toxic substances at low concentrations~~ |  | ~~Emission of non-toxic substances at high concentrations~~ | |  | ~~Emission of toxic substances at low concentrations~~ |  | ~~Emission of toxic substances at high concentrations~~ |  |
| No evacuation required | **X** | ~~Immediate area evacuated~~ | |  | ~~Immediate surrounds evacuated~~ |  | ~~Evacuation of the general public~~ |  |
| ~~Others~~ |  | | | | | | | |
| Initial Emergency Incident Report | | | | | | | | |
| In terms of section 30(3) of NEMA, the responsible person or, where the incident occurred in the course of that person´s employment, his or her employer must forthwith after knowledge of the incident, report through the most effective means reasonably available: (a) the nature of the incident; (b) any risks posed by the incident to public health, safety and property; (c) the toxicity of substances or byproducts released by the incident; and (d) any steps that should be taken in order to avoid or minimise the effects of the incident on public health and the environment to: (i) the Director General; (ii) the South African Police Services and the relevant fire prevention service; (iii) the relevant provincial head of department or municipality; and (iv) all persons whose health may be affected by the incident. | | | | | | | | |
| Description | Date: | | Time: | | Medium: | 3.5. Name and contact details: | | |
| DEA - Director General |  | |  | |  | Ms Noshipo Ngcaba  Tel: 012 399 9000  Fax: 012 322 2686  [svanda@environment.gov.za](mailto:svanda@environment.gov.za) | | |
| WCDEADP – Director: Waste Management |  | |  | |  | Mr. Eddie Hanekom  Tel: 021 483 2756  Fax: 021 483 3016  [eddie.hanekom@westerncape.gov.za](mailto:eddie.hanekom@westerncape.gov.za) | | |
| Goodwood Police Station |  | |  | |  | Col Hans Raj  Tel: 021 592 4430  Fax: 021 592 4479  [GoodwoodSAPS@saps.org.za](mailto:GoodwoodSAPS@saps.org.za) | | |
| Bellville Fire Station |  | |  | |  | Station Commander Maruis Kelder  Tel: 021 444 8279  Fax: 021 918 2712  [Marius.kelder@capetown.gov.za](mailto:Marius.kelder@capetown.gov.za) | | |
| Municipal Manager  City of Cape Town |  | |  | |  | Mr Achmat Ebrahim  Tel: 021 400 1330/5475  Fax: 021 400 1332  [city.manager@capetown.gov.za](mailto:city.manager@capetown.gov.za) | | |

| Incident Details | | | |
| --- | --- | --- | --- |
| In terms of NEMA section 30(5)(a) and (d), the responsible person must report on the nature of the incident as well as the causes of the incident, whether direct or indirect, including equipment, technology, system, or management failure | | | |
| Location of the incident | Panorama, at 109 Hendrik Verwoerd Drive ; 33°52'59.35"S; 18°34'58.06"E | | |
| Incident start date and time: | 21 February 2016 | Incident duration: | Few minutes |
| Duration of exposure: | Limited | | |
| **4.5.** **Incident description:** | | | |
| The Engen Sonnendal filling station is currently undergoing redevelopment. The redevelopment includes the demolition and reconstruction of the existing building and the replacement of tanks on site. The fuel dispensing side of filling station was still operational at the time but the existing building had been demolished when the incident occurred. Fuel was delivered to the site on 21 February 2016, during the delivery the tanker driver noticed product leaking from the Diesel filler pipe. Delivery was immediately stopped. It is suspected that the pipe had been damaged during the removal of rubble from the demolished building. The leaked product was immediately contained and Extreme Projects, an emergency response contractor, was contacted to inspect the extent of the leak and remove the contaminated soil. Approximately 3.5 tons of soil was removed from site for disposal at a registered waste disposal site. All affected soil was removed from site. Product reconciliation of the tanker volumes confirmed a difference of 1143 litres between product loaded at the depot and product returned to the depot indicating that this amount of product was lost during the incident. Due to the rapid response no groundwater was impacted during this incident. | | | |
| Wind speed and direction | Variable | Ambient air temperature | 20 - 28°C |
| Weather conditions | Sunny | Other relevant meteorological conditions | None |

| POLLUTANTS RELEASED DURING INCIDENT | | | | | |
| --- | --- | --- | --- | --- | --- |
| In terms of NEMA section 30(5)(b), the responsible person must report on the substances involved and an estimation of the quantity. | | | | | |
| List all the pollutants directly released during the incident (i.e. exclude those pollutants that resulted from mitigation measures, e.g. flaring, treatment, dilution etc.) | | | | | |
| Substance or mixture of substances | Reference Number | Phase eg solid, liquid or gas | Total Quantity emitted/released | Units eg Kg, L etc | Nature of emission/release |
| Diesel | 648/3694 | Liquid | 1143 | Litres | Leak from a damaged filler pipe. |

| SECONDARY POLLUTANTS RESULTING FROM INCIDENT | | | | | |
| --- | --- | --- | --- | --- | --- |
| In terms of NEMA section 30(5)(b), the responsible person must report on the substances involved and an estimation of the quantity released. | | | | | |
| List all the pollutants that resulted from mitigation measures, e.g. flaring, treatment, dilution etc. | | | | | |
| Substance or mixture of substances | Reference Number | Phase | Total Quantity emitted/released | Unit | Nature of emission |
| None | None | None | None | None | None |

| POLLUTANT concentrations | | | | | |
| --- | --- | --- | --- | --- | --- |
| In terms of NEMA section 30(5)(b), the responsible person must report on the substances involved and an estimation of the quantity released. | | | | | |
| List all the pollutants detailed in previous section: | | | | | |
| Substance or mixture of substances | Reference Number | Estimated pollutant concentration on different radius | | | |
| 10m | 100m | 500m | >2000m |
| Diesel | 648/3694 | Immediately removed | 0 | 0 | 0 |

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| Incident Impact | |
| In terms of NEMA section 30(5)(b), the responsible person must report on possible acute effects on persons and the environment and the responsible must provide data needed to assess these effects; | |
| Minor injuries | None |
| Reportable injuries | None |
| Hospitalisation | None |
| Fatalities | None |
| Biological impacts | None |
| Impact area | Approximately 3.5 tons of soil, was removed by Extreme Projects for disposal at a registered waste disposal facility. |
| Data |  |

| EXISTING PREVENTION PROCEDURES AND/OR SYSTEMS | |
| --- | --- |
| Foresight |  |
| Procedures and/or systems |  |
| Procedure and/or systems failures | A damaged filler pipe resulted in a Diesel leak during fuel delivery on site. Fuel delivery was stopped immediately and the leak was contained, the affected soil was removed and disposed of appropriately. |
| Technical measures | N/A |
| Technical failure | None |

| INITIAL Incident MANAGEMENT | |
| --- | --- |
| In terms of NEMA section 30(5)(c), the responsible person must report on initial measures taken to minimise impacts. | |
| Evacuation | Not required |
| Technical measures | None, the filler pipe was damaged during construction activities on site. |
| Mitigation measures | None required, the affected soil was removed from site and disposed of at a certified waste disposal site. The site has since closed for redevelopment. |
| Emergency Services | Not required |

| cleanup and/or decontamination | | | | |
| --- | --- | --- | --- | --- |
| In terms of NEMA section 30(5)(c), the responsible person must report on initial measures taken to minimise impacts. | | | | |
| Cleanup and/or decontamination | | As noted in Section 10.1 above, clean up was implemented and all affected soil removed from site. | | |
| Permissions and Instructions | | | | |
| Provide details of any permission and/or instructions received from any organ of state during initial incident management, cleanup and/or decontamination | | | | |
| Type | Statuate | | Issued By | Name and contact details |
| None | None | | None | None |

| MITIGATION MEASURES | | | |
| --- | --- | --- | --- |
| In terms of NEMA section 30(5)(e), the responsible person must report on measures taken and to be taken to avoid a recurrence of such an incident. | | | |
| Measure | Objective | Cost | Timing |
| None required with the associated incident. It was a once-off emergency incident that was contained and the contaminated soil removed from site on the same day. | | | |

| AUTHORISATIONS | | | | | |
| --- | --- | --- | --- | --- | --- |
| Provide details on all authorisations (including permits, licenses, certificates, etc.) in respect of the activity to which this incident relates. | | | | | |
| Type | Statute | | Issued By | | Issue & Expiry Date |
| No authorisations, licences or permits have been issued for this site. | | | | | |
| history | | | | | |
| Provide details of all similar incidents involving the responsible person in the past (i.e. from 1998). Similar incidents include those that: (i) involved similar circumstances; (ii) involved similar emissions; (iii) involved similar personnel; and/or (iv) involved similar impacts. | | | | | |
| Incident title | | Report reference | Date of incident | Summary of event | |
| The service station is older than 35 years, no historical losses have been reported at this site. | | | | | |

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| --- | --- | --- | --- |
| Signed by, or as a mandated signatory for, the responsible person: |  | Date: |  |

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| **APPENDIX 1**  **List of affected people as results of the incident** | | | | |
| **NAME** | **ADDRESS** | **PHONE** | **FAULT** | **REMARKS** |
|  |  |  |  |  |
|  |  |  |  |  |

***\*None***

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| **APPENDIX 2**  **Layout map of the area likely to be affected or affected as a result of the incident** |
|  |

***\*None***

**Disclaimer**

Any other information not covered in the reporting template must be included.

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| CAUTION |
| In terms of section 30 (11) of NEMA as amended, it is an offence not to report an incident and liable on convection to a fine not exceeding R 1 million or imprisonment for a period not exceeding 1 year, or to both such a fine and such imprisonment. |