**Table 1. RCRA LANDFILL AIR MONITORING**
**LMC Site, The Dalles, Oregon**

| Date | Time | Location | Air Monitoring | | | | | | | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | LEL (%) | $CH_4$ (ppm) | $O_2$ (%) | $H_2S$ (ppm) | $CO_2$ (%) | (ppm) | HCN (ppm) | Wind speed for entire event at 1-3 mph, changing directions. |
| | | | | | | | | | | |
| | | **Vent 1** | | | | | | | | |
| 7/7/12 | 10:37 | Source | 45 | 84 | 13 | 56 | 0.03 | 300 | 105 | Readings inside vent. CH4 and HCN over limit. |
| | 10.:45 | Worker Exposure 1U | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | 5 feet elevation above ground, one foot upwind. |
| | 10:47 | Worker Exposure 1D | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | 5 feet elevation above ground, one foot downwind. |
| | 10:50 | Worker Exposure 5U | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | 5 feet elevation above ground, five feet upwind. |
| | 10:54 | Worker Exposure 5D | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | 5 feet elevation above ground, five feet downwind. |
| | 10:56 | Cross wind 1N | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | Cross wind - 1 and 5 ft crosswind, same criteria. |
| | 10:59 | Cross wind 1S | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | |
| | 11:02 | Cross wind 5N | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | |
| | 11:05 | Cross wind 5S | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | |
| | | | | | | | | | | |
| | | **Vent 2** | | | | | | | | |
| 7/7/12 | 10:10 | Source | 52 | 96 | 12.5 | 57 | 0.04 | 400 | 93.4 | Readings inside vent. CH4 and HCN over limit. |
| | 10:16 | Worker Exposure 1U | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | 5 feet elevation above ground, one foot upwind. |
| | 10:18 | Worker Exposure 1D | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | 5 feet elevation above ground, one foot downwind. |
| | 10:21 | Worker Exposure 5U | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | 5 feet elevation above ground, five feet upwind. |
| | 10:25 | Worker Exposure 5D | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | 5 feet elevation above ground, five feet downwind. |
| | 10:27 | Cross wind 1N | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | Cross wind - 1 and 5 ft crosswind, same criteria. |
| | 10:29 | Cross wind 1S | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | |
| | 10:31 | Cross wind 5N | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | |
| | 10:33 | Cross wind 5S | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | |

Source Inside vent cap at elbow.

LEL - Lower Explosive Limit.

$CH_4$ - Methane.

$O_2$ - Oxygen. Ambient concentration typically 20.9 percent.

$H_2S$ - Hydrogen Sulfide.

HCN - Hydrogen Cyanide.

$CO_2$ - Carbon Dioxide. Ambient concentrations typically 300-600 ppm.

Note: This air monitoing, done at request of ODEQ (Fredrick Moore), was not conducted using an approved Sampling and Analysis Plan (SAP). Manufacturer's instructions were followed for use of portable air sampling equipment and both monitors were calibrated prior to use.

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|---|---|---|---|---|---|---|---|---|---|---|
| | | | LEL (%) | $CH_4$ (ppm) | $O_2$ (%) | $H_2S$ (ppm) | $CO_2$ (%) | (ppm) | HCN (ppm) | Wind speed for entire event at 1-3 mph, changing directions. |
| | | | | | | | | | | |
| | | **Vent 3** | | | | | | | | |
| 7/7/12 | 9:25 | Source | 59 | 94 | 12.4 | 60 | 0.08 | 800 | 84 | Readings inside vent.CH4 and HCN over limit. |
| | 9:30 | Worker Exposure 1U | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | 5 feet elevation above ground, one foot upwind. |
| | 9:34 | Worker Exposure 1D | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | 5 feet elevation above ground, one foot downwind. |
| | 9:40 | Worker Exposure 5U | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | 5 feet elevation above ground, five feet upwind. |
| | 9:42 | Worker Exposure 5D | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | 5 feet elevation above ground, five feet downwind. |
| | 9:44 | Cross wind 1N | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | Cross wind - 1 and 5 ft crosswind, same criteria. |
| | 9:46 | Cross wind 1S | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | |
| | 9:49 | Cross wind 5N | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | |
| | 9:53 | Cross wind 5S | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | |
| 7/7/12 | 9:59 | **Perimeter 1** | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | Downwind. |
| | 10:03 | **Perimeter 2** | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | Move approximately 100 feet each direction. |
| | 10:08 | **Perimeter 3** | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | Move approximately 100 feet each direction. |
| | 11:15 | MW-5S | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | In casing. |
| | 11:35 | RCRA Sump | 0 | 0 | 20.4 | 0 | 0.20 | 2,000 | 0 | VOC result = 0.7. |
| | 11:41 | RCRA Shack | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | |
| | | **On Landfill** | | | | | | | | |
| 7/7/12 | 11:50 | East Cap Drain | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | 6 inches off ground, one-half way up slope of LF |
| | 11:55 | SE Cap Drain | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | at all cap readings. |
| | 12:00 | SW Cap Drain | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | |
| | 12:05 | West Cap Drain | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | |
| | 12:12 | NW Cap Drain | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | |
| | 12:18 | NE Cap Drain | 0 | 0 | 20.9 | 0 | 0.00 | | 0 | |

Source Inside vent cap at elbow.

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