



Geraldton Community Air Quality Monitoring Program



FEBRUARY 2013 RESULTS

Monitoring Program

The Geraldton community air quality monitoring program is a joint initiative by MMG and Geraldton Port Authority (GPA) to undertake a one year sampling program to provide scientific data on air quality within the Geraldton community. The monitoring program methods and limits are aligned with GPA's Environmental Licence Emission Limit to allow for effective data analysis and interpretation. There are four air quality monitoring stations; three to represent potential community exposure (Point Moore, Maitland Street and George Road) and one control site (Durlacher Street) to represent the background air quality.

During February the Durlacher Street Site was removed due to continual vandalism.

For more information on the monitoring program, please refer to the Air Quality Monitoring Plan.

Port Operations

During the month six ships were loaded with metal concentrates. MMG exports for the month included one vessel being loaded with copper and zinc concentrates.

Weather Conditions

The average wind speed for the month was 11.14 Kn with winds predominantly coming from a sou-sou-west to sou-sou-east direction (Figure 1).

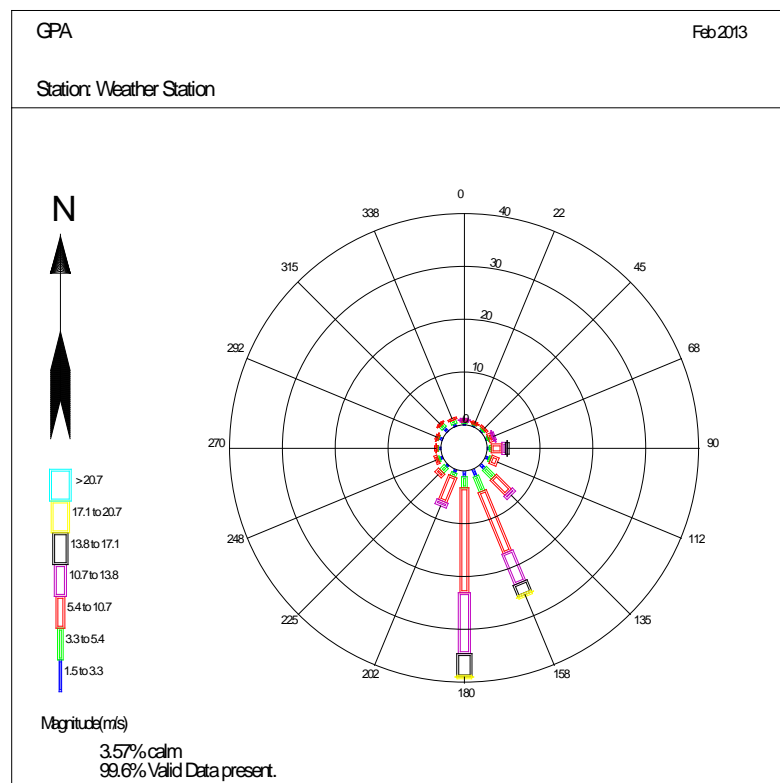


Figure 1. GPA Offshore Wind Data

Monitoring Results

The monitoring results shown in Table 1 of all four locations are well below the GPA licence three month rolling average limit of $0.5 \mu\text{g}/\text{m}^3$ of Lead in dust as Total Suspended Particulates (TSP). Results from the potential impact sites are at similar levels to those detected at the background reference site.

As Durlacher Street has now been decommissioned the results for the three monthly average are no longer valid.

Table 1. Month and 3 month rolling average with GPA licence 3 month average limit of $0.5 \mu\text{g}/\text{m}^3$ of Lead as TSP

Month	Point Moore (South West)		Maitland Street (South East)		George Road (North East)		Durlacher Street (Background)	
	Monthly	3 Monthly	Monthly	3 Monthly	Monthly	3 Monthly	Monthly	3 Monthly
Averaging	$\mu\text{g}/\text{m}^3$ Lead as TSP	$\mu\text{g}/\text{m}^3$ Lead as TSP	$\mu\text{g}/\text{m}^3$ Lead as TSP	$\mu\text{g}/\text{m}^3$ Lead as TSP	$\mu\text{g}/\text{m}^3$ Lead as TSP	$\mu\text{g}/\text{m}^3$ Lead as TSP	$\mu\text{g}/\text{m}^3$ Lead as TSP	$\mu\text{g}/\text{m}^3$ Lead as TSP
January	0.005	0.005	0.005	0.005	0.005	0.005	NA	NA

Related Material

For more information on lead in your community, please view the following government websites, fact sheets and reports:

[Geraldton dust report \(PDF 1.23MB\)](#)

[Dust investigations information sheet - April 2011 \(PDF 59KB\)](#)

<http://www.environment.gov.au/atmosphere/airquality/publications/leadfs.html>

<http://www.public.health.wa.gov.au/3/1141/2/lead.pm>

[Lead in playground equipment \(PDF 180KB\)](#)

[Lead Sources in the Home - What to avoid \(PDF 124KB\)](#)