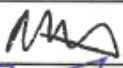
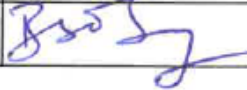




Air Quality Annual Monitoring Report 2017

Document Reference: WAI-200-REP-001-03

Approvals

OGC Designation	Name	Designation	Signature	Date
HSE Manager	D Calderwood	Mr		26 Mar 18
General Manager – Waihi Operations	B O'Leary	Mr		26 Mar 18

Revision History

Date	Revision No.	Issued for	By
24/02/2018	3.0	OceanaGold New Zealand Waihi Operations	R Squire

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EXECUTIVE SUMMARY

This report provides a review of the air quality monitoring programme carried out by OceanaGold New Zealand Limited (OGNZL) in and around Waihi, and related matters. The report is produced annually to provide a continuing record of the air quality performance of OGNZL. This report covers the 2017 calendar year and is produced in accordance with the Martha, Favona, Trio and Correnso Mines Air Quality Management Plan, 2016.

The information presented mainly relates to OGNZL's routine ambient air monitoring programme, which has been underway since 1982. The 2017 routine monitoring included measurements of total suspended particulate (TSP) and deposited particulate (DP) at 13 sites. There are 6 monitors for TSP and 10 monitors for DP.

Also, included in this report are quality assurance measures, the results of any additional air quality monitoring and complaints received, as required by the consent conditions.

The conclusions of the 2017 review are:

- No exceedences of the Mining Licence limits or breaches of the trigger levels occurred for TSPs or DPs during the year.
- OGNZL received five dust complaints during 2017 (*cf.* four in 2016). All of them were investigated promptly and mitigated where appropriate.

1. INTRODUCTION

In 2017, several Discharge to Air consents (Consent 971281 for the Martha Mine, Consent 109741 for the Favona mine, Consent 121447 for the Trio Mine) expired and were replaced by the one overarching 'Golden Link Project Area' Discharge to Air resource consent (Consent# 124859). Condition 14 of the consent states:

The consent holder shall provide to the Waikato Regional Council a written annual report each year that addresses at least the following:

- (a) A summary of the results of the monitoring required by this consent.*
- (b) Any environmentally important trends arising from the monitoring programme.*
- (c) Comments on compliance with all conditions.*
- (d) Any reasons for non-compliance or difficulties in achieving compliance with the conditions of this resource consent.*
- (e) Any works that have been undertaken to improve environmental performance or that are proposed to be undertaken in the up-coming year to improve environmental performance in relation to the activities included in this consent.*

This report is prepared to satisfy that requirement. In particular, it gives a review of the air quality monitoring programme carried out by OGNZL at Waihi. The review covers the 2017 calendar year with reference to earlier years as appropriate.

In June 2017, the site's Mining Licence was varied and conditions relating to air quality deleted (air quality regulation is primarily the role of the Regional Council). The limits specified in the licence still apply for part of the year and have been referred to where relevant.

This report also covers other air quality activities including other (non-routine) air quality monitoring, quality assurance measures and complaints received.

2. AIR RESOURCE CONSENT & AIR QUALITY MANAGEMENT PLAN

The site's Discharge to Air resource consent (Golden Link Project Area consent 124859) authorises OGNZL to discharge contaminants to the air from the surface project area, mine portal, and vent shafts. This consent requires that OGNZL develops an Air Quality Management Plan (discussed below) to address air quality objectives, management and monitoring; this plan is to be reviewed and updated at least once every two years. This report is in accordance with the 2016 Air Quality Management Plan which was approved by Waikato Regional Council (WRC) in May 2016.

The Air Quality Management Plan is the guiding document for air quality management at OGNZL, the contents of which are defined in the consent. If there is a conflict or inconsistency between the conditions of the consent and the provisions of the Air Quality Management Plan, the Discharges to Air resource consent shall prevail.

The Discharges to Air resource consent prescribes various process-type measures to reduce atmospheric emissions and assessments of environmental impacts. The resource consent also sets down the required content of this report.

A requirement of the Air Quality Management Plan is to specify air quality control measures. To meet this requirement OGNZL have adopted the concept of "trigger levels" as being ambient concentrations of air pollutants of concern, rather than ambient air quality guidelines that were more commonly used previously in air quality management. The trigger levels are set at about two-thirds the level of previous limits, and they are

recorded in the Air Quality Management Plan.

When the trigger levels are exceeded OGNZL is required to investigate and report on the reason for the high result and identify corrective action to prevent a repeat occurrence where possible. The ambient air “trigger levels” and “Mine Licence limit” specified in the Air Quality Management Plan are:

Table 1: Air quality levels& limits

	Total suspended particulate	Deposited particulate	Inhalable particulate (PM₁₀)
Sample period	7-day average	30-day average	24-hr average
Unit of measure	µg/m ³	g/m ² /month	µg/m ³
OGNZL trigger level	45	4	n/a
Mining Licence limit	100	5	55

3. ROUTINE MONITORING PROGRAMME

There are two types of dust measurement included in the routine ambient air monitoring programme; total suspended particulate and deposited particulate.

Although not part of the routine monthly/weekly monitoring programme, PM₁₀ and silica monitoring has in the past been done biennially. After years of data collection by both OGNZL and WRC (with results within accepted limits), monitoring for PM₁₀ and silica has been suspended, with a provision to reinstate the programme if considered necessary.

3.1 Monitoring Sites

Details of all 2017 dust monitoring sites are given in Table 1. During the calendar year, there have been a total of 13 sites in use for the routine monitoring programme (Figure 1).

Table 2: Description of 2017 Permanent Monitoring Sites

Site No	Description	Location	Total Suspended Particulate (TSP) and/or Deposited Particulate (DP)
6.59	Alexanders, Golden Valley	N of Devt Site	DP
6.60	Torrens, Golden Valley	N of mill	DP
6.61	OGNZL (Leaches), Grey St	NE of pit	TSP and DP
6.63	OGNZL Met Station, Barry Rd	SE of pit	TSP and DP
6.64	Court House, Haszard Street	S of pit	TSP
6.65	Moresby Avenue	SW of pit	TSP
6.66	Waihi College, Rata Street	W of pit	TSP and DP
6.70	Smith's Farm, Trig Road	E of Devt Site	DP
6.71	Morrisons Farm, Trig Road	SE of Devt Site	DP
6.72	Ruddock's Farm, Baxter Road	W of Devt Site	DP
6.74	Bulltown Road	N of pit	DP
6.75	TSF-East	E of Devt Site	DP
6.78	Cnr Grey & Slevin Streets	E of pit	TSP

NB:

1. Control sites at Katikati and Paeroa have been periodically installed, most recently in 2012/2013. Results have been similar to Waihi.
2. A comparison site has been monitored throughout 2017 at a location near Site# 6.70, with a view to decommissioning Site# 6.70 and replacing it with the compared site.



Figure 1: Waihi Dust Monitoring Sites

3.2 Quality Assurance

There are two aspects of the quality assurance programme – gas meter calibrations and balance calibrations.

- The TSP gas meters at the suspended particulate monitoring sites were replaced with new calibrated units on 30 June 2017.
- OGNZL's Precisa XT220A balance was calibrated on 22 May 2017. "Best accuracies" levels for the balance of up to 0.0009g were determined in the 0-40g calibration range. These are considered satisfactory.

3.3 Quality Control

Four TSP monitors were affected for various periods and reasons during 2017:

- A pole fuse fault stopped the pump for TSP6.66 (Rata St). Several weeks passed waiting for a third party to rectify the problem before OCNZL commissioned a repair.
- A suspected filter mix-up resulted in negative result for TSP sample (TSP6.78 (Slevin St), w/e 1 Dec 2017). This result was disregarded.
- One pump failed during the year and was replaced a week later with a serviced unit.

Three DP samples were influenced during the year. One sample bucket disappeared and had to be replaced the following month, and another sample was severely contaminated with bird droppings. A third sample indicated contamination from slugs/slime, but the result was still well within allowable levels and able to be reported.

4. SUMMARY OF RESULTS

4.1 Total Suspended Particulate

The results of the weekly TSP monitoring are given in Figure 2 and Appendix 1.

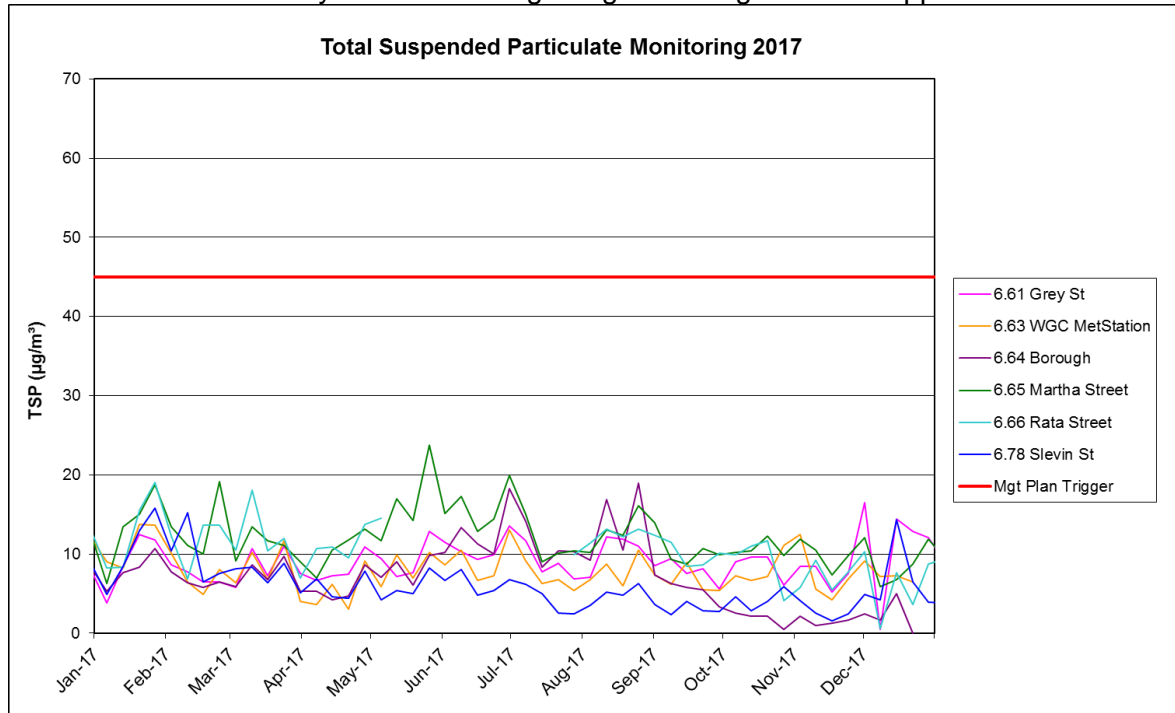


Figure 2: Total Suspended Particulate Results for 2017

No results exceeded the OGNZL TSP trigger level of $45 \mu\text{g}/\text{m}^3$, seven-day average during 2017. The highest recording during the year was $23.8 \mu\text{g}/\text{m}^3$ at the Martha St monitor. The average weekly reading across all sites was $8.7 \mu\text{g}/\text{m}^3$ (c.f. $12.1 \mu\text{g}/\text{m}^3$ in 2016).

4.2 Deposited Particulate

The results of the monthly DP monitoring are given in Appendix 2 and Figure 3.

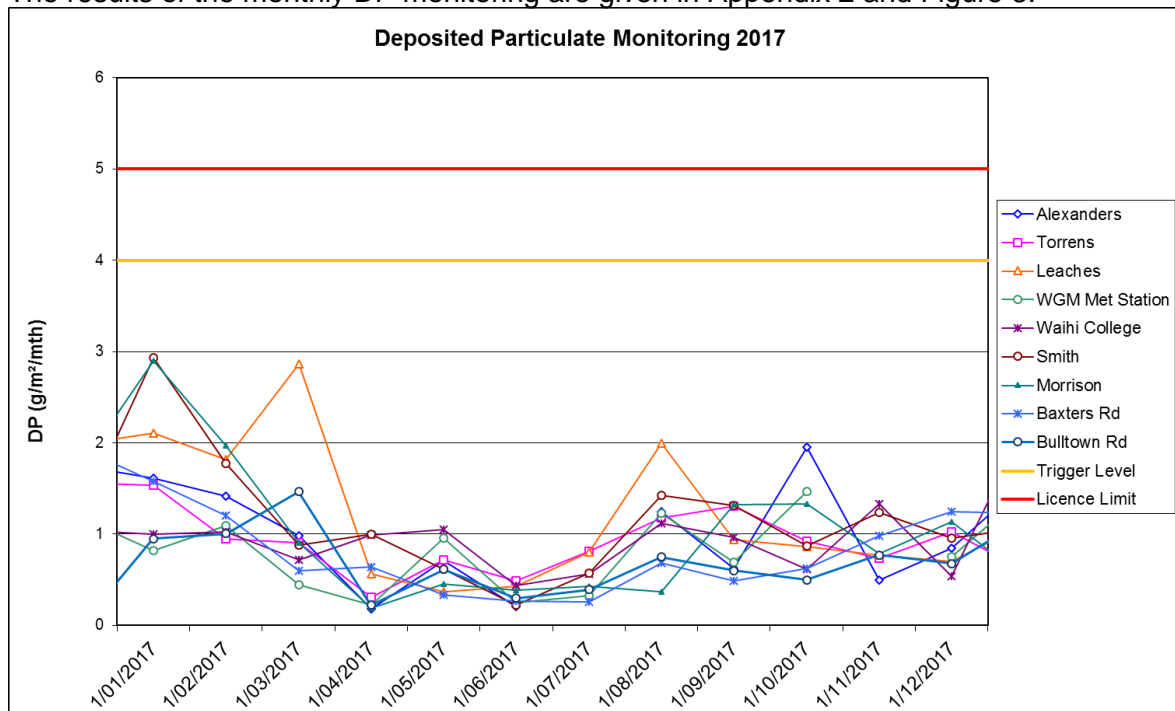


Figure 3: Deposited Particulate Results for 2017

The Mining Licence DP limit of 5 g/m²/month was not exceeded at any compliance location during 2017. The highest recording during the year was 2.92 g/m²/month at the Smith site. Overall the average monthly reading across all sites was 0.90 g/m²/month (c.f. 0.92 g/m²/month in 2016).

4.3 Trends

The criteria of air quality trigger levels have applied for 15 years and the dust concentrations appear to be below those trigger levels most of the time. It can be concluded that the air quality in and around Waihi is not deteriorating.

Figure 4 shows the long-term results of the TSP monitoring. The intermittent phases of recent active mining activities do not seem to have been reflected in corresponding changes in TSP levels, indicating that control measures during mining have been effective. Since 2005 the Waihi monitoring network has returned a range of 0.2 to 84.9 µg/m³ with an average of 12.7 µg/m³.

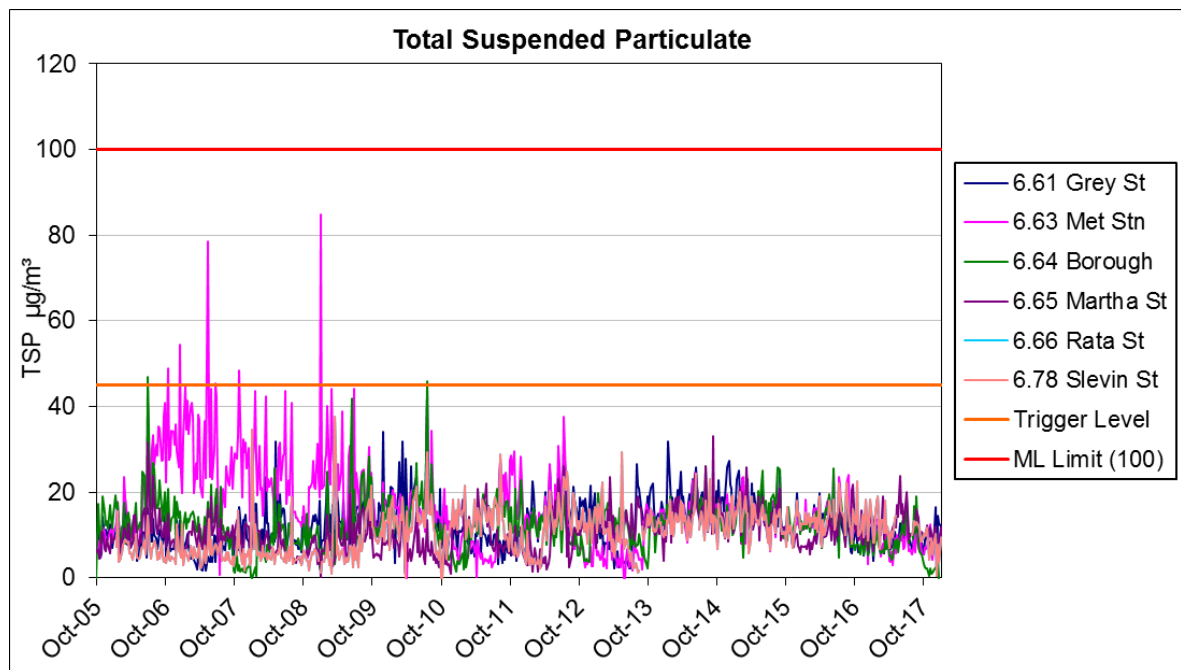


Figure 4: Total Suspended Particulate Trends 2005 to 2016

Figure 5 shows the long-term DP results from the Waihi monitors. The 2017 results compare well with results from the previous years (which range from 0.05 to 5.2 g/m²/month with an average of 0.95 g/m²/month).

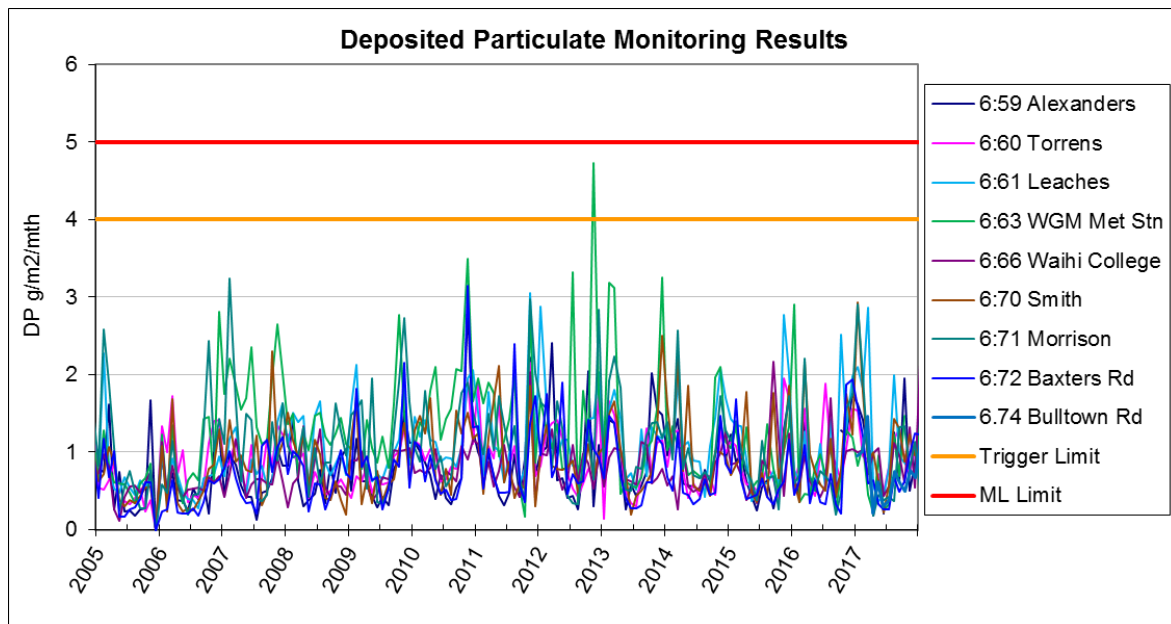


Figure 5: Deposited Particulate Trends from 2005 to 2017

4.4 Discretionary Deposited Particulate Monitoring

One discretionary monitor was in place in 2017.

- A bucket was maintained near the eastern side of TSF1A to compare data to the Smith's bucket. The revised Air Quality Management Plan submitted in October 2017 discussed the comparative data and proposed replacing the Smith's bucket with the new site.

4.5 PM₁₀ and Silica Monitoring

PM₁₀ and silica community monitoring was not conducted in 2017. With the suspension of production mining in the open pit, it has been agreed with WRC that PM₁₀ and silica monitoring can be suspended until such time that it is considered necessary.

5. COMPLIANCE WITH CONSENT CONDITIONS

5.1 Complaints

Complaints about dust, smoke and blasting odour are matters of concern to OGNZL. Five complaints regarding air quality were made by three complainants during 2017.

- One complaint was regarding breathing difficulties from poisons being let into the air from the mine. The complainant smoked, lived in a poorly ventilated cottage, and resided away from primary downwind directions from the mine; they were encouraged to seek GP advice.
- Three complaints were made by a resident regarding the fumes being emitted from blasting of the Martha North Wall. These occurrences were found to result from infrequent conditions (when blasting nearby, with specific wind conditions). Subsequent blasting was progressively more distant from the residence and the issue reduced.
- A further complainant was with a film of yellow dust settling over cars and outdoor furniture, and assumed that it came from the mine. When the issue was discussed with the complainant, they agreed that it was more likely to be pollen from nearby trees.

Complaints that were a result of mining activities were investigated promptly and mitigated where appropriate.

Details of any complaints or concerns received by OGNZL are recorded in a complaints/concerns register, along with information about any follow-up action. The register covers complaints on all operational matters, not just dust, and has been in use since 1987.

The number of complaints received about dust each year are recorded in the register and listed in Table 6.

Table 3: Dust Complaints Recorded in the Company's Register

Year	Number	Year	Number
1987	15	2003	5
1988	6	2004	18
1989	0	2005	2
1990	0	2006	3
1991	2	2007	8
1992	4	2008	7
1993	5	2009	5
1994	6	2010	6
1995	1	2011	26
1996	0	2012	11
1997	0	2013	10
1998	1	2014	5
1999	5	2015	7
2000	10	2016	4
2001	2	2017	5
2002	10		

5.2 Mitigation

The 2017 annual rainfall (2,419mm) was more than the historical average (2110mm). The spread through the year was atypical, with a wet early autumn and relatively dry winter (Figure 6).

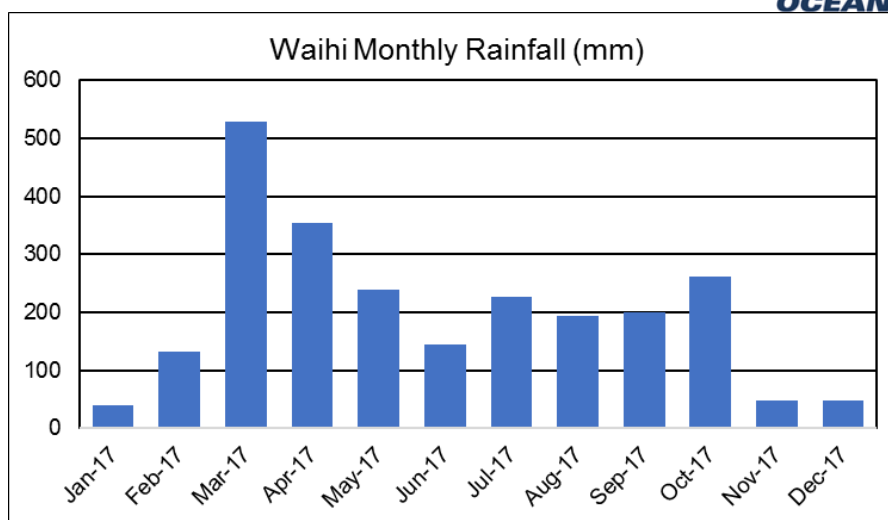


Figure 6: Waihi monthly rainfall 2017

The dry periods require OGNZL to be proactive with mitigating any dust emissions occurring from operating areas.

Actions taken to mitigate dust emissions, particularly during dry summer periods, included the use of the sprinklers, watering roads and high activity areas, and the use of irrigation spray systems on stockpiles. Speed restrictions on unsealed roads also reduced dust generation.

5.3.1 Hydro-seeding, tarsealing and rehabilitation

Tarseal repairs occurred on roadways around the processing plant and access road; no new areas were sealed.

No new areas of the TSF embankments were rehabilitated with topsoil/pasture during 2017. New areas of native trees planted included one small triangle above a haul road on TSF1A and six small screen belts along Barry and Golden Valley Roads (approximately 4400 seedlings planted).

Hydro-seeding was carried out on a relocated topsoil stockpile alongside Bulltown Rd (north of Martha Pit) and on completed clay batters in the upper areas of the Interim North Wall Remedial Cutback.

6. OTHER MONITORING

6.1 Personnel Monitoring

Personnel monitoring is also conducted by OGNZL Waihi Mine health & safety team under the guidance of a contract Hygienist as part of the site's occupational health programme. Staff from various departments across site are monitored for personal and atmospheric samples including respirable & inhalable dust, quartz silica, diesel particulate matter (elemental carbon), inhalable silver, gold and selenium, mercury vapour, weld fume, nitrogen dioxide, hydrogen cyanide, volatile organic compounds, ammonium, carbon monoxide, carbon dioxide and sulphur dioxide. No sampling was undertaken of open pit personnel in 2017 as the exposure was considered low level due to the limited (and relatively small) equipment in operation. Exceedances that have been measured have undergone an investigative process and statistical analysis is now part of the risk assessment for air quality. 278 personal air samples were achieved during 2017.

7. FUTURE MONITORING

7.1 Deposited and total suspended particulates

Ongoing operational activities followed by rehabilitation activities at Waihi will require dust control activities to be maintained and monitored for some time. There is no consideration for altering these programmes currently.

7.2 PM₁₀ and Silica

OGNZL has been undertaking biennial monitoring for PM₁₀ and silica and WRC also conducted a continuous monitoring programme for PM₁₀ from 2008-2011. Data has indicated that the mine is complying with standards and that Waihi is regarded as a 'complying airshed'. In consultation with WRC, it was agreed that PM₁₀ and silica monitoring can be suspended until such time that it is considered necessary. Future decisions will be based on any trends from the ongoing air quality monitoring programmes, as well as the implications of future mining activity. No production mining is currently being undertaken in the open pit and future mining opportunities are being evaluated.

8. REFERENCES

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Appendix 1: Total Suspended Particulate Monitoring Results 2017 (µg/m³)

AIR QUALITY							
TOTAL SUSPENDED PARTICULATE (TSP) RESULTS							
Co-ordinates refer to NZMS 260 T13 Paeroa							
All Measurements in µg/m ³							
Period Ending Date	Year	6.61 Grey St	6.63 WGC MetStation	6.64 Borough	6.65 Martha Street	6.66 Rata Street	6.78 Slevin St
6-Jan-17	7	3.9	9.0	5.3	6.3	8.3	5.0
13-Jan-17		8.4	8.2	7.6	13.4	8.3	8.4
20-Jan-17		12.5	13.7	8.4	15.0	15.5	12.9
27-Jan-17		11.8	13.6	10.7	18.8	19.1	15.8
3-Feb-17		8.6	10.2	7.7	13.4	12.3	10.4
10-Feb-17		7.8	6.5	6.4	11.1	6.9	15.2
17-Feb-17		6.4	4.9	5.8	10.0	13.6	6.5
24-Feb-17		6.5	8.0	6.5	19.1	13.6	7.6
3-Mar-17		5.8	6.4	5.9	9.1	10.5	8.1
10-Mar-17		10.7	10.2	8.7	13.5	18.1	8.4
17-Mar-17	1	7.3	6.8	6.8	11.7	10.4	6.4
24-Mar-17		11.0	11.7	9.7	11.1	12.0	8.8
31-Mar-17		7.5	4.0	5.3	9.0	7.0	5.1
7-Apr-17		6.7	3.6	5.3	7.0	10.7	6.8
14-Apr-17		7.2	6.2	4.3	10.5	10.9	4.6
21-Apr-17		7.5	3.1	4.7	11.7	9.5	4.4
28-Apr-17		10.9	9.2	8.6	13.2	13.7	7.9
5-May-17		9.4	5.9	7.1	11.7	14.6	4.2
12-May-17		7.2	9.9	9.0	17.0	G	5.4
19-May-17		7.7	6.9	6.1	14.3	G	5.0
26-May-17	0	12.9	10.2	9.8	23.8	G	8.3
2-Jun-17		11.5	8.7	10.2	15.1	G	6.6
9-Jun-17		10.4	10.5	13.4	17.3	G	8.0
16-Jun-17		9.4	6.7	11.3	12.8	G	4.8
23-Jun-17		9.9	7.3	10.0	14.4	G	5.4
30-Jun-17		13.5	13.1	18.3	20.0	G	6.8
7-Jul-17		11.7	9.1	14.1	15.0	G	6.2
14-Jul-17		7.7	6.2	8.4	9.1	G	5.0
21-Jul-17		8.8	6.8	10.4	10.1	G	2.6
28-Jul-17		6.8	5.4	10.3	10.4	9.9	2.5
4-Aug-17	2	7.0	6.7	9.3	10.2	11.4	3.5
11-Aug-17		12.2	8.7	16.9	13.1	13.2	5.2
18-Aug-17		11.9	6.0	10.5	12.4	12.2	4.8
25-Aug-17		11.0	10.5	19.0	16.1	13.1	6.3
1-Sep-17		8.5	7.4	7.4	13.9	12.4	3.7
8-Sep-17		9.4	6.2	6.3	9.3	11.5	2.4
15-Sep-17		7.5	8.9	5.8	8.7	8.5	4.1
22-Sep-17		8.2	5.5	5.4	10.7	8.6	2.9
29-Sep-17		5.6	5.4	3.3	9.9	10.1	2.8
6-Oct-17		9.0	7.3	2.6	10.2	9.9	4.7
13-Oct-17		9.6	6.7	2.1	10.4	11.0	2.8
20-Oct-17		9.6	7.2	2.1	12.3	11.7	4.1
27-Oct-17		6.1	11.1	0.5	9.8	4.1	5.9
3-Nov-17		8.4	12.4	2.2	11.9	5.7	4.1
10-Nov-17		8.5	5.6	1.0	10.5	9.2	2.5
17-Nov-17		5.2	4.2	1.2	7.4	5.5	1.5
24-Nov-17		7.6	6.9	1.6	9.8	7.7	2.5
1-Dec-17		16.5	9.1	2.4	12.0	10.3	M
8-Dec-17		0.5	7.2	1.6	5.9	0.6	4.2
15-Dec-17		14.5	7.3	5.0	6.8	7.6	14.3
22-Dec-17		12.9	6.5	A	8.8	3.6	6.5
29-Dec-17		12.1	11.5	T	11.9	8.7	3.9

Appendix 2: Deposited Particulate Monitoring Results 2017 (g/m²/month)

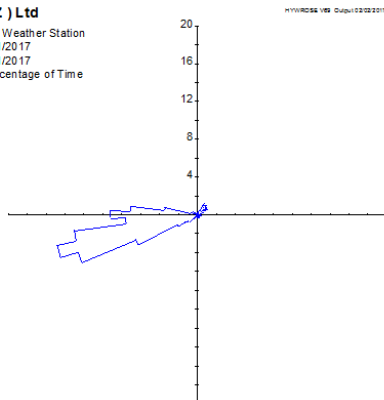
AIR QUALITY										
DUST DEPOSITED PARTICULATE (DP) RESULTS 2017										
		4 g/m ² /month	above trigger limit							
		>3 g/m ² /month	Near limit							
All measurements in g/m ² /month										
YEAR		Site 6:59	Site 6:60	Site 6:61	Site 6:63	Site 6:66	Site 6:70	Site 6:71	Site 6:72	Site 6:
		Alexanders	Torrens	Leaches	WGM Met Station	Waihi College	Smith	Morrison	Baxters Rd	Bulltown Rd
2017	Jan-17	1.6	1.5	2.1	0.8	1.0	2.9	2.9	1.6	0.9
	Feb-17	1.4	1.0	1.8	1.1	1.0	1.8	2.0	1.2	1.0
	Mar-17	1.0	0.9	2.9	0.4	0.7	0.9	0.9	0.6	1.5
	Apr-17	0.2	0.3	0.6	0.2	1.0	1.0	0.2	0.6	0.2
	May-17	0.7	0.7	0.4	1.0	1.0	0.6	0.5	0.3	0.6
	Jun-17	0.2	0.5	0.4	0.2	0.4	0.2	0.4	0.3	0.3
	Jul-17		0.8	0.8	0.3	0.6	0.6	0.4	0.3	0.4
	Aug-17	1.2	1.2	2.0	1.2	1.1	1.4	0.4	0.7	0.8
	Sep-17	0.6	1.3	0.9	0.7	1.0	1.3	1.3	0.5	0.6
	Oct-17	2.0	0.9	0.9	1.5	0.6	0.9	1.3	0.6	0.5
	Nov-17	0.5	0.7	0.8		1.3	1.2	0.8	1.0	0.8
	Dec-17	0.8	1.0	0.7	0.7	0.5	1.0	1.1	1.2	0.7

Appendix 3: 2017 Monthly Wind Roses, Waihi

Jan 17

Oceanagold (NZ) Ltd

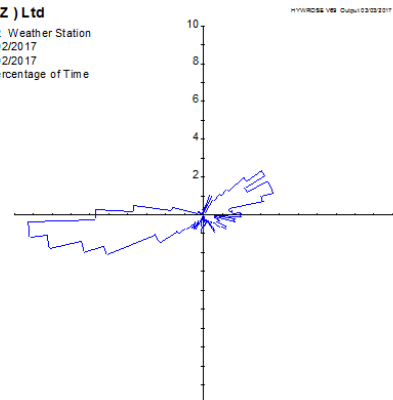
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End Time 00:00_31/01/2017
Wind Direction as Percentage of Time



Feb 17

Oceanagold (NZ) Ltd

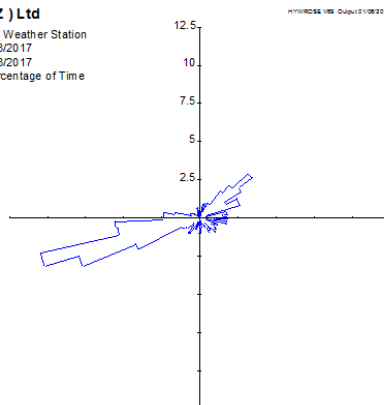
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End Time 00:00_28/02/2017
Wind Direction as Percentage of Time



Mar 17

Oceanagold (NZ) Ltd

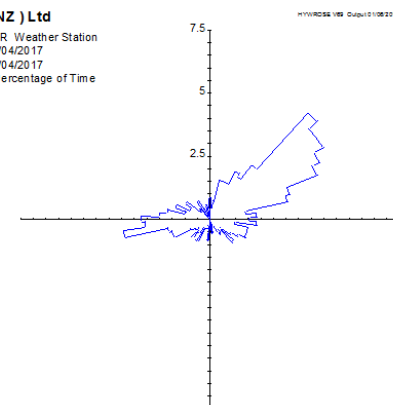
Site WEATHER Weather Station
Start Time 00:00_01/03/2017
End Time 00:00_31/03/2017
Wind Direction as Percentage of Time



Apr 17

Oceanagold (NZ) Ltd

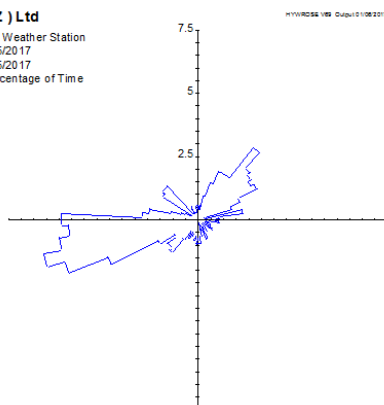
Site WEATHER Weather Station
Start Time 00:00_01/04/2017
End Time 00:00_30/04/2017
Wind Direction as Percentage of Time



May 17

Oceanagold (NZ) Ltd

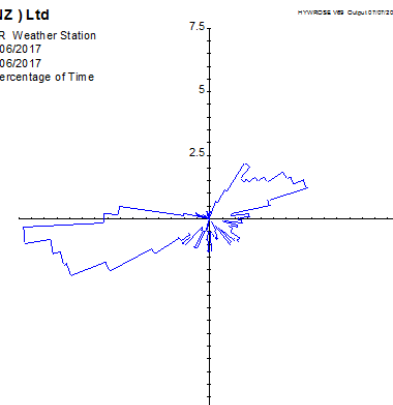
Site WEATHER Weather Station
Start Time 00:00_01/05/2017
End Time 00:00_31/05/2017
Wind Direction as Percentage of Time



Jun 17

Oceanagold (NZ) Ltd

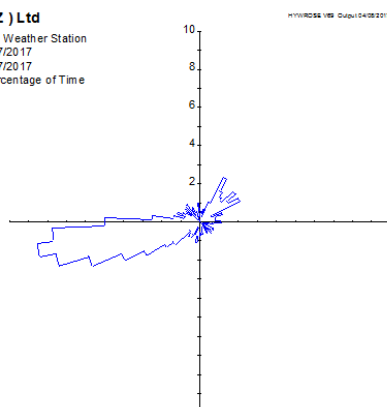
Site WEATHER Weather Station
Start Time 00:00_01/06/2017
End Time 00:00_30/06/2017
Wind Direction as Percentage of Time



Jul 17

Oceanagold (NZ) Ltd

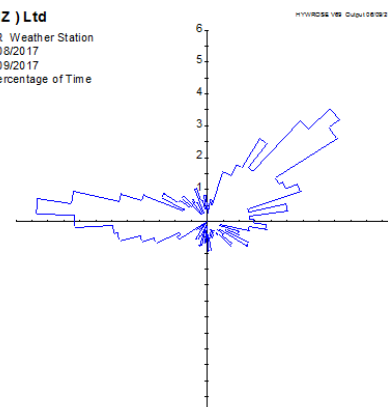
Site WEATHER Weather Station
Start Time 00:00_01/07/2017
End Time 00:00_31/07/2017
Wind Direction as Percentage of Time



Aug 17

Oceanagold (NZ) Ltd

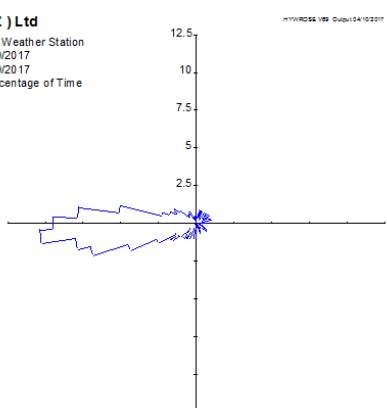
Site WEATHER Weather Station
Start Time 00:00_01/08/2017
End Time 00:00_31/08/2017
Wind Direction as Percentage of Time



Sep 17

Oceanagold (NZ) Ltd

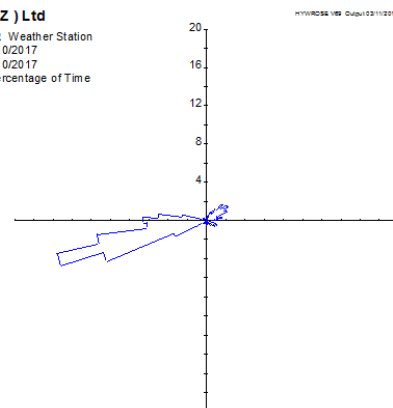
Site WEATHER Weather Station
Start Time 00:00_01/09/2017
End Time 00:00_30/09/2017
Wind Direction as Percentage of Time



Oct 17

Oceanagold (NZ) Ltd

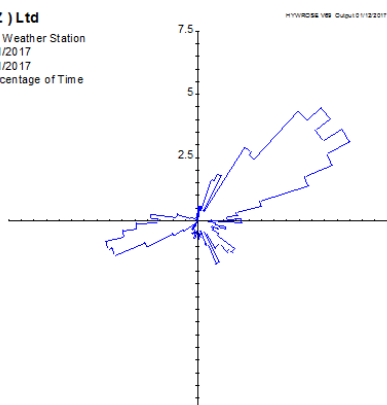
Site WEATHER Weather Station
Start Time 00:00_01/10/2017
End Time 00:00_31/10/2017
Wind Direction as Percentage of Time



Nov 17

Oceanagold (NZ) Ltd

Site WEATHER Weather Station
Start Time 00:00_01/11/2017
End Time 00:00_30/11/2017
Wind Direction as Percentage of Time



Dec 17

Oceanagold (NZ) Ltd

Site WEATHER Weather Station
Start Time 00:00_01/12/2017
End Time 00:00_30/12/2017
Wind Direction as Percentage of Time

