

# **Compliance Monitoring** Report

**Consent Holder** 

Ravensdown Fertiliser Co-

**Consent No** 

DP050561A

**Client Address** 

operative Limited Private Bag 6012

Site Address 808 Waitangi Road, Awatoto

Hawke's Bay Mail Centre

**NAPIER 4142** 

**Contact Name** 

**Kevin Gettins** 

Phone

(06) 834 1760

**Job Code** 

456-07

Mobile

021 900 292

**Activity Description:** 

**Consent Type** 

Discharge Permit

To discharge contaminants into the air from the operation of the company's fertiliser manufacturing plant at Awatoto, including the following processes:

- The manufacture of sulphuric acid,
- The manufacture of superphosphate fertiliser,
- The storage, blending and dispatch of bulk and bagged fertilisers and sulphuric acid,
- The receipt and storage (inside and outside) of raw materials and imported fertiliser,
- -□General site operations.

11-Nov-08	Monitoring Inspection	Officer	Jim May
10-Dec-08	Incident Inspection	Officer	Wayne Wright
08-Jan-09	Incident Inspection	Officer	Jim May
04-Feb-09	Monitoring Inspection	Officer	Jim May
13-Feb-09	Monitoring Inspection	Officer	Jim May
02-Mar-09	Monitoring Inspection	Officer	Jim May
04-Mar-09	Monitoring Inspection	Officer	Jim May
30-Mar-09	Monitoring Inspection	Officer	Jim May
24-Jun-09	Monitoring Inspection	Officer	Jim May

## 2008-2009 Statement of Compliance and Overall Grades:

**Grade Date** 

26-Jun-09

2

**Environmental Grade 2** 

Minor non-compliance

**Technical Grade** 

Minor non-compliance

### **Overall Comments:**

Non-compliance with Conditions 24 & 46 is the reason for full compliance not being achieved. Council is aware of the reasons why the consent holder has been unable to comply with these conditions.

Refer to back page for grading information

Condition No.	Type of Condition	Consent Condition a	and Compliance Assessment
1	Technical	and constructed to co	es relating to this resource consent shall be designed inform to the best engineering practices and at all times and serviceable standard.
-	Grade 1	Compliance	26-Jun-09
2	Technical		nall undertake all operations in accordance with any ns, statements of intent and other information supplied

Condition No.	Type of Condition	Consent Condition	and Compliance Assessment		
		as part of the application for this resource consent. If a conflict arises between any conditions of this consent and the application, the condition this consent will prevail.			
	Grade 1	Compliance	26-Jun-09		
3	Environmental	an offensive or obje	scharge of particulate matter (including dust) that causes ctionable effect beyond the boundary of the site. Inditions 6 to 13 does not automatically result in a condition.		
	Grade 1	Compliance	26-Jun-09		
4 Environmental			scharge of odour that causes an offensive or beyond the boundary of the site.		
	Grade 1	Compliance	26-Jun-09		
5 Environmental		noxious or dangero contaminants beyor adverse effects on l	y other condition of this consent, there shall be no us levels of gases, airborne liquid or other airborne and the legal boundary of the site, that are likely to cause numan health, ecosystems or property. Note: for the dition the term 'property' shall mean 'land and all assets		
	Grade 1	Compliance	26-Jun-09		
6	Environmental	the exception of ph	ls stored on site shall be kept in enclosed buildings, with osphate rock which must otherwise be securely se particulate being discharged into air.		
	Grade 1	Compliance	26-Jun-09		
7	Environmental	phosphate rock. An the Investigation an consent. Outside s	shall use its best endeavours to avoid outside storage of youtside storage shall be undertaken in accordance with d Management Plan, as required by Condition 67 of this torage, excluding the management of spills, shall only be rea to the south of the Acid Plant.		
	Grade 1	Compliance	26-Jun-09		
8	Technical	Consent Holder sha	days prior to the use of outside product storage the all notify the HBRC that product shipments will be arriving ored inside. Notification shall include the following:		
		a) A summary of wl	ny alternative covered storage is not possible		
		b) The product type	to be stored outside		
		c) The likely volume	e of product to be stored outside		

Condition No.	Type of Condition	Consent Condition and Compliance Assessment
		d) The estimated date of arrival and the time it will take to place product at the outside location
		e) Estimated duration that the product will be stored outside.
	Grade N	Not applicable 26-Jun-09
		No product has been stored outside.
9	Environmental	No outside unloading, pile forming or loading shall occur when average hourly wind speed exceeds 5 m/s. The wind speed shall be determined by an onsite meteorological station in accordance with Condition 42 of this consent.
	Grade N	Not applicable 26-Jun-09
		No product has been stored outside.
10	Environmental	The consent holder shall carry out the suppression of dust with use of water through various methods that include, but are not limited to, spraying with water cart or sprinkler system to minimise the discharge of all visible dust beyond the site boundary, particularly during the loading, transfer and stockpiling of product. The control of dust discharges from stockpile area shall include night-time and weekend hours.
	Grade 1	Compliance 26-Jun-09
11	Environmental	Notwithstanding Condition 10 the consent holder shall establish and maint an automated dust suppression sprinkler system that covers all outside storage piles, except for the working face while being worked, which will activate and remain operational for the duration of outside product pile storage, including unloading and loading. The sprinkler system shall have capacity in terms of volume and layout that will ensure adequate dampening down of the stockpile in all possible wind conditions.
	Grade N	Not applicable 26-Jun-09 No product has been stored outside.
12	Environmental	The consent holder shall ensure regular sweeping of yard and road areas using mechanical cleaning to minimise dust emissions.
	Grade 1	Compliance 26-Jun-09
13	Environmental	The consent holder shall ensure that the product storage pile does not exceed 4 m in height.
	Grade N	Not applicable 26-Jun-09
		No product has been stored outside.
14	Environmental	Except for discharges from the auxiliary boiler, furnace stack, economiser stacks and other minor vents, all discharges from the acid plant shall be vian emission stack with a height no less than 55 metres above ground leve

Condition No.	Type of Condition	Consent Condition a	and Compliance Assessment
	Grade 1	Compliance	26-Jun-09
15 Environmenta		plant stack shall not e	SO2 measured by continuous monitoring in the acid exceed 1.5 kg per minute (two minute average) and 60 average) at any time.
	Grade 1	Compliance	26-Jun-09
16 Environmental			dition 15, the combined discharge rate of SO2, SO3 sulphuric acid production process shall not exceed 60 , expressed as SO2.
	Grade 1	Compliance	26-Jun-09
17	Environmental	demonstrates complia	nuous SO3/H2SO4 in-stack monitoring system ance with Condition 18 at all times, sulphur ignition and for up to 4 hours after acid plant start up shall not occur:
			of 5:00 am and 10:00 am on clear still mornings when s than 2 m/s and there is no cloud; and
		b) when the wind dire	ction is between 030 and 155 degrees (onshore winds).
	Grade 1	Compliance	26-Jun-09
18	Environmental		11, the combined discharge rate of SO3 and H2SO4 from the sulphuric acid production process shall not
		a) 2 kilograms per ho	ur as a 1-hour average at any time.
		b) 0.5 kilograms per month period.	hour for at least 50% of fixed 1-hour averages in any 3
	Grade 1	Compliance	26-Jun-09
19 Environ	Environmental	emissions from the a consent shall be insta	and mist elimination system that reduces the acidity of cid plant to ensure compliance with conditions of this alled and commissioned within 12 months from the is consent, and shall be operated at all times that the g.
	Grade N	Not applicable	26-Jun-09
			October 2009. Council has received notice from the this date is un likely to be met.
	Grade		07-Jul-09
20	Environmental	that prior to Condition	he acid plant stack shall be clear at all times, except a 19 being satisfied, a visible white plume may occur politing sulphur in the case of a cold start up and within

Condition No.	Type of Condition	Consent Condition	and Compliance As	ssessment
		one hour in the case visible white plume r		After condition 19 is satisfied a
	Grade 1	Compliance	26-Jun-0	9
21	Environmental	Condition 46 has be discharge from the a H2SO4 expressed a	en commissioned an acid plant may contai as SO3 for up to 4 ho	4 monitoring system required by d until Condition 19 is satisfied, the n up to 150 mg/m3 at NTP SO3 / urs after igniting sulphur in the case case of a warm start up.
	Grade N	Not applicable	26-Jun-0	9
22	Environmental	installation of the tai from the acid plant s 155 (onshore winds	l gas scrubber as req shall not occur during	consent until 6 months after the uired by Condition 19 the discharge wind directions between 030 and s of September to May inclusive, al conditions occur
			d speed at 10 metres	e at 10 metres above ground level is above ground level is 3m/s or less
				e at 10 metres above ground level is above ground is greater than 3m/s
		meteorological conditions have operators shall be a above ground during careful observation discharge shall occudates, time periods operation ceases according to the condition of the condition	litions being detected we not occurred for a lerted when the meas g onshore winds (030 of meteorological cor ur during such conditi and meteorological c	O minutes of the above and shall not recommence until period of at least 30 minutes. Plant sured relative humidity at 10 m of 1-155 degrees) exceeds 90%, and aditions and the visible plume ons. A record shall be kept of the conditions when the acid plant tion. This record shall be provided annually.
	Grade 1	Compliance	26-Jun-0	09
	Grade		07-Jul-0	9
23	Environmental	the burner so that th	e discharge to air rat	cally shuts off the sulphur feed to te of SO2, SO3 and H2SO4 from the not exceed Conditions 15 and 16.
	Grade 1	Compliance	26-Jun-0	09
24	Environmental	2		
		install and operate a in order to detect fug	at least four ambient s gitive SO2 emissions	onsent the consent holder shall SO2 monitors around the acid plant . These monitors shall be located down's boundary. The concentration

Condition No.	Type of Condition	Consent Conditio	n and Compliance Assessment
		of SO2 in ambient	air shall be monitored continuously (at least every minute) analysis or an alternative method agreed to in writing by
		monitoring sites de described by Cond immediate action s concentrations are A record shall be k concentrations exc	ambient concentrations of SO2 measured at either the scribed by Condition 24(a) or the monitoring site ition 57 exceed 350 µg/m3 as a 10-minute average, hall be taken to ensure that measured SO2 reduced to less than 350 µg/m3 as a 10 minute average. ept of all occurrences when measured SO2 eed this limit and the corrective action taken. This record of the Council on request and otherwise annually.
	Grade 4		ction has been agreed to with Council, at this stage at the Winstone site has been installed. The
25	Environmental	Discharge from the metres above grou	e Auxiliary Boiler shall be via an emission stack of 15.8 nd level.
	Grade 1	Compliance	26-Jun-09
26	Environmental	The diesel oil burni per hour.	ing rate in the auxiliary boiler shall not exceed 580 litres
	Grade 1	Compliance	26-Jun-09
27	Environmental	maximum sulphur	and the pre-heater shall only burn diesel oil having a content of 0.005 percent by weight. Documents showing be provided to the Council on request.
	Grade 1	Compliance	26-Jun-09
28	Environmental	not be darker than	ssions from the auxiliary boiler and pre-heater stacks shall Ringelmann Shade 1 as determined in accordance with Standard 5201:1973, except for a period not exceeding two our of operation.
	Grade 1	Compliance	26-Jun-09
29	Environmental	accordance with C averaging time) in	of hydrogen sulphide (H2S) shall be measured in condition 50 and shall not exceed 7 µg/m3 (with a 1 hour the ambient air at or beyond the boundary of the premises sions from the consent holder's property.
	Grade 1	Compliance	26-Jun-09
30	Environmental	Discharges from e	ach den scrubber shall be via stacks with a height of no

Condition Type of No. Condition Consent Condition and Compliance Assessment		and Compliance Assessment		
		less than 38 metres above ground level.		
	Grade 1	Compliance	26-Jun-09	
31	Environmental	Discharges from the less than 36 metres	hygiene scrubber shall be via a stack with a height of no above ground level.	
	Grade 1	Compliance	26-Jun-09	
32	Environmental	discharged through e months of the comm an independent suita certifies that all nece system has been und the manufacturing pl possible. This ventila	the superphosphate manufacturing process shall be seither the den stacks or the hygiene stack. Within 12 encement of this consent a report shall be provided by ably qualified person (approved by the Council) that ssary remedial work to the ventilation and extraction dertaken such that fugitive contaminant emissions from ant building have been eliminated as far as practicably ation and extraction system shall be maintained and during the manufacturing of superphosphate.	
	Grade N	Not applicable Does not apply until	26-Jun-09 I October 2009	
33	Environmental		oncentration of fluoride measured at the RFC SW tion as detailed in Condition 54), shall not exceed 1.7	
	Grade 1	Compliance	26-Jun-09	
34	Environmental		concentration of fluoride measured at the RFC NW tion as detailed in Condition 54), shall not exceed	
	Grade 1	Compliance	26-Jun-09	
35	Environmental		te matter discharged from any Bradley mill shall not nill, and 2 kg/hr in total when two or more mills are in	
	Grade 1	Compliance	26-Jun-09	
36	Environmental	hygiene stack measi	ide compounds discharged from the den stacks and the ured in the samples taken in accordance with Condition oride on a one hour average basis, shall not exceed:	
		a) a maximum discharge rate of 1.5 kg/hr; and		
		b) 1 kg/hr in more th	an 50% of samples taken in any 12-month period	

Condition No.	Type of Condition	Consent Condition and Compliance Assessment	
	Grade 1	Compliance	26-Jun-09
37	Environmental	manufacturing plan commencement of hygiene stacks sha	n that reduces the acidity of emissions from the nt shall be installed such that after 3 months from the it this consent the pH of the condensate from the den and all be no lower than 2.7. The method by which the neasured shall be approved in writing by the Council.
	Grade 1	Compliance	26-Jun-09
38	Environmental	installed and main	er deluge system for the manufacturing den mixer shall be tained such that contaminant discharges are prevented in of the mixing process.
	Grade 1	Compliance	26-Jun-09
39	Environmental	consistently above the site is no more	the pH of the discharge from the manufacturing plant is 2.7, as required by Condition 37,when the wind speed at than 3 metres per second and the wind direction is degrees (i.e. on-shore) the manufacture of fertiliser shall ither:
		i) the temperature	at the site is less than 22 C; and
		ii) the manufacturi as Appendix "A"; o	ng stack plume is "OK" as indicated in the chart attached
		b)	
		i) the temperature	at the site is 22 C or more; and
		ii) it is daylight; an	d
		iii) the relative hun	nidity at the site is less than 70%; and
		iv) there is no fog;	and
		v) the manufactur as Appendix "A"	ng stack plume is 'OK' as indicated in the chart attached
			tion of manufacturing plant stoppages due to nditions shall be recorded. These records shall be buncil on request.
	Grade 1	Compliance	26-Jun-09
40	Environmental	Condition 54 shall horticultural produ	of fluoride in ambient air measured in accordance with not exceed 0.8 µg/m3 (7 day average) at areas used for ction (including Brookfields Orchard and Plumpton Park led in Condition 54)).

Condition No.	Type of Condition	Consent Condition and Compliance Assessment
	Grade 1	Compliance 26-Jun-09
41	Environmental	The evaporative cooling towers shall be regularly dosed with micro-biocides to maintain the concentration of the micro-biocide in the cooling water at the level recommended by the supplier that prevents the establishment of Legionella bacteria. Records shall be kept to demonstrate compliance with this condition and shall be provided to the Council on request.
	Grade 1	Compliance 26-Jun-09
42	Technical	The consent holder shall operate a meteorological data collection station in a location that reasonably represents meteorological conditions on the site. The station shall continuously record, wind speed, wind direction, temperature and relative humidity, and display them in real time in the manufacturing control room and the acid plant control room. The site location and the resolution, accuracy and averaging time of monitoring equipment shall be agreed in writing by the Council. All processed data shall be archived and made available to the Council on request.
	Grade 1	Compliance 26-Jun-09 It has been recommended that the weather vane pole be raised another 2 meters.
43	Technical	All sampling and surveys shall be carried out by an independent suitably qualified person, or by the consent holder or its representative where the Council has agreed to this in writing. Where the consent holder or its representative carries out testing or monitoring, an independent suitably qualified person shall audit the monitoring and testing methodology at least once per year, unless otherwise agreed in writing by the Council, and shall provide a written report describing the extent of compliance with the required protocol. A copy of this report shall be provided to the Council.
	Grade 1	Compliance 26-Jun-09
44	Technical	All analyses in accordance with conditions on the consent shall be carried out by an independently accredited laboratory to ISO/IEC Guide 25, or to the satisfaction of the Council (Manager: Regulation).
	Grade 1	Compliance 26-Jun-09
45	Technical	The consent holder shall continuously (i.e. at intervals not exceeding 1 minute) measure the rate of sulphur dioxide (SO2) discharge in the emissions from the acid plant stack. The method of measurement shall be in accordance with ISO7935:1992 (E) (Stationary source emissions — Determination of the mass concentration of sulphur dioxide — performance characteristics of automated measuring methods) or an alternative method, approved in writing, by the Council. Testing results shall be reported as a mass emission rate in units of kilograms per hour as both one minute and hourly averages.
	Grade 1	Compliance 26-Jun-09
46	Technical	Within 6 months of the commencement of consent a continuous in-stack

Condition No.	Type of Condition	Consent Condition and Compliance Assessment
		SO3/H2SO4 monitoring system shall be installed and operated to the satisfaction of the Council.
	Grade 4	Significant non-compliance 26-Jun-09
		The meter trialled proved not suitable to satisfy compliance with this condition. The consent holder has informed Council that it is searching to find an appropriate instrument
47	Technical	The consent holder shall measure the rate of discharge of the SO2, SO3 and H2SO4 in the emissions from the acid plant stack, at least twice per week. This monitoring shall be undertaken in accordance with USEPA Method 8 (Determination of sulphuric acid mist and sulphur dioxide emissions from stationary sources) or an alternative method that is approved, in writing, by the Council.
_	Grade 1	Compliance 26-Jun-09
48	Technical	The discharge rate of the total sulphur compounds obtained in accordance with Condition 47 shall be used in conjunction with the continuous record of sulphur dioxide obtained in accordance with Condition 45 to determine a continuous record of the rate of sulphur compounds discharged, expressed as SO2.
	Grade 1	Compliance 26-Jun-09
49	Technical	The consent holder shall measure the discharge rate of fluoride in the emissions from each of the den stacks and the hygiene stack, at least twice per week using wet chemistry methods. The measurement is to be carried out during superphosphate manufacture and no test may commence within one hour of starting acidulation. The method of measurements shall be in accordance with USEPA Method 13B (Total fluoride specific ion electrode) or an alternative method approved, in writing, by the Council (Manager: Regulation).
-	Grade 1	Compliance 26-Jun-09
50	Technical	Concentrations of hydrogen sulphide in ambient air shall be monitored continuously in accordance with the method of measurement (AS 3580.8.1 1990). The methods for sampling and analysis shall be automatic intermittent sampling - gas chromotographic method, or an alternate method approved in writing by the Council. The monitoring shall begin within 3 months of the date of commencement of this consent. The monitoring site shall be located at or about the southern boundary of the site, and in an area agreed to in writing by the Council. Results shall be reported as 1-hour averages.
-	Grade 1	Compliance 26-Jun-09
		The condition specified site is incorrect. The correct & approved location where this instrument has been installed is by the Archimedes E2846803N6175819
51	Technical	The rate of particulate matter discharged from each mill shall be measured at least once every 3 months. The method of sampling and analysis shall comply with US Environmental Protection Agency (USEPA) Method 5 or Method 17, ISO 9096:2003 or ASTM D3685-98, or a similar iso-kinetic method to the satisfaction of the Council. The testing time for each sample shall be two hours continuous, and at least three samples shall be collected.

Condition No.	Type of Condition	Consent Condition and Compliance Assessment	
		Results shall be adjusted to zero degrees Celsius, 101.3 kilopascals, on a dry gas basis, and as a mass emission from each stack expressed as kilograms per hour.	
	Grade 1	Compliance 26-Jun-09	
52	Technical	Pressure and particulate in the baghouses serving the Bradley mills shall be continuously monitored and recorded to detect broken bags in the Bradley mills. A central alarm system shall be operated to warn the plant operator of a bag breakage or any change in pressure that may indicate a broken filter bag. The bag filters serving the Bradley mills shall also be manually inspected on a regular basis and shall be replaced where the inspection reveals excessive wear. Records shall be kept of bag filter pressure, Bradley mill shutdowns, manual inspections and filter bag replacements. These records shall be provided to the Council on request.	
_	Grade 1	Compliance 26-Jun-09	
53	Technical	The pH of the condensate from the den scrubbers and the hygiene scrubber stacks shall be measured at least twice each week. The method by which the condensate is to be measured shall be approved in writing by the Council.	
_	Grade 1	Compliance 26-Jun-09	
54	Technical	The consent holder shall continuously measure ambient fluoride, in accordance with the monitoring plan required by Condition 68 and based on 7-day filter exposures and results reported as average concentration (µg/m3) over that 7-day sample period. Measurements shall be taken at no less than five sites, within 4 km of the plant, including those listed below.	
		Site Easting/Northing	
		(NZMS:V21)□□	
		Direction from den stack (NZMS:V21)□□	
		Distance from den stacks (m)□□	
		Brookfields Orchard	
		2845270 6174882 🗆 🗅	
		WSW 🗆 🗆	
		2520□□	
		מס	
		Plumpton Park	
		2844886 6177027 🗆 🗆	
		WNW D D	
		2010	

Condition No.	Type of Condition	Consent Condition and Compliance Assessment  RFC SW monitoring site	
		2846500 6175782 🗆 🗆	
		WSW	
		300□□	
		RFC NW monitoring s	ite
		2846730 6176142 🗆	
		WNW 🗆 🗆	
		187□□	
		Winstone Aggregates	
		2846946 6176226 🗆	
		<b>NNE</b> III	
		280□□	
		The location of the sit Council (Manager: Re	es may be modified with the written approval of the egulation).
		[Note: Approval from operation of monitors	property owners/occupiers for the placement and is required]
72	Grade 1	Compliance	26-Jun-09
55	Technical	Ambient fluoride (F) measurement undertaken in accordance with Condition 54 shall occur at a height of 2.4 metres above ground level with no obstruction above 2 metres high in the direction of the RFC plant for 50 metres, unless otherwise approved in writing by the Council (Manager: Regulation).	
	Grade 1	Compliance	26-Jun-09
56	Technical	The consent holder shall ensure ambient fluoride (F) measurement is undertaken in accordance with AS3580.13.2 – 1991 (Method 13.2: Determination of fluorides – Gaseous and acid soluble particulate fluorides – Manual, double filter paper sampling) or an alternative method approved, in writing, by the Council.	
-	Grade 1	Compliance	26-Jun-09
57	Technical	Concentrations of sul	phur dioxide in ambient air shall be monitored

Condition No.	Type of Condition	Consent Condition and Compliance Assessment			
		continuously according to the method of measurement ((AS3580.4.1 – 19 Method 4.1: Determination of sulphur dioxide – direct reading instruments method), or an alternative method agreed to in writing by the Council. The monitoring shall begin within 3 months of commencement of this consent The monitoring site shall be located at or about the southern boundary of Winstones site, to the southeast of the den stacks, and in an area agreed in writing by the Council prior to establishment. Results shall be provided 1 hour and 24 hour averages. Any exceedance of the NES for SO2 shall reported as soon as it is known.			
_	Grade 1	Compliance 26-Jun-09			
58	Technical	Concentrations of PM10 in ambient air shall be monitored continuously according to a method of measurement that complies with the monitoring requirements in the National Environmental Standards (Relating to Certain Air Pollutants, Dioxins, and Other Toxics) Regulations 2004, or an alternative method agreed to in writing by the Council (Manager: Regulation). The monitoring shall begin within 3 months of commencement of this consent. The monitoring site shall be located at or about the southern boundary of the Winstones site, to the southeast of the den stacks, and shall be agreed in writing by the Council prior to establishment. Results shall be provided as a 24 hour average. Any exceedance of the NES for PM10 shall be reported as soon as it is known.			
_	Grade 1	Compliance 26-Jun-09 Council is discussing the possibility of moving this instrument to another site. This instrument will then become the monitor for the Awatoto Air Shed.			
59	Technical	Continuous monitoring of total suspended particulate matter shall be undertaken at two locations at all times that bulk material is stored outside. The monitoring sites shall be at the eastern boundary at a location most affected by bulk material dust discharges and at a reference location at the northern end of the site. The monitoring shall have an averaging period of 24-hours or less and the method of monitoring shall be approved in writing by the Council. Monitoring results shall be provided to the Council within two months of the cessation of bulk material storage and otherwise at least annually.			
	Grade N	Not applicable 26-Jun-09 No product stored outside.			
60	Technical	Within 12 months of the commencement of this consent the consent holder shall provide a suitable methodology that will measure acid deposition at no less than two sites in horticultural areas within 4 km of the plant. The deposition monitoring protocol shall be agreed to in writing by the Council prior to the commencement of monitoring.			
_	Grade N	Not applicable 26-Jun-09 Methods being developed			
61	Technical	The consent holder shall undertake a survey every two years of the effects of fluoride etching on all properties (where the owner accepts the offer of a survey) within 1 kilometre of the site using the methodology outlined in the BRANZ report DCZ059 (25 June 2004). Any windows found to be affected to 'pen test level 3' or where Light Gloss Units (LGU) are equal or less than 115 as described in BRANZ report DCZ059, shall be replaced by the consent holder if the property owner wishes the glass to be replaced.			

consent holder if the property owner wishes the glass to be replaced.

Condition No.	Type of Condition	Consent Condition and Compliance Assessment  Not applicable 26-Jun-09  Does not apply until 2010			
_	Grade N				
62	Technical	The consent holder shall advise the Council at least 24 hours in advance of a planned warm or cold start up of the acid plant. The Council shall be advised of the time when sulphur will be ignited and the person in charge of the procedure.			
_	Grade 1	Compliance	26-Jun-09		
63	Technical	At monthly intervals the consent holder shall provide the Council with copies of all information (including test results, reports and records) required to be collected in accordance with the conditions of this consent during the previous month, unless the condition specifically allows the information to be provided at a different interval. This information shall be provided in a report format, and shall comment on site performance and compliance with consent conditions.			
_	Grade 1	Compliance	26-Jun-09		
64	Technical	The consent holder shall produce a report every year (the 'annual report') that presents and summarises all information on the monitoring required by this consent. The report shall include, but not necessarily be limited to:			
		a) quantification of and assessment of the impact of discharges of dust, PM10, SO2, fluoride and acidic compounds			
		b) the fluoride and foliar monitoring report			
		c) the impact of odour and H2S discharges from the site			
		d) a description of any potential and actual effects that have been identified			
		e) identification of trends of monitoring information			
		f) a summary of system modifications			
		g) recommendations for system improvements			
		h) the monthly fluoride content of phosphate rock blends.			
		The annual report shall be based on a July to June year and provided to the Council before 31 October each year.			
-	Grade N	Not applicable Does not apply unt	26-Jun-09 il October 2009		
65	Technical	The consent holder shall log all complaints received directly from the public. The log shall include the date, time, and nature of the complaint and the telephone number, and address of the complainant (as provided), weather information (including an estimate of wind speed and direction), details of key operating parameters at the time of the complaint and the remedial action taken, as appropriate, to prevent further incidents. Complaints shall be reported to the Council within 12 hours of receipt and the log of complaints shall be made available to the Council on request.			
	Grade 1	Compliance	26-Jun-09		

* .	Condition No.	Type of Condition	Consent Condition and Compliance Assessment
	66	Technical	The consent holder shall undertake a vegetation monitoring programme that has been approved by the Council in accordance with Condition 68 of this consent, and the programme shall provide for the following matters:
			a) A visual assessment of vegetation
			b) A determination of foliar fluoride concentrations
			c) The timing of the vegetation monitoring programme (which shall occur during the months of September to May inclusive for the duration of the consent, unless otherwise agreed in writing by the Council)
			d) The monitoring methodology which shall be agreed in writing by the Council
			e) The location of any monitoring, including but not limited to the following sites:
			Site Location
			Site Easting/Northing (NZMS:V21)□□
			Brookfields Orchard, Kings Road □□
			2845407 6175251 🗆 🗆
			Plumpton Park Orchard, Awatoto Road □□
			2844864 6177075□□
			Simkin Orchard, Awatoto Road □□
			2844899 6177531 □ □
			Steiner Apollo Orchard, Willowbank Road □□
			2845130 6177681 🗆
			Apollo Orchard, Tannery Road □□
			2843161 6178732 🗆
			Mr Apple Orchard, Meeanee Road □□
			2843358 6177127 🗆 🗆
			Johnny Appleseed Orchard, Meeanee □□
			2844016 6174605 🗆 🗆

Condition No.	Type of Condition	Consent Condition and Compliance Assessment	
		Wells Orchard, McLeod Road □□	
		2845551 6176688□□	
		Dewer Orchard, Awatoto Road □□	
		2845361 6176994□□	
		Provided that the location of the monitoring sites may be modified as appropriate with the written approval of the Council (Manager: Regulation).	
		f) The requirement for the initial crop assessment to be completed within 12 months of the commencement of this consent.	
		g) The requirement for the consent holder to provide a report to the Council upon the completion of the first two years of vegetation monitoring, to determine whether the monitoring programme may be amended or modified as necessary	
		Provided that any amendments to the monitoring programme shall only occur with the written approval of the Council.	
_	Grade 1	Compliance 26-Jun-09	
67	Technical	The consent holder shall prepare and submit to the Council for approval within two months of the date of commencement of this consent, a Management Plan that details how all discharges to air from the site and their effects shall be measured, assessed and managed. The Management Plan shall be complied with at all times during the exercise of this consent, and shall include but not be limited to the following matters:	
		a) Dust including particulate	
		b) Outside phosphate rock storage	
		c) Sulphur dioxide	
		d) Acidic discharges	
		e) Fluoride	
		f) Odour	
		The Management Plan shall specify all actions necessary to ensure ongoing compliance with all conditions of this consent. The consent holder shall update the Management Plan at least once every two years, and otherwise where necessary, with the written approval of the Council.	
_	Grade 1	Compliance 26-Jun-09	
68	Technical	The consent holder shall prepare and submit to the Council for approval	

Condition No.	Type of Condition	Consent Condition and Compliance Assessment
		within two months of the date of commencement of this consent, a Monitoring Plan that monitors the impact of discharges to air from the site. The Monitoring Plan must be complied with at all times during the exercise of this permit, and shall include but not be limited to the following matters:
		a) Manufacturing stack monitoring requirements
		b) Acid plan stack monitoring requirements
		c) Dust monitoring requirements
		d) Ambient SO2, particulate matter and H2S monitoring
		e) Off site ambient fluoride monitoring requirements
		f) Off site crop fluoride monitoring requirements
		g) Sampling methods
		h) Analytical methods
		i) Reporting requirements
		j) Sampling locations
		k) Sampling frequencies
		I) Auditing and peer review.
		The consent holder shall update the Monitoring Plan at least once every two years, and otherwise where necessary, with the written approval of the Council.

26-Jun-09 The consent holder has decided that is monitoring will be reported on

Grade 1

Compliance

annually.

## **Grading Information**

Each consent condition has been classified as either a Environmental or Technical condition.

#### **Environmental conditions:**

Environmental conditions set standards/performance limits for a resource consent, or, mitigates an environmental impact of exercising a resource consent.

Examples of environmental conditions are:

- Installation of up-gradient cut-off drains/ placement of disposal fields
- Dvolume limits of discharges
- Dwater take rates and maximum volumes
- Discharge or receiving water contaminant limits

#### Technical conditions:

Technical conditions sets out technical requirements that allows a consent holder to demonstrate or measure that they meet the Environmental performance required by a resource consent, or help specify the activity authorised.

Examples of technical conditions are:

- sampling effluent/ recording discharge volumes / collating\_submitting data
- providing of reports/ plans/ designs specifications
- Inotifications, accreditation, authorities submissions for approval by ER Manager
- Dinstallation and maintenance of a water meter

You need to comply with all conditions regardless of whether it's a Environmental or Technical condition.