

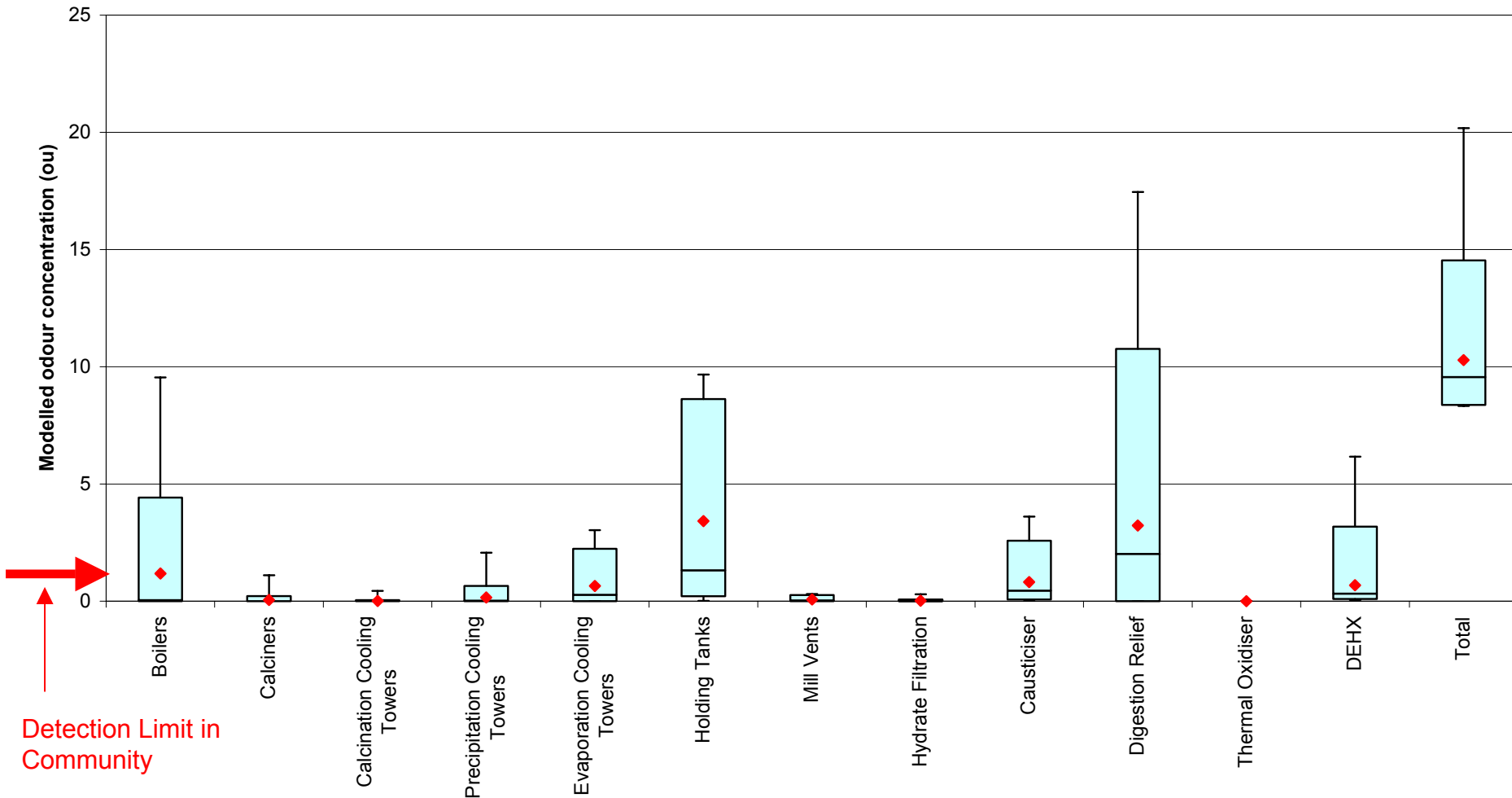


Odour

- Survey complete
- Further focus areas determined
- Resources allocated
- Pre-feasibility studies commenced



Contribution from each Point Source to Highest Odour Concentration in Community for top 2% of Time or 350 hours/year





Focus areas

Impact Ranking	Community	Workplace
Relief Tanks	1	4
Holding Tanks	2	3
Causticiser	3	1
Evap. Heat Ex.	4	2
Clarif. W W Tanks		5



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Relief tanks



Holding tanks



Wash water tanks



Safer. Cleaner. Better.



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Causticiser



Evaporation Heat exchangers



Safer. Cleaner. Better.



Pre-feasibility Considerations

- Treatment options (root cause / end of pipe)
- Degree of technical difficulty / risk
- Time to implement
- % Odour reduction
- Ability to secure an economic / other environmental advantage
- Relative impact in community and workplace
- Capex
- Opex

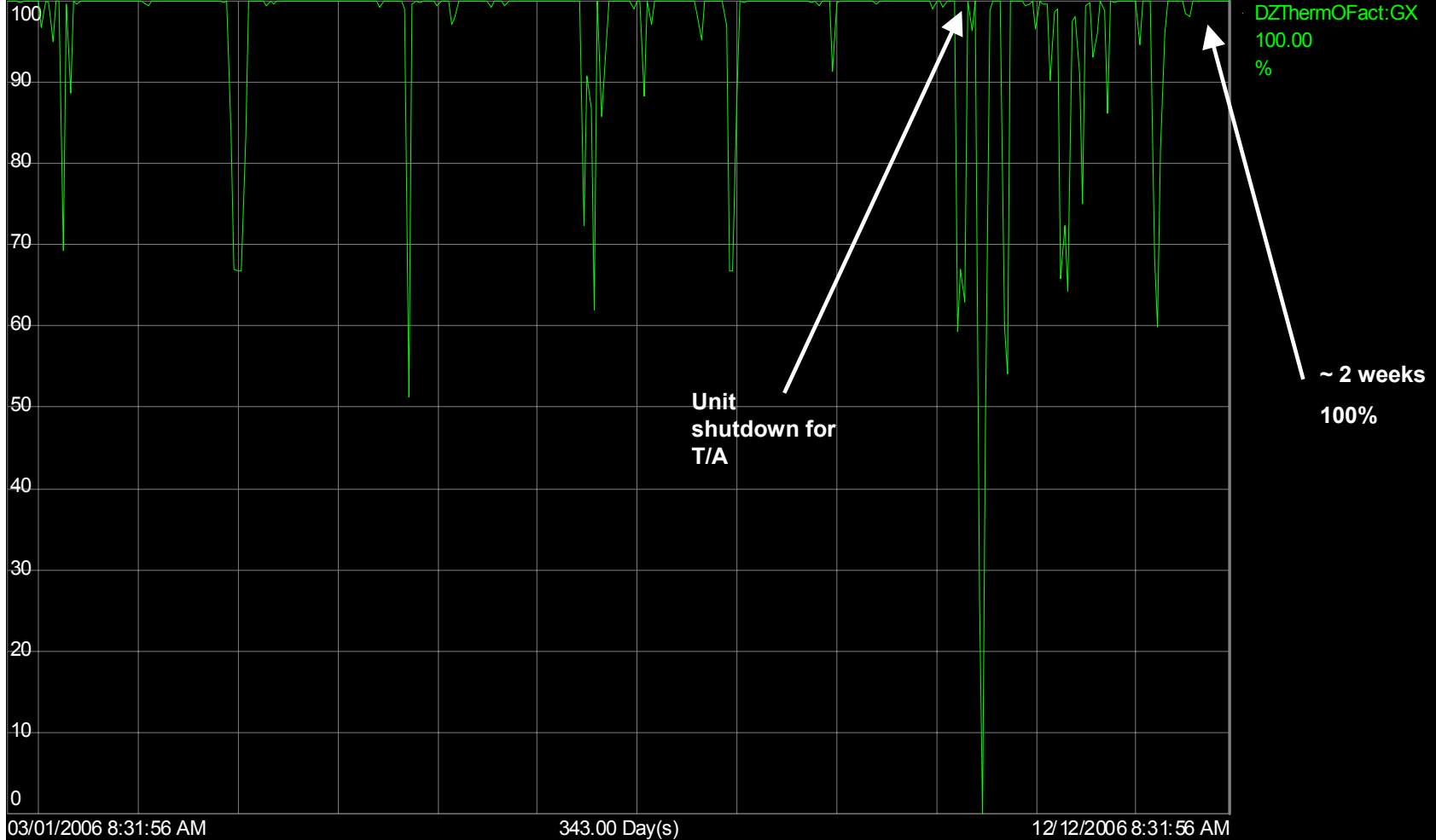


Project timeframes

- Current pre-feasibility engineering study complete Q1 2007
- Feasibility study complete Q2 2007
- Definitive study on selected options from feasibility from Q2 onwards



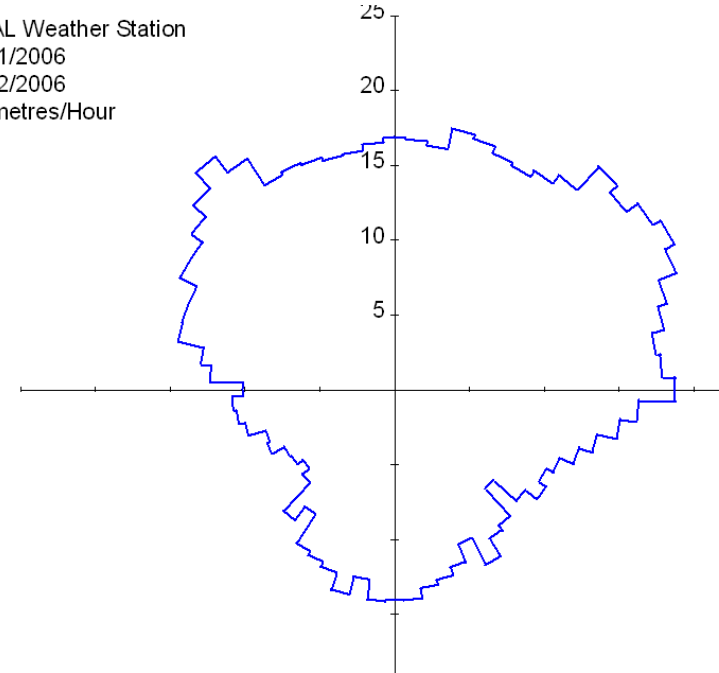
Thermal Oxidiser Operating Factor



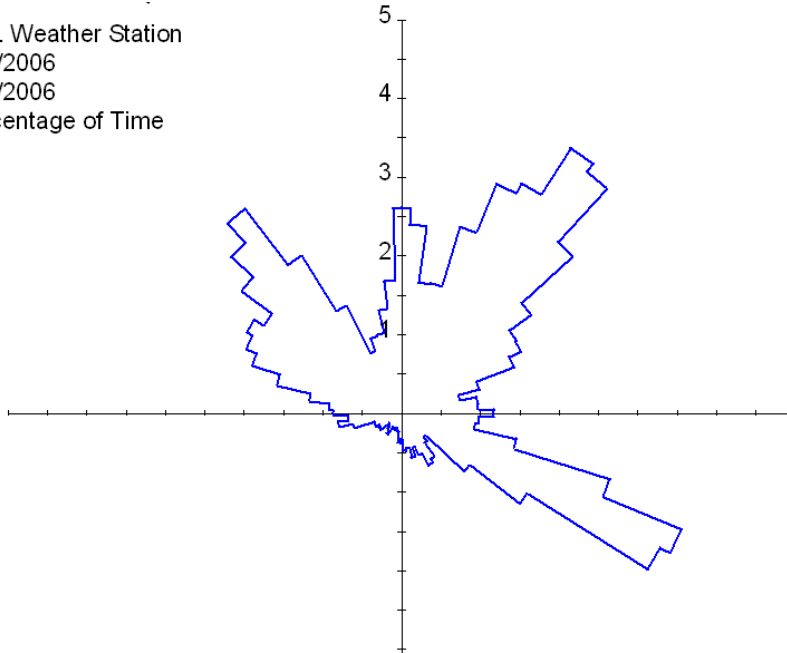


November 2006

Site 330406 QAL Weather Station
Start time 00:00_01/11/2006
End time 00:00_01/12/2006
Wind Velocity in Kilometres/Hour

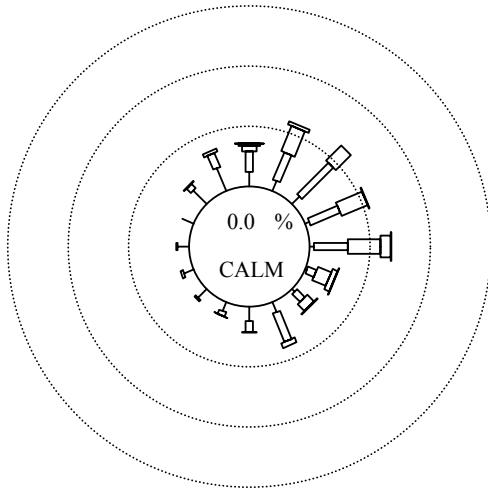


Site 330406 QAL Weather Station
Start time 00:00_01/11/2006
End time 00:00_01/12/2006
Wind Direction as Percentage of Time





Spring 2002



No. of Records :- 2184

ALL HOURS

.1	2.1	4.1	6.1	8.1	>10
TO	TO	TO	TO	TO	
2	4	6	8	10	
WIND SPEED m/s					
% FREQUENCY					
WIND ROSES					
C:\jobs\2179\2179 WINDROSE DATA 2001&2002.txt					
Period: 9/2002 to 11/2002					
JOB NO.2179					
PACIFIC AIR & ENVIRONMENT					



Alkali

- EMP Projects
 - Tertiary tank hose out (moon buggy)
 - Monitoring
 - SSST and PFT covers
 - Holding tank – chevron vanes



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“Moon buggy”



Holding tank

Safer. Cleaner. Better.



Dust

- [EPA Monitoring Station](#)
- QAL monitoring:
 - TEOM
 - Dust track – [Barney Point](#) & [One Tree hill](#)
- PM10 and total particulates only