

MINUTES OF THE QENOS ENVIRONMENT MONITORING TEAM MEETING HELD

WEDNESDAY 17th Jun 2015

Present:

Resident EMT	Qenos
members	1 m
Chris Ryder	Rob Berton: SHE Manager (Chair)
	Les Harman: Senior Environmental Adviser (Secretary)
	Alan Findlay: Environmental Health Coordinator
	Duncan Laslett: Olefins Operations Manager
Apologies	Kathryn Mc Donald: Acting Plastics Operations Manager
Judy Hindle	Andre Olszewski Resins Operations manager
Dominique Dybala	Bruce Gunn Olefins: SHE Coordinator
Kimberley Foss	
Melinda Corry	
Valerie Gemmel	CWW
Troy Ryan	Ding Chan

1. Introductions

Rob opened the meeting @18:10 with a round the room self- introduction by all attendees.

2. Review of 2015 EAP action status

The 2015 EAP status was distributed with the meeting agenda. All active items were discussed with the following points noted.

- Item 6.22 New enclosures fitted and as effective as older ones. Utilising acoustic cameras to identify further enhancements.
- Item 6.23 & 6.24: RX2 new gearbox fitted and is quieter. RX1 gearbox is being manufactured overseas. Depending on delivery date and production schedules installation may carry over into 2016.
- Items 7.9 & 7.11 to improve seals at the ETP were completed during the recent ETP clean.
- Items 10.33 to 10.38: Are all on scheduled to be completed by year end.

3. Incident Review

Olefins site has had one low risk incident relating to sulphides level in trade waste marginally exceeding the trade waste licence limits. A report will be distributed to EMT members

4. **PSV graph**. (Pressure Safety Valve)

Duncan Laslett presented the PSV graph. There was once PSV lift since the last meeting on the sour water system to the plant sewer. (Copy attached to minutes)

5. Community Complaints

Alan Findlay presented the complaints.

- There was one complaint for effluent treatment plant odour on 11th May accepted based on the waste water plant activity at the time. The odour was not detected during the site investigation.
- Two noise complaints were classified as plausible complex on 24th and 28th May. No specific
 noise sources identified however it is considered probable that the normal operational noise of the
 plants contributed to the reported noises.

6. Noise monitoring report

A presentation summarising the community noise monitoring at Charles Road and Galvin Street was presented by Les. (Copy of presentation attached to the minutes). The historical data from 1999 to 2004 from the Charles Road noise meter has been adjusted down 2 dBA to allow direct comparison with the monitoring data from 18 Charles Road data collected since 2012. The North end of Galvin St data has been collected in the bus yard immediately North of Galvin since March 2014.

The noise data presented still has significant variations in particular Galvin St even with the data filtered for wind conditions and time of day. Other ambient conditions such as temperature and in particular temperature inversions are known to have significant impacts on sound propagation. More detailed analysis of the data is required to verify the noise EIP reductions in community noise. The first Noise EIP report is due in December 2015 will include further analysis to clarify this.

7. Odour Audit Results.

The odour audit was held on Saturday 13th June at the Olefins site. Four community representatives attended three of them for the first time.

Alan gave a presentation (copy attached) which gave an overview of the odour audit.

An odour calibration process using Pocket smell test cards and four site samples confirmed that all participants didn't have anosmia but did have varying levels of odour sensitivity which was also evident in the rankings at the plant locations.

The audit visited 18 sites and each participant gave a relative ranking of odour on a 0-10 scale for each site. The average ratings of the participants varied from 3 to 5 with an overall average rating of 4 up slightly from 3 in 2014.

Two of the community participants noted that they were familiar with odour at the effluent treatment plant having smelt it at their residences occasionally.

A decision was made to cancel the visit to Resins as the Olefins site audit had used up all the time available.

8. Community Alarm

Rob Berton outlined the process that he was using to evaluate the upgrade of the community alarm from the current siren to the phone alert system.

9. Injury Performance update

Rob noted that we had had two injuries since the March EMT.

- A tooth was chipped when a battery drill being used in the Resins cooling tower bit and the drill rotated hitting the operating in the face.
- A laceration to the knee with jigsaw being used to cut plywood for formwork. The
 operator's overalls were intact however the jigsaw still lacerated the skin beneath.

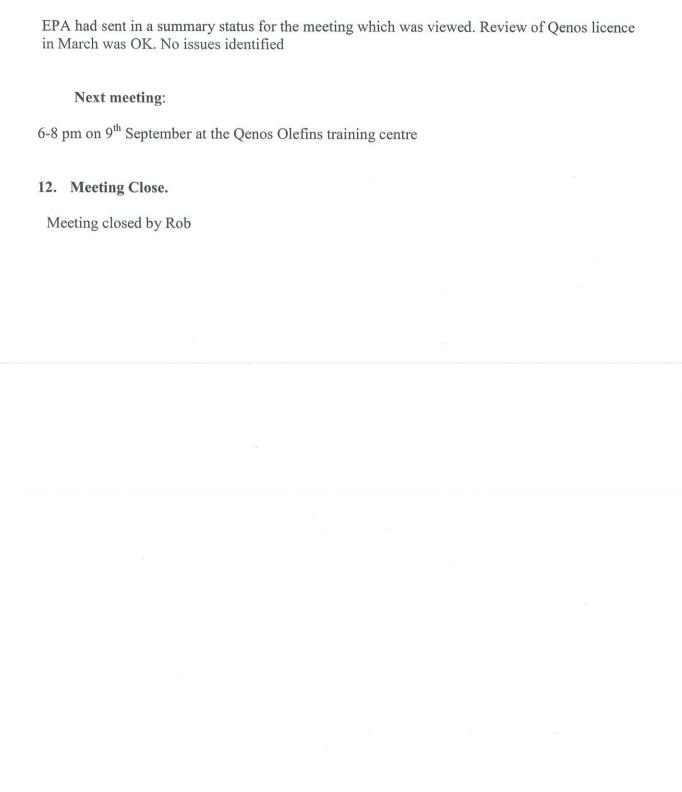
Ding enquired about whether the work was being completed under a JSA which Rob affirmed. Qenos is analysing how we manage tasks with the minor contractors.

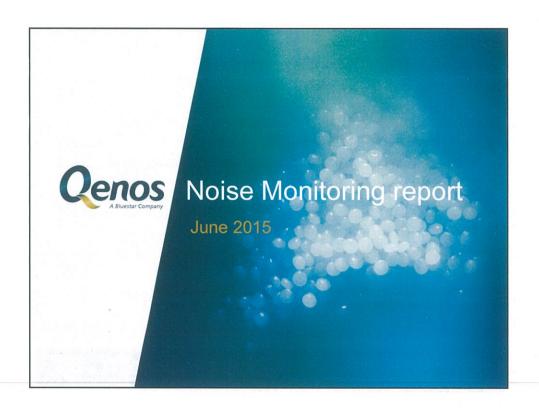
10. Environmental News

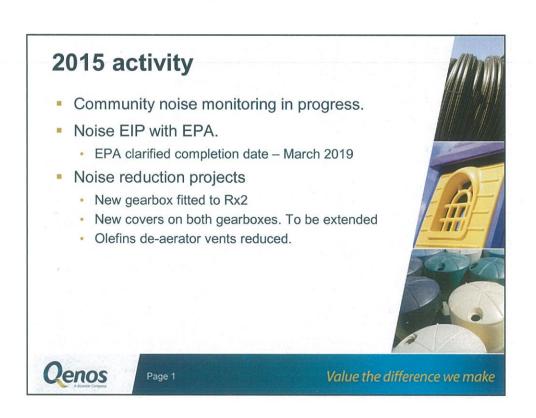
The following was briefly described by Les

- A review of the EPA along with terms of reference has been announced by the state government.
- EPA is still planning to trial the Earned Autonomy pilot which may be a model that replaces the Accredited licence system. Trial is behind schedule which will squeeze the timeline and potential effectiveness.
- Qenos has leased the Fire training ground to a third party training provider ERM. They will only be using gas fires and there shouldn't be any visible smoke impact.

11. Other Business







Noise monitoring criteria

- Using LA ₉₀ to track trends.
 - · Noise level exceeded for 90% of time.
- Filters used to compare like for like data over time
 - · Extract for Noise EIP

The community noise monitoring data will be analysed using the data filters from Section 2 of this EIP to enable like for like comparison of data

These filters are

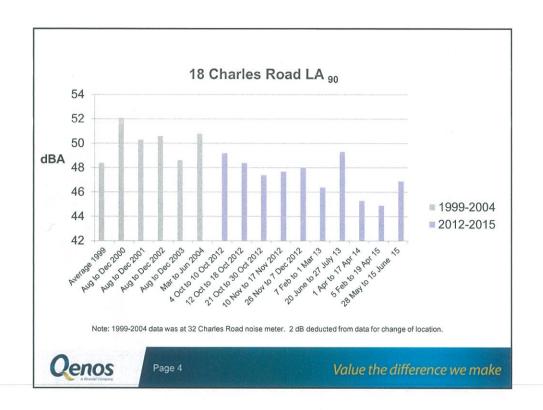
- Wind direction from West to North
- Wind Speed from calm to 14 km/hr
- Time window from Midnight to 5 am.
- No rainfall

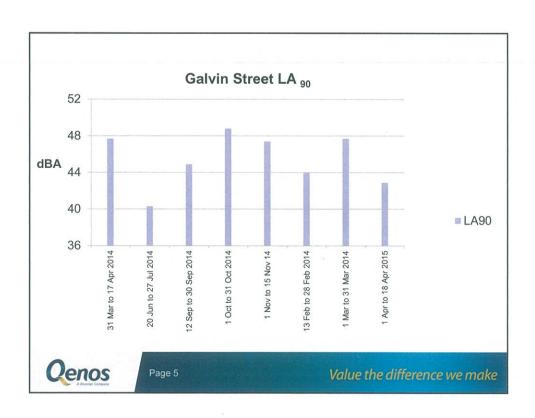


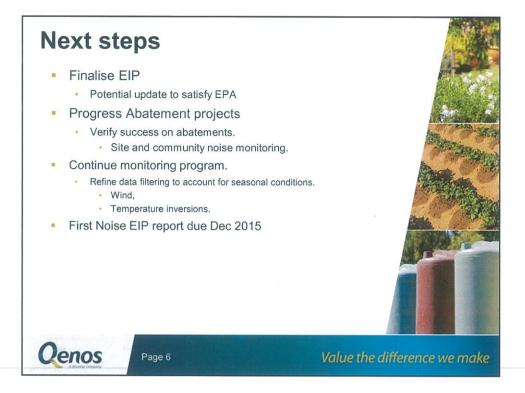
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Temperature inversions Temperature inversions are very common. They occur on almost all calm clear nights and, less frequently, under certain daytime conditions. A principal mechanism whereby they form at night is the transport of heat away from the earth's surface by infrared radiation. The effect is most dramatic when the direct path along the ground is blocked by intervening structures or terrain Temperature Inversions & Sound Propagation by Mike O'Connor (a legacy web page, circa 1997) Outgoing Rays' of Sound Under Neutral Conditions When There is No Temperature Inversion Outgoing Rays' of Sound Under Neutral Conditions When There is No Temperature Inversion Temperature Inversion Outgoing Rays' of Sound Under Neutral Conditions When There is No Temperature Inversion Temperature Inversion Outgoing Rays' of Sound Under Neutral Conditions When There is No Temperature Inversion Temperature Inversion Outgoing Rays' of Sound Under Neutral Conditions When There is No Temperature Inversion Temperature Inversion Outgoing Rays' of Sound Under Neutral Conditions When There is No Temperature Inversion Temperature Inversion Outgoing Rays' of Sound Under Neutral Conditions When There is No Temperature Inversion Temperature Inversion Outgoing Rays' of Sound Under Neutral Conditions When There is No Temperature Inversion The Ground Just Decause of the Temperature Inversion Decause of the Temperature Inversion Decause of t

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Qenos Odour Audit 2015

Audit Team

Community: Dominique Dybala, Judy Hindle, Chris Rydder, Troy Ryan

Qenos: Les Harman, Bruce Gunn, Alan Findlay





Qenos Odour Audit 2015

Sites: Qenos Olefins Note Resins deferred

Date: 13th June 2015 Posponed from Q1 for WWTP desludge

Time: 09:00 - 11:15

Weather Conditions:

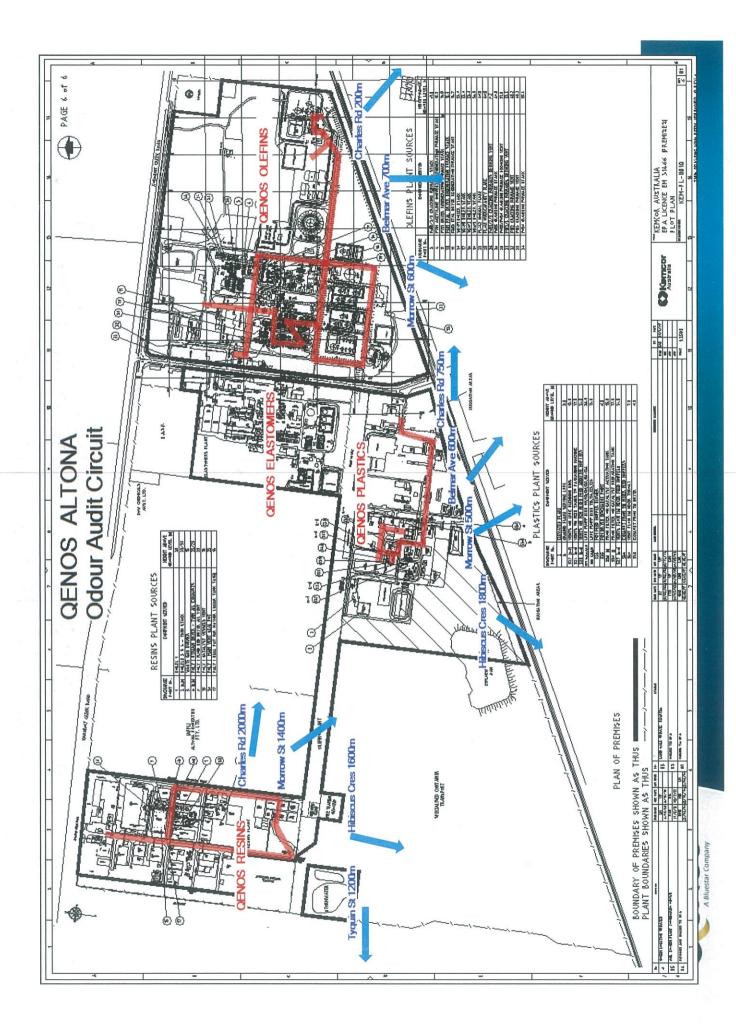
Wind Speed: 4-6 knots

Wind Direction: NNE

Temperature: 7-11 C

Cloud Cover: Sunny, Clear, Still



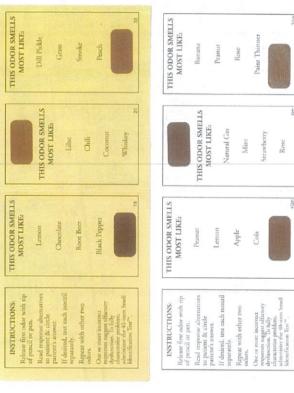


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Odour Calibration: Olefins Lab Fumehood

All participants successfully completed pocket smell test demonstrating no anosmia. Odours from 4 site samples were assessed and discussed by team members to assist with the odour rating and description

procedure.





Olefins 2015 Odour Audit Results

				ppbRAE	Judy	Troy	Dom	Chris	Overall	Strength	Strength	Strength Strength Strength Strength Strength	Strength	Strength	Strength
#	Observation Location	Odour Description	Source ID	VOC	(01-0)	(01-0)	(0-10)	(0-10)	(0-10)	(0-10)	(0-10)	(0-10)	(0-10)	(0-10)	(0-10)
		2015	2015 Audit Results							2014	2013	2012	2011	2010	2009
OL1	Gatehouse, H-Block Turnstile	NA	NA	0	0	0	0	0	0.0	3	0	0	0	0	2
012	SCAL, Tar Filters	Fuel, oil, bitumen	Fugitive emissions	300	2	7 .	4	2-3	4.0	7.5	1.5	2	4.5	1	9:0
OL3	NPAL, P-407s	Gasolene	Fugitive emissions	1400	5-8	8-9	10	5	8.0	4.0	3	4.5	1.5	1.5	2
0L4	OL4 NPAL, P-111s	Wafting	Fugitive emissions	80-100	8	8	10	3	7.3	1.5	3	3			
OL5	NPAL, General Area		Fugitive emissions	700	2	2	2	2	2.0	6.0	2	2			
OL6	LEAL Lean Oil Circuit	Oily	Fugitive emissions	2000-3000	1	7	3	2-3	3.5	5.0					
0L7	LEAL Caustic Treatment Area		Fugitive emissions	700	0	0	0	0	0.0	1.5					
OL8	Manhead 9 @ corner of B & 1st st		Fugitive emissions	500	7	8	8	80	7.8	3					
0L9	OL9 A Street south of Black Oil tank farm	Faint wafting	Fugitive emissions	400	1	1-2	1	+	1.3	1					
OL10	OL10 Manhead 6 @ corner of 8 & 7th st		Manhead vent	. 600	0	0	0	0	0.0	0	1	3	2	1	6.0
OL11	OL11 Manhead 5 @ corner of 8 & 9th st	Wafting	Manhead vent	600	5	9	7-9	1-3	6.5	0					
OL12	OL12 Manhead 4		Manhead vent		2	0	0	0	0.5	5.5	2	0	5.0	2	7.0
OL13	OL13 Manhead 2		Manhead vent	0-80	2	6	4	2	3.5	3					
OL14	OL14 Manhead 1		Manhead vent	100		4	5	3	3.3	3.5	4.5				
OL15	OL15 Stormpond		Storm pond		4	4	4	2	3.5	0	0	9.0	9.0	1.5	0
OL16	OL16 ETP, API Forebay		Localised at forebay	250	3	8-9	3	c	4.5	0.9	1.5	-	7.5	3.5	6.0
OL17	OL17 ETP, API Afterbay		Localised at afferbay	200-900	4	7	5	4	5.0	2.5	1.5	1.5	7.5	4.0	6.0
OL18	OL18 ETP, FE Sump		Very close to FE Sample pt	800	9	7	6	4	6.5	3.5	1	1		3.5	2.5
EX1	EX1 P511A & B		Pump seal passing pentene		8	8	8	8	8.0						
				Average	3.4	5.1	4.5	2.8	4.0	3.1	1.9	1.8	4.4	2.2	4.6

Note: highest value in range used to calculate the overall odour rating and average.

Odour Rating

4

4-8 (<8)

2015 Comments:

EX1: Sweet odour along B St identified and sourced to local pump seal passing, reported to STL.

OL6: two distinct odours identified.

OL16: Recognition of WWTP odour offsite. Is an EAP item.

Earthy odour from geobags in waste DG pad detected in B St.



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