

**From:** Sullivan Scott [Scott.Sullivan@ehp.qld.gov.au]  
**Sent:** Monday, 20 May 2013 5:01 PM  
**To:** Wainwright David; Green Gemma  
**Subject:** RE: North Shore odour canisters

David

Could you forward the analyte list for the November 2012 sampling to Gemma and I for our file and information.

If you have a précis of the findings that would be excellent also. I'm finding it difficult to use the current summary to form a response to community so any guidance you have in this regard would also be well received. Quite rightly the initial sampling was undertaken with a view to establishing if, or if not, there were health concerns associated with the concentrations of the air borne analytes. This was established and the secondary sampling was to compare and potentially establish origin.

The list still only correlates a commonality and does not undisputedly attribute origin. It would be good to know how this might be achieved in the longer term. If you have ideas, I'd be excited to hear.

Thank you

**Scott Sullivan**

Regional Manager – Environment and Heritage  
Northern Region Environmental Services Regulation

**Telephone:** 07 4722 5200 **Facsimile:** 07 4722 5202

**Email:** [scott.sullivan@ehp.qld.gov.au](mailto:scott.sullivan@ehp.qld.gov.au)

[www.ehp.qld.gov.au](http://www.ehp.qld.gov.au)

Department of Environment and Heritage Protection  
Cape Pallarenda Conservation Park, Pallarenda Road, Townsville Qld 4810  
PO Box 5318 Townsville Qld 4810

---

**From:** Wainwright David  
**Sent:** Monday, 20 May 2013 3:47 PM  
**To:** Green Gemma  
**Cc:** Sullivan Scott  
**Subject:** RE: North Shore odour canisters

Gemma

The sampling program undertaken in April 2012 focused on acquiring data on the concentration of individual volatile organic compounds (VOCs) in the North Shore community by having residents (4) take samples when the odour was at its worst. The main objective of the program was to identify if there were any individual VOCs that were at levels that could impact on human health. A secondary objective was to confirm if any of the individual VOC's detected could be associated with emissions from the Bohle Industrial Estate.

The results of the community sampling indicated that a number of VOCs were detected in the community, generally at levels well below relevant national or international health guidelines and not at levels considered to pose a public health risk. Analysis of the wind direction at the time of sampling (when odour was detected) confirms the air sampled would have come from the direction of the Bohle Industrial Estate.

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The letter seems to raise the issue of the North Shore Community concerns in relation to the results of the sampling program. The community seems to be confused with the Queensland Department of Environment and Heritage Protection document from Ecoaccess "Guideline Odour Impact Assessment from Developments" and its application to the sampling program and the determination of odour concentration using the Australian/New Zealand standard "AS/NZS 4323.3:2001 : Stationary source emissions - Determination of odour concentration by dynamic olfactometry". Both are not relevant to the sampling program as the objective of the investigation was to identify and quantify the individual volatile organic compounds in the air to assess any health issues.

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Cheers

David

David Wainwright  
Environmental Monitoring and Assessment Sciences  
Science Delivery Division  
**Department of Science, Information Technology, Innovation and the Arts**

**Mailing Address:**

GPO Box 2454, City East, Queensland, 4002

**Physical Address:**

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Tel: (07) 3170 5472 Fax: (07) 3170 5707 Section 37B - Prejudice the protection of an individuals right to privacy

Current air quality data is now available at:

<http://www.ehp.qld.gov.au/air/data/search.php>

---

**From:** Green Gemma  
**Sent:** Thursday, 16 May 2013 10:50 AM  
**To:** Wainwright David  
**Subject:** North Shore odour canisters

Hi David,

As discussed I am in the process of responding to a North Shore odour ministerial (attached). Any information you have on the odour samples collected last November would be appreciated.

Many thanks,

Gemma Green  
A/Principal Environmental Officer  
Environmental Services and Regulation - Northern Region

**Telephone:** 07 4722 5368 **Facsimile:** 07 4722 5351

**Email:** [gemma.green@ehp.qld.gov.au](mailto:gemma.green@ehp.qld.gov.au)

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PO Box 5318 Townsville Q 4810

RTI DL RELEASE - EHP

**From:** Green Gemma [Gemma.Green@ehp.qld.gov.au]  
**Sent:** Friday, 5 July 2013 3:40 PM  
**To:** Wainwright David  
**CC:** Sullivan Scott  
**Subject:** North Shore sample locations  
**Attachments:** Enterprise St Samples.kmz

Hi David,

Attached are the North Shore/Enterprise Street sampling locations for your reference. In addition, the following information was also recorded while the sample was being taken.

NQRR sample location

Date: 30 November 2012

Time: 10.40am

Wind Direction: ESE 097 degrees

Temperature: 32.1 degrees

Wind Max: 19 km/hr

Wind Average: 16 km/hr

Fulton Hogan sample location

Date: 30 November 2012

Time: 11.02am

Wind direction: ENE 058 degrees

Temperature: 31.2 degrees

Wind Max: 11.2 km/hr

Wind Average: 11.6km/hr

Background

Date: 30 November 2012

Time: 1.40pm

Wind Direction: NR 048 degrees

Temperature: 33.2 degrees

Wind Max: 24.8 km/hr

Wind Average: 21.8km/hr

If you require anything further please let me know.

Kind regards,

Gemma Green

A/Principal Environmental Officer

Environmental Services and Regulation - Northern Region

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Google earth



RTI DL RELEASE - EHP

**From:** Sullivan Scott [Scott.Sullivan@ehp.qld.gov.au]  
**Sent:** Thursday, 23 January 2014 2:03 PM  
**To:** Meale Brendan  
**Subject:** FW: North Shore odour canisters  
**Attachments:** 12PW320-22\_DEHP\_report.pdf

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

---

**From:** Wainwright David  
**Sent:** Thursday, 6 June 2013 10:05 PM  
**To:** Sullivan Scott; Green Gemma  
**Subject:** RE: North Shore odour canisters

Scott

Lab results attached.

Cheers

David

David Wainwright  
Environmental Monitoring and Assessment Sciences  
Science Delivery Division  
**Department of Science, Information Technology, Innovation and the Arts**  
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GPO Box 2454, City East, Queensland, 4002  
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RTI/DL RELEASE - EHP

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PO Box 5318 Townsville Q 4810



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## CERTIFICATE OF ANALYSIS

---

**CLIENT:** Department of Environment and Heritage Protection  
PO Box 731  
TOOWOOMBA QLD 4350  
ATTN: Tim Reid

Laboratory Reference : 12120174 & 12120198  
Client Order Number : N/A  
Quote Number : N/A  
Client Project : N/A  
Client Batch Reference: N/A  
Date Received : 17-Dec-2012  
Date Commenced : 19-Dec-2012  
Laboratory Number/s : 12PW320-322

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Submitting Authority : Department of Environment and Heritage Protection  
Number of Samples : Air sampled into three (3) - 6L canisters  
Reason for Analysis : Identification and Quantitation of Volatile Organic Compounds (VOCs)  
Method/s of Analysis : 13028V5 & 28237V1 – Gas Chromatography - Mass Spectrometry (GCMS) analysis by USEPA Method TO-15  
Remarks : Sample details and results are summarised in Table 1.

RTI DL RELEASE - EHP

.....  
Steve Tapper  
Supervising Chemist  
21 December 2012

### 12PW320-322

This report overrides all previous reports. The results relate solely to the sample/s as received and are limited to the specific tests undertaken as listed on the report. The results of this report are confidential and are not to be used or disclosed to any other person or used for any other purpose, whether directly or indirectly, unless that use is disclosed or the purpose is expressly authorised in writing by Queensland Health and the named recipient on this report. To the fullest extent permitted by law, Queensland Health will not be liable for any loss or claim (including legal costs calculated on an indemnity basis) which arise because of (a) problems related to the merchantability, fitness or quality of the sample/s, or (b) any negligent or unlawful act or omissions by Queensland Health that is connected with any activities or services provided by Queensland Health under this agreement (including the timing and/or method under which the sample/s were taken, stored or transported).

**Enquiries Steve Tapper**  
Phone (+61 7) 3274 9133  
Email [stephen\\_tapper@health.qld.gov.au](mailto:stephen_tapper@health.qld.gov.au)

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AUSTRALIA

Phone (+61 7) 3274 9111  
Fax (+61 7) 3000 9628  
Email [FSS@health.qld.gov.au](mailto:FSS@health.qld.gov.au)

**CERTIFICATE OF ANALYSIS**

 Laboratory Reference : 12120174 & 12120198  
 Laboratory Number/s : 12PW320-322

**Table 1: TO15 Results for 12PW320-322**

Sample Number	12PW320	12PW321	12PW322
Sample Description	Background	Fulton Hogan	NQRR
Sampling Date	1:40pm 30/11/12	11:01am 30/11/12	10:00am 30/11/12
Canister Number	1749	1746	1725
Compound List	Amount (ppbv)	Amount (ppbv)	Amount (ppbv)
Propene	< LOR	< LOR	1.1
Hexane	< LOR	< LOR	2.6
Heptane	< LOR	< LOR	< LOR
Cyclohexane	< LOR	< LOR	1.3
1,3-Butadiene	< LOR	< LOR	< LOR
Benzene	< LOR	< LOR	< LOR
Toluene	< LOR	< LOR	2.8
Ethylbenzene	< LOR	< LOR	< LOR
m- & p-Xylene	< LOR	< LOR	< LOR
o-Xylene	< LOR	< LOR	< LOR
Styrene	< LOR	< LOR	< LOR
4-Ethyltoluene	< LOR	< LOR	< LOR
1,3,5-Trimethylbenzene	< LOR	< LOR	< LOR
1,2,4-Trimethylbenzene	< LOR	< LOR	< LOR
Naphthalene	< LOR	< LOR	< LOR
Carbon disulfide	< LOR	< LOR	< LOR
Ethanol	1.4	1.0	2.8
Isopropyl Alcohol	0.5	< LOR	0.7
Acetone	7.0	3.4	13
Methyl tert-butyl ether	< LOR	< LOR	< LOR
Methyl ethyl ketone	< LOR	< LOR	2.9
Ethyl acetate	< LOR	< LOR	< LOR
Vinyl acetate	1.1	0.6	4.1
Tetrahydrofuran	< LOR	< LOR	< LOR
Methyl isobutyl ketone	< LOR	< LOR	< LOR
Methyl butyl ketone	< LOR	< LOR	< LOR
Acrolein	0.8	0.7	1.1
1,4-Dioxane	< LOR	< LOR	< LOR
Methyl methacrylate	< LOR	< LOR	< LOR
Dichlorodifluoromethane	< LOR	< LOR	0.6
Dichlorotetrafluoroethane	< LOR	< LOR	< LOR
Trichlorofluoromethane	< LOR	< LOR	< LOR
1,1,2-Trichloro-1,2,2-trifluoroethane	< LOR	< LOR	< LOR

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Canister Number	1749	1746	1725
Compound List	Amount (ppbv)	Amount (ppbv)	Amount (ppbv)
Bromomethane	< LOR	< LOR	< LOR
Bromodichloromethane	< LOR	< LOR	< LOR
Dibromochloromethane	< LOR	< LOR	< LOR
1,2-Dibromoethane	< LOR	< LOR	< LOR
Bromoform	< LOR	< LOR	< LOR
Chloromethane	<b>0.6</b>	<b>0.6</b>	<b>0.5</b>
Chloroethane	< LOR	< LOR	< LOR
1,1-Dichloroethane	< LOR	< LOR	< LOR
1,2-Dichloroethane	< LOR	< LOR	< LOR
1,1,1-Trichloroethane	< LOR	< LOR	< LOR
1,2-Dichloropropane	< LOR	< LOR	< LOR
1,1,2-Trichloroethane	< LOR	< LOR	< LOR
1,1,2,2-Tetrachloroethane	< LOR	< LOR	< LOR
Hexachlorobutadiene	< LOR	< LOR	< LOR
Methylene Chloride	< LOR	< LOR	< LOR
Chloroform	< LOR	< LOR	< LOR
Carbon tetrachloride	< LOR	< LOR	< LOR
Vinyl chloride	< LOR	< LOR	< LOR
1,1-Dichloroethylene	< LOR	< LOR	< LOR
trans-1,2-Dichloroethylene	< LOR	< LOR	< LOR
cis-1,2-Dichloroethylene	< LOR	< LOR	< LOR
Trichloroethylene	< LOR	< LOR	< LOR
cis-1,3-dichloropropene	< LOR	< LOR	< LOR
trans-1,3-dichloropropene	< LOR	< LOR	< LOR
Tetrachloroethylene	< LOR	< LOR	< LOR
Chlorobenzene	< LOR	< LOR	< LOR
Benzyl chloride	< LOR	< LOR	< LOR
1,3-Dichlorobenzene	< LOR	< LOR	< LOR
1,4-Dichlorobenzene	< LOR	< LOR	< LOR
1,2-Dichlorobenzene	< LOR	< LOR	< LOR
1,2,4-Trichlorobenzene	< LOR	< LOR	< LOR

**Limit of Reporting (LOR) is 0.5 ppbv**
**12PW320-322**

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**Sent:** Thursday, 23 January 2014 2:26 PM  
**To:** Meale Brendan  
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**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Brendan

Note below. David has not articulated which 4 samples were common to community and an industrial site, nor does he identify the site. Review of the data should reveal, however from my recollection of a conversation I had with him I understood the four analytes common to both community and industry were in relation to NQRR/Transpacific.

There are suite of other variables that are not available to support meaningful assumptions and there was no capacity to fingerprint samples either.

I would hold off responding to Taryn's request just yet. The data would be available through RTI and I have no desire to hold onto it but just wish to question process.

Thanks

Scott

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Client Project : N/A  
Client Batch Reference: N/A  
Date Received : 17-Dec-2012  
Date Commenced : 19-Dec-2012  
Laboratory Number/s : 12PW320-322

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Submitting Authority : Department of Environment and Heritage Protection  
Number of Samples : Air sampled into three (3) - 6L canisters  
Reason for Analysis : Identification and Quantitation of Volatile Organic Compounds (VOCs)  
Method/s of Analysis : 13028V5 & 28237V1 – Gas Chromatography - Mass Spectrometry (GCMS) analysis by USEPA Method TO-15  
Remarks : Sample details and results are summarised in Table 1.

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Steve Tapper  
Supervising Chemist  
21 December 2012

### 12PW320-322

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**CERTIFICATE OF ANALYSIS**

Laboratory Reference : 12120174 & 12120198  
 Laboratory Number/s : 12PW320-322

**Table 1: TO15 Results for 12PW320-322**

Sample Number	12PW320	12PW321	12PW322
Sample Description	Background	Fulton Hogan	NQRR
Sampling Date	1:40pm 30/11/12	11:01am 30/11/12	10:00am 30/11/12
Canister Number	1749	1746	1725
Compound List	Amount (ppbv)	Amount (ppbv)	Amount (ppbv)
Propene	< LOR	< LOR	1.1
Hexane	< LOR	< LOR	2.6
Heptane	< LOR	< LOR	< LOR
Cyclohexane	< LOR	< LOR	1.3
1,3-Butadiene	< LOR	< LOR	< LOR
Benzene	< LOR	< LOR	< LOR
Toluene	< LOR	< LOR	2.8
Ethylbenzene	< LOR	< LOR	< LOR
m- & p-Xylene	< LOR	< LOR	< LOR
o-Xylene	< LOR	< LOR	< LOR
Styrene	< LOR	< LOR	< LOR
4-Ethyltoluene	< LOR	< LOR	< LOR
1,3,5-Trimethylbenzene	< LOR	< LOR	< LOR
1,2,4-Trimethylbenzene	< LOR	< LOR	< LOR
Naphthalene	< LOR	< LOR	< LOR
Carbon disulfide	< LOR	< LOR	< LOR
Ethanol	1.4	1.0	2.8
Isopropyl Alcohol	0.5	< LOR	0.7
Acetone	7.0	3.4	13
Methyl tert-butyl ether	< LOR	< LOR	< LOR
Methyl ethyl ketone	< LOR	< LOR	2.9
Ethyl acetate	< LOR	< LOR	< LOR
Vinyl acetate	1.1	0.6	4.1
Tetrahydrofuran	< LOR	< LOR	< LOR
Methyl isobutyl ketone	< LOR	< LOR	< LOR
Methyl butyl ketone	< LOR	< LOR	< LOR
Acrolein	0.8	0.7	1.1
1,4-Dioxane	< LOR	< LOR	< LOR
Methyl methacrylate	< LOR	< LOR	< LOR
Dichlorodifluoromethane	< LOR	< LOR	0.6
Dichlorotetrafluoroethane	< LOR	< LOR	< LOR
Trichlorofluoromethane	< LOR	< LOR	< LOR
1,1,2-Trichloro-1,2,2-trifluoroethane	< LOR	< LOR	< LOR

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 Laboratory Number/s : 12PW320-322

Sample Number	12PW320	12PW321	12PW322
Sample Description	Background	Fulton Hogan	NQRR
Sampling Date	1:40pm 30/11/12	11:01am 30/11/12	10:00am 30/11/12
Canister Number	1749	1746	1725
Compound List	Amount (ppbv)	Amount (ppbv)	Amount (ppbv)
Bromomethane	< LOR	< LOR	< LOR
Bromodichloromethane	< LOR	< LOR	< LOR
Dibromochloromethane	< LOR	< LOR	< LOR
1,2-Dibromoethane	< LOR	< LOR	< LOR
Bromoform	< LOR	< LOR	< LOR
Chloromethane	<b>0.6</b>	<b>0.6</b>	<b>0.5</b>
Chloroethane	< LOR	< LOR	< LOR
1,1-Dichloroethane	< LOR	< LOR	< LOR
1,2-Dichloroethane	< LOR	< LOR	< LOR
1,1,1-Trichloroethane	< LOR	< LOR	< LOR
1,2-Dichloropropane	< LOR	< LOR	< LOR
1,1,2-Trichloroethane	< LOR	< LOR	< LOR
1,1,2,2-Tetrachloroethane	< LOR	< LOR	< LOR
Hexachlorobutadiene	< LOR	< LOR	< LOR
Methylene Chloride	< LOR	< LOR	< LOR
Chloroform	< LOR	< LOR	< LOR
Carbon tetrachloride	< LOR	< LOR	< LOR
Vinyl chloride	< LOR	< LOR	< LOR
1,1-Dichloroethylene	< LOR	< LOR	< LOR
trans-1,2-Dichloroethylene	< LOR	< LOR	< LOR
cis-1,2-Dichloroethylene	< LOR	< LOR	< LOR
Trichloroethylene	< LOR	< LOR	< LOR
cis-1,3-dichloropropene	< LOR	< LOR	< LOR
trans-1,3-dichloropropene	< LOR	< LOR	< LOR
Tetrachloroethylene	< LOR	< LOR	< LOR
Chlorobenzene	< LOR	< LOR	< LOR
Benzyl chloride	< LOR	< LOR	< LOR
1,3-Dichlorobenzene	< LOR	< LOR	< LOR
1,4-Dichlorobenzene	< LOR	< LOR	< LOR
1,2-Dichlorobenzene	< LOR	< LOR	< LOR
1,2,4-Trichlorobenzene	< LOR	< LOR	< LOR

Limit of Reporting (LOR) is 0.5 ppbv

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