

FORENSIC AND SCIENTIFIC SERVICES

Enquiries to: Soon Chee Chan
Telephone: (07) 3274 9021
Fax: (07) 3274 9123
Our Reference: 09PW 2324
Your Reference: Unknown Odour at Runcorn Area

7 June 2010

TO: Mr Luke Stephan
Environmental Officer, Brisbane South
Queensland Environmental Protection Agency
Floor 23, 288 Edward Street
Brisbane QLD 4001



LABORATORY REPORT

Date Received : 23 April 2010
Sample Description : Air sampled into one (1) 3L Summa canisters by Dick Veenhof
Reason for Submission : Identification of Volatile Organic Compounds (VOCs)
Method : Gas chromatography-mass spectrometry (GC-MS) analysis by USEPA method TO-15
Date Commenced : 4 May 2010

RESULT OF ANALYSIS

The quantitative results are shown in Table One.

sch4p4(6) Personal information

File No:

BST2010/1383

C1844098

09-Jun-2010



Soon Chee Chan
Analyst

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Page 1 of 4

OFFICE:
39 Kessels Road
COOPERS PLAINS QLD 4108
AUSTRALIA

POSTAL:
PO Box 594
ARCHERFIELD QLD 4108
AUSTRALIA

TELEPHONE:
(07) 3274 9021

FAX:
(07) 3274 9123

INTERNATIONAL CODE 61

Table One: Results for Unknown Odour at Runcorn Area

Sample Number	09PW2324
Sample Date & Time	22/4/10 , 16:00
Sample Description	29 Penarth St, Runcorn 4113
Canister Number	1111
Compound	Amount (ppbv)
Butane	<LOR
Pentane	<LOR
Hexane	<LOR
Heptane	<LOR
Octane	<LOR
Nonane	<LOR
Decane	<LOR
Undecane	<LOR
Dodecane	<LOR
Isobutane	<LOR
2-Methylbutane	<LOR
2,2-Dimethylbutane	<LOR
2,3-Dimethylbutane	<LOR
2-Methylpentane	<LOR
3-Methylpentane	<LOR
2,4-Dimethylpentane	<LOR
2,3-Dimethylpentane	<LOR
2-Methylhexane	<LOR
3-Methylhexane	<LOR
2,2,4-Trimethylpentane	<LOR
2,3,4-Trimethylpentane	<LOR
2-Methylheptane	<LOR
3-Methylheptane	<LOR
Cyclopentane	<LOR
Methylcyclopentane	<LOR
Cyclohexane	<LOR
Methylcyclohexane	<LOR
1-Butene	<LOR
trans-2-Butene	<LOR
cis-2-Butene	<LOR
1-Pentene	<LOR
trans-2-Pentene	<LOR
cis-2-Pentene	<LOR
1-Hexene	<LOR
1,3-Butadiene	<LOR
Isoprene	<LOR
Benzene	0.5
Toluene	1.6
Ethylbenzene	<LOR
m- & p-Xylene	0.8

Release

Table One: Results for Unknown Odour at Runcorn Area

Sample Number	09PW2324
Sample Date & Time	22/4/10 , 16:00
Sample Description	29 Penarth St, Runcorn 4113
Canister Number	1111
Compound	Amount (ppbv)
Styrene	<LOR
o-Xylene	<LOR
Cumene	<LOR
Propylbenzene	<LOR
3-Ethyltoluene	<LOR
4-Ethyltoluene	<LOR
2-Ethyltoluene	<LOR
1,3,5-Trimethylbenzene	<LOR
1,2,4-Trimethylbenzene	0.6
1,2,3-Trimethylbenzene	<LOR
1,3-Diethylbenzene	<LOR
1,4-Diethylbenzene	<LOR
Ethanol	9.4
Acrolein	1.3
Acetone	7.1
Isopropyl Alcohol	<LOR
Methyl tert-butyl ether	<LOR
Vinyl acetate	1.1
Methyl ethyl ketone	0.9
Ethyl acetate	1.3
Tetrahydrofuran	<LOR
1,4-Dioxane	<LOR
Methyl methacrylate	<LOR
Methyl isobutyl ketone	<LOR
Methyl butyl ketone	0.6
Dichlorodifluoromethane	0.6
Dichlorotetrafluoroethane	<LOR
Trichlorofluoromethane	<LOR
1,1,2-Trichloro-1,2,2-trifluoroethane	<LOR
Bromomethane	<LOR
Bromodichloromethane	<LOR
Dibromochloromethane	<LOR
1,2-Dibromoethane	<LOR
Bromoform	<LOR
Chloromethane	0.7
Chloroethane	<LOR
Methylene Chloride	<LOR
1,1-Dichloroethane	<LOR
Chloroform	<LOR
1,2-Dichloroethane	<LOR

Release

Table One: Results for Unknown Odour at Runcorn Area

Sample Number	09PW2324
Sample Date & Time	22/4/10 , 16:00
Sample Description	29 Penarth St, Runcorn 4113
Canister Number	1111
Compound	Amount (ppbv)
1,1,1-Trichloroethane	<LOR
Carbon tetrachloride	<LOR
1,2-Dichloropropane	<LOR
1,1,2-Trichloroethane	<LOR
1,1,2,2-Tetrachloroethane	<LOR
Hexachlorobutadiene	<LOR
Vinyl chloride	<LOR
1,1-Dichloroethylene	<LOR
trans-1,2-Dichloroethylene	<LOR
cis-1,2-Dichloroethylene	<LOR
Trichloroethylene	<LOR
cis-1,3-dichloropropene	<LOR
trans-1,3-dichloropropene	<LOR
Tetrachloroethylene	<LOR
Chlorobenzene	<LOR
Benzyl chloride	<LOR
1,3-Dichlorobenzene	<LOR
1,4-Dichlorobenzene	<LOR
1,2-Dichlorobenzene	<LOR
1,2,4-Trichlorobenzene	<LOR
Carbon disulfide	<LOR
Limit of Reporting (LOR) = 0.5 ppbv	

Release

Notice of annual return

This notice is issued by the Environmental Protection Agency pursuant to Section 316 of the Environmental Protection Act 1994 to inform of a statutory requirement.

Bradken Resources Pty Limited
PO Box 53
SUNNYBANK QLD 4109

RECEIVED
13 FEB 2008

BY: _____

Our reference: 241112

Dear Sir/Madam,

Re: Provision of an Annual Return for Registration

Permit ¹ Number	Permit ¹ Type	Activity ²	Location
ENRE00473006	Registration Certificate	ERA 40(a)(vii) Metal foundry - commercially producing metal castings and associated activities using ferrous metals in works having an average annual metal tonnage output of 10 000 t or more.	<p>Lot 1 on Plan RP69078, 76 Nathan Road, RUNCORN QLD 4113</p> <p>Lot 1 on Plan RP83964, 76 Nathan Road, RUNCORN QLD 4113</p> <p>Lot 2 on Plan RP69078, 76 Nathan Road, RUNCORN QLD 4113</p> <p>Lot 3 on Plan RP69078, 76 Nathan Road, RUNCORN QLD 4113</p> <p>Lot 3 on Plan RP86297, 76 Nathan Road, RUNCORN QLD 4113</p> <p>Lot 4 on Plan RP69078, 76 Nathan Road, RUNCORN QLD 4113</p> <p>Lot 6 on Plan RP68078, 76 Nathan Road, RUNCORN QLD 4113</p> <p>Lot 7 on Plan RP68078, 76 Nathan Road, RUNCORN QLD 4113</p> <p>Lot 9 on Plan RP68078, 76 Nathan Road, RUNCORN QLD 4113</p>

1 Permit includes licences, approvals, permits, authorisations, certificates, sanctions or equivalent/similar as required by legislation administered by the Environmental Protection Agency and the Queensland Parks and Wildlife Service.

2 Note where level 2 activities are included: The annual return is not required for this level 2 activity. This activity has been included to provide a complete list of activities carried out under this permit.

Release

Notice of annual return

The period covered by the current annual fee expires on 25-MAR-2008 and a new annual fee is payable before this date.

If an application for a fee waiver under section 49 of the *Environmental Protection Regulation 1998* is made by this date, payment can be deferred until the fee waiver application is decided. If an application for a fee waiver is received after the above date, a fee waiver will not be approved.

In order to maintain your Registration, you must:

- pay the annual fee of \$5,400.00 or submit a fee waiver application. (These fees are included in the Federal Treasurer's Determination under Division 81 of A New Tax System (Goods and Services Tax) Act 1999. As such, the supplies are exempt from GST and there is no requirement to issue a Tax Invoice).
- complete and return the attached 'Annual Return' form.

Please forward the annual fee and the completed annual return form to the Ecoaccess Customer Service Unit at the address shown below, by the above date. Failure to pay the annual fee in full, or apply for a fee waiver, by the due date, may result in:

- a late fee of \$55.60 being payable;
- any increase in fees that occur between this notice being sent and the above date being payable; and
- suspension or cancellation of the Registration.

If you require more information, please contact the Ecoaccess Customer Service Unit on the telephone number listed below.

Yours sincerely

Delegate
Environmental Protection Agency
08-FEB-08

Enquiries:
Ecoaccess Customer Service Unit
PO Box 15155 CITY EAST 4002
160 Ann Street
BRISBANE QLD 4000
Phone: 1300 368 326
Fax: (07) 3115 9600

Attachment - Annual Return

Note:

Facilities that meet National Pollutant Inventory (NPI) thresholds have a reporting requirement under section 38H of the *Environmental Protection Regulation 1998*. Facilities that do not reach NPI reporting thresholds can and are encouraged to report voluntarily. Under the legislation National Pollutant Inventory reports are required to be returned within 3 months of the end of a facility's reporting period. Calendar year reporters must be submitted by March 31, sugar manufacturing reporters by June 30, and financial year reporters by September 30. Facilities can make an application to change the anniversary date of their environmental authority or registration certificate to coincide with their NPI reporting anniversary date under section 318A of the *Environmental Protection Act 1994*. If you have any enquiries please contact the NPI Team on 07 3225 1060 or email us at npi@epa.qld.gov.au. For more information on the National Pollutant Inventory visit www.npi.gov.au.

Release

☒ For Regional Information & Filing

☐ Regional Action Required

Admin Office Brisbane South
Project No. 241112

CROW No. 11590
ESO: Anna Simcintti

Ecoaccess Customer Service Unit
Annual Return Checklist

Due Date: 25/5/09

Company / Business Name: Bradken Limited

Individual or Contact Name:

Registration No: ENRECO 473006 ERA No/s: 29(10)

Date received: 24/8/09 Date Valid: 31/8/09 Assessing Officer: K. Thelemann

Indicate by Yes ☒ or No ☐. Leave unmarked if not applicable
A ☒ in any of the checkboxes may indicate 'invalid' application

Annual return form completed Yes ☐ No ☒ (signed, dated and fees paid)

Receipt Details

Receipt No. 1400028905 Receipt Date 21/8/2009

Amount paid \$ 12,400.00 Correct fee ☐ Overpaid ☐ Underpaid ☒

Receipt sent to client Yes ☒ No ☐ Paying a Reduced Annual Fee Yes ☐

Payment Method

EFT ☒ Cash ☐ Credit ☐ Cheque ☐ Cheque No

Drawer As Above ☐

COST CENTRE/CODE: GL Code 431063 – 9091084

CSC CODE: PLU0284



☐ Receipt forwarded to client

☒ Advised client 'late fee' still outstanding

Please Note: The annual return status on Ecotrack has been set as:

☐ COMPLETE ☐ PENDING ☒ INCOMPLETE
☐ OVERDUE ☐ RECEIVED

Please note: If no further actions are required then this status needs to be changed to "Completed"

Comments: NO certification attached

Late fee not paid ☒ Forms not received – Compliance issue

Please Note: Comments and information have been added to Description Field in Annual Return.

Record of consultation

Applicant Name:

Date	Person Contacted:	Telephone number:
	Information Requested:	
	Response:	
	Ecoaccess CSU Staff:	

Date	Person Contacted:	Telephone number:
	Information Requested:	
	Response:	
	Ecoaccess CSU Staff:	

Date	Person Contacted:	Telephone number:
	Information Requested:	
	Response:	
	Ecoaccess CSU Staff:	

Date	Person Contacted:	Telephone number:
	Information Requested:	
	Response:	
	Ecoaccess CSU Staff:	



Notice of annual return

This notice is issued by the Department of Environment and Resource Management pursuant to Section 316 of the Environmental Protection Act 1994 to inform of a statutory requirement.

Bradken Resources Pty Limited
PO Box 53
SUNNYBANK QLD 4109

Our reference: 241112

Dear Sir/Madam,

Re: Annual Fee and Return

Permit ¹ Number	Permit ¹ Type	Activity	Location
ENRE00473006	Registration Certificate	ERA 29 Metal foundry operation Threshold 1(d) - producing, in a year, more than 10000t of ferrous metal castings	<p>Lot 1 on Plan RP69078, 76 Nathan Road, RUNCORN QLD 4113</p> <p>Lot 1 on Plan RP83964, 76 Nathan Road, RUNCORN QLD 4113</p> <p>Lot 2 on Plan RP69078, 76 Nathan Road, RUNCORN QLD 4113</p> <p>Lot 3 on Plan RP69078, 76 Nathan Road, RUNCORN QLD 4113</p> <p>Lot 3 on Plan RP86297, 76 Nathan Road, RUNCORN QLD 4113</p> <p>Lot 4 on Plan RP69078, 76 Nathan Road, RUNCORN QLD 4113</p> <p>Lot 6 on Plan RP68078, 76 Nathan Road, RUNCORN QLD 4113</p> <p>Lot 7 on Plan RP68078, 76 Nathan Road, RUNCORN QLD 4113</p> <p>Lot 9 on Plan RP68078, 76 Nathan Road, RUNCORN QLD 4113</p>

¹ Permit includes licences, approvals, permits, authorisations, certificates, sanctions or equivalent/similar as required by legislation administered by the Department of Environment and Resource Management.

The period covered by the current annual fee expired on 25-MAR-2009. The annual fee for the above permit is now due and payable.

In order to maintain your registration, you must:

Release

Notice of annual return

- pay the annual fee of \$12,400.00, unless you are eligible to pay a reduced annual fee. Please refer to the Information sheet : 'Paying a reduced annual fee' for details on the eligibility criteria.

(These fees are included in the Federal Treasurer's Determination under Division 81 of A New Tax System (Goods and Services Tax) Act 1999. As such, the supplies are exempt from GST and there is no requirement to issue a Tax Invoice).

- complete and return the attached 'annual return' form

Please forward the annual fee and the completed annual return form to the Ecoaccess Customer Service Unit at the address shown below, by 21-AUGUST-2009. Failure to pay the annual fee in full, by the due date, will result

- a late fee of \$100.00 being payable; and may result in
- suspension or cancellation of the registration.

If you require more information, please contact the Ecoaccess Customer Service Unit on the telephone number listed below.

Yours sincerely

Delegate
Environmental Protection Act 1994
24-JUL-09

Enquiries:

Ecoaccess Customer Service Unit
PO Box 15155 CITY EAST 4002
Phone: 1300 368 326
Fax: (07) 31

sch4p4(6) Personal information

Attachment - 'Annual Return' form

Plan pay: \$12,400 as per
→ Fri 21/8/09
2-47-41-8510
TO: FRE
17/8/2009

17/8/09



Department of
Environment and Heritage
Protection

Environmental Protection Act 1994

Transitional environmental program certificate of approval number MAN16002

This certificate of approval is issued by the administering authority pursuant to section 339 of the Environmental Protection Act 1994. A transitional environmental program is a specific program that, when approved, achieves compliance with the Environmental Protection Act 1994 for the matters dealt with by the program by reducing environmental harm, or detailing the transition to an environmental standard.

Under the provisions of the *Environmental Protection Act 1994*, this certificate of approval is hereby granted to:

Bradken Limited
76 Nathan Rd
Runcorn QLD 4113

cc. Bradken Limited
PO BOX 105
Waratah NSW 2298

approving the draft transitional environmental program; titled "Bradken Runcorn Foundry – Transitional Environmental Program (TEP) – Visual Furnace Emissions, November 2012" for management of air emissions at 76 Nathan Rd, Runcorn.

The draft transitional environmental program, dated 8 March 2012, was received by this office on 8 March 2012 and approved on 16 March 2012.

An application for amendment of the transitional environmental program, dated 10 September 2012, was received by this office on 12 September 2012.

The transitional environmental program remains in force until 31 July 2014.

In any case where conditions are imposed upon a certificate of approval, you may apply to the administering authority for a review of the decision. You may also appeal against the decision to the Planning and Environment Court.

Information relating to a review of decisions or appeals under the *Environmental Protection Act 1994* is included with this notice. This information is intended as a guide only. You may have other legal rights and obligations.

Should you have any queries in relation to this Notice, Renee Flinders of the Department of Environment and Heritage Protection on telephone 3330 5784 would be happy to assist you.

sch4p4(6) Personal information

Signature

Peter Vasel
Delegate
Environmental Protection Act 1994

21-11-2012

Date

Enquiries:

Brisbane South, Southern Region
Environmental Services and Regulation
GPO Box 2454 BRISBANE QLD 4001
Brisbane QLD 4001
Ph: 07 3330 5748



Operational policy

Fees

Transitional environmental program fees

Operational policies provide a framework for consistent application and interpretation of legislation by the Department of Environment and Heritage Protection. Operational policies will not be applied inflexibly to all circumstances. Individual circumstances may require an alternative application of policy. This policy concerns r. 140 of the Environmental Protection Regulation 2008.

Policy issue

What are the administering authority¹ fees for considering a transitional environmental program (TEP)?

Background

Section 334 of the *Environmental Protection Act 1994* (EP Act) provides for the administering authority to charge a person or public authority for submitting a draft TEP for approval.

Regulation 140(1) of the Environmental Protection Regulation 2008 (EP Reg) prescribes that the fees for consideration of a draft TEP or an amendment of an approval for a TEP is the amount that:

- the authority considers to be reasonable
- is not more than the reasonable cost of deciding the application for approval of the program or the amendment of the approval.

Regulation 140(3) of the EP Reg prescribes that the fees for assessing the holder's annual returns and monitoring compliance with the program is the amount that:

- the authority considers to be reasonable
- is not more than the reasonable cost of the assessment and monitoring.

Determination

Fees for the assessment of a draft TEP are a minimum of \$388.50 (includes GST), plus an additional \$194.00 per hour (includes GST) or part thereof, charged after the first two hours.

Fees for assessment of a TEP annual return and monitoring of a compliance program of a draft TEP are a minimum of \$388.50 (includes GST), plus an additional \$194.00 per hour (includes GST), or part thereof, charged after the first two hours plus any reasonable costs for analysis and travel.

The reasonable cost of analysis cost will be the actual cost of the analysis to the department, plus GST.

The reasonable cost of travel will be the cost of travel², plus GST.

¹ The Department of Environment and Heritage Protection (EHP) is the administering authority under the *Environmental Protection Act 1994*.

Released

The fee for assessing an application to amend a TEP is \$199.10 (includes GST).

Other issues to consider

The person having a draft TEP considered should be advised at the time of approval of the TEP that the administering authority will require payment of a fee for assessment of the annual return and monitoring compliance of the TEP.

Further information

The latest version of this publication can be found at <www.ehp.qld.gov.au> using the publication number EM335 as a search term.

Disclaimer:

While this document has been prepared with care it contains general information and does not profess to offer legal, professional or commercial advice. The Queensland Government accepts no liability for any external decisions or actions taken on the basis of this document. Persons external to the Department of Environment and Heritage Protection should satisfy themselves independently and by consulting their own professional advisors before embarking on any proposed course of action.

Approved by:

Omar Ameer
Director, Environmental Regulatory Practice
Department of Environment and Heritage Protection
Date: 4 October 2012

Enquiries:

Permit and Licence Management
Ph: 13 QGOV (13 74 68)
Fax: (07) 3896 3342
Email: palm@ehp.qld.gov.au

Released

² The reasonable cost of travel will be calculated as outlined in s. 4 (employees who choose to use their own vehicles) of the schedule in the Queensland Government *Directive No. 14/10 Motor Vehicle Allowances September 2010*, issued by the Attorney-General and Minister for Industrial Relations. For a motor vehicle this is set at 37.5 cents per kilometre.

Information sheet

Environmental Protection Act 1994

Internal review and appeal to Planning and Environment Court

This information sheet forms part of an information notice under the Environmental Protection Act 1994. It gives a summary of the process for review and appeal to the Planning and Environment Court under the Environmental Protection Act and subordinate legislation. Refer to ss. 519 - 539 and schedule 2 of the Environmental Protection Act for complete information about the process for internal review and appeal to the Planning and Environment Court.

Introduction

The *Environmental Protection Act 1994* (EP Act) provides for a right of internal review and appeal against certain decisions made under the EP Act. Decisions that can be reviewed or appealed are listed in schedule 2 of the EP Act and within certain sections of the regulations and subordinate legislation¹ made under the EP Act. The EP Act also provides that a dissatisfied person for a review decision, other than those listed in part 1 of schedule 2 of the EP Act², may appeal the decision to the Planning and Environment Court (the Court).

Summary of the process for internal review and appeal to the Court

Chapter 11, Part 3 of the EP Act

Division 1 — Interpretation

Section 519 Original decisions

- 1) A decision mentioned in schedule 2 is an 'original decision'.
- 2) A decision under an environmental protection policy or regulation that the policy or regulation declares to be a decision to which this part applies is also an 'original decision'.

Section 520 Dissatisfied person

This section nominates the dissatisfied person for an original or review decision.

Division 2 — Internal review of decisions

Section 521 Procedure for review

- 1) A dissatisfied person may apply for a review of an original decision.
- 2) The application must—
 - a) be made in the approved form to the administering authority within—
 - i) 10 business days³ after the day on which the person receives notice of the original decision or the administering authority is taken to have made the decision (the 'review date'); or
 - ii) the longer period the authority in special circumstances allows ; and
 - b) be supported by enough information to enable the authority to decide the application.
- 3) On or before making the application, the applicant must send the following documents to the other persons who were given notice of the original decision—

Releas



Information sheet

Internal review and appeal to Planning and Environment Court

- a) notice of the application (the 'review notice');
 - b) a copy of the application and supporting documents.
- 4) The review notice must inform the recipient that submission on the application may be made to the administering authority within five business days after the application is made to the authority.
- 5) If the administering authority is satisfied the applicant has complied with subsection (2) and (3), the authority must, within 10 business days after receiving the application—
- a) review the original decision;
 - b) consider any submissions properly made by a recipient of the review notice; and
 - c) make a decision (the 'review decision') to—
 - i) confirm or revoke the original decision; or
 - ii) vary the original decision in a way the administering authority considers appropriate.
- 6) The application does not stay the original decision.
- 7) The application must not be dealt with by—
- a) the person who made the original decision; or
 - b) a person in a less senior office than the person who made the original decision.
- 8) Within 10 business days after making the review decision, the administering authority must give written notice of the decision to the applicant and persons who were given notice of the original decision.
- 9) The notice must—
- a) include the reasons for the review decision; and
 - b) inform the person of their right of appeal against the decision.
- 10) If the administering authority does not comply with subsections (5) or (8), the authority is taken to have made a decision confirming the original decision.
- 11) Subsection (7) applies despite the *Acts Interpretation Act 1954*, section 27A.
- 12) This section does not apply to an original decision made by—
- a) for a matter, the administration and enforcement of which has been devolved to a local government, the local government itself or the chief executive officer of the local government personally; or
 - b) for another matter — the chief executive personally.
- 13) Also, this section does not apply to an original decision to issue a clean-up notice.

Section 522 Stay of operation of original decisions

- 1) If an application is made for review of an original decision, the applicant may immediately apply for a stay of the decision to—
- a) for an original decision mentioned in schedule 2, part 1—the Land Court; or
 - b) for an original decision mentioned in schedule 2, part 2—the Court.
- 2) The Land Court or the Court may stay the decision to secure the effectiveness of the review and any later appeal to the Land Court or the Court.

Internal review and appeal to Planning and Environment Court

- 3) A stay may be given on conditions the Land Court or the Court considers appropriate and has effect for the period stated by the Land Court or the Court.
- 4) The period of a stay must not extend past the time when the administering authority reviews the decision and any later period the Land Court or the Court allows the applicant to enable the applicant to appeal against the review decision.

Division 4 — Appeals to Court

Section 531 Who may appeal

- 1) A dissatisfied person who is dissatisfied with a review decision, other than a review decision to which subdivision 1⁴ applies, may appeal against the decision to the Court.
- 2) The chief executive may appeal against another administering authority's decision (whether an original or review decision) to the Court.
- 3) A dissatisfied person who is dissatisfied with an original decision to which s. 521 does not apply may appeal against the decision to the Court.

Section 532 How to start appeal

- 1) An appeal is started by—
 - a) filing written notice of appeal with the registrar of the Court; and
 - b) complying with rules of court applicable to the appeal.
- 2) The notice of appeal must be filed—
 - a) if the appellant is the chief executive—within 33 business days after the decision is made or taken to have been made; or
 - b) if the appellant is not the chief executive—within 22 business days after the day the appellant receives notice of the decision or the decision is taken to have been made.
- 3) The Court may at any time extend the period for filing the notice of appeal.
- 4) The notice of appeal must state fully the grounds of the appeal and the facts relied on.

Section 533 Appellant to give notice of appeal to other parties

- 1) Within 8 business days after filing the notice of appeal, the appellant must serve notice of the appeal on—
 - a) if the appellant is the chief executive—all persons who were given notice of the original decision; or
 - b) if the appellant is not the chief executive—the other persons who were given notice of the original decision.
- 2) The notice must inform the persons that, within 10 business days after service of the notice of appeal, they may elect to become a respondent to the appeal by filing in the Court a notice of election under rules of court.

Section 534 Persons may elect to become respondents to appeal

A person who properly files in the Court a notice of election becomes a respondent to the appeal.

Section 535 Stay of operation of decisions

- 1) The Court may grant a stay of a decision appealed against to secure the effectiveness of the appeal.

Released

Internal review and appeal to Planning and Environment Court

- 2) A stay may be granted on conditions the Court considers appropriate and has effect for the period stated by the Court.
- 3) The period of a stay must not extend past the time when the Court decides the appeal.
- 4) An appeal against a decision does not affect the operation or carrying out of the decision unless the decision is stayed.

Section 535A Stay of decision to issue a clean-up notice

- 5) This section applies to an application under section 535 for a stay of a decision to issue a clean-up notice.
- 6) In deciding the application, the Court must have regard to—
 - a) the quantity and quality of contamination of the environment that is likely to be caused if the stay is granted; and
 - b) the proximity of the place at or from which the contamination incident is happening or happened to a place with environmental values that may be adversely affected by the contamination.

Section 536 Hearing procedures

- 1) The procedure for an appeal is to be in accordance with the rules of court applicable to the appeal or, if the rules make no provision or insufficient provision, in accordance with directions of the judge.
- 2) An appeal is by way of rehearing, unaffected by the administering authority's decision.

Section 537 Assessors

If the judge hearing an appeal is satisfied the appeal involves a question of special knowledge and skill, the judge may appoint one or more assessors to help the judge in deciding the appeal.

Section 538 Appeals may be heard with planning appeals

- 1) This section applies if—
 - a) a person appeals against an administering authority's decision (whether an original or review decision) to refuse to grant a registration certificate or to accredit an environmental risk management plan (ERMP); and
 - b) a person appeals against the assessment manager's decision under the *Sustainable Planning Act 2009* about a planning or development matter for the premises to which the certificate or the ERMP or the application for the certificate relates.
- 2) On the application of a party to either of the appeals, the Court may order—
 - a) the appeals to be heard together or one immediately after the other; or
 - b) one appeal to be stayed until the other has been decided.
- 3) The application may be made—
 - a) by an appellant when starting an appeal or at any time before the appeals are decided; or
 - b) by another party at any time before the appeals are decided.
- 4) This section applies even though the parties, or all of the parties, to the appeals are not the same.

Section 539 Powers of Court on appeal

- 1) In deciding an appeal, the Court may—

Release

Information sheet

Internal review and appeal to Planning and Environment Court

- a) confirm the decision appealed against; or
 - b) vary the decision appealed against; or
 - c) set aside the decision appealed against and make a decision in substitution for the decision set aside.
- 2) If on appeal the Court acts under subsection (1)(b) or (c), the decision is taken, for this Act (other than this part), to be that of the administering authority.

Further information

The latest version of this publication can be found at <www.ehp.qld.gov.au>. Note: where available, the publication number (e.g. EM1866 for this document) can be used as a search term.

¹ The original decisions under the subordinate legislation are subject to change. As at 11 May 2010 they are listed in:

- Regulation 110 of the Environmental Protection Regulation 2008; and
- Regulation 68C of the Environmental Protection (Waste Management) Regulation 2000.

² An appeal may be made to the Land Court for original decisions in part 1 of schedule 2.

³ Under the *Environmental Protection Act 1994* "business days does not include a business day between 26 December and 1 January in the following year".

⁴ Subdivision 1 is about appeals to the Land Court and information about this is contained in ss. 519 - 539.

Release

Environmental Protection Act

Transitional environmental program certificate of approval number MAN14620

This certificate of approval is issued by the administering authority pursuant to section 339 of the Environmental Protection Act 1994. A transitional environmental program is a specific program that, when approved, achieves compliance with the Environmental Protection Act 1994 for the matters dealt with by the program by reducing environmental harm, or detailing the transition to an environmental standard.

Under the provisions of the *Environmental Protection Act 1994*, this certificate of approval is hereby granted to:

Bradken Limited
76 Nathan Rd
Runcorn QLD 4113

cc. Bradken Limited
PO BOX 105
Waratah NSW 2298

approving the draft transitional environmental program; titled "Bradken Runcorn Foundry – Transitional Environmental Program (TEP) – Fugitive Furnace Emissions, 8 March 2012" for management of air emissions at 76 Nathan Rd, Runcorn.

The draft transitional environmental program, dated 8 March 2012, was received by this office on 8 March 2012.

The transitional environmental program remains in force until 31 January 2014.

In any case where conditions are imposed upon a certificate of approval, you may apply to the administering authority for a review of the decision. You may also appeal against the decision to the Planning and Environment Court.

Information relating to a review of decisions or appeals under the *Environmental Protection Act 1994* is included with this notice. This information is intended as a guide only. You may have other legal rights and obligations.

Should you have any queries in relation to this Notice, Renee Flinders of the Department of Environment and Resource Management on telephone 3406 2968 would be happy to assist you.

sch4p4(6) Personal information

Signature

16/03/2012

Date

Peter Vasel
Delegate
Environmental Protection Act 1994

Enquiries:
Brisbane City South
Southeast Region – Environmental Services
GPO Box 2771,
Brisbane QLD 4001
Ph: 07 3406 2968
Fax: 07 3406 2578

Information sheet

Environmental Protection Act

Internal review (DERM), and appeal to Planning and Environment Court

This information sheet forms part of an information notice under the Environmental Protection Act 1994 (EP Act). It gives a summary of the process for review and appeal to the Planning and Environment Court under the EP Act and subordinate legislation. Refer to sections 519–539 and schedule 2 of the EP Act for complete information about the process for internal review and appeal to the Planning and Environment Court.

Introduction

The *Environmental Protection Act 1994* (EP Act) provides for a right of internal review and appeal against certain decisions made under the EP Act. Decisions that can be reviewed or appealed are listed in schedule 2 of the EP Act and within certain sections of the regulations and subordinate legislation¹ made under the EP Act. The EP Act also provides that a dissatisfied person for a review decision, other than those listed in part 1 of schedule 2 of the EP Act², may appeal the decision to the Planning and Environment Court (the Court).

Summary of the process for internal review and appeal to the Court

Chapter 11, Part 3 of the EP Act

Division 1 — Interpretation

Section 519 Original decisions

- 1) A decision mentioned in schedule 2 is an "original decision".
- 2) A decision under an environmental protection policy or regulation that the policy or regulation declares to be a decision to which this part applies is also an "original decision".

Section 520 Dissatisfied person

This section nominates the dissatisfied person for an original or review decision.

Division 2 — Internal review of decisions

Section 521 Procedure for review

- 1) A dissatisfied person may apply for a review of an original decision.
- 2) The application must—
 - a) be made in the approved form to the administering authority within—
 - i) 10 business days³ after the day on which the person receives notice of the original decision or the administering authority is taken to have made the decision (the "review date"); or
 - ii) the longer period the authority in special circumstances allows not later than the review date; and
 - b) be supported by enough information to enable the authority to decide the application.

Release

Internal review (DERM), and appeal to Planning and Environment Court

- 3) On or before making the application, the applicant must send the following documents to the other persons who were given notice of the original decision—
 - a) notice of the application (the "review notice");
 - b) a copy of the application and supporting documents.
- 4) The review notice must inform the recipient that submission on the application may be made to the administering authority within 5 business days after the application is made to the authority.
- 5) If the administering authority is satisfied the applicant has complied with subsection (2) and (3), the authority must, within 10 business days after receiving the application—
 - a) review the original decision;
 - b) consider any submissions properly made by a recipient of the review notice; and
 - c) make a decision (the "review decision") to—
 - i) confirm or revoke the original decision; or
 - ii) vary the original decision in a way the administering authority considers appropriate.
- 6) The application does not stay the original decision.
- 7) The application must not be dealt with by—
 - a) the person who made the original decision; or
 - b) a person in a less senior office than the person who made the original decision.
- 8) Within 10 business days after making the decision, the administering authority must give written notice of the decision to the applicant and persons who were given notice of the original decision.
- 9) The notice must—
 - a) include the reasons for the review decision; and
 - b) inform the person of their right of appeal against the decision.
- 10) If the administering authority does not comply with subsections (5) or (8), the authority is taken to have made a decision confirming the original decision.
- 11) Subsection (7) applies despite section *Acts Interpretation Act 1954*, section 27A.
- 12) This section does not apply to an original decision made by—
 - a) for a matter, the administration and enforcement of which has been devolved to a local government, the local government itself or the chief executive officer of the local government personally; or
 - b) for another matter — the chief executive personally.
- 13) Also, this section does not apply to an original decision to issue a clean-up notice.

Section 522 Stay of operation of original decisions

- 1) If an application is made for review of an original decision, the applicant may immediately apply for a stay of the decision to—
 - a) for an original decision mentioned in schedule 2, part 1—the Land Court; or
 - b) for an original decision mentioned in schedule 2, part 2—the Court.

Release

Internal review (DERM), and appeal to Planning and Environment Court

- 2) The Land Court or the Court may stay the decision to secure the effectiveness of the review and any later appeal to the tribunal or the Court.
- 3) A stay may be given on conditions the Land Court or the Court considers appropriate and has effect for the period stated by the Land Court or the Court.
- 4) The period of a stay must not extend past the time when the administering authority reviews the decision and any later period the Land Court or the Court allows the applicant to enable the applicant to appeal against the review decision.

Division 4 — Appeals to court

Section 531 Who may appeal

- 1) A dissatisfied person who is dissatisfied with a review decision, other than a review decision to which subdivision 1⁴ applies, may appeal against the decision to the Court.
- 2) The chief executive may appeal against another administering authority's decision (whether an original or review decision) to the Court.
- 3) A dissatisfied person who is dissatisfied with an original decision to which section 521 does not apply may appeal against the decision to the Court.

Section 532 How to start appeal

- 1) An appeal is started by—
 - a) filing written notice of appeal with the registrar of the Court; and
 - b) complying with rules of court applicable to the appeal.
- 2) The notice of appeal must be filed—
 - a) if the appellant is the chief executive—within 33 business days after the decision is made or taken to have been made; or
 - b) if the appellant is not the chief executive—within 22 business days after the day the appellant receives notice of the decision or the decision is taken to have been made.
- 3) The Court may at any time extend the period for filing the notice of appeal.
- 4) The notice of appeal must state fully the grounds of the appeal and the facts relied on.

Section 533 Appellant to give notice of appeal to other parties

- 1) Within 8 business days after filing the notice of appeal, the appellant must serve notice of the appeal on—
 - a) if the appellant is the chief executive—all persons who were given notice of the original decision; or
 - b) if the appellant is not the chief executive—the other persons who were given notice of the original decision.
- 2) The notice must inform the persons that, within 10 business days after service of the notice of appeal, they may elect to become a respondent to the appeal by filing in the Court a notice of election under rules of court.

Section 534 Persons may elect to become respondents to appeal

A person who properly files in the Court a notice of election becomes a respondent to the appeal.

Release

Internal review (DERM), and appeal to Planning and Environment Court

Section 535 Stay of operation of decisions

- 1) The Court may grant a stay of a decision appealed against to secure the effectiveness of the appeal.
- 2) A stay may be granted on conditions the Court considers appropriate and has effect for the period stated by the Court.
- 3) The period of a stay must not extend past the time when the Court decides the appeal.
- 4) An appeal against a decision does not affect the operation or carrying out of the decision unless the decision is stayed.

Section 536 Hearing procedures

- 1) The procedure for an appeal is to be in accordance with the rules of court applicable to the appeal or, if the rules make no provision or insufficient provision, in accordance with directions of the judge.
- 2) An appeal is by way of rehearing, unaffected by the administering authority's decision.

Section 537 Assessors

The judge hearing an appeal may appoint one or more assessors to assist where the appeal involves a question of special knowledge and skill.

Section 538 Appeals may be heard with planning appeals

Where an appeal is also made under the *Integrated Planning Act 1997* for a premises, the court may order that both appeals be heard together or consecutively, or one stayed until the other is decided. This may occur even if the parties to the appeals are not the same. This ensures that needless delays are minimised.

Section 539 Powers of Court on appeal

- 1) In deciding an appeal, the Court may—
 - a) confirm the decision appealed against; or
 - b) vary the decision appealed against; or
 - c) set aside the decision appealed against and make a decision in substitution for the decision set aside.
- 2) If on appeal the Court acts under subsection (1)(b) or (c), the decision is taken, for this Act (other than this part), to be that of the administering authority.

¹ The original decisions under the subordinate legislation are subject to change. As at 11 May 2010 they are listed in:

- Section 110 of the *Environmental Protection Regulation 2008*; and
- Section 68C of the *Environmental Protection (Waste Management) Regulation 2000*.

² An appeal may be made to the Land Court for original decisions in part 1 of schedule 2.

³ Under the *Environmental Protection Act 1994* "business days does not include a business day between 20 December and 5 January in the following year".

⁴ Subdivision 1 is about appeals to the Land Court and information about this is contained in Sections 519 to 539.

DERM Permit ¹ number: SPDE03961912

Assessment manager reference	241112
Date application received:	14 March 2012
Permit type:	Development permit
Date of decision:	28 March 2012
Decision:	For a decision notice the application is approved subject to conditions, and the assessment manager's conditions are stated in this permit.
Relevant laws and policies:	<i>Environmental Protection Act 1994</i> and any related statutory instruments and subordinate legislation
Jurisdiction(s):	Material change of use of premises – For an environmentally relevant activity (<i>Sustainable Planning Regulation 2009</i> Schedule 7, table 2, item 1) – Change of DA

Development Description(s)

Property/Location		Development
76 Nathan Road, RUNCORN	Lots 1, 3 & 9 SP180764 and Lots 1, 4, 6 & 7 RP69078.	ERA 29.1 (d) – Metal Foundry operation – producing in a year more than 10,000t of ferrous metal castings in a year.

Reason(s) for inclusion of conditions

In accordance with section 289 of the *Sustainable Planning Act 2009*, the reason(s) for inclusion of conditions stated in this permit required by the concurrence agency response for the application are as follows.

The conditions are included pursuant to section 73B of the Environmental Protection Act 1994.>

¹ Permit includes licences, approvals, permits, authorisations, certificates, sanctions or equivalent/similar as required by legislation administered by the Department of Environment and Resource Management.

sch4p4(6) Personal information

Peter Vasel

Delegate, Chief executive administering the *Environmental Protection Act 1994*

Department of Environment and Resource Management

28 March 2012

Published on DES Disclosure Log
RTI Act 2009

CONDITIONS

The aforementioned description of the environmentally relevant activity (ERA) for which this development approval is issued is simply a restatement of the activity as prescribed in the legislation at the time of issuing this development approval. Where there is any conflict between the above description of the ERA for which this development approval is issued and the conditions as specified in this development approval as to the scale, intensity or manner of carrying out of the ERA, then such conditions prevail to the extent of the inconsistency.

This development approval authorises the ERA. It does not authorise environmental harm unless a concurrence agency condition within this development approval explicitly authorises that harm. Where there is no condition or the development approval is silent on a matter, the lack of a condition or silence shall not be construed as authorising harm.

This development approval consists of the following schedules-

- Schedule A - General Conditions
- Schedule B - Air
- Schedule C - Water
- Schedule D - Stormwater Management
- Schedule E - Land Application
- Schedule F - Noise
- Schedule G - Waste Management
- Schedule H - Self Monitoring and Reporting
- Schedule I - Definitions

Schedule A - General conditions

Display of Development Approval

- (A1) A copy of this approval must be kept in a location readily accessible to personnel carrying out the environmentally relevant activity (ERA).

Records

- (A2) Any record or document required to be kept by a condition of this approval must be kept at the site for a period of at least five years and be available for examination by an authorised person. The record retention requirements of this condition will be satisfied if any daily and weekly records are kept for a period of at least three (3) years and these records are then kept in the form of annual summaries after that period.

Maintenance of Measures, Plant and Equipment

- (A3) The operator of an ERA to which this approval relates must:
- (a) install all measures, plant and equipment necessary to ensure compliance with the conditions of this approval; and
 - (b) maintain such measures, plant and equipment in a proper and efficient condition; and
 - (c) operate such measures, plant and equipment in a proper and efficient condition.

Calibration

- (A4) All instruments and devices used for the measurement or monitoring of any parameter under any condition of this approval must be calibrated, and appropriately operated and maintained.

Release

Site-Based Management Plan

- (A5) A Site-Based Management Plan (SBMP) must be implemented that details how the actual and potential environmental impacts resulting from the carrying out of the environmentally relevant activity (ERA) will be managed.
- (A6) The SBMP must address at least the following matters:
- Routine operating practices and procedures to prevent or minimise environmental harm, however occasioned or caused during normal operations including the operation of fabric filter dust collectors, cyclones and amine scrubbers;
 - Maintenance practices and procedures, including procedures for determining when filters need to be replaced and replacing filters on the core shop spraying booths;
 - Burner maintenance program;
 - Measures to prevent the release of contaminants that will or may cause environmental harm to land or waters, (such as the storage of drums containing waste to be stored within a bunded area with their closures in place and the inspection of scrap metals for the furnaces);
 - Contingency plans and emergency procedures to deal with foreseeable risks and hazards including corrective responses to prevent and mitigate environmental harm (including any necessary site rehabilitation and the loading/unloading of bulk materials to take place only within designated vehicle loading/unloading areas);
 - Monitoring of the release of contaminants into the environment including procedures, methods, record keeping and notification of results;
 - Assessment of the environmental impact of any releases of contaminants that will or may cause environmental harm into the environment including procedures, methods, record keeping and notification of results;
 - Handling of environmental complaints;
 - Keeping and production of environmental records and reports;
 - Lines and methods of communication to be utilised for communication of procedures, plans, incidents, potential environmental problems and results, including a feedback mechanism to ensure that management is made aware of potential environmental problems and any failure of procedures adopted; and
 - Staff training and awareness of environmental issues related to the operation of the environmentally relevant activities, including responsibilities under the *Environmental Protection Act 1994*.
- (A7) A copy of the SBMP and any amendment of the SBMP must be kept at the site and be available for examination by an authorised person on request.

Prevent and/or Minimise Likelihood of Environmental Harm

- (A8) In carrying out an ERA to which this approval relates, all reasonable and practicable measures must be taken to prevent and/or minimise the likelihood of environmental harm being caused.

END OF CONDITIONS FOR SCHEDULE A

Schedule B - Air

Specified Releases of Contaminants to the Atmosphere

- (B1) Contaminants resulting from the operation of the sources described in Table 1 of the air schedule must only be released to the atmosphere from those release points specified in Table 1 of the air schedule and must be directed vertically upward without any impedance or hindrance.
- (B2) Contaminants must be released to the atmosphere from a release point at a height and a flow rate not less than the corresponding height and velocity stated for that release point in Table 1 – Contaminant Release Limits to Air.

Release

- (B3) Contaminants must not be released to the atmosphere from a release point at a concentration, as measured at a monitoring point, in excess of that stated in Table 1 - Contaminant Release Limits to Air.

Cyclones

- (B4) All contaminants leaving release points S1(a) and S41 must be treated by a cyclone prior to leaving each release point. This condition applies until such time as the cyclone that serves that release point is replaced or fails to be capable of efficient operation after which time condition B5 will apply to such release points.

Table 1 – Contaminant Release Limits to Air

Release point number	Release point description	Minimum release height (metres)	Minimum velocity (m/sec)	Contaminant release	Maximum release limit
S1(a)	Woodworking Extraction System (via cyclone)	NS	NS	NS	NS
S1(b)	Woodworking Extraction System (via baghouse)	NS	NS	NS	NS
S1(c)	Woodworking Extraction System (via baghouse)	NS	NS	NS	NS
S3	KW Sand Plant Extraction System (via baghouse)	25.0	10.0	Total suspended particulates	50 mg/m ³
S4	Jobbing Floor Large Sand Mixer Extraction System (via baghouse)	NS	NS	NS	NS
S6(a)	Amine System (via scrubber (a))	6.7	2.0	Tri-Ethyl Amine	4 ppm
S6(b)	Amine System (via scrubber (b))	6.7	2.0	Tri-Ethyl Amine.	4 ppm
S8	Furnace Extraction System that services both electric arc furnaces (via baghouse)	19.2	10.0	Total suspended particulates	100 mg/m ³
S11	Pangborn Shot Blast Unit (via baghouse)	13.0	10.0	Total suspended particulates	50 mg/m ³
S41	Woodworking Extraction System for CAD-CAM operation (via cyclone)	NS	NS	NS	NS
S42	Woodworking Extraction System for CAD-CAM operation (via baghouse)	NS	NS	NS	NS
SM14	Wheelabrator Shot Blast (via baghouse)	11.5	10.0	Total suspended particulates	50 mg/m ³
SM17	Wheelabrator Shot Blast (via baghouse)	15.0	10.0	Total suspended particulates	50 mg/m ³

Fabric Filter Dust Collector (FFDC)

- (B5) All contaminants leaving release points S1(b), S1(c), S3, S4, S8, S11, S42, SM14 and SM17 must be treated in a Fabric Filter Dust Collector (FFDC) prior to leaving each release point.
- (B6) All collected material removed from FFDCs must be removed and disposed of in a manner that will minimise the likelihood of release of the collected contaminants to the atmosphere or to waters.

Release

- (B7) FFDCs serving release points S3, S8, S11, SM14 and SM17 must be automatically cleaned by the reverse pulse or mechanical shaking method.
- (B8) A differential pressure sensor must be installed on the FFDCs serving release points S3, S8, S11, SM14 and SM17.
- (B9) A visual alarm must warn the operator in charge of the FFDCs serving release points S3, S8, S11, SM14 and SM17 whenever the pressure differential across the fabric exceeds 2.5 kilopascals.
- (B10) A filter medium breakthrough detector must be installed in the outlet of the FFDCs serving release points S3, S8, S11 and SM14.
- (B11) A visual alarm must warn the operator in charge of the FFDCs serving release points S3, S8, S11, SM14 and SM17 whenever filter medium breakthrough occurs.
- (B12) If a filter medium breakthrough occurs on any of the FFDCs, the corresponding equipment that produces the emissions must be shut down as soon as practicable.
- (B13) Replacement bags for the FFDCs must be held on site or be readily available from a local contract maintenance service company at all times.

Sand Silos

- (B14) The filling of all silos must be controlled by automatic devices which prevent silos from being filled beyond their nominal capacity.
- (B15) Silos that would otherwise release particulates to the atmosphere must be served by a FFDC.

Fume Control - Arc furnaces (2 x 7.5 tonne)

- (B16) Pouring spouts are to be plugged during melting, unless there is an extraction system in place.

Feedstock - Arc Furnaces

- (B17) The purchasing and inspection of scrap metal for use in melting furnaces must be in accordance with procedures for purchase specifications and incoming inspections that identify and minimise scrap metal contaminated by any oil, grease, polymer, paint or heavy metal plating.

Fuel Burning

- (B18) The only type of fuel to be burned in the following industrial fuel burning equipment is natural gas.
 - Industrial fuel burning equipment
 - (i) Scrap Preheating Equipment
 - (ii) Ladle Preheating Equipment
 - (iii) Heat Treatment Furnace and Ovens
 - (iv) Preheat Oven

Scrap Preheating

- (B19) The purchasing and inspection of scrap metals for use in preheating furnaces must be in accordance with procedures to identify and minimise scrap metal contaminated by any oil, grease, polymer, paint or heavy metal plating.

Heat Treatment Furnaces and Ovens, Preheat Oven

Release

- (B20) Input charges to heat treatment furnaces and preheat ovens must consist of iron or steel components only and must not be contaminated by any oil, grease, polymer, paint, heavy metal plating or any other non-refractory coating.

Amine Scrubbers - Core Plant Curing (Release points S6(a), S6(b) and S6(c))

- (B21) The exhaust from the core box/boxes in the Core Plant Curing Area must be treated in an amine scrubber prior to release to the atmosphere.
- (B22) The liquor in the scrubber(s) must be maintained at a pH level of less than 2.
- (B23) The scrubber(s) must be fitted with a device to monitor the pH of the scrubbing liquor.
- (B24) The scrubber and ancillary equipment, containing liquor or chemicals, must be installed within a bunded area capable of containing 110% of the volume of all liquids stored or used within the bund.
- (B25) If the measured scrubbing liquor pH is above 2 and/or the scrubbing liquor recirculation rate falls below that rate required for the effective operation of the scrubber and/or the scrubber fails to operate in accordance with the conditions of this approval, the corresponding activity, including any operation of equipment, that produces the emissions treated in the scrubber must cease as soon as practicable.

Spray painting

- (B26) Spray painting in the open must be carried out using all reasonable and practicable means to ensure that the releases of solvents, paint fumes and paint particulates do not cause any adverse effect on persons living in or using the area beyond the boundaries of the site.

Dust Control

- (B27) All trafficable areas must be sealed with bitumen or an equivalent hard surface and cleaned as often as is necessary so as to minimise the release of wind blown and traffic generated dust from such areas.

NOTE: This excludes the knockoff area where the excavator operates.

- (B28) Water sprays must be operated to minimise the release of particulate matter from all temporary storages of waste foundry sand and slag.

Complaint Investigation

- (B29) The operator of an ERA to which this approval relates must investigate any complaint concerning odour and fume received from a person allegedly affected by the odours/fumes and any complaint notified in writing by the administering authority. The investigation must address the adequacy of measures implemented to prevent odour and fume releases causing an environmental nuisance and whether any remedial actions are necessary and whether practices and procedures incorporated into the SMP need to be updated to prevent such occurrences.

END OF CONDITIONS FOR SCHEDULE B

Schedule C - Water

Release to Waters

- (C1) Contaminants must not be released from the site to any waters or the bed and banks of any waters.

END OF CONDITIONS FOR SCHEDULE C

Release

Schedule D - Stormwater management

Release of Contaminated Stormwater Runoff

- (D1) There must be no release of stormwater runoff that has been in contact with any contaminants at the site to any waters, roadside gutter or stormwater drain.

Stormwater Management Plan (SMP)

- (D2) A Stormwater Management Plan (SMP) must be implemented that details how the actual and potential environmental impacts resulting from the contamination of stormwater at the site will be managed.
- (D3) The SMP must address at least the following matters:
- (i) prevention of incident stormwater and stormwater runoff from contacting wastes or contaminants;
 - (ii) diversion of upstream runoff away from areas containing wastes or contaminants, including trafficable areas and waste storage areas;
 - (iii) minimisation of the size of contaminated areas;
 - (iv) cleaning of contaminated areas without water;
 - (v) installation of pollution control equipment such as oil separators, silt and rubbish traps, stormwater diversion systems, sedimentation ponds and settling pits where practical;
 - (vi) paving and roofing of contaminated areas;
 - (vii) sampling and monitoring of any contaminated stormwater released from the site to waters for contaminants likely to be present in the stormwater and assessment of the impact of any such releases on the receiving environment; and
 - (viii) recording and reporting the results of the monitoring of stormwater releases and any assessment of the impacts of the releases on the receiving environment to the administering authority.
- (D4) A copy of the SMP and any amendment of the SMP must be kept at the site and be available for examination by an authorised person on request.

General

- (D5) The maintenance and cleaning of vehicles and any other equipment or plant, where such maintenance and cleaning has the capacity to release contaminants which will or may cause environmental harm, must be carried out in areas from where contaminants cannot be released into any waters, roadside gutter or stormwater drainage system.
- (D6) Any spillage of wastes, contaminants or other materials capable of causing environmental harm or nuisance must be cleaned up as quickly as practicable. Such spillage's must not be cleaned up by hosing, sweeping or otherwise releasing such wastes, contaminants or material to any stormwater drainage system, roadside gutter or waters.

Bunding

- (D7) All liquid chemical tank storages used to contain raw materials, processed materials and/or wastes, must be banded so as to effectively contain a volume equivalent to at least that of 100 % of the largest storage tank plus 10 % of the second largest tank within the bund.
- (D8) All liquid chemical drum storages, used to contain raw materials, processed materials and/or wastes, including storages of oils, paints, solvents and resins, must be banded so as to effectively contain a volume equivalent to at least 25% of the maximum design storage volume within the bund.
- (D9) All banded areas must be roofed where practicable.

END OF CONDITIONS FOR SCHEDULE D

Release

Schedule E – Land application**Release of Contaminants to Land**

- (E1) Contaminants must not be released to land.

End of Conditions for Schedule E**Schedule F - Noise****Emission of Noise**

- (F1) All noise from activities must not exceed the levels specified in Table 2 – Noise Limits, with the exception of brief and temporary noise from metal unloading from trucks that is carried out in accordance with condition F5.

TABLE 2 – Noise Limits

Noise level dB(A) measured as	Monday to Saturday			Sundays and public holidays		
	7am - 6pm	6pm - 10pm	10pm - 7am	9am - 6pm	6pm - 10pm	10pm - 9am
Noise measured at a 'Noise sensitive place'						
LA10, adj, 10 mins	60	60	55	60	60	55
LA1, adj, 10 mins	65	65	60	65	65	60
Noise measured at a 'Commercial place'						
LA10, adj, 10 mins	65	65	60	65	65	60
LA1, adj, 10 mins	70	70	65	70	70	65

- (F2) The Main Foundry doors, specifically the Scrap Entry Door, Aftercast South Door and the Northern Main Bay Door, must be kept closed at all times after 8.30 pm and before 6.00 am.
- (F3) External telephone repeater bells and amplified address systems must not be used after 8.30 pm nor before 6.00 am.
- (F4) External Knockoff work must only occur between the hours of 8 am and 5 pm.
- (F5) Metal Unloading from trucks must only occur between the hours of 7 am and 5 pm.

END OF CONDITIONS FOR SCHEDULE F**Schedule G - Waste management****General**

- (G1) The operator of an ERA to which this approval relates must not:
- (i) burn waste at or on the site; or
 - (ii) allow waste to burn or be burnt at or on the site; or
 - (iii) remove waste from the site and burn such waste elsewhere.

Release

- (G2) There must be no on-site disposal of resin, shot blast sand, paint, solvent, or drums at the site.

Material Storage and Handling

- (G3) Except when necessarily opened for use, all containers of oils, paints, resins and solvents must be sealed or covered to prevent loss of contents or exposure of the contents to the atmosphere.

Waste Storage and Handling Conditions

- (G4) All waste foundry sand and slag produced and stored at the site must be effectively contained to minimise the likelihood of:
- (i) leachate from the material being released to any waters or stormwater drainage system;
 - (ii) such material causing and/or contributing to land contamination; and
 - (iii) being washed or blown out of the designated storage area.

Waste Management Plan (WMP)

- (G5) A Waste Management Plan (WMP) must be implemented that details how the actual and potential environmental impacts resulting from all wastes, that will or may cause environmental harm, produced at the site will be managed.
- (G6) The WMP must address at least the following matters:
- (i) the quantity and nature of each waste produced, and
 - (ii) the current method of disposal, and
 - (iii) proposed methods of pre-treatment or disposal, and
 - (iv) expected reduction in quantity of waste produced through waste minimisation and cleaner production, and
 - (v) areas to be set aside for the segregation and storage of recyclable solid wastes;
 - (vi) where practicable recyclable waste is not be deposited in the general waste stream. Such steps may include, but not be limited to provision of receptacles; suitable signage; and promotion of awareness among staff of the recycling service; and
 - (vii) provisions for carrying out and submitting to the administering authority a waste audit every 5 years.
- (G7) A copy of the WMP and any amendment of the WMP must be kept at the site and be available for examination by an authorised person on request.

Off Site Movement

- (G8) Where regulated waste is removed from the site (other than by a release as permitted under another schedule of this approval), the operator of an ERA to which this approval relates must monitor and keep records of the following:
- (a) the date, quantity and type of waste removed; and
 - (b) name of the waste transporter and/or disposal operator that removed the waste; and
 - (c) the intended treatment/disposal destination of the waste.

Notification of Improper Disposal Of Regulated Waste

- (G9) If the operator of an ERA to which this approval relates becomes aware that a person has removed regulated waste from the site and disposed of the regulated waste in a manner which is not authorised by this approval or improper or unlawful, then the operator of an ERA to which this approval relates must, as soon as practicable, notify the administering authority of all relevant facts, matters and circumstances known concerning the disposal.

END OF CONDITIONS FOR SCHEDULE G

Release

Schedule H - Self monitoring and reporting

Complaint Recording

- (H1) All complaints received by the operator of an ERA to which this approval relates regarding releases of contaminants from operations at the site must be recorded and kept with the following details:
- (i) time, date and nature of complaint;
 - (ii) type of communication (telephone, letter, personal etc.);
 - (iii) name, contact address and contact telephone number of complainant (Note: if the complainant does not wish to be identified then "Not identified" is to be recorded);
 - (iv) response and investigation undertaken as a result of the complaint;
 - (v) name of person responsible for investigating complaint; and
 - (vi) action taken as a result of the complaint investigation and signature of responsible person.
- (H2) The complaints record required by condition number H1 must be maintained for a period of not less than 5 years.

Notification of Emergencies and Incidents

- (H3) Where the operator of an ERA to which this approval relates has not given notification to the administering authority under section 320 of the *Environmental Protection Act 1994*, as soon as practicable after becoming aware of any emergency or incident that results in the release of contaminants not in accordance, or reasonably expected to be not in accordance with the conditions of this approval, the operator of an ERA to which this approval relates must notify the administering authority of the release by telephone or facsimile.

Monitoring of Contaminant Releases to Air

- (H4) Monitoring of any releases to the atmosphere required by a condition of this approval must be carried out in accordance with the following requirements:
- (a) Monitoring provisions for the release points listed in Table 1 – Contaminant Release Limits to Air must comply with the Australian Standard AS4323.1 – 1995 'Stationary source emissions Method 1: Selection of sampling positions' (or more recent editions).
 - (b) The following tests must be performed for each required determination specified in Table 1 – Contaminant Release Limits to Air:
 - (i) gas velocity and volume flow rate;
 - (ii) temperature;
 - (iii) water vapour concentration (moisture content).
 - (c) Where practicable, samples must be taken when emissions are expected to be at maximum rates.
 - (d) During the sampling period the following additional information must be gathered:
 - (i) production rate at the time of sampling;
 - (ii) raw materials used;
 - (iii) number of equipment and mixing vessels operating;
 - (iv) operating or mixing temperature;
 - (v) product made; and
 - (vi) reference to the actual test methods and accuracy of the methods.

Noise Monitoring

- (H5) When requested by the administering authority, noise monitoring must be undertaken to investigate any complaint of noise nuisance, and the results notified within 14 days to the administering authority.

Release

- (H6) For the purposes of investigating any complaint made about noise nuisance and also for checking compliance with condition F1, monitoring and recording of the noise levels from the site must be undertaken for the following descriptors, characteristics and conditions:
- LA 10, adj, 10 mins;
 - LA 1, adj, 10 mins;
 - the level and frequency of occurrence of impulsive or tonal noise;
 - atmospheric conditions including wind speed and direction;
 - effects due to extraneous factors such as traffic noise; and
 - location, date and time of recording.
- (H7) The method of measurement and reporting of noise levels must comply with the latest edition of the Environmental Protection Agency's Noise Measurement Manual.
- (H8) The method of measurement and reporting of noise levels must be undertaken by a person or body possessing appropriate experience and qualifications to perform the required measurements.
- (H9) Records must be kept of the results of all monitoring of noise levels and other information required to be recorded in conjunction with such monitoring for a period of at least 5 years.

Report Submission

- (H10) The operator of an ERA to which this approval relates must ensure that the results of all monitoring performed in accordance with this approval for the period covered by the return are submitted with the Annual Return.

Exception Reporting

- (H11) The operator of an ERA to which this approval relates must notify the administering authority in writing within 28 days of completion of analysis of any result of a monitoring program required by a condition of this approval that indicates an exceedance of any limit specified in this approval.
- (H12) The written notification required by condition number H11 above must include:
- (i) The full analysis results, and
 - (ii) Details of investigation or corrective actions taken, and
 - (iii) Any subsequent analysis.

END OF CONDITIONS FOR SCHEDULE H

Release

Schedule I - Definitions

For the purposes of this development approval the following definitions apply:

“administering authority” means the Environmental Protection Agency or its successor.

“annual return” means the return required by the annual notice (under Section 316 of the *Environmental Protection Act 1994*) for the Section 73F registration certificate that applies to the development approval.

“approval” means ‘notice of development application decision’ or ‘notice of concurrence agency response’ under the *Integrated Planning Act 1997*.

“background noise level” means either:

$L_{A90,T}$ being the A-weighted sound pressure level exceeded for 90 percent of the time period of not less than 15 minutes, using Fast response, or

$L_{A90,T}$ being the arithmetic average of the minimum A-weighted sound pressure level readings measured in the absence of the noise under investigation during a representative time period of not less than 15 minutes, using Fast response

“commercial place” means a place used as an office or for business or commercial purposes.

“contaminants” means contaminants that will or may cause environmental harm.

“cubic metre (m^3)” means the volume of dry gaseous contaminant which occupies 1 cubic metre at a temperature of zero degrees Celsius and at an absolute pressure of 101.3 kilopascals.

“dwelling” means any of the following structures or vehicles that is principally used as a residence:

- a house, unit, motel, nursing home or other building or part of a building;
- a caravan, mobile home or other vehicle or structure on land;
- a water craft in a marina.

“intrusive noise” means noise that, because of its frequency, duration, level, tonal characteristics, impulsiveness or vibration -

- is clearly audible to, or can be felt by, an individual; and
- annoys the individual.

In determining whether a noise annoys an individual and is unreasonably intrusive, regard must be given to Australian Standard 1055.2 – 1997 Acoustics – Description and Measurement of Environmental Noise Part 2 – Application to Specific Situations.

“ $L_{A1,adj,10\ mins}$ ” means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 1% of any 10 minutes measurement period, using Fast response.

“ $L_{A10,adj,10\ mins}$ ” means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 10% of any 10 minutes measurement period, using Fast response.

“land” in the land application schedule means land excluding waters and the atmosphere.

“ mg/m^3 ” means milligrams per cubic metre.

“noise affected premises” means a noise sensitive place or a commercial place.

“noise sensitive place” means:

- a dwelling, mobile home or caravan park, residential marina or other residential premises; or
- a motel, hotel or hostel; or
- a kindergarten, school, university or other educational institution; or

Release

- a medical centre or hospital;
 - a protected area; or
 - a park or gardens; and
- includes the curtilage of such place.

"ppm" means parts per million.

"protected area" means -

- a protected area under the Nature Conservation Act 1992; or
- a marine park under the Marine Parks Act 1992; or
- a World Heritage Area.

END OF CONDITIONS

Published on DES Disclosure Log
RTI Act 2009

Release



Enquiries to: S-H Daphne Huang
Telephone: (07)3274 9133
Laboratory Reference: 09PW2119 - 09PW2120
Client Reference: Unknown Odour at Runcorn Area

20 May 2010

TO: Luke Stephan
Environmental Officer, Brisbane South
Queensland Environmental Protection Agency
PO Box 2771 / Floor 23, 288 Edward St
Brisbane Queensland 4001

Queensland Health



LABORATORY REPORT

Date Received : 19 March 2010
Sample Description : Air sampled into two (2) 3L Summa canisters
Reason for Submission : Identification of Volatile Organic Compounds (VOCs).
Method : Gas Chromatography/Mass Spectrometry analysis by USEPA Method TO15
Date Commenced : 12 April 2010

RESULT OF ANALYSIS

The quantitative VOC results are shown in Table One.

Several other peaks were present in the chromatogram which were identified by library match to be alkanes, aldehydes, ketones, durenes and esters, but all were believed to be less than approximately 5 ppbv.

Analyst

sch4p4(6) Personal information

S-H Daphne Huang

This report shall not be reproduced except in full or used in any way for advertising purposes without the written permission of the laboratory. The results relate to the samples as received. The responsibility for sampling rests with the client.

OFFICE:

39 Kessels Rd
Coopers Plains QLD 4108

POSTAL:

PO Box 594
Archerfield QLD 4108

TELEPHONE:

(07) 3274 9021

FAX:

(07) 3274 9123
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Table One: Results for Unknown Odour at Runcorn Area

Sample Number	09PW2119	09PW2120
	sch4p4(6) Personal information	sch4p4(6) Personal information
Sample Description	09/03/2010, 4:32pm strong burnt metal smell	16/06/2010, 10:10pm odour lasted 2210 - 2330, S/E breeze
Canister Number	1109	1112
Compound	Amount (ppbv)	Amount (ppbv)
Butane	1.6	<LOR
Pentane	0.6	<LOR
Hexane	<LOR	<LOR
Heptane	<LOR	<LOR
Octane	<LOR	<LOR
Nonane	<LOR	<LOR
Decane	<LOR	<LOR
Undecane	<LOR	<LOR
Dodecane	<LOR	<LOR
Isobutane	<LOR	<LOR
2-Methylbutane	<LOR	<LOR
2,2-Dimethylbutane	<LOR	<LOR
2,3-Dimethylbutane	<LOR	<LOR
2-Methylpentane	<LOR	<LOR
3-Methylpentane	<LOR	<LOR
2,4-Dimethylpentane	<LOR	<LOR
2,3-Dimethylpentane	<LOR	<LOR
2-Methylhexane	<LOR	<LOR
3-Methylhexane	<LOR	<LOR
2,2,4-Trimethylpentane	<LOR	<LOR
2,3,4-Trimethylpentane	<LOR	<LOR
2-Methylheptane	<LOR	<LOR
3-Methylheptane	<LOR	<LOR
Cyclopentane	<LOR	<LOR
Methylcyclopentane	<LOR	<LOR
Cyclohexane	<LOR	<LOR
Methylcyclohexane	<LOR	<LOR
1-Butene	<LOR	<LOR
trans-2-Butene	<LOR	<LOR
cis-2-Butene	<LOR	<LOR
1-Pentene	<LOR	<LOR
trans-2-Pentene	<LOR	<LOR
cis-2-Pentene	<LOR	<LOR
1-Hexene	<LOR	<LOR
1,3-Butadiene	<LOR	<LOR
Isoprene	<LOR	<LOR
Benzene	1.0	<LOR
Toluene	1.2	0.6
Ethylbenzene	<LOR	<LOR
m- & p-Xylene	0.6	<LOR

Table One: Results for Unknown Odour at Runcorn Area

Sample Number	09PW2119	09PW2120
	sch4p4(6) Personal information	sch4p4(6) Personal information
Sample Description	09/03/2010, 4:32pm strong burnt metal smell	16/06/2010, 10:10pm odour lasted 2210 - 2330, S/E breeze
Canister Number	1109	1112
Compound	Amount (ppbv)	Amount (ppbv)
Styrene	<LOR	<LOR
o-Xylene	<LOR	<LOR
Cumene	<LOR	<LOR
Propylbenzene	<LOR	<LOR
3-Ethyltoluene	<LOR	<LOR
4-Ethyltoluene	<LOR	<LOR
2-Ethyltoluene	<LOR	<LOR
1,3,5-Trimethylbenzene	<LOR	<LOR
1,2,4-Trimethylbenzene	<LOR	0.5
1,2,3-Trimethylbenzene	<LOR	<LOR
1,3-Diethylbenzene	<LOR	<LOR
1,4-Diethylbenzene	<LOR	<LOR
Ethanol	20*	20*
Acrolein	2	0.6
Acetone	20*	3.7
Isopropyl Alcohol	7.9	<LOR
Methyl tert-butyl ether	<LOR	<LOR
Vinyl acetate	<LOR	<LOR
Methyl ethyl ketone	1.7	0.5
Ethyl acetate	<LOR	<LOR
Tetrahydrofuran	<LOR	<LOR
1,4-Dioxane	<LOR	<LOR
Methyl methacrylate	<LOR	<LOR
Methyl isobutyl ketone	<LOR	<LOR
Methyl butyl ketone	<LOR	<LOR
Dichlorodifluoromethane	<LOR	<LOR
Dichlorotetrafluoroethane	<LOR	<LOR
Trichlorofluoromethane	<LOR	<LOR
1,1,2-Trichloro-1,2,2-trifluoroethane	<LOR	<LOR
Bromomethane	<LOR	<LOR
Bromodichloromethane	<LOR	<LOR
Dibromochloromethane	<LOR	<LOR
1,2-Dibromoethane	<LOR	<LOR
Bromoform	<LOR	<LOR
Chloromethane	0.6	0.6
Chloroethane	<LOR	<LOR
Methylene Chloride	<LOR	<LOR
1,1-Dichloroethane	<LOR	<LOR
Chloroform	<LOR	<LOR
1,2-Dichloroethane	<LOR	<LOR

Table One: Results for Unknown Odour at Runcorn Area

Sample Number	09PW2119	09PW2120
Sample Description	sch4p4(6) Personal information 09/03/2010, 4:32pm strong burnt metal smell	sch4p4(6) Personal information 16/06/2010, 10:10pm odour lasted 2210 - 2330, S/E breeze
Canister Number	1109	1112
Compound	Amount (ppbv)	Amount (ppbv)
1,1,1-Trichloroethane	<LOR	<LOR
Carbon tetrachloride	<LOR	<LOR
1,2-Dichloropropane	<LOR	<LOR
1,1,2-Trichloroethane	<LOR	<LOR
1,1,2,2-Tetrachloroethane	<LOR	<LOR
Hexachlorobutadiene	<LOR	<LOR
Vinyl chloride	<LOR	<LOR
1,1-Dichloroethylene	<LOR	<LOR
trans-1,2-Dichloroethylene	<LOR	<LOR
cis-1,2-Dichloroethylene	<LOR	<LOR
Trichloroethylene	<LOR	<LOR
cis-1,3-dichloropropene	<LOR	<LOR
trans-1,3-dichloropropene	<LOR	<LOR
Tetrachloroethylene	<LOR	<LOR
Chlorobenzene	<LOR	<LOR
Benzyl chloride	<LOR	<LOR
1,3-Dichlorobenzene	<LOR	<LOR
1,4-Dichlorobenzene	<LOR	<LOR
1,2-Dichlorobenzene	<LOR	<LOR
1,2,4-Trichlorobenzene	<LOR	<LOR
Carbon disulfide	0.6	<LOR

Limit of Reporting (LOR) = 0.5 ppbv

* Estimated values only (outside calibration curve)

PROJECT PROPOSAL & WORK PLAN

PROJECT TITLE:	Runcorn Air Quality Monitoring Program
PROJECT DIRECTOR:	
PROJECT MANAGER:	
Proposal Author:	David Wainwright
EPA work unit/office of origin:	
EPA File Reference	

1. Proposal

PROJECT TITLE:	Runcorn Air Quality Monitoring Program
BACKGROUND:	<p>The EPA is developing the <i>Runcorn Air Quality Monitoring Program</i> in response to community concerns about impacts from the Runcorn Foundry emissions in the Runcorn area. Community concerns have been focused on perceived health and nuisance impacts from various operations occurring at the foundry.</p> <p>The EPA is not currently in a position to provide advice to the Runcorn community on the air quality in the Runcorn area as there is insufficient air monitoring in this area.</p>
OBJECTIVES:	<p>In collaboration with Bradken Foundry (other entities such as the <u>?????</u> name the industries involved????), the EPA will:</p> <ul style="list-style-type: none"> • Monitor airborne particulate levels and composition and VOC speciation in the residential areas adjacent to the composting industries. • Identify any activities within the Runcorn Area and other potential areas which are having a health or nuisance impact, through airborne releases, on the Runcorn residential areas. • Provide accessible information to the local community on Runcorn's air quality.
OUTPUT:	<p>The outputs detailed below will contribute to:</p> <ul style="list-style-type: none"> • Clear determination of the particle levels and composition and VOC species within the Runcorn area. • Identification of any adverse health or nuisance air borne impacts on the Runcorn community. • To obtain sufficient information to take actions, where monitoring has identified adverse health or nuisance impacts, to improve the quality of the air in the Runcorn area. • Information on the particle levels in the Runcorn area to be accessible by the community.
EXPECTED DURATION:	01 / 4 / 2009 - 30 / 12 / 2009 (8 months)
METHODOLOGY:	The EPA air quality monitoring program is to be conducted at 3 sites in the community close to where impacts from air emissions from the foundry may be expected to occur. The program will initially run for a 8 month period (includes a

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6 monitoring period) with reviews of the program at 3 and 6 month with the intention of being able to revise the program if needed.

This program will provide a comprehensive dataset on particle levels and particle composition and VOC speciation in the community surrounding the foundry. The dataset will include:

- PM₁₀ levels for assessing against national standards based on health.
- TSP levels for daily assessment against nuisance criteria.
- Elemental composition of TSP/ PM₁₀ for assessing against standards based on health
- Dustfall levels for monthly assessment against nuisance criteria.
- Speciation of volatile organics for assessment against national and international standards based on health.

Sampling/Analysis

The particles to be measured, the analysis of the particle components, the number and location of sites chosen will be based on the knowledge of the foundry's operation, the predominant prevailing winds for the 6 month period and location of community concern. Three sites will be located at:

1. XX
2. XX
3. XX

The EPA's monitoring program will focus on dustfall, total suspended particles (TSP), PM₁₀ and speciation of the volatile organics.

The monitoring consists of:

- Sites 1, and 2:
 - Dustfall – Monthly sampling. Dustfall material collected to have metal composition determined. Samplers to be operated in accordance to Australian/New Zealand Standard AS/NZS 3580.10.1:2003 Methods for sampling and analysis of ambient air Method 10.1: Determination of particulate matter—Deposited matter—Gravimetric method
 - PM₁₀ Low Volume Sampler – PM₁₀ material collected to have metal composition determined. Sampler to be operated in accordance to Australian/New Zealand Standard PM₁₀ (AS/NZS 3580.9.9:2006) Methods for sampling and analysis of ambient air - Determination of suspended particulate matter – PM₁₀ low volume sampler - Gravimetric method.
 - Sampling will be carried out for 24 hours every sixth day from midnight to midnight.
 - Speciation of the volatile organics - fortnightly samples to be collected using the Radiello Passive Air Sampling System. Samples to be analysed by Leeder Consulting Laboratories in Melbourne for the compounds described in Appendix 3. Leeder's laboratory has NATA accreditation.
- Site 3:
 - TSP and PM₁₀ TEOM analysers operated in accordance to Australian/New Zealand Standard AS 3580.9.8—2001 - Methods for sampling and analysis of ambient air - Method 9.8: Determination of suspended particulate matter—PM₁₀ continuous direct mass method using a tapered element oscillating microbalance analyser.
 - Continuous measurements of TSP and PM₁₀ levels will be measured at a resolution of 30 minute averages.
 - TSP TEOM fitted with an ACCULINK system to collect the TSP material for compositional analysis.
 - Meteorological observations of wind speed and direction,

Release

	<p>humidity, rainfall and barometric pressure.</p> <ul style="list-style-type: none"> - Speciation of the volatile organics, sampling as per sites 1 and 2. <p>Additional sampling for the speciation of the volatile organics may be required depending on initial results of the passive sampling, this sampling will be carried out for 24 hours every sixth day from midnight to midnight for a limited period using specially-treated canisters using the USEPA analytical method TO-15 (<i>Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air -- Second Edition</i> (EPA/625/R-96/010b, January 1999))</p> <p>The particle samples collected by the dustfall, TSP and PM₁₀ samplers will be analysed by Queensland Health Forensic and Scientific Services for metals in accordance to the USEPA Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air – Method IO-3.1: Selection, Preparation and Extraction of Filter Material and Method IO-3.4: Determination of Metals in Ambient Particulate Matter Using Inductively Coupled Plasma (ICP) Spectroscopy. Metals to be determined include:</p> <p>Antimony Arsenic Boron Barium Beryllium Calcium Cobalt Chromium Copper Iron Mercury Manganese Molybdenum Nickel Lead Selenium Strontium Vanadium Zinc</p> <p>Reporting</p> <ul style="list-style-type: none"> - EPA Website: <ul style="list-style-type: none"> o TSP and PM₁₀ TEOM continuous data could be made available on the EPA website with interpretation against a daily TSP nuisance criterion and for PM₁₀ the NEPM air quality standard. Data would be updated every 3 hours with the ability to interrogate the site for historic data. - Southern region AQ bulletin: <ul style="list-style-type: none"> o All TSP, PM₁₀ and dustfall data summaries for the month could be presented and interpreted against appropriate criteria. Bulletin is available between 4 to 6 weeks of the month ending on the EPA website. - Interim reports based on 3, months measurement and final report on 6 months measurement
KEY STAKEHOLDERS & CUSTOMERS:	<p>Stakeholders:</p> <ul style="list-style-type: none"> - EPA - Bradken Foundry - Queensland Health <p>Customers</p> <ul style="list-style-type: none"> - Complainants - Runcorn Residents - Media outlets - Elected representatives
LINKS TO OTHER PROJECTS:	<p>The proposed project will link with:</p> <ul style="list-style-type: none"> - EPA compliance program

2. Resources

LEAD DIVISION:	<p><i>Division</i> <i>Include details of steering committee etc</i></p>
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<p>PROJECT TEAM [7 FTE]:</p>	<p><u>Team members</u></p> <p>Project Director: <i>Name</i> <i>Scott</i> <i>Position Title</i></p> <p>Project Manager: <i>Name</i> <i>Lulu</i> <i>Position Title</i></p> <p>Team Members: <i>Name</i> Don Neale <i>Position Title</i> Principal Scientist</p> <p><i>Name</i> Lindsay Harris <i>Position Title</i> Technical Officer</p> <p><i>Name</i> Adrian Iavery <i>Position Title</i> Technical officer</p> <p><u>Support</u></p> <p><i>Name</i> <i>Position Title</i></p> <p><i>Name</i> <i>Position Title</i></p>
<p>COST/BUDGET:</p>	<p>1. Personnel = \$ 26,326</p> <ul style="list-style-type: none"> - Development and project management of the monitoring program – 10FTE days. - Field monitoring program <ul style="list-style-type: none"> o Sampler filter change maintenance/operation – 36 FTE days o Air Science staff installation and servicing – 10 FTE days - Reporting Air Science staff <ul style="list-style-type: none"> o Web page development/operation – 2 FTE days o Reports 3 and 6 monthly – 6 FTE days o - Southern Region Staff assist in site locating/project management – 12 FTE days - Southern Region Staff assist in reporting for 3 and 6 monthly reports – 2 FTE days - FTE costs for Air Sciences based on actual positions \$23,266 - FTE costs for Environmental Services based on PO4 daily rate of \$255. - Total FTE days for Environmental Services = 12 for 8 months = \$3060 - Total cost = \$26,326 <p>2. Equipment needed to be purchased= \$1,100</p> <ul style="list-style-type: none"> - 3 x dustfall samplers and stands \$ 600 - Placement and installation of equipment: \$ 500 <p>3. Operational = \$28,600</p> <ul style="list-style-type: none"> - Travel - <i>Travel Days x Daily Rate x FTEs</i> <ul style="list-style-type: none"> - Air fares, car hire etc - Purchase of consumables and other operational costs \$ 1 200 - Electricity \$ 800 - Measurement/Analysis <ul style="list-style-type: none"> - PM₁₀, Dustfall, Metals \$ 4 600 - Dustfall \$ 1 500 - VOC speciation \$20 000 - Communication costs live TEOM data to website \$ 500

Release



3. Key Actions /Tasks (Milestones)

Objective	Action/Task	Performance Indicator	Responsible Person
Objective 1. <ul style="list-style-type: none"> Monitor airborne particulate levels and composition and VOC speciation in the residential areas adjacent to the composting industries. 			
1.1	Request Qld Health assistance in assessing air quality data to determine any potential health impacts	Letter to Qld Health March 2009	Env Services
1.2	Negotiate with the community and other effected parties to installed monitoring equipment including TEOM, Micro Vols, Dustfall samplers and canisters .	All monitoring sites confirmed March 2009	Env Services / Don Neale
1.3	Install Partisols, Passive Samplers and Dustfall Samplers	March 2009	Lindsay Harris/Adrian Lavery
1.4	Install all TEOM monitoring	Equipment installed May 2009	Brian Davis/Russel Harper
1.5	Commencement of full monitoring Program.	Monitoring commences May 2009	David Wainwright/ Env Services
1.6	Collection and analysis of samples. Maintenance and calibration of equipment.	Samples analysed Ongoing	Lindsay Harris
1.7	Monitoring data analysed and released monthly on the EPA website.	Data on EPA website Ongoing	Don Neale
1.8	Qld Health to provide comments on 3 monthly data.	Comments received October 2009	Env Services
1.9	Compile 3 monthly report detailing identification of any potential health or environmental nuisance risks.	Report completed October 2009	Don Neale
1.10	Qld Health to provide comments on 6 monthly data.	Comments received January 2010	Env Services
1.11	Compile 6 monthly report detailing identification of any potential health or environmental nuisance risks.	Report completed January 2010	Don Neale
1.12	Actions developed to address any identified health or nuisance risks based on review of 6 monthly data.	Schedule for completion of actions developed March 2010	Env Services / David Wainwright
Objective 2. <p>Identify any activities within the Runcorn Area and other potential areas which are having a health or nuisance impact, through airborne releases, on the Runcorn residential areas</p>			
2.1	Review the air monitoring data; identify industries/activities having a health or nuisance impact.	Information reviewed and risks identified. February 2010	Env Services / David Wainwright
2.2	Develop a risk schedule for all EPA approved sites.	Schedule completed March 2010	Env Services / David Wainwright
2.3	Develop a program, including methodology, to amend all EPA approvals for sites considered to have a high risk of causing health or nuisance impacts.	Program developed.	Env Services
2.4	Commence negotiation with approval holders	Negotiations	Env Services

	with identified high risk sites.	completed	
2.5	Amend approvals for all identified high risk sites with improved conditions to mitigate risks and to include sufficient monitoring.	Approval amended.	Env Services.
Objective 3. Provide accessible information to the local community and industry on Runcorn's air quality.			
3.1	Daily and monthly monitoring data released on EPA website.	Ongoing	David Wainwright/Don Neale
3.2	Release of 3 monthly report released to complainants and media.	Report released November 2009	Env Services / David Wainwright
3.3	3 monthly report released on EPA website.	Report on EPA website November 2009	Don Neale
3.4	Release of 6 monthly report to complainants and media.	Report released February 2010	Env Services / David Wainwright
3.5	6 monthly report released on EPA website.	Report on EPA website February 2010	Don Neale
3.6	Media release of final Report	Media release February 2010	Env Services /David Wainwright / Media Unit

NB: Project Managers may prefer to complete this section as an XL file and attach to hard copy project plan.

4. Risk Management

Risk	Likelihood	Impact	Risk Management Strategy
<i>Identify the major risks for the project</i>	<i>High Medium Low</i>	<i>High Medium Low</i>	<i>Provide details of how the risk can be minimised.</i>
Project will identify serious health issues associated with the release of contaminants from composting industries	Low	High	<ul style="list-style-type: none"> Closely monitor ambient air monitoring results for any early signs of potential health risks to the community. Work closely with Queensland Health representative to identify any potential health risks. Manage upward information about the progress of the various elements of the project. Provide early advice to Government if required.
Project will identify serious environmental nuisance impacts associated with airborne releases from operations at the composting industries	Medium	Medium	<ul style="list-style-type: none"> Closely monitor ambient air monitoring results for any early signs of potential health risks to the community. Manage upward information about the progress of the various elements of the project. Provide early advice to Government if required.
Further community concerns/comments will put pressure on the	High	Medium	<ul style="list-style-type: none"> Closely manage on-time delivery of each element of the project. Manage expectations about the time

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timetable for delivery of the overall project			required to complete the work and the resources required.
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5. Work Plan

ACTION / TASKS	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
Action 1.1	■													
Action 1.2														
Action 1.3			■											
Action 1.4			■											
Action 1.5				■										
Action 1.6					■									
Action 1.7					■									
Action 1.8						■								
Action 1.9							■							
Action 1.10								■						
Action 1.11									■					
Action 1.12										■				
Objective 1														
Action 2.1														
Action 2.2														
Action 2.3														
Action 2.4														
Action 2.5														
Objective 2														
Action 3.1														
Action 3.2														
Action 3.3														
Action 3.4														
Action 3.5														
Action 3.6														
Objective 3														

NB. Communication and extension activities are expected to extend beyond the timeline indicated in the table above. Communication and extension would be achieved through seminars, community forums and workshops, direct local government liaison and existing inter- and intra-agency channels.

6. Evaluation

The project is to be evaluated on a 3 monthly basis to determine whether all tasks have been completed in accordance with the performance indicator.

7. Governance

Project will be managed through the EPA Project Management model with the Project Manager ?????? reporting to the Project Director ??????????

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8. Approval

APPROVED BY:	
SIGNATURE:	
DATE APPROVED:	
PROJECT APPROVAL No.:	

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Project Proposal and Work Plan

Runcorn Air Quality Monitoring Program (Summary)

Background

The Department of Environment and Resource Management (DERM) is developing the Runcorn Air Quality Monitoring Program in response to community concerns about impacts from the Runcorn Foundry emissions.

The department is not currently in a position to provide advice to the Runcorn community on the air quality in Runcorn as there is insufficient air monitoring in this area.

Objectives

The Department will:

- Monitor airborne particulate levels and composition and VOC speciation in the residential areas adjacent to the composting industries.
- Identify any activities within the Runcorn area and other potential areas which are having a health or nuisance impact, through airborne releases, on Runcorn residents.
- Provide accessible information to the local community on Runcorn's air quality.

Output

The outputs detailed below will contribute to:

- Clear determination of the particle levels and composition and VOC species within the Runcorn area.
- Identification of any adverse health or nuisance air borne impacts on the Runcorn community.
- To obtain sufficient information to take actions, where monitoring has identified adverse health or nuisance impacts, to improve the quality of the air in the Runcorn area.
- Information on the particle levels in the Runcorn area to be accessible by the community.

Expected duration

15 / 04 / 2009 – 30 / 12 / 2009

Methodology

The EPA air quality monitoring program is to be conducted at 3 sites in the community close to where impacts from air emissions from the foundry may be expected to occur. The program will initially run for an 8 month period with reviews

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of the program at 3 and 6 months with the intention of being able to revise the program if needed.

The program will provide a comprehensive dataset on particle levels and particle composition and VOC speciation in the community surrounding the foundry. The dataset will include”

- PM10 levels for assessing against national standards based on health.
- TSP levels for daily assessment against nuisance criteria.
- Elemental composition of TSP/PM10 for assessing against standards based on health.
- Dustfall levels for monthly assessment against nuisance criteria.
- Speciation of volatile organics for assessment against national and international standards based on health.

Particles to be measures, analysis of particle components and the number and location of sites will be based on knowledge of the foundry’s operation, prevailing wind conditions and location of community concern.

Monitoring consists of:

Sites 1 and 2

- Dustfall – monthly sampling. Metal composition to be determined.
- PM10 Low Volume Sampler. Metal composition to be determined.
- Sampling carried out every 6th day for 24 hours (midnight to midnight)
- Speciation of volatile organics – fortnightly samples to be collected using the Radiello Passive Air Sampling System.

Site 3

- TSP and PM10 TEOM analysers.
- Continuous measurements of TSP and PM10 levels will be measured at a resolution of 30 minute averages.
- TSP TEOM fitted with ACCULINK system to collect TSP material for compositional analysis.
- Meteorological observations of wind speed and direction, humidity, rainfall and barometric pressure.
- Speciation of the volatile organics, sampling as per sites 1 and 2.

Additional sampling for the speciation of volatile organics may be required depending on initial results of passive sampling. This will be carried out every 6th day using canisters.

Particle samples collected by the dustfall, TSP and PM10 samplers will be analysed by Queensland Health Forensic and Scientific Services for metals. Metals to be determined include:

- Antimony
- Arsenic
- Boron
- Barium
- Beryllium

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- Calcium
- Cobalt
- Chromium
- Copper
- Iron
- Mercury
- Manganese
- Molybdenum
- Nickel
- Lead
- Selenium
- Strontium
- Vanadium
- Zinc

TSP and PM10 TEOM continuous data could be made available on the EPA website with interpretation against a daily TSP nuisance criterion and for PM10 the NEPM air quality standard. Data would be updated every 3 hours with the ability to interrogate the site for historical data.

Key Actions

<u>Date</u>	<u>Action</u>
April 2009	Request QDL Health assistance in assessing air quality data to determine potential health impacts. Negotiate with the community and BCC to install monitoring equipment. Install Partisols, Passive Samplers and Dustfall Samplers.
May 2009	Install TEOM monitoring. Commencement of full monitoring program.
October 2009	QLD Health to have provided 3 month comments. Compile 3 month report identifying potential health or environmental nuisance risks.
January 2010	QLD Health to have provided 6 month comments. Compile 6 month report identifying potential health or environmental nuisance risks. Environmental Services to develop actions based on any identified health or nuisance risks. Review air monitoring data and identify whether industry is having a health or nuisance impact.
Feb 2010	Amend approvals as required. Final report released and provided to stakeholders, community, media and relevant elected representatives.

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Contacts

Environmental Services Project Director: Scott Robinson
3224 5090
scott.robinson@epa.qld.gov.au

Environmental Services Project Manager: Luke Stephan
3225 1075
luke.stephan@epa.qld.gov.au

Air Sciences Project Director: David Wainwright
3896 9239
david.wainwright@epa.qld.gov.au

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Luke Stephan

From: Gary Golding [Gary_Golding@health.qld.gov.au]
Sent: Monday, 27 April 2009 12:16 PM
To: Andrew Connor; Greg Shillig
Cc: Luke Stephan; Scott Robinson
Subject: Re: Runcorn Air Monitoring Proposal

Andrew/ Greg

Regarding VOC determination.

- 1) Perhaps we could include some canister sample that residents could take at peak times. This would provide a worst case situation.
- 2) We could also use restrictors on canisters to collect an integrated sample.
- 3) The canisters would give us a second chance to quantify any substances not in our normal suite of voc.
- 4) We have recently acquired some high volume pumps to collect particle samples on filters. These may be useful.
- 5) Do you know how many VOC samples will be collected each week
- 6) We have had some success with SKC tenax passive samples as they are more compatible with our existing methodology.

Graham King will be responding with additional comments.

Andrew could you please ensure that Graham King is CCed on any emails as he will be looking after this issue for QHFSS. It may be best if we have a face to face meeting to discuss the details.

Gary

Gary Golding

Science Manager Chemical Analysis
 Forensic and Scientific Services
 PO Box 594,
 Archerfield 4108
 Ph 3000 9322, Fax 3274 9119
 Mobile 4p4(6) Personal inform
 Gary_Golding@health.qld.gov.au

>>> "Andrew Connor" <Andrew.Connor@epa.qld.gov.au> 8/04/2009 3:47 pm >>>

Greg,

As discussed, please find attached our proposal to conduct air quality monitoring in the Runcorn area, specifically around the Bradken foundry site. Thankyou for your offer of support for this project, it is much appreciated. We are looking to commence some monitoring as soon as possible.

Can you please review the attached proposal and let me know if you feel it is worth getting together to discuss this prior to commencement, or alternatively if you feel it sufficient to provide comment by email or phone that is fine with us.

<<Runcorn Air Quality Monitoring Program Summary.doc>>

Kind regards,

Andrew Connor
Regional Manager
Brisbane South Region

Environmental Services
Department of Environment & Resource Management
Ph: (07) 3225 8820
Fax: (07) 3224 8165
Email: andrew.connor@epa.qld.gov.au

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Luke Stephan

From: Greg Shillig [Greg_Shillig@health.qld.gov.au]
Sent: Friday, 17 April 2009 12:37 PM
To: Andrew Connor
Cc: Luke Stephan; Scott Robinson; Clive Paige; Gary Golding; Gerard Neville; PHMO-BSPHU
Subject: Fwd: Runcorn Air Monitoring Proposal
Attachments: Runcorn Air Monitoring Proposal; ATT1715087.txt; HTML; Runcorn Air Quality Monitoring Program Summary.doc; enhealth_incidents.pdf

Andrew,

Having consulted with other QH colleagues I offer this feedback in response to the DERM proposal, for your consideration please.

Dr Gerard Neville and Clive Paige from our Environmental Health Branch have provided the following comments.

1. Why is there a reference to 'composting industries' in the first objective?
 2. In 1st pot point of Output, it refers only to particle levels and VOC species. We think there are additional parameters that are relevant to the potential emissions of such a foundry, including phenols, formaldehyde, SO₂, H₂S, NO_x, CO, PAHs and perhaps others. Some of these might be captured in the scope of VOC species, but we think the program needs to have capability for those potential emissions unless there are very good reasons to exclude them.
 3. In 4th dot point of Output, why is this limited to information on 'particle levels'? We think it should be information on all the results of the air quality monitoring program.
 4. Information on the actual (or proposed) sites of the 3 monitoring sites would be very helpful in advance to be confident they will provide useful information from a community perspective.
 5. We suggest that cadmium should be included in the list of metals to be determined.
- As the QH contact person for this particular matter, I'd appreciate any comments in response to these issues and about further opportunities for Queensland Health to provide any health related advice.

I also recommend that you consider the attached resource (enHealth Community Involvement Handbook) to develop/update any strategies for communicating with the local community.

Regards
Greg

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Greg Shillig
Director, Environmental Health
Brisbane Southside Population Health Unit
Population Health Queensland
Queensland Health

Ph: 07 3000 9150 or p4(6) Personal info
Fax: 07 3000 9121
Email: greg.shillig@health.qld.gov.au

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REGIONAL SERVICE DELIVERY DIVISION RESPONSE

REQUEST DATE: 7 June 2010

sch4p4(6) Personal information

SUBJECT: Runcorn Air Monitoring.

REQUEST: It would be appreciated if an officer from the Department of Environment and Resource Management contact sch4p4(6) Personal information and provide an update on the Runcorn Ambient Air Monitoring Program. Can this please include the department's intentions regarding web material and the likely timing of this.

RESPONSE:

- On 8 June 2010, a departmental officer contacted p4(6) Personal info and advised him of the current status of the study and how information will be provided to the community.
- The study was undertaken in response to community concerns regarding odour from the foundry, and was commenced in October 2009. Passive sampling was completed in May 2010.
- The department is currently collating the final results and conducting analysis. A draft report is expected to be complete by late July 2010. Once the draft report is complete, the department will liaise with Queensland Health to prepare a final report. At this point the expected publication date for the final report is late August 2010.
- A communication plan has been developed for the project identifying the means by which the findings of the study will be disseminated. Under the plan, upon finalisation of the study, the department will prepare a summary report that will be provided to relevant Queensland Government departments and Brisbane City Council stakeholders.
- The summary report will also be sent to all complainants with an explanation letter advising that the full final report is available on request.
- In addition to these actions:
 - a copy of the final report will be published on the department's website
 - a draft media statement will be prepared
 - The department will meet with representatives from Bradken to discuss the report and any actions required to be undertaken in response to the report.

CONSULTATION UNDERTAKEN:

- Queensland Health has been consulted on the program and involved in the sampling and analysis of the odour component.
- All residents that had registered a recent complaint were contacted prior to the start of the monitoring. Departmental officers explained to residents the nature of the study and asked whether they would like to be involved.
- The local Member, the Honourable Judy Spence MP, Member for Sunnybank, has been briefed on the program. Departmental officers attended a meeting between Ms Spence and some of the residents.

Region / Business Group: South East Region , Environmental Services - South

Briefing Officer: Luke Stephan, Environmental Officer

Approving Officer: Randall Hart, Regional Services Director

Telephone: 3238 3757

Telephone: 3406 2500

Date: 8 June 2010

Date: 15 June 2010

- A media article about the program was published in one of the local newspapers (Southern Star). Ms Spence had involvement in the article.
- A number of the residents have actively participated in the program by either housing air monitoring equipment in their yard, or by taking a gaseous sample when odour was present.

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Region / Business Group: South East Region , Environmental Services - South		
Briefing Officer: Luke Stephan, Environmental Officer	Telephone: 3238 3757	Date: 8 June 2010
Approving Officer: Randall Hart, Regional Services Director	Telephone: 3406 2500	Date: 15 June 2010