

Woodward-Clyde

FAX COVER SHEET

Woodward-Clyde

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TO: Mark Paton

COMPANY: DEH (Contaminated Land Section)

FAX NO: 227 8341

FROM: Trevor Lloyd

DATE: 18 May 1994

JOB NUMBER: 4567

NO. OF PAGES (including Cover Sheet). If you do not receive all of these pages, please contact Amanda at + (07) 364 7444.

SPECIAL INSTRUCTIONS:COPY TO:

- ☐ Confidential
☐ Urgent
☐ Please Reply
☐ For your Information
☐ For Follow up

MESSAGE:

RE: REQUEST FOR PRELIMINARY ADVICE REGARDING SITE REMEDIATION
OPTIONS - 412 NEWMAN ROAD, GEEBUNG

Please find the following letter regarding the above project, as discussed at our last meeting.

Thank you for your help. Please call, should you have any queries.

Regards

CTPI 49-Sch4 - Signature

TREVOR LLOYD

Senior Environmental Consultant

Woodward-Clyde



Engineering & services applied to the earth & its environment

4567/Ltr2/TRL.amb

18 May 1994

Senior Scientific Officer
Contaminated Land Section
Department of Environment and Heritage
12th Floor, 160 Ann Street
BRISBANE QLD 4000

Attention: Mr Mark Paton

Dear Sir

RE: REQUEST FOR PRELIMINARY ADVICE REGARDING SITE
REMEDICATION PROGRAM OF PLOTS - 412 NEWMAN ROAD,
GEEBUNG

73(2)

Woodward-Clyde 

Mr Mark Paton

Department of Environment and Heritage

18 May 1994

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73(2)

Further to our recent conference discussions regarding item (iv), we understand that a number of technical options exist for the assessment/remediation of these materials, viz:

- RT/DL RELEASE
- (i) Leave the fill material on-site. We understand that this will result in the issuing of "restricted" classification for relevant areas of the site by DEH.
 - (ii) Excavation and disposal of all previously "imported" fill and validation of residual soils. We understand that this may result in the issuing of a "former" classification for the site by DEH.

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Woodward-Clyde 

Mr Mark Paton

Department of Environment and Heritage

18 May 1994

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- (iii) Detailed "in-situ" excavation and on-site assessment of the fill, removal of selected waste materials and replacement and validation of the remaining fill. We understand that this may result in the issuing of either a "restricted" or "former" classification for relevant areas of the site by DEH.
- (iv) Excavation of fill material from selected areas of the site and placement on remaining filled areas, followed by validation of residual soils in excavated areas. We understand that this may result in the issuing of a "former" classification for excavated areas and a "restricted" classification for remaining filled areas of the site.

For validation of residual soils (i.e. currently underlying imported fill material) for options (ii) and (iv) we would propose the collection of one shallow (0-0.25 m depth) soil sample per 50 m² of excavated land area and composite every four samples for laboratory analysis (i.e. effectively one laboratory analysis per 200 m² of excavated land area). Proposed analyses would include Pb, As, Zn, Cd, Cr and asbestos fibre content.

For validation of excavated, "assessed" (i.e. "screened" on-site) and replaced fill material, we would propose one soil sample per 50 m³ of fill and composite every four samples for laboratory analysis (i.e. effectively one laboratory analysis per 200 m³ of fill). Proposed analyses are as described above.

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Woodward-Clyde 

Mr Mark Paton
Department of Environment and Heritage
18 May 1994
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Could you please provide preliminary advice regarding DEH's policy in regard to the likely site classifications resulting from the above remediation work options.

Thank you for your assistance. Please do not hesitate to call CTPI 49-Sch4 on 364 7444, should you have any queries.

Yours Faithfully,
WOODWARD-CLYDE

CTPI 49-Sch4 - Signature

CTPI 49-Sch4 - Signature

TREVOR BROWN
Principal Environmental Consultant

TREVOR LLOYD
Senior Environmental Consultant

RTI DL RELEASE- EHP

Woodward-Clyde**FAX COVER SHEET**

Woodward-Clyde
49 Park Road
MILTON QLD 4064
AUSTRALIA
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Phone Number: + 61 7 364 7444
Fax Number: + 61 7 364 7477

TO: Mark Paton

COMPANY: DEH - Contaminated Land Section

FAX NO: 227 8341

FROM: CTPI 49-Sch4

DATE: 20 June 1994

JOB NUMBER: 4567

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MESSAGE

RE: DISPOSAL OF CONTAMINATED MATERIAL FROM 412 NEWMAN ROAD, GEEBUNG SITE (YOUR REFERENCE: 900870)

Please find attached a copy of a letter from Brisbane City Council (Scientific Services Branch) accepting contaminated material for disposal to landfill. As discussed could you please provide:

- Section 14 approval for transport and disposal of these materials;

Please also find attached our proposed draft site management plan for completed "restricted" lots in the sub-division. Could you please:

- Provide formal written advice regarding our proposed site remediation plan, as presented to you by fax on 18 May 1994; and

- Provide your draft site management conditions in relation to these "restricted" lots.

Further to our recent discussion, we understand that ownership of the roadway will ultimately be by the Crown, with management by Brisbane City Council. Can you please provide your suggested approach for who we should contact regarding this matter.

If you require any further information regarding these matters please contact Trevor Lloyd on 364 7444.

Yours faithfully

CTPI 49-Sch4

Senior Environmental Consultant

RTI DL RELEASE- EHP

Contact name: CTPI 49-Sch4

Telephone: 875 8609

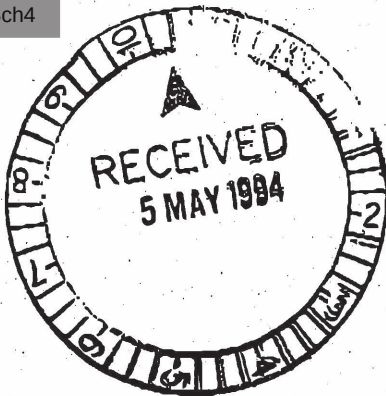
Fax (direct): 875 8646

Your ref:

Our ref: TT:MP

AGC Woodward Clyde
49 Park Road
MILTON QLD 4064

Attention: CTPI 49-Sch4



Brisbane City

Brisbane City Council
GPO Box 1434
Brisbane Qld 4001
Facsimile 229 1168

Scientific Services Branch
Donaldson Road
Rocklea Qld 4106

3 May 1994

Dear Sir

Re: Disposal of Contaminated Materials
located at 142 Newman Road, Geebung

412 22

412 72

In response to your request for disposal of contaminated soil located at 142 Newman Road, Geebung, I wish to advise that based on the soil analysis data supplied by Woodward-Clyde, the following contaminated materials are acceptable for landfill disposal:

1. Zinc and Chromium contaminated soil, approximately 400m³ is acceptable for disposal to unlined landfill.
2. Hydrocarbon contaminated soil, approximately 50m³ is acceptable for disposal to lined landfill.
3. Ilmenite, approximately 20m³ is acceptable for disposal to lined landfill. Due to the presence of radioactive substance, materials must be buried and covered up with top soil to a depth of 2m.

The disposal of these contaminated materials have been recommended to BCC's Waste Management Branch. Please contact Mr Jeff Littlefield of Waste Management, telephone 225 6785 for disposal arrangements and charges.

In addition, Woodward Clyde will be required to:

1. Supervise the excavation process and be responsible for the correct segregation of the various contaminated materials on site.
2. Loads prior to delivery must be covered and wetted with water for suppression of dusts.

Yours faithfully

CTPI 49-Sch4

A/Supervising Chemist Industrial Waste

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3 June 1994

MUR Group of Companies
76 Bowen Street
SPRING HILL QLD 4000

Attention:

CTPI 49-Sch4

Dear Sir

**RE: PRELIMINARY DRAFT MANAGEMENT PLAN - 412 NEWMAN ROAD,
GEEBUNG**

I refer to your request of 27 May 1994 requesting a preliminary draft management plan for the abovementioned site. It should be noted that this management plan will most likely apply to the following lots 10, 11, 12 and 13 and roadway on the proposal subdivision (Refer Clem Jones Wright & Associates Pty Ltd drawing number (d) 93/161-PPI dated 12 May 1994).

It is likely that these lots and roadway area would be classified as "restricted" per Section 23 of the Contaminated Land Act, 1991 following completion of the proposed remedial works as detailed in Option E of our letter dated 12 May 1994. As part of the works required for Option E a site management plan is required to be prepared for the Lots described above, including the proposed roadway, where some filling will be carried out. It should be further noted that this management plan is preliminary and summary and represents our best estimate of the restrictions that we feel the Department of the Environment and Heritage (DEH) will place upon the site.

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MUR Group of Companies

20 June 1994

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The following conditions may be included in the Site Contamination Report (SCR) to be issued by the DEH for a "restricted" site.

- (1) The development of the property shall incorporate concrete slab, bitumen paving or equivalent impervious hard cover over at least 80 percent of the land area.
- (2) Where soils are to be excavated on site, personnel involved in the excavation works shall be informed that the land is classified as a "restricted site" under the Contaminated Land Act, 1991 and that if any buried containers are uncovered during excavations, the owner of the land and the Director, Waste Management Branch shall be informed immediately. The owner of the land shall submit a remediation plan for the buried containers to the Director, Waste Management Branch before any further works can proceed.
- (3) Where contaminated fill material is to be placed under the proposed new road it is to be placed at a depth of at least 1.5 m below the surface of the road level. Drainage measures are to be designed to a level sufficient to ensure that no percolating waters pass through the buried materials. Future excavation for services, repairs to the road are to be restricted such that they are carried out in accordance with a predefined and site specific Health and Safety Plan (refer Appendix A).
- (4) Any waste soil excavated during the construction works is to be disposed of following approval granted under Section 14 of the Contaminated Land Act, 1991. Any excavated soil which is to be retained on site shall be contained under concrete slabs, bitumen paving or equivalent hard cover.

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- (5) All excavation works should be carried out in accordance with a predefined and site specific Health and Safety Plan for the site.
- (6) Following completion of ^{any} all work, a remediation and validation plan should be prepared for the site.

Appendix A contains the draft health and safety plan that we have prepared for the site.

The final management plan for the site will be negotiated with the DEH following agreement with them of the final site layout and remediation strategy.

We trust this meets with your requirements. Should you have any further queries please do not hesitate to contact

CTPI 49-Sch4

Yours Faithfully,
WOODWARD-CLYDE

CTPI 49-Sch4

Principal Environmental Consultant

CTPI 49-Sch4

Senior Environmental Consultant**Encl Attachment A****Draft Health and Safety Plan for 412 Newman Road,
Geebung.**

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20 June 1994

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APPENDIX A

HEALTH AND SAFETY PLAN FOR 412 NEWMAN ROAD, GEEBUNG

A1.0 OCCUPATIONAL HEALTH AND SAFETY RECOMMENDATIONS

The results of assessment work carried out at the site (as outlined in the main body of the report), indicated the presence of asbestos sheet cement in some soil samples.

It is, therefore, concluded that the health and safety requirements for civil contracting work to be conducted at the site, should incorporate compliance with the Queensland Workplace Health and Safety legislation and Codes of Practice, and Australian Standards pertaining to construction and earthmoving activities.

For the activities expected to be undertaken during the contracting work, the following hazards have been identified:

- physical hazards;
- biological hazards;
- trenching/excavation;
- confined spaces entry;
- underground/buried structures

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MUR Group of Companies**20 June 1994****Page 2****A1.1 PHYSICAL HAZARDS**

The physical nature of the site presents a number of potential hazards to site personnel, such as sharp objects, such as nails, metal shards, and broken glass; slippery surfaces; and uneven terrain or unstable surfaces.

There is also a risk of physical injury when working near heavy equipment. In particular, the hazards associated with working on excavation/trenching and earthmoving activities, include injuries due to slips, trips and falls, being struck by machinery, manual handling injuries, flying objects and noise-induced hearing loss.

Site personnel should be provided with personal protective equipment, including head, foot, eye and hand protection, and hearing protectors. Warning alarms should be installed on all equipment utilised on site, and safe operating procedures developed and enforced, for all tasks performed on site in particular those requiring personnel to work in constant proximity to equipment.

A1.2 BIOLOGICAL HAZARDS

The main biological hazard is likely to be the risk of infection and tetanus, from cuts and abrasions. A first aid kit should be available for use in the field, and all cuts and abrasions should be immediately treated. To minimise the likelihood of contracting tetanus, all site workers should have current tetanus inoculations, and be provided with hand protection.

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Prior to the commencement of trenching activities, the following factors should be addressed:

- the nature of the soil, including proximity to made-up ground, and sources of instability (resulting from buried debris) which may require additional local support
- weather and moisture conditions
- the size and methods of excavations
- the proximity of other structures and services
- the proximity of sources of vibration
- ground water and water table conditions
- the duration of work
- de-watering systems
- site restrictions
- the adequacy and types of shoring materials utilised
- the adequacy of trench rescue procedures

A1.4 CONFINED SPACES ENTRY

Prior to entry into manholes, trenches and other confined spaces on the site, the air within them should be tested at three positions (lower part, middle part and top part of the confined space). If the air is found to be free of pollutants and not to be deficient in oxygen, then entry is permitted. The entry procedure should comply with AS2856-1986, "Safe Working in a Confined Space". Such entries should be carefully considered and preplanned.

If air tests indicate that the confined space contains a hazardous atmosphere and/or is oxygen-deficient, then the confined space is NOT to be entered without the permission of the Site Safety Officer.

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In any event, the need to enter the confined space should be carefully assessed and inspection work should be performed without entry wherever possible.

A1.5 UNDERGROUND STRUCTURES

Caution should be exercised whenever the possibility of encountering subsurface obstructions exists, in particular, that area of the site indicated to have been utilised as a "hardfill" dump. If underground obstructions are unexpectedly encountered, the area will be excavated using manual equipment until the nature of the obstruction is discerned.

Should excavation work encounter unusual waste materials (e.g. unidentified containers, bags, asbestos-containing materials, liquids wastes, or other potentially hazardous material) then the Site Safety Officer should be notified immediately. The Site Safety Officer should investigate any such waste material to determine whether any additional health or safety requirements should be implemented, or whether any further investigation of the waste material is warranted, prior to re-commencement of work.

A1.6 AIR MONITORING

It is recommended that an air quality sampling program be conducted at the site during the contracting work to ensure that the level of airborne dusts and particulate matter is within the DEH and Worksafe Australia guidelines.

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