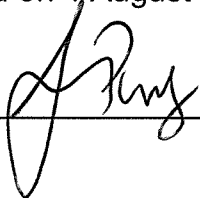


MINUTES

CERTIFICATION OF CONFIRMATION OF COMMITTEE MEETING MINUTES

9 JUNE 2011

I, Mr Shane Purdy, hereby certify that the following minutes [pages 1 to 24] of the Meeting of **TECHNICAL ADVISORY COMMITTEE** held on 9 June 2011 were confirmed at a meeting of the Committee held on 4 August 2011.



Signature

Mr Shane Purdy

Person presiding at the Committee Meeting held on 4 August 2011

TECHNICAL ADVISORY COMMITTEE

MINUTES

9 June 2011

(REF: COMMITTEES-12360)

A meeting of the Technical Advisory Committee was held at the EMRC Administration Office, 1st Floor, 226 Great Eastern Highway, BELMONT WA 6104 on **Thursday, 9 June 2011**. The meeting commenced at **4.03pm**.

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1 DECLARATION OF OPENING AND ANNOUNCEMENT OF VISITORS

The Chairman opened the meeting at 4.03pm.

2 ATTENDANCE, APOLOGIES AND LEAVE OF ABSENCE PREVIOUSLY APPROVED

Committee Members

Mr Shane Purdy (Chairman)	Director Infrastructure Services	Shire of Mundaring
Mr Simon Stewert-Dawkins (from 4.11pm)	Director Operational Services	Town of Bassendean
Mr Doug Pearson	Director Technical Services	City of Bayswater
Mr Ric Lutey	Director Technical Services	City of Belmont
Mr Jim Coten (Deputy Chairman)	Executive Manager Operations	City of Swan
Mr Peter Schneider	Chief Executive Officer	EMRC

Apologies

Mr Mahesh Singh	Director Engineering Services	Shire of Kalamunda
Mr Simon Miller	Manager Operations	Shire of Kalamunda

EMRC Officers

Mr Brian Jones	Director Waste Services
Mr Stephen Fitzpatrick	Manager Project Development
Mr Brian Bushby	Manager Operations
Ms Mary-Ann Winnett	Personal Assistant to the Director Corporate Services
Ms Giulia Bono	Administration Officer (Minutes)

3 DISCLOSURE OF INTERESTS

Nil

4 ANNOUNCEMENT BY THE CHAIRMAN OR PERSON PRESIDING WITHOUT DISCUSSION

Nil

5 CONFIRMATION OF MINUTES OF PREVIOUS MEETINGS

5.1 MINUTES OF TECHNICAL ADVISORY COMMITTEE MEETING HELD ON 3 FEBRUARY 2011

That the Minutes of the Technical Advisory Committee meeting held on 7 April 2011, which have been distributed, be confirmed.

TAC RESOLUTION(S)

MOVED MR LUTEY

SECONDED MR PEARSON

THAT THE MINUTES OF THE TECHNICAL ADVISORY COMMITTEE MEETING HELD ON 7 APRIL 2011 WHICH HAVE BEEN DISTRIBUTED, BE CONFIRMED.

CARRIED UNANIMOUSLY



6 PRESENTATIONS

Nil

7 ANNOUNCEMENT OF CONFIDENTIAL MATTERS FOR WHICH THE MEETING MAY BE CLOSED TO THE PUBLIC

Nil

8 BUSINESS NOT DEALT WITH FROM A PREVIOUS MEETING

Nil



9 REPORTS OF OFFICERS

9.1 THE 4TH NATIONAL LANDFILL/TRANSFER STATION CONFERENCE – GLENELG, SOUTH AUSTRALIA – 31 AUGUST TO 2 SEPTEMBER 2011

REFERENCE: COMMITTEES-12363

PURPOSE OF REPORT

The report is to advise Council of the forthcoming National Landfill and Transfer Station Conference to be held in Glenelg, South Australia from 31 August to 2 September 2011 and seek Councillor nominations to attend the conference.

KEY ISSUES AND RECOMMENDATION(S)

- The 4th National Landfill and Transfer Station Conference is to be held in Glenelg, South Australia from 31 August to 2 September 2011.
- The theme of the Landfill Conference is “Landfill the Facts and the Future” and that of the concurrent Transfer Station conference is “Maximising Minimisation”.
- The proposed programme includes site visits to either landfills or transfer stations and resource recovery facilities in the Adelaide area.
- It is suggested that EMRC officers and Councillors would benefit from attending the conference.

Recommendation(s)

That Councillor(s) _____ be authorised to attend the 4th National Landfill/Transfer Conference to be held in Glenelg, South Australia from 31 August – 2 September 2011.

SOURCE OF REPORT

Director Waste Services

BACKGROUND

The inaugural National Landfill/Transfer Station Conference was held in Queensland in 2005 and was followed with National Conferences in Melbourne 2007 and Hobart in 2009.

REPORT

The national conferences bring together the major landfill operators, industry regulators, consultants, service providers and academics and is focussed on landfill and transfer station design and operating issues.

In that the EMRC operates one of the WA's major landfills, four transfer stations and is planning a Resource Recovery Park at Hazelmere, the EMRC anticipates sending two officers to the conference to update their knowledge on the most recent developments.

There would be merit in EMRC Councillor representatives also attending so that they are aware of the changes that are taking place with respect to landfills and transfer stations.

The cost per attendee is estimated at \$2500.00 inclusive of airfares, accommodation, conference attendance fees, incidental expenses and meals.



Item 9.1 continued

STRATEGIC/POLICY IMPLICATIONS

Key Result Area 1 – Environmental Sustainability

- 1.3 To provide resource recovery and recycling solutions in partnership with member Councils
- 1.4 To investigate leading edge waste management practices

Key Result Area 4 – Good Governance

- 4.6 To provide responsible and accountable governance and management of the EMRC

EMRC Policy 6.1 provides guidelines for attendance by appointed members at intrastate, interstate and international conferences.

FINANCIAL IMPLICATIONS

The budget allocates funds for Conference attendance for both EMRC Councillors and EMRC officers.

SUSTAINABILITY IMPLICATIONS

Nil

MEMBER COUNCIL IMPLICATIONS

Member Council	Implication Details
Town of Bassendean	} Nil
City of Bayswater	
City of Belmont	
Shire of Kalamunda	
Shire of Mundaring	
City of Swan	

ATTACHMENT(S)

Call for papers and preliminary conference details (Ref: Committees-12381)

VOTING REQUIREMENT

Simple Majority

RECOMMENDATION(S)

That Councillor(s) _____ be authorised to attend the 4th National Landfill/Transfer Conference to be held in Glenelg, South Australia from 31 August – 2 September 2011.



Item 9.1 continued

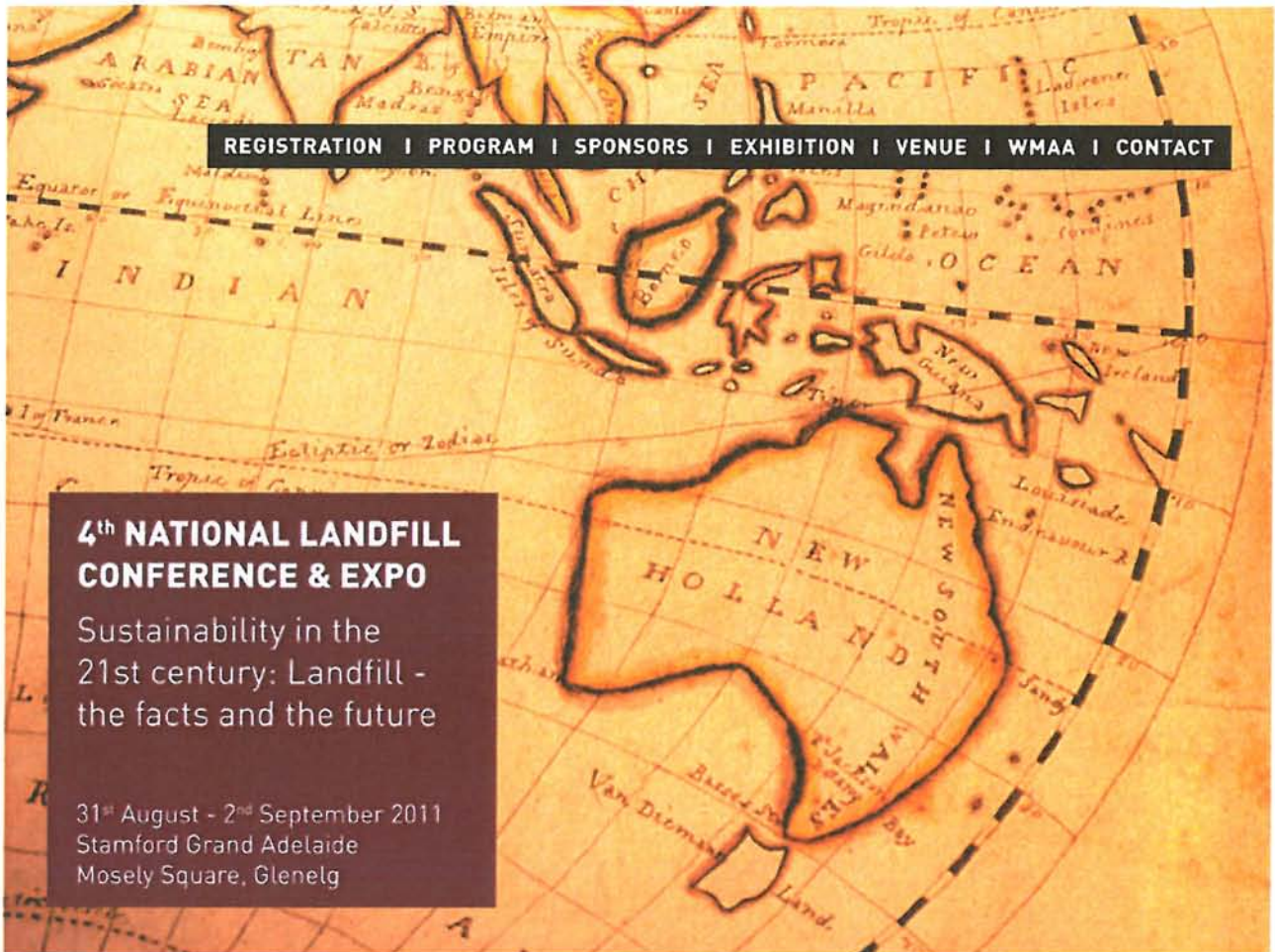
TAC RECOMMENDATION(S)

MOVED MR COTEN

SECONDED MR LUTEY

That Councillor(s) _____ be authorised to attend the 4th National Landfill/Transfer Conference to be held in Glenelg, South Australia from 31 August – 2 September 2011.

CARRIED UNANIMOUSLY



REGISTRATION | PROGRAM | SPONSORS | EXHIBITION | VENUE | WMAA | CONTACT

**4th NATIONAL LANDFILL
CONFERENCE & EXPO**

Sustainability in the
21st century: Landfill -
the facts and the future

31st August - 2nd September 2011
Stamford Grand Adelaide
Mosely Square, Glenelg



PROGRAM

[Click here to read about the Keynote Speakers](#)

Considered the pre-eminent landfill conference for Australia, and following on from the very successful conferences in 2005, 2007 and 2009, the **4th National Landfill Conference and Expo** will focus on the presentation of fundamental and applied research conducted in the solid waste industry. This event will run in parallel with the [4th National Transfer Stations Conference and Expo – Maximising Minimisation](#), allowing attendees who register for either conference to attend sessions at both.

This year's conference theme "*Landfill the Facts and the Future*" has been adopted to focus on the practical operation and sustainability of landfill management. Challenges facing the industry are diverse, ranging from Government policy developments to general pre-conceptions on what landfills are to technical design requirements to appropriate plant and equipment selection. These will all be explored and delegates provided with opportunities to delve further into areas of interest.

Day 1 of the program will include site visits to landfills in the Adelaide metropolitan area as well as the opportunity for practical demonstration and inspection of various types of plant and equipment. Days 2 and 3 will consist of keynote, technical and case study presentations. The conference will also include a Trade Exhibition, Welcome Reception and the always popular Conference Dinner, providing opportunities for social interaction and networking with your industry colleagues.

This conference will be of particular interest to: industry managers; regulators; local government councilors and staff; state and federal government; consultants; service providers; planners; environment managers; academics and engineers.

I look forward to seeing you in Adelaide and encourage you to share your expertise, insights and ideas to make this a valuable event for our industry.

Marina Wagner
Conference Chair

CALL FOR ABSTRACTS

The Conference Program Committee invites the submission of abstracts for this popular biennial industry event in any of the topic areas listed below. Abstracts outside the listed topic areas may be considered at the discretion of the Program Committee.

- Planning and design
 - base and side lining systems
 - leachate collection systems
 - stormwater collection systems
 - capping systems
- Operation, management & controls
 - best practice operations
 - plant and equipment
 - cover systems
 - Landfill gas management
 - Leachate management
 - Stormwater management
 - Organics- in or out?
- Closure and after care
 - Capping systems
 - A-ACAP
 - Aftercare- how long is long enough
 - Potential impacts on groundwater
 - Landfill gas
- International trends in landfill design, operations, closure and after care
- AWT's and their potential impacts on landfill design, operation, closure and after care
- Disaster recovery
- Legislation and regulation
 - National and international trends
 - Climate change

PROCEDURE FOR ABSTRACT SUBMISSION

Please note the following submission guidelines:

- Abstract submissions must use the [Microsoft Word Template](#)
- Must be in English
- Must clearly state objectives and outcomes of proposed presentation

4th NATIONAL TRANSFER STATIONS CONFERENCE & EXPO

Sustainability in the 21st Century: Maximising Minimisation

31st August - 2nd September 2011

Stamford Grand Adelaide

Mosely Square, Glenelg

[REGISTRATION](#) | [PROGRAM](#) | [SPONSORS](#)
[EXHIBITION](#) | [VENUE](#) | [WMAA](#) | [CONTACT US](#)

PROGRAM

[Click here to read about the Keynote Speakers](#)

Considered the pre-eminent Transfer Stations conference for Australia, and following on from the very successful conferences in 2006, 2007 and 2009, the **4th National Transfer Stations Conference and Expo** will focus on the presentation of new research, technologies and case studies in both operations and resource recovery as it applies to transfer stations. This event will run in parallel with the [4th National Landfill Conference and Expo - Landfill: the Facts and the Future](#), allowing attendees who register for either conference to attend sessions at both.

This year's conference theme "*Maximising Minimisation*" has been adopted to focus on the ever increasing need for the effective re-use of materials and diversion of waste from landfill. Whether it be the sorting of material from the residual waste and appropriate equipment to do the job, or the need to identify appropriate re-sale markets to effectively use the recovered product, the transfer station and resource recovery industry is a perpetual leader in innovation with this conference aiming to facilitate satisfying delegates informational and operational needs.

Day 1 of the program will include site visits to transfer stations and resource recovery facilities in the Adelaide metropolitan area including some of the winners of the 2009 Transfer Stations Excellence Awards as well as the opportunity for practical demonstration and inspection of various types of plant and equipment. Days 2 and 3 will consist of keynote, technical and case study presentations. The conference will also include a Trade Exhibition, Welcome Reception and the always popular Conference Dinner, providing opportunities for social interaction and networking with your industry colleagues.

This conference will be of particular interest to: transfer station and MRF managers; regulators; local government councilors and staff; state and federal government; consultants; service providers; planners; environment managers; academics and engineers.

I look forward to seeing you in Adelaide and encourage you to share your expertise, insights and ideas to make this a valuable event for our industry.

Marina Wagner
 Conference Chair

CALL FOR ABSTRACTS

The Conference Program Committee invites the submission of abstracts for this popular biennial industry event in any of the topic areas listed below. Abstracts outside the listed topic areas may be considered at the discretion of the Program Committee.

- Planning and Design of Transfer Stations and MRFs
 - Large scale operations
 - Rural and remote facilities
 - Regionalisation- opportunities and limitations
 - Approval processes
 - Community engagement and consultation
 - Transport distances
- Operations, management and controls in Transfer Stations and MRFs
 - Best practice operations
 - Best practice performance
 - Plant and equipment
 - Optimising recovery and performance
 - Problematic wastes
 - Social enterprises
- Products and Markets
 - Recycled products - opportunities and limitation
 - Product quality
 - Dirty MRF vs. source separation and pre-sorting
- International trends in design, operation and management
- Disaster Recovery
- Legislation and regulation - national and international trends
 - Economic instruments
 - Extended Producer/ Product Responsibility
 - Product Stewardship
 - Climate Change

- Occupational Health Safety and Welfare

PROCEDURE FOR ABSTRACT SUBMISSION

Please note the following submission guidelines:

- Abstract submissions must use the [Microsoft Word Template](#)
- Must be in English
- Must clearly state objectives and outcomes of proposed presentation
- Maximum of 300 words
- Title is clear and concise and limited to 120 characters
- There are no sub headings
- It contains no Microsoft Equation Objects
- Do not include images, figures and graphs
- Do not include author affiliations in abstract (but required for final manuscript)
- It contains a brief introduction (the purpose of the presentation), the methodology (explanation on data collection and processing), results and conclusions (discussion and major findings)
- References kept to a minimal number (but required for final manuscript)
- Obtain consent from co-authors prior to submission
- You may submit more than one abstract
- Abstract submissions may be amended or withdrawn prior to the closing date

[Click here to start the abstract submission process](#)

CRITICAL DATES	
Submission of abstracts	16 March 2011
Notice of acceptance into the program	15 April 2011
Submission of final paper & presentation	12 August 2011

Selection of Submissions

The acceptance of submissions will be determined by reviewers appointed by the Program Committee and will be based on:

- relationship and significance to theme of the conference
- technical content
- program constraints
- originality
- topicality
- potential audience appeal

*Presenting authors **must** be registrants for the full conference or at least be registered for the day of presentation. Discounted registration rates are available for presenters and acceptance of papers is conditional on registration. Presenters are responsible for their own expenses.*

Authors must be prepared to confirm their copyright ownership of the paper, that it is their original work and that the Waste Management Association of Australia will be granted permission to publish the paper.

Non-conforming abstract submissions may not be considered. Papers of a commercial nature will not be accepted.



9.2 HAZELMERE RESOURCE RECOVERY PARK – PROJECT PLAN DEVELOPMENT

REFERENCE: COMMITTEES-12368

PURPOSE OF REPORT

The purpose of the report is to seek member Council input into the resource recovery activities to be incorporated into the Project Plan to be developed for the Hazelmere Resource Recovery Park (RRP).

KEY ISSUES AND RECOMMENDATION(S)

- The Hazelmere site was purchased in 1996 with the intention that a transfer station, for use by the member Councils, be developed at the site.
- The use of the site as a RRP was first mooted in 2004 and additional work on utilising the site as a RRP was undertaken in 2008.
- The 2004 and 2008 preliminary proposals identified the following activities as being appropriate:
 - A Materials Recovery Facility (MRF) for member Council domestic recyclables;
 - A MRF for commercial and industrial (C&I) waste;
 - An industrial woodwaste recycling facility;
 - A construction and demolition (C&D) waste facility;
 - A transfer station for residents of the member Councils to drop off waste materials;
 - A greenwaste processing facility;
 - A bio-waste composting facility;
 - A glass fines processing facility;
 - A community education centre;
 - A re-use store; and
 - An area for commercial enterprises utilising waste streams generated within the Park.
- Other activities that may be considered as being appropriate for the RRP at Hazelmere are
 - E-waste recycling;
 - Tyre Recycling; and
 - Mattress recycling.
- The member Councils, with the exception of the City of Swan, have contracts for the collection of municipal waste and the collection and processing of municipal recycling that are due to expire from 2013 onwards.
- The closure of C&D Recycling operations (Abernethy Road/Great Eastern Hwy Bypass), and the Happy Valley Inert Landfill (Midland), have reduced the inert waste disposal options available in the Region.
- Over 50% of all waste being delivered to Red Hill Waste Management Facility is from commercial sources and much of that waste could potentially be diverted from landfill.

Recommendation(s)

That Council notes the activities being considered for incorporation into the Hazelmere Resource Recovery Park Project Plan as outlined within the report.

SOURCE OF REPORT

Director Waste Services



Item 9.2 continued

BACKGROUND

The EMRC purchased Lot 100 and Lot 200 Lakes Road, Hazelmere, a total area of 9.51 hectares in November 1996 with a view to construct a transfer station for use by the member Councils but, since the member Councils with the exception of the City of Swan, had contracted out their collections and, in the case of municipal waste, designated Red Hill as the disposal point, there was little merit in developing the transfer station concept. Further, since the member Councils, with the exception of the City of Swan, had contracted out the collection and processing of their resident recyclables, there was little merit in constructing and operating a dry recyclables MRF at the Hazelmere site.

In 2003 a strip of Lot 200 was sold to BGC to accommodate their encroachment onto Lot 200 and the reduced lot was designated Lot 201.

In October 2004 Envision (New Zealand) prepared a concept study for a Resource Recovery Facility (RRF) at Hazelmere in which bulk verge waste, C&D waste, greenwaste and C&I waste were identified as being waste streams that were not well catered for in the Region. The Envision Concept Study suggested a RRF be designed around four key zones: a Public Interface Zone, an Administration and Business Incubator Zone, a Small Commercial Zone and a Large Commercial Zone for activities such as C&D and C&I recycling.

Subsequent to the Envision study, and at the behest of the City of Swan's Economic Development Officer, a wood waste recycling scheme was trialled and then established at Hazelmere.

In June 2008 Hassell Ltd was commissioned to develop 'A Concept Plan for a Resource Recovery Park' at Hazelmere and this was presented to Council in October 2008. The Hassell Concept Plan suggested that the RRP should consist of a weighbridge and gate house, a Regional MRF for municipal recyclables, a re-use store, a transfer station for residents to drop off waste, an administration centre, a C&I facility, a catalytic depolymerisation plant, a greenwaste mulching area, a glass fines processing facility and space for other resource recovery operations.

The Hassell Concept Plan included, in the proposed layout, a portion of Lot 99 that is anticipated to become available once the Lloyd Street Extension through to the Great Eastern Hwy Bypass is constructed. Though the Concept Plan included photographs of the stockpiles of the processed wood waste there was no reference to an industrial woodwaste recycling facility in the Concept Plan.

REPORT

In order to progress the development of a Project Plan for the Hazelmere Resource Recovery Park an indication and some agreement on what activities are to be incorporated within the RRP from the member Councils is required so that the requirements of the member Councils can be taken into consideration.

Since a glass re-processing plant has been constructed in Kewdale there is little merit in making provision for processing glass fines as suggested in the Hassell Concept Plan but provision for the existing mattress recycling/re-use facility and industrial woodwaste facility needs to be made given that both operations are diverting significant volumes of low density waste from landfill.

The Hassell Concept Plan proposed a Regional MRF for household recyclables and suggested an area of 1.36Ha would be required. Currently member Councils' dry recyclables, other than those collected by the City of Swan, are collected and processed by Transpacific Cleanaway while those collected by the City of Swan are processed at the MRF operated by the City of Wanneroo, on behalf of the Cities of Joondalup, Swan and Wanneroo.

Most of the MRFs that are operating in the Perth Metropolitan Area, have been operating for over 15 years and there are significant space and technology constraints such that significant additional capacity will be required to cater for the population increases projected in the next 8 - 9 years. These space and technology constraints could be overcome if a new facility, to handle member Councils' dry recyclables, were to be constructed at Hazelmere.



Item 9.2 continued

Based on current construction costs and the cost of sorting equipment a MRF, to process in the order of 50,000 tonnes of recyclables per annum, will cost in the order of \$19.6 million of which \$5.0 million is the cost of the building and site works. There are economic, social and environmental benefits in undertaking the MRF operations in-house. From an economic perspective, after allowing for capital and interest payments, the costs of operating plant and the disposal costs of the residuals at Red Hill, there would be, at today's prices, a net income of \$2.9 million per annum from the dry recyclables MRF processing 50,000 tonnes. Additionally, there would be employment opportunities created and the plant will be operated to best practice environmental standards to maximise resource recovery.

Should there be support for a Regional MRF the City of Swan, currently considering a significant investment in the co-owned MRF in Wanneroo, may decide to have those recyclables collected in its southern suburbs processed at Hazelmere and, given the other member Councils have recyclable collection and processing contracts that expire in 2013 onwards, a staged project may be considered.

Other than a suggestion that there should be 1 to 2 hectare blocks for "other Resource Recovery Activities" the Hassell Concept Plan made no provision for C&D recycling. The C&D recycling operation that was being conducted by C+D Recyclers Pty Ltd, between Vale Road/Abernethy Road and the Great Eastern Hwy Bypass, has closed down having completed the processing of the stockpile of material on that site and the Happy Valley landfill on Midland Road has also closed. There are, at this point in time, limited options in the Region for inert waste processing or disposal. Whilst it is not envisaged the EMRC will undertake C&D recycling itself it is proposed to make available the land that an existing C&D operator could lease. The EMRC has received an approach from a C&D operator currently located in Bayswater that has outgrown the site it is currently on and is seeking to lease land in Hazelmere.

In regards to a C&I recycling operation, the Red Hill Waste Management Facility currently receives in the order of 160,000 tonnes of C&I waste at the landfill and it is anticipated that, within the next few years as other landfills close, this may increase to 250,000 tonnes. It is estimated that more than 50% of the C&I waste stream consists of material that could be recycled economically. A MRF to sort C&I waste, if located, at Hazelmere, will likely attract a significant volume of the waste currently being delivered to Red Hill as there would be savings in the cost of transport in the order of \$5-\$10 per tonne if trucks do not have to travel up and down from Red Hill. The establishment of a C&I sorting/recycling facility will divert significant amounts of waste from Red Hill, extend the useful life of the Red Hill site, generate income for the EMRC and reduce the member Councils' waste disposal costs for items collected as part of the verge/bulk bin collection programme.

The C&I recycling operation will be designed so material from front lift trucks and from skip bins could be sorted. It is envisaged any timber in the C&I waste stream would be sent to the wood waste recycling area, inert waste would be sent to the C&D recycling area and any cardboard, plastics, paper, scrap metal etc. combined with the cardboard, plastics, paper, scrap metal from the dry recyclable MRF and sent on to recycle users. The Hazelmere RRP would be set up on the 'Cluster Principle' with synergies, or what is now known as 'Industrial Symbiosis' principles, such that there would be opportunities for collaboration and waste streams from one process to become a raw material input for another with infrastructure such as roads, weighbridges etc. being common to each of the recycling activities. It is anticipated the materials generated by the various recycling activities undertaken at Hazelmere would form the inputs for other businesses such that a business dealing in plastics would take mixed plastics from the municipal MRF, the C&I MRF and the C&D recycling operation and sort them into the specific types e.g. HDPE, PVC LDPE etc and add value to the material being diverted.

There may also be a requirement for a transfer station, large enough to accept the member Councils waste collected from their householders, so that the member Councils, or their contractors, avoid the cost of travelling to Red Hill with relatively small loads (6-9 tonnes) resulting in a reduction in their waste collection costs. Sorting and pre-processing the municipal waste fractions, that are not recycled at Hazelmere, will remove the requirement to have a 'dirty MRF' to sort a mixed solid waste stream as part of the RRF at Red Hill since the material being sent to RRF for treatment would not need further sorting and processing. A transfer station at Hazelmere will substantially reduce the environmental impact of waste collections by reducing the amount of travel required to undertake the waste collections by obviating the need for the collection trucks travelling up to the Red Hill site.



Item 9.2 continued

The transfer station can also be designed to accommodate residents with trailers and, in addition to bins for dropping off recyclable materials the transfer station area could also incorporate a re-use shop for materials that are being dropped off or collected from the bulk waste collections that could be re-used by others.

The Hassell Concept Plan identified a requirement to set aside an area approximately 50.0m X 60.0m (3000m²) for greenwaste mulching but, since it is envisaged that in the order of 12,000 tonnes would be delivered to Hazelmere from the member Councils and commercial entities if such facility was developed a much larger area would be required. It is considered that at least 1.0 Ha (10000m²) would be needed to accommodate unprocessed greenwaste, mobile shredding equipment and the processed material pending shipment to Red Hill or elsewhere for further processing. Enquiries are being made of Haas Holzzerkleinerungs GmbH to establish what is required for the outdoor fixed woodwaste grinding system, supplied to shred the industrial woodwaste, to be set up to shred greenwaste. It is however unlikely that the bio-waste composting facility proposed in the Envision Concept Study could be located at Hazelmere without impacting on other activities.

The Envision Concept Study also suggested that a Waste to Energy facility at Hazelmere is an option to be considered and that a small scale plant generating electricity from woodwaste and greenwaste may be an option.

Consideration should also be given to making provision for the RRP to act as a central collection point for materials likely to be subjected to extended producers responsibility (EPR) legislation such as electrical and electronic waste, tyres, container drop off as a result of container deposit legislation (CDL) and packaging should the Federal/State government follow the lead of the European Union.

With the above in mind it is also suggested that there may be merit in making space available for small scale operations such as e-waste disassembly so that the volume of material being sent to e-waste recyclers is substantially reduced and the plastic and metal casings recycled, for tyre recycling and the sorting of dry cell batteries that are currently shipped as mixed batteries since, if dry cell batteries were to be sorted into the different types, the cost of having the batteries recycled could be cut by 50%.

It is anticipated that, in conjunction with a Re-use store, there could be an area allocated to sell products produced at Red Hill such as ferricrete, compost and mulch, a café and a waste education area.

It is suggested that the following activities be included for consideration in the Project Plan:

1. A materials recovery facility for member Council domestic recyclables;
2. A material recovery facility for Commercial and Industrial Waste;
3. An Industrial woodwaste processing facility;
4. A construction and demolition Waste Processing Facility;
5. A Transfer Station for member Council and residents of the Region;
6. A tyre collection and processing facility;
7. A mattress recycling and refurbishment facility;
8. An e-waste collection and disassembly facility;
9. A battery collection and sorting facility;
10. A plastic collection and sorting facility;
11. A re-use store, recovered products sales areas, a café/waste education area;
12. A small scale waste to energy facility utilising biomass/waste as a fuel source; and
13. A greenwaste mulching facility.



Item 9.2 continued

Input is also sought from member Councils for other potential activities of interest that they would like to see considered for incorporation into the Hazelmere Resource Recovery Park Project Plan.

STRATEGIC/POLICY IMPLICATIONS

Key Result Area 1 – Environmental Sustainability

- 1.1 To provide sustainable waste disposal operations
- 1.2 To improve regional waste management
- 1.3 To provide resource recovery and recycling solutions in partnership with member Councils
- 1.4 To investigate leading edge waste management practices

A Resource Recovery Park at Hazelmere that incorporates the proposed activities would satisfy each of the above requirements.

FINANCIAL IMPLICATIONS

The financial implications of undertaking the proposed activities would be considered in the business plan for each activity such that the requirement 'to facilitate sustainable economic development and employment opportunities' was met.

SUSTAINABILITY IMPLICATIONS

The development of the Resource Recovery Park at Hazelmere will ensure that waste management within the Region is sustainable.

MEMBER COUNCIL IMPLICATIONS

Member Council	Implication Details
Town of Bassendean	} Nil
City of Bayswater	
City of Belmont	
Shire of Kalamunda	
Shire of Mundaring	
City of Swan	

ATTACHMENT(S)

Nil

VOTING REQUIREMENT

Simple Majority



Item 9.2 continued

RECOMMENDATION(S)

That Council notes the activities being considered for incorporation into the Hazelmere Resource Recovery Park Project Plan as outlined within the report.

Discussion ensued

The Director Waste Services summarised the report and advised that direction was required from Councillors on activities to be included or removed from the Project Plan outlined in the report.

Mr Lutey queried whether there would be adequate spacing available for activities to be implemented effectively. The Director Waste Services advised that if adequate spacing was not available then activities that are deemed less critical would not be undertaken.

TAC RECOMMENDATION(S)

MOVED MR PEARSON SECONDED MR LUTEY

That Council notes the activities being considered for incorporation into the Hazelmere Resource Recovery Park Project Plan as outlined within the report.

CARRIED UNANIMOUSLY



9.3 ACQUISITION OF PLANT

REFERENCE: COMMITTEES-12414

PURPOSE OF REPORT

The purpose of the report is to seek Council's authorisation to acquire a new Bomag BC1172RB-2 waste compactor using the WALGA Panel Tender arrangement.

KEY ISSUES AND RECOMMENDATION(S)

- The Cat 836H waste compactor, purchased in September 2005, is scheduled to be replaced during 2011/2012 and a new waste compactor purchased.
- An unsolicited offer has been received for the Cat 836H waste compactor which has the effect of expediting the acquisition of a new Bomag BC1172RB-2 waste compactor to replace the Cat 836H in this current financial year 2010/2011.
- The disposal of the Cat 836H will be tabled at the June 2011 Council meeting in accordance with the Local Government (Functions and General) Regulations (Section 3.58).

Recommendation(s)

That:

1. Council by an absolute majority in accordance with Section 6.8 (1)(b) of the Local Government Act 1995 authorise the purchase of a new Bomag BC1172RB-2 refuse compactor from BT Equipment with an optional fire suppression system and 5 year/10,000 hours extended warranty for the sum of \$1,215,000 (ex GST) to be funded from 2010/2011 operating surpluses.
2. Council authorise the Chief Executive Officer to enter into a contract with BT Equipment in accordance with the submitted quotation subject to minor variations that may be agreed between the Chief Executive Officer and BT Equipment.

SOURCE OF REPORT

Director Waste Services

BACKGROUND

The EMRC purchased a Cat 836H waste compactor in September 2005 and it is scheduled for replacement in 2011/2012 having worked over 8,500 hours.

An unsolicited offer has been received for the Cat 836H waste compactor. The EMRC officers are of the opinion that the offer represents an opportunity to maximise the value of the Cat 836H waste compactor which was to be disposed of in 2011/2012 now.

The 2011/2012 Budget which will be considered by Council in July 2011 where funding to replace the Cat 836H with a new waste compactor of similar size was to have been sought.

REPORT

BT Equipment, the supplier of the Bomag BC1172RB-2 currently being used as the primary waste compactor on site, has indicated a new Bomag BC1172RB-2, excluding options such as a fire suppression system and an extended warranty would cost \$1,125,000 (ex GST) (see attachment).

The cost of the fire suppression system option is \$10,000 (ex GST) and the cost of a 60 month/10,000 hr conditional extended warranty is \$80,000 (ex GST).



Item 9.3 continued

The Bomag BC1172RB-2 selected is the same model currently being used at Red Hill as the primary waste compactor. The machine in use has proved reliable and the level of service from the agents BT Equipment has been far superior to that provided by WesTrac P/L. WesTrac and Bomag are the only suppliers of waste compactors with a service network in W.A. Since BT Equipment is on the WALGA Suppliers Panel for Plant there is no requirement to develop a public tender for the supply of the waste compactor.

Provision for the purchase of a new waste compactor has been included in the Draft 2011/2012 Budget to be considered by Council at the July 2011 meeting of Council but, since there is currently a 3-4 month lead time between date of order and delivery, Council is requested to authorise the placing of an order for a new compactor prior to the 2011/2012 Budget being adopted so as to reduce the time that site is reliant on the smaller Cat 826C as the back up waste compactor.

STRATEGIC/POLICY IMPLICATIONS

In order to provide sustainable waste disposal operations and improve financial performance the most efficient plant should be procured at the lowest cost.

Key Result Area 1 – Environmental Sustainability

- 1.1 To provide sustainable waste disposal operations
- 1.2 To improve regional waste management

Key Result Area 4 – Good Governance

- 4.7 To continue to improve financial and asset management practices

FINANCIAL IMPLICATIONS

The purchase of the Bomag BC1172RB-2 waste compactor will be funded from the proceeds of the disposal of the Cat 836H and operational surplus in 2010/2011.

SUSTAINABILITY IMPLICATIONS

The proposed arrangement will reduce the cost of operations and improve the sustainability of the landfill operations.

MEMBER COUNCIL IMPLICATIONS

Member Council	Implication Details
Town of Bassendean	} Nil
City of Bayswater	
City of Belmont	
Shire of Kalamunda	
Shire of Mundaring	
City of Swan	



Item 9.3 continued

ATTACHMENT(S)

Price Quotations – BT Equipment excluding options (Ref: Committees-12411)

VOTING REQUIREMENT

Absolute Majority

RECOMMENDATION(S)

That:

1. Council by an absolute majority in accordance with Section 6.8 (1)(b) of the Local Government Act 1995 authorise the purchase of a new Bomag BC1172RB-2 refuse compactor from BT Equipment with an optional fire suppression system and 5 year/10,000 hours extended warranty for the sum of \$1,215,000 (ex GST) to be funded from 2010/2011 operating surpluses.
2. Council authorise the Chief Executive Officer to enter into a contract with BT Equipment in accordance with the submitted quotation subject to minor variations that may be agreed between the Chief Executive Officer and BT Equipment.

Discussion ensued

The Director Waste Services summarised the report and explained the advantages and disadvantages of accepting the offer for the disposal of the Cat 836H waste compactor, necessitating the need to purchase a replacement compactor. He also advised that Council would need to consider this report in conjunction with a report being submitted to Council on 23 June 2011 for the disposal of the waste compactor.

TAC RECOMMENDATION(S)

MOVED MR STEWART-DAWKINS SECONDED MR COTEN

That:

1. Council by an absolute majority in accordance with Section 6.8 (1)(b) of the Local Government Act 1995 authorise the purchase of a new Bomag BC1172RB-2 refuse compactor from BT Equipment with an optional fire suppression system and 5 year/10,000 hours extended warranty for the sum of \$1,215,000 (ex GST) to be funded from 2010/2011 operating surpluses.
2. Council authorise the Chief Executive Officer to enter into a contract with BT Equipment in accordance with the submitted quotation subject to minor variations that may be agreed between the Chief Executive Officer and BT Equipment.

CARRIED UNANIMOUSLY



BT Equipment Pty Ltd
PO Box 261
Belmont, WA 6984
50 Great Eastern Highway
South Guildford, WA 6055
Australia
Tel: 08 9478 0600
Fax: 08 9478 0688
ABN 89 094 476 141

BO085.GC

11th May, 2011

Eastern Metropolitan Regional Council
Attn: Brian Jones
PO Box 234
BELMONT WA 6984

brian.jones@emrc.org.au

Dear Brian,

Further to our recent conversation, I have pleasure in detailing on the attached schedule our quotation for the supply of one (1) only new refuse compactor as discussed.

Our quotation is based on the supply of one (1) new Bomag BC1172RB-2 refuse compactor, which meets closely with your requirements and includes the following features which you outlined as being most important to you:

- ✓ Premium Teeth with 10,000 hr Warranty
- ✓ Standard Trash Blade
- ✓ Standard 12 month/2000 hr Warranty
- ✓ Auto Greasing System
- ✓ Reversing Camera Colour
- ✓ Oil Sampling Points
- ✓ Quick Discharge Points
- ✓ Window Guarding
- ✓ 9Kg Fire Extinguisher
- ✓ Flashing Strobe Light with Cage
- ✓ Window Tinting
- ✓ 40 Channel UHF Radio
- ✓ Radio/CD Player
- ✓ Sign Writing
- ✓ Ops/Parts/Workshop Manuals x 3
- ✓ 3 x Sets of Keys
- ✓ Canvas Seat Cover
- ✓ **FREE FIRST SERVICE WITHIN THE METRO AREA**

There are many other value added standard and safety features incorporated in these machines which will of course be fully supported by BT Equipment.

With a combined 90 plus years of experience, the merger of two of Australia's oldest independent construction equipment distributors, Banbury and Tutts-Tat Hong, assures a continued strong reputation for providing quality products supported by a first class service through BT Equipment.

BT Equipment operate from five purpose built facilities located in Perth, Sydney, Melbourne, Adelaide and Brisbane each of which incorporates Sales, Service and Spare Parts departments.

A member of Tutt Bryant Group Limited





BT Equipment's product portfolio consists of:

- Bomag** Compaction Equipment
- Sumitomo & Kato** Cranes
- Sumitomo & Kato** Excavators
- Yanmar** Mini Excavators
- Mitsubishi** Graders
- Mustang** Skid Steer Loaders
- Kawasaki** Wheel Loaders

Service

BT Equipment Perth employs a team of highly qualified and vastly experienced heavy-duty field service and workshop mechanics operating from our South Guildford Service Centre to ensure immediate service and warranty work is carried out without delay or inconvenience to our customers. In addition, a number of strategically located service agents have been appointed to reduce downtime even further.

It is our desire to develop strong and lasting partnerships with our customers and to provide the professional support and service needed to ensure your future success.

Spare Parts

BT Equipment carries a comprehensive range of service products and spare parts at all branches throughout Australia, to ensure that programmed maintenance and repairs can be carried out effectively as required. We aim to supply 90% of regular moving parts from off the shelf. Other parts will be sourced and supplied within 24 hours providing they are available within Australia.

Finance

In addition to providing quality products we are also able to arrange finance for the purchase of your machine through a number of respected finance companies.

We trust that our proposal proves acceptable and we look forward to being of service to you in the future. In the meantime, should you require any further assistance please do not hesitate in contacting us. Assuring you of our best attention at all times.

Yours sincerely,

A handwritten signature in black ink, appearing to read 'Geoff Coole', written over a light grey background.

GEOFF COOLE
Area Manager

A member of Tutt Bryant Group Limited



**BOMAG BC 1172RB-2 REFUSE COMPACTOR
SPECIFICATION**

Operating weight CECE:	54500 kg
Compacting width in 2 passes:	6020 mm
Gradeability:	100%

Equipped with

- Joystick-steering
- Air conditioning
- Fully hydrostatic travel drive with independent drive for each wheel
- 3 "infinitely-variable" speed ranges for forward and reverse, with automatic load sending system (0 - 3/0 -5/0 - 12 km/h)
- Fully boxed-up under-carriage with ground clearance at 600mm
- 4 Bomag polygonal-disc compaction wheels (T30) with Bomag, pin-on landfill teeth, each wheel with 6 rows/72 teeth in front wheel, 5 rows/72 teeth in rear wheel, tooth height 200 mm
- 2 scraper bars with adjustable scrapers per wheel
- Wire cutters between wheel & machine body and, between drive hub & chassis provided for each wheel
- Dozer blade 5200mm wide with side plate, height 2225mm
- Deutz BF8M1015C, water-cooled Diesel engine. Compliance to Euro COM11/US EPA11
- Performance : 400 kW (ISO 9249)/536 HP(SAE-J-1349) @ 2100 rpm
- Special engine air-intake system with air inlet at 4 metres high
- 24 volts electrical system
- Electronic fault monitoring module
- 2 side access gang-ways
- Cabin with integrated ROPS/FOPS, pressurised and noise reduced to below 74 dBA
- 4 front + 2 rear working lights

(Detailed specification per technical data sheet no. PRE 570 80 001)



**BOMAG BC1172RB-2 REFUSE COMPACTOR
PROPOSAL**

Purchase Price:

One (1) new Bomag BC1172RB-2 Refuse compactor in accordance with your specification **\$1,125,000.00**

GST: **\$112,500.00**

Total Price (including GST): **\$1,237,500.00**

OPTIONS:

- Fire Suppression System **\$10,000.00 + GST**
- 60 Month/10,000Hrs conditional extended warranty **\$80,000.00 + GST**

GST

Except where amounts payable under this quotation are stated as being GST inclusive, the considerations payable for any supply of any goods, services or other things under this quotation has been calculated initially without regard to and exclusive of any GST.

Free BT Equipment offers the first service at no charge.

Warranty:

One year warranty on the complete machine or 2000 hours, all parts and labour.

Warranties for non-genuine attachments and optional equipment are the responsibility of the original distributor or manufacturer. Wherever possible, BT Equipment will assist in the warranty process with the relevant supplier.

Condition of Sale:

This quotation can only be accepted after completion by you and BT Equipment of the enclosed Equipment Order.

Terms of Payment

This quotation is offered subject to our normal terms and conditions which include payment in full prior to unit delivery.

Exchange Rate Variation:

Equipment quoted herein is subject to fluctuation in exchange rates, import duties, transport and other costs.

Whilst every effort is made to stabilise final price, the company reserves the right to amend prices affected by such variations, such variation will be to purchaser's account.

Delivery

Delivery to site at Red Hill Landfill.

A member of Tutt Bryant Group Limited





Availability

3 - 4 months ex Factory Stock, subject to availability of attachments and prior sale.

Validity:

This quotation is valid for 30 days.



A member of Tutt Bryant Group Limited





10 CONFIDENTIAL MATTERS FOR WHICH THE MEETING MAY BE CLOSED TO THE PUBLIC

Nil

11 GENERAL BUSINESS

The Director Waste Services advised that a letter, dated 2 June 2011, had been received from the Shire of Kalamunda stating that they are to resume management of the Walliston (Lawnbrook Road Transfer Station) effective 1 July 2011, with a potential three month transition period. The Director Waste Services also advised there is no major financial implication to the EMRC, only that an employee, who has been employed since the EMRC first took over management in 2007, would be offered an available position at the Mathieson Road Transfer Station. As the Shire of Kalamunda may wish to utilise the bins, subject to a handover period to be confirmed, the bin hire arrangement would be likely to continue but there were no significant implications for the EMRC.

12 FUTURE MEETINGS OF THE TECHNICAL ADVISORY COMMITTEE

The next meeting of the Technical Advisory Committee will be held on **Thursday 7 July 2011 (if required)** at the EMRC Administration Office, 1st Floor, Ascot Place, 226 Great Eastern Highway, Belmont WA 6104 commencing at 4.00 pm.

Future Meetings 2011

Thursday	7	July (if required)	at	EMRC Administration Office
Thursday	4	August	at	EMRC Administration Office
Thursday	8	September (if required)	at	EMRC Administration Office
Thursday	6	October	at	EMRC Administration Office
Thursday	17	November (if required)	at	Red Hill Waste Management Facility

13 DECLARATION OF CLOSURE OF MEETING

There being no further business, the Chairman declared the meeting closed at 4.26pm.